



Multi-access Edge Computing (MEC); API Conformance Test Specification; Part 2: Test Purposes (TP)

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Foreword

This Group Specification (GS) has been produced by ETSI Industry Specification Group (ISG) Multi-access Edge Computing (MEC).

The present document is part 2 of a multi-part deliverable. Full details of the entire series can be found in part 1 [i.9].

Modal verbs terminology

In the present document "**shall**", "**shall not**", "**should**", "**should not**", "**may**", "**need not**", "**will**", "**will not**", "**can**" and "**cannot**" are to be interpreted as described in clause 3.2 of the [ETSI Drafting Rules](#) (Verbal forms for the expression of provisions).

"**must**" and "**must not**" are **NOT** allowed in ETSI deliverables except when used in direct citation.

1 Scope

Based on the testing methodology guidelines and framework specified in ETSI GR MEC-DEC 025 [i.8], the present document specifies part 2 of a multi-part deliverable test specification for the MEC service APIs (currently ETSI GS MEC 012 [5], ETSI GS MEC 013 [6], ETSI GS MEC 014 [7], ETSI GS MEC 015 [8], ETSI GS MEC 016 [9], ETSI GS MEC 021 [10], ETSI GS MEC 028 [11], ETSI GS MEC 029 [12] and ETSI GS MEC 030 [13]) and the MEC APIs specified in ETSI GS MEC 010-2 [3] and ETSI GS MEC 011 [4].

The present document includes the Test Suite Structure (TSS) and Test Purposes (TPs) using the standardized notation Test Description Language - Test Objectives extension (TDL_TO).

2 References

2.1 Normative references

References are either specific (identified by date of publication and/or edition number or version number) or non-specific. For specific references, only the cited version applies. For non-specific references, the latest version of the referenced document (including any amendments) applies.

Referenced documents which are not found to be publicly available in the expected location might be found at <https://docbox.etsi.org/Reference/>.

NOTE: While any hyperlinks included in this clause were valid at the time of publication, ETSI cannot guarantee their long term validity.

The following referenced documents are necessary for the application of the present document.

- [1] Void.
- [2] ETSI GS MEC 009 (V2.2.1): " Multi-access Edge Computing (MEC); General principles, patterns and common aspects of MEC Service APIs".
- [3] ETSI GS MEC 010-2 (V2.2.1): "Multi-access Edge Computing (MEC); MEC Management; Part 2: Application lifecycle, rules and requirements management".
- [4] ETSI GS MEC 011 (V2.2.1): "Multi-access Edge Computing (MEC); Edge Platform Application Enablement".
- [5] ETSI GS MEC 012 (V2.1.1): "Multi-access Edge Computing (MEC); Radio Network Information API".
- [6] ETSI GS MEC 013 (V2.1.1): "Multi-access Edge Computing (MEC); Location API".
- [7] ETSI GS MEC 014 (V2.1.1): "Multi-access Edge Computing (MEC); UE Identity API".
- [8] ETSI GS MEC 015 (V2.1.1): "Multi-Access Edge Computing (MEC); Traffic Management APIs".
- [9] ETSI GS MEC 016 (V2.2.1): "Multi-access Edge Computing (MEC); Device application interface".
- [10] ETSI GS MEC 021 (V2.1.1): "Multi-access Edge Computing (MEC); Application Mobility Service API".
- [11] ETSI GS MEC 028 (V2.2.1): "Multi-access Edge Computing (MEC); WLAN Access Information API".
- [12] ETSI GS MEC 029 (V2.1.1): "Multi-access Edge Computing (MEC); Fixed Access Information API".
- [13] ETSI GS MEC 030 (V2.1.1): "Multi-access Edge Computing (MEC); V2X Information Service API".

2.2 Informative references

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The following referenced documents are not necessary for the application of the present document but they assist the user with regard to a particular subject area.

- [i.1] Void.
- [i.2] Void.
- [i.3] Void.
- [i.4] Void.
- [i.5] Void.
- [i.6] Void.
- [i.7] TTCN-3 abstract test language.

NOTE: Available at <http://www.ttcn-3.org/index.php/downloads/standards>.

- [i.8] ETSI GR MEC-DEC 025: "Multi-access Edge Computing (MEC); MEC Testing Framework".
- [i.9] ETSI GS MEC-DEC 032-1: "Multi-access Edge Computing (MEC); API Conformance Test Specification; Part 1: Test Requirements and Implementation Conformance Statement (ICS)".
- [i.10] ETSI GR MEC 001 (V3.1.1): "Multi-access Edge Computing (MEC); Terminology".

3 Definition of terms, symbols and abbreviations

3.1 Terms

For the purposes of the present document, the following terms apply:

certification/compliance assessment: major goal of a compliance assessment is to ensure the interoperability of implementations, and the conformance of implementations to the standard

conformance testing: purpose of conformance testing is to determine to what extent a single implementation of a particular standard conforms to the individual requirements of that standard

interoperability testing: purpose of interoperability testing is to prove that end-to-end functionality between (at least) two communicating systems is as required by the standard(s) on which those systems are based

Test Case (TC): complete and independent specification of the actions required to achieve a specific Test Purpose

NOTE: TCs are written in testing languages, e.g. TTCN-3 [i.7].

Test Descriptions (TD): specification of the sequence of actions required to realize the verdict identified in the TP

NOTE: TDs are primarily intended for use in interoperability test specifications. However, in some instances, particularly where there is a considerable difference in complexity between the TPs and the TCs, it is worthwhile adding TDs as an extra design stage in a conformance test specification.

Test Purpose (TP): definition in broad terms of the goal of a particular test.

NOTE: A TP should be written for each potential test of each identified requirement. A TP is defined in prose, or in high level languages such as TDL-TO.

test suite: collection of Test Cases

testing framework: guidance for development of conformance and interoperability test strategies, test systems and the resulting test specifications

3.2 Symbols

Void.

3.3 Abbreviations

For the purposes of the present document, the abbreviations given in ETSI GR MEC 001 [i.10] apply.

4 Prerequisites and Test Configurations

4.1 Test Configurations

Test configurations capture and describe the components identified in the tests and the connections between them. In particular and as reported in ETSI GR MEC-DEC 025 [i.8], in the context of conformance testing the test configuration "defines how the test system connects to the SUT".

For the present test suite, six (6) configurations are identified and listed in the present clause.

For each test configuration two (2) main components are identified: the IUT implementing the API provider and the Tester implementing the API consumer. The IUT is part of a SUT (System Under Test), thus the component may be run together with other components of the MEC System that are required to enable the behaviour to be tested. The definition of the other components is out of scope.

Figure 4.1-1 depicts configuration Config_MEC_1 which includes a MEC Platform as the IUT and a MEC App as the Tester. This configuration is applicable for all test purposes in all subgroups of the SRV Group.

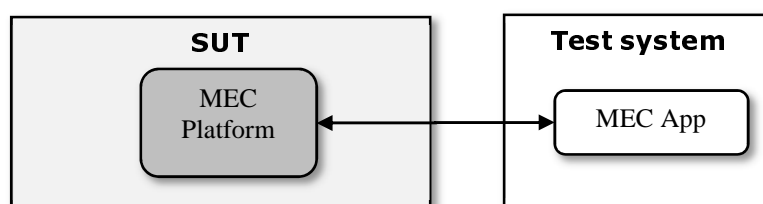


Figure 4.1-1: Config_MEC_1

Figure 4.1-2 depicts configuration Config_MEC_2 which includes a MEO as the IUT and OSS/BSS as the Tester. This configuration is applicable for group MEO, subgroup PKGM.

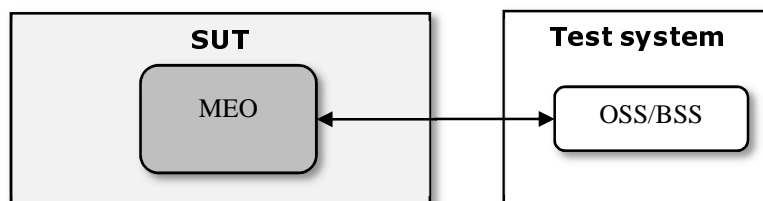


Figure 4.1-2: Config_MEC_2

Figure 4.1-3 depicts configuration Config_MEC_3 which includes a MEO as the IUT and a MEPM as the Tester. This configuration is applicable for subgroup MEO/GRANT and in subgroup MEPM/PKGM.

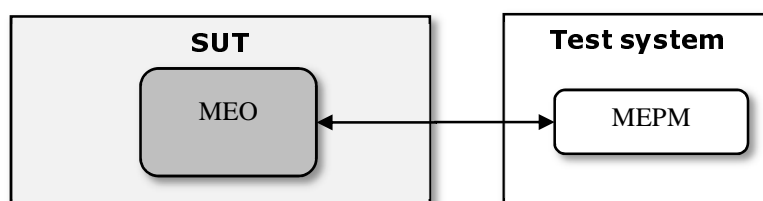


Figure 4.1-3: Config_MEC_3

Figure 4.1-4 depicts configuration Config_MEC_4 which includes a UALCM Proxy as the IUT and a DEV App as the Tester. This configuration is applicable for group MEO subgroups UEAPPCTX and UEAPPS.

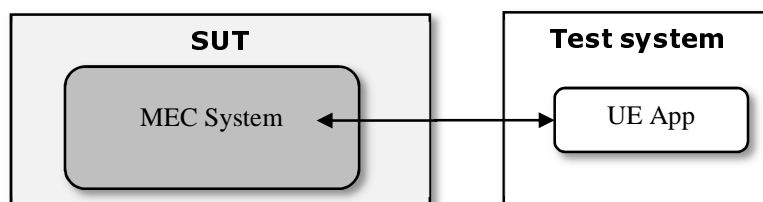


Figure 4.1-4: Config_MEC_4

Figure 4.1-5 depicts configuration Config_MEC_5 which includes a MEPM as the IUT and a MEO as the Tester. This configuration is applicable for group MEPM, subgroup PKGM.

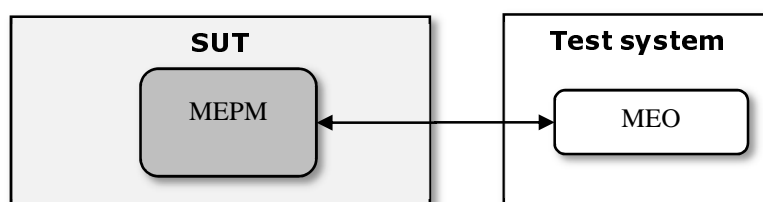


Figure 4.1-5: Config_MEC_5

Figure 4.1-6 depicts configuration Config_MEC_6 which includes a generic MEC API Provider as the IUT and a generic MEC API consumer as the Tester. This configuration is applicable for test targeting generic API behaviours, thus group MEX , subgroup ANY and LCM.

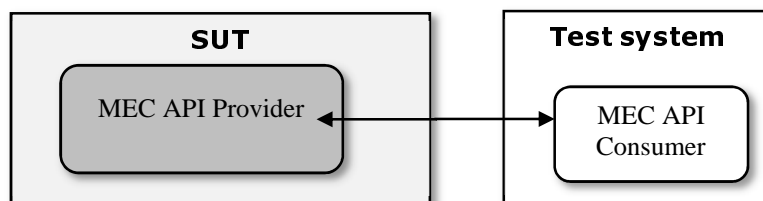


Figure 4.1-6: Config_MEC_6

5 Test Suite Structure (TSS)

5.1 Overview

The test suite structure identifies grouping of test purposes and serves as a base for grouping of Test Case in the ATS (Abstract Test Suite).

The Test Suite structure is used for the creation of identifiers of Test Purposes.

Table 5.1-1 identifies the Test Suite Structure for the MEC API Conformance test suites. Documentation on the groups and subgroups is provided in clause 5.2.

Table 5.1-1: Test Suite Structure for MEC API Conformance

TP	<root>	<doc>	<gr>	<subgr>	<nnn>	<xx>
<root> = root	MEC					MEC
<doc> = base document	MEC009					Addressing base requirements in ETSI GS MEC 009 [2]
	MEC010p2					Addressing base requirements in ETSI GS MEC 010-2 [3]
	MEC011					Addressing base requirements in ETSI GS MEC 011 [4]
	MEC012					Addressing base requirements in ETSI GS MEC 012 [5]
	MEC013					Addressing base requirements in ETSI GS MEC 013 [6]
	MEC014					Addressing base requirements in ETSI GS MEC 014 [7]
	MEC015					Addressing base requirements in ETSI GS MEC 015 [8]
	MEC016					Addressing base requirements in ETSI GS MEC 016 [9]
	MEC021					Addressing base requirements in ETSI GS MEC 021 [10]
	MEC028					Addressing base requirements in ETSI GS MEC 028 [11]
	MEC029					Addressing base requirements in ETSI GS MEC 029 [12]
	MEC030					Addressing base requirements in ETSI GS MEC 030 [13]
<gr> = group	SRV					MEC Services
	MEO					MEC Orchestrator
	MEPM					MEC Platform Manager
	PLAT					MEC platform
	MEX					Generic MEC API Producer
<subgr> = subgroup	AMS					Application Mobility Service
	ANY					Un-specified feature, used for generic test purposes
	APPASQ					Application Service Availability Query
	APPSUB					Application Subscriptions
	TM					Traffic Management
	MTS					Multi-access Traffic Steering
	DNS					DNS rules
	LCM					Lifecycle Management
	FAIS					Fixed Access Information Service
	GRANT					Granting
	PKGM					App Package Management
	SAQ					Service Availability Query

TP_<root>_<doc>_<gr>_<subgr>_<nnn>_<xx>		
	RLOCLOOK	Radio Node Location Lookup
	RNIS	Radio Network Information Service
	SRVSUB	Service Subscriptions
	TIME	Timing capabilities
	TRAF	Traffic rules
	TRANS	Transport
	UEAPPCTX	Device Application Contexts
	UEAPPS	Device Applications
	UEAPPLOC	UE App Location
	UEAREASUB	UE Area Subscribe
	UEDISTLOOK	UE Distance Lookup
	UEDISTSUB	UE Distance Subscribe
	UEINFOLOOK	UE Information Lookup
	UEINFOSUB	UE Information Subscription
	UELOCLOOK	UE Location lookup
	UELOCSUB	UE Location Subscription
	UETAG	UE Identity Tag
	UETRACKSUB	UE Tracking Subscribe
	WAI	WLAN Access Information
	V2X	V2X Information Service
<nnn> = sequential number		001 to 999
<xx> = type of testing	OK	Valid/Successful behaviour (200, 201, 202, 204)
	BR	Bad request
	NT	No token
	WT	Wrong Token
	NF	Missing (404)
	CO	Conflict (409)
	PF	Precondition Failed (412)
	E1	Generic error condition 1
	E2	Generic error condition 2
	E3	Generic error condition 3
	...	

5.2 Test groups and subgroups specifications

The test grouping is organized on three (3) levels. The first level is the reference to the base Document that contains the requirements for the tests. The second level is the Group and identifies the MEC component that is providing the Service or Interface to be tested. The third level is called Subgroup and identifies a set of functionalities within an API. In general this is related to the entities and resources manipulated or served by the API.

Moreover, test purposes are identified and categorized by a sequential three-digits number (uniquely assigned upon definition of each test purpose) and by the type of test performed. The type of test helps quickly identify the type of behaviour that is expected by the IUT in the test purpose.

5.3 Conventions

Conventions reported in ETSI GR MEC-DEC 025 [i.8], clauses 4.3.3.2.3 and 4.3.3.2.4 shall apply.

The test purposes are primarily developed in textual syntax of TDL-TO. The sources for the Test Purposes are available in <https://forge.etsi.org/rep/mec/g032p2-test-purposes/-/tree/3.1.1>.

The definitions of PICS, Entities, Events and data types are available in Domain section in the mec-common.tplan2 file.

6 Test Purposes (TP)

6.1 MEC009

6.1.1 Generic MEC API Producer (MEX)

6.1.1.1 Generic feature (Any)

Table 6.1.1-1: TP_MEC_MEC009_MEX_ANY_001_NT

TP Id	"TP_MEC_MEC009_MEX_ANY_001_NT"
Test Objective	Check that a MEC API provider responds with an error when it receives a request without token
Reference	ETSI GS MEC 009 [2], clause 6.16.1
Configuration	Config_MEC_6
Initial Conditions	
with { the IUT being_in idle_state }	
Expected Behaviour	
<pre> ensure that { when { the IUT receives a HTTP_REQUEST containing uri indicating value ACCEPTABLE_URI, "not" authorization from the MEC_CONSUMER entity } then { the IUT sends a HTTP_RESPONSE containing status set to "401 Unauthorized" to the MEC_CONSUMER entity } } </pre>	

Table 6.1.1-2: TP_MEC_MEC009_MEX_ANY_001_WT

TP Id	"TP_MEC_MEC009_MEX_ANY_001_WT"
Test Objective	Check that a MEC API provider responds with an error when it receives a request with a wrong token
Reference	ETSI GS MEC 009 [2], clause 6.16.1
Configuration	Config_MEC_6
Initial Conditions	
with { the IUT being_in idle_state }	
Expected Behaviour	
<pre> ensure that { when { the IUT receives a HTTP_REQUEST containing uri indicating value ACCEPTABLE_URI, headers containing authorization set to NOT_VALID_TOKEN from the MEC_CONSUMER entity } then { the IUT sends a HTTP_RESPONSE containing status set to "401 Unauthorized" to the MEC_CONSUMER entity } } </pre>	

6.2 MEC010p2

6.2.1 Multi-access Edge Orchestrator (MEO)

6.2.1.1 Granting (GRANT)

Table 6.2.1-1: TP_MEC_MEC010p2_MEO_GRANT_001_OK

TP Id	"TP_MEC_MEC010p2_MEO_GRANT_001_OK"
Test Objective	Check that MEO sends a synchronous grant response when a grant request is requested - INSTANTIATE
Reference	ETSI GS MEC 010-2 (V2.2.1) [3], clause 7.5.1.3.1 ETSI GS MEC 010-2 (V2.2.1) [3], Table 6.2.4.2.2-1 ETSI GS MEC 010-2 (V2.2.1) [3], Table 6.2.4.2.2-1 Note 2 ETSI GS MEC 010-2 (V2.2.1) [3], Table 6.2.4.4.2-1
Configuration	Config_MEC_3
PICS Selection	PIC_GRANTS_MANAGEMENT
Initial Conditions	
<pre>with { the IUT having a app_instance containing appInstanceID indicating value APP_INSTANCE_ID, link indicating value H_LINK }</pre>	
Expected Behaviour	
<pre>ensure that { when { the IUT receives a vPOST containing uri indicating value "/granting/v1/grants", body containing GrantRequest containing appInstanceID set to APP_INSTANCE_ID, appLcmOpOccId set to any_value, appDId set to any_value, operation set to INSTANTIATE, addResources set to INST_RESOURCES_LIST _links set to H_LINK from the MEPM entity } then { the IUT sends a HTTP_RESPONSE containing status set to "201 Created", headers containing Location indicating value "{GRANTING_ID}" body containing Grant containing id set to any_value, appInstanceID set to APP_INSTANCE_ID, appLcmOpOccId set to any_value, addResources set to INST_RESOURCES_LIST, _links set to H_LINK to the MEPM entity } }</pre>	

Table 6.2.1-2: TP_MEC_MEC010p2_MEO_GRANT_001_BR

TP Id	"TP_MEC_MEC010p2_MEO_GRANT_001_BR"
Test Objective	Check that MEO responds with an error when it receives a malformed request when a new grant request is performed - INSTANTIATE
Reference	ETSI GS MEC 010-2 (V2.2.1) [3], clause 7.5.1.3.1 ETSI GS MEC 010-2 (V2.2.1) [3], Table 6.2.4.2.2-1 ETSI GS MEC 010-2 (V2.2.1) [3], Table 6.2.4.2.2-1 Note 2 ETSI GS MEC 010-2 (V2.2.1) [3], Table 6.2.4.4.2-1
Configuration	Config_MEC_3
PICS Selection	PIC_GRANTS_MANAGEMENT
Initial Conditions	
with { the IUT having a app_instance containing appInstanceID indicating value APP_INSTANCE_ID, link indicating value H_LINK }	
Expected Behaviour	
ensure that { when { the IUT receives a vPOST containing uri indicating value "/granting/v1/grants", body containing GrantRequest containing appInstanceId set to APP_INSTANCE_ID, appLcmOpOccId set to any_value, appDId set to any_value, operationERROR set to INSTANTIATE, not addResources, _links set to H_LINK from the MEPM entity } then { the IUT sends a HTTP_RESPONSE containing status set to "400 Bad Request" to the MEPM entity } }	

Table 6.2.1-3: TP_MEC_MEC010p2_MEO_GRANT_002_OK

TP Id	"TP_MEC_MEC010p2_MEO_GRANT_002_OK"
Test Objective	Check that MEO sends a synchronous grant response when a grant request is requested
Reference	ETSI GS MEC 010-2 (V2.2.1) [3], clause 7.5.1.3.1 ETSI GS MEC 010-2 (V2.2.1) [3], Table 6.2.4.2.2-1 ETSI GS MEC 010-2 (V2.2.1) [3], Table 6.2.4.4.2-1
Configuration	Config_MEC_3
PICS Selection	PIC_GRANTS_MANAGEMENT
Initial Conditions	
with { the IUT having a app_instance containing appInstanceID indicating value APP_INSTANCE_ID, link indicating value H_LINK }	
Expected Behaviour	
ensure that { when { the IUT receives a vPOST containing uri indicating value "/granting/v1/grants", body containing GrantRequest containing appInstanceId set to APP_INSTANCE_ID, appLcmOpOccId set to any_value, appDId set to any_value, operation set to OPERATION_TYPE, //Shall be one from - OPERATE - TERMINATE _links set to H_LINK from the MEPM entity } then {	

```

the IUT sends a HTTP_RESPONSE containing
status set to "201 Created",
headers containing
  Location set to "/granting/v1/grants/{GRANTING_ID}"
body containing
  Grant containing
    id set to any_value,
    appInstanceId set to APP_INSTANCE_ID,
    appLcmOpOccId set to any_value,
    _links set to H_LINK

to the MEPM entity
}
}

```

Table 6.2.1-4: TP_MEC_MEC010p2_MEO_GRANT_003_OK - INSTANTIATE

TP Id	"TP_MEC_MEC010p2_MEO_GRANT_003_OK - INSTANTIATE"
Test Objective	Check that MEO sends an asynchronous grant response when a grant request is requested
Reference	ETSI GS MEC 010-2 (V2.2.1) [3], clause 7.5.2.3.1 ETSI GS MEC 010-2 (V2.2.1) [3], Table 6.2.4.2.2-1 ETSI GS MEC 010-2 (V2.2.1) [3], Table 6.2.4.2.2-1 Note 2 ETSI GS MEC 010-2 (V2.2.1) [3], Table 6.2.4.4.2-1
Configuration	Config_MEC_3
PICS Selection	PIC_GRANTS_MANAGEMENT
Initial Conditions	
<pre> with { the IUT having a app_instance containing appInstanceId indicating value APP_INSTANCE_ID, link indicating value H_LINK } </pre>	
Expected Behaviour	
<pre> ensure that { when { the IUT receives a vPOST containing uri indicating value "/granting/v1/grants", body containing GrantRequest containing appInstanceId set to APP_INSTANCE_ID, appLcmOpOccId set to any_value, appDid set to any_value, operation set to INSTANTIATE, addResources set to INST_RESOURCES_LIST, _links set to H_LINK from the MEPM entity } then { the IUT sends a HTTP_RESPONSE containing status set to "202 Accepted", headers containing Location set to "/granting/v1/grants/{GRANTING_ID}" to the MEPM entity } } </pre>	

Table 6.2.1-5: TP_MEC_MEC010p2_MEO_GRANT_004_OK

TP Id	"TP_MEC_MEC010p2_MEO_GRANT_004_OK"
Test Objective	Check that MEO sends an asynchronous grant response when a grant request is requested
Reference	ETSI GS MEC 010-2 (V2.2.1) [3], clause 7.5.2.3.1 ETSI GS MEC 010-2 (V2.2.1) [3], Table 6.2.4.2.2-1 ETSI GS MEC 010-2 (V2.2.1), Table 6.2.4.4.2-1
Configuration	Config_MEC_3
PICS Selection	PIC_GRANTS_MANAGEMENT
Initial Conditions	
<pre>with { the IUT having a app_instance containing appInstanceID indicating value APP_INSTANCE_ID, link indicating value H_LINK }</pre>	
Expected Behaviour	
<pre>ensure that { when { the IUT receives a vPOST containing uri indicating value "/granting/v1/grants", body containing GrantRequest containing appInstanceID set to APP_INSTANCE_ID, appLcmOpOccId set to any_value, appDId set to any_value, operation set to OPERATION_TYPE, //Shall be one from - OPERATE - TERMINATE _links set to H_LINK from the MEPM entity } then { the IUT sends a HTTP_RESPONSE containing status set to "202 Accepted", headers containing Location set to "/granting/v1/grants/{GRANTING_ID}" to the MEPM entity } }</pre>	

Table 6.2.1-6: TP_MEC_MEC010p2_MEO_GRANT_005_OK

TP Id	"TP_MEC_MEC010p2_MEO_GRANT_005_OK"
Test Objective	Check that MEO sends the status of a grant request when a query on a granting ID is performed
Reference	ETSI GS MEC 010-2 (V2.2.1) [3], clause 7.5.2.3.2 ETSI GS MEC 010-2 (V2.2.1) [3], Table 6.2.4.4.2-1
Configuration	Config_MEC_3
PICS Selection	PIC_GRANTS_MANAGEMENT
Initial Conditions	
<pre>with { the IUT having a grant containing id indicating value GRANTING_ID, link indicating value H_LINK }</pre>	
Expected Behaviour	
<pre>ensure that { when { the IUT receives a vGET containing uri indicating value "/granting/v1/grants/{GRANTING_ID}" from the MEPM entity } then { the IUT sends a HTTP_RESPONSE containing status set to "202 Accepted", headers containing Location set to "/granting/v1/grants/{GRANTING_ID}" to the MEPM entity } }</pre>	

```
}
}
```

Table 6.2.1-7: TP_MEC_MEC010p2_MEO_GRANT_006_OK

TP Id	"TP_MEC_MEC010p2_MEO_GRANT_006_OK"
Test Objective	Check that MEO sends the status of a grant request when a query on a granting ID is performed
Reference	ETSI GS MEC 010-2 (V2.2.1) [3], clause 7.5.2.3.2 ETSI GS MEC 010-2 (V2.2.1) [3], Table 6.2.4.4.2-1
Configuration	Config_MEC_3
PICS Selection	PIC_GRANTS_MANAGEMENT
Initial Conditions	
with { the IUT having a grant containing id indicating value GRANTING_ID, link indicating value H_LINK }	
Expected Behaviour	
ensure that { when { the IUT receives a vGET containing uri indicating value "/granting/v1/grants/{GRANTING_ID}" from the MEPM entity } then { the IUT sends a HTTP_RESPONSE containing status set to "200 OK", body containing Grant containing id set to GRANTING_ID, appInstanceId set to any_value, appLcmOpOccId set to any_value, _links set to H_LINK to the MEPM entity } }	

Table 6.2.1-8: TP_MEC_MEC010p2_MEO_GRANT_006_NF

TP Id	"TP_MEC_MEC010p2_MEO_GRANT_003_NF"
Test Objective	Check that MEO responds with an error when it receives a request for returning a grant referred with a wrong ID
Reference	ETSI GS MEC 010-2 (V2.2.1) [3], clause 7.5.2.3.2
Configuration	Config_MEC_3
PICS Selection	PIC_GRANTS_MANAGEMENT
Initial Conditions	
with { the IUT not having a grant containing id indicating value GRANTING_ID }	
Expected Behaviour	
ensure that { when { the IUT receives a vGET containing uri indicating value "/granting/v1/grants/{GRANTING_ID}" from the MEPM entity } then { the IUT sends a HTTP_RESPONSE containing status set to "404 Not Found" to the MEPM entity } }	

6.2.1.2 App Package Management (PKGM)

Table 6.2.1-9: TP_MEC_MEC010p2_MEO_PKGM_001_OK

TP Id	"TP_MEC_MEC010p2_MEO_PKGM_001_OK"
Test Objective	Check that MEO creates a new App Package when requested
Reference	ETSI GS MEC 010-2 (V2.2.1) [3], clause 7.3.1.3.1 ETSI GS MEC 010-2 (V2.2.1) [3], Table 6.2.3.3.2-1 ETSI GS MEC 010-2 (V2.2.1) [3], Table 6.2.3.2.2-1
Configuration	Config_MEC_2
PICS Selection	PIC_APP_PACKAGE_MANAGEMENT
Initial Conditions	
with { the IUT being_in idle_state }	
Expected Behaviour	
<pre> ensure that { when { the IUT receives a vPOST containing uri indicating value "/app_pkg/v1/app_packages", body containing CreateAppPkg containing appPkgName set to APP_PKG_NAME, appPkgVersion set to APP_PKG_VERSION, checksum set to CHECKSUM, appPkgPath set to APP_PKG_PATH from the MEC_OSS entity } then { the IUT sends a HTTP_RESPONSE containing status set to "201 Created", body containing AppPkgInfo containing id set to any_value, appDId set to any_value, appSoftwareVersion set to any_value, appDVersion set to APP_PKG_VERSION, checksum set to CHECKSUM, softwareImages, onboardingState set to "CREATED", operationalState set to "ENABLED", usageState set to "NOT_IN_USE", mecInfo _links containing self set to any_value, appD set to any_value, appPkgContent set to any_value, not vnfPkgInfo // See Note 3 to the MEC_OSS entity } } </pre>	

Table 6.2.1-10: TP_MEC_MEC010p2_MEO_PKGM_001_BR

TP Id	"TP_MEC_MEC010p2_MEO_PKGM_001_BR"
Test Objective	Check that MEO responds with an error when it receives a malformed request for creating a new App Package
Reference	ETSI GS MEC 010-2 (V2.2.1) [3], clause 7.3.1.3.1 ETSI GS MEC 010-2 (V2.2.1) [3], Table 6.2.3.2.2-1
Configuration	Config_MEC_2
PICS Selection	PIC_APP_PACKAGE_MANAGEMENT
Initial Conditions	
with { the IUT being_in idle_state }	

Expected Behaviour
<pre> ensure that { when { the IUT receives a vPOST containing uri indicating value "/app_pkgm/v1/app_packages", body containing AppPkg containing not appPkgName from the MEC_OSS entity } then { the IUT sends a HTTP_RESPONSE containing status set to "400 Bad Request" to the MEC_OSS entity } } </pre>

Table 6.2.1-11: TP_MEC_MEC010p2_MEO_PKGM_002_01_OK

TP Id	"TP_MEC_MEC010p2_MEO_PKGM_002_01_OK"
Test Objective	Check that MEO returns the list of App Packages when requested
Reference	ETSI GS MEC 010-2 (V2.2.1) [3], clause 7.3.1.3.2 ETSI GS MEC 010-2 (V2.2.1) [3], Table 6.2.3.3.2-1 ETSI GS MEC 010-2 (V2.2.1) [3], Table 6.2.3.3.2-1 Note 3
Configuration	Config_MEC_2
PICS Selection	PIC_APP_PACKAGE_MANAGEMENT
Initial Conditions	
<pre> with { the IUT having an App_Package containing appPkgId indicating value APP_PKG_ID, appDId indicating value ON_BOARDED_APPD_ID } </pre>	
Expected Behaviour	
<pre> ensure that { when { the IUT receives a vGET containing uri indicating value "/app_pkgm/v1/app_packages" from the MEC_OSS entity } then { the IUT sends a HTTP_RESPONSE containing status set to "200 OK", body containing AppPkgInfoList containing AppPkgInfo containing id set to APP_PKG_ID, appDId set to ON_BOARDED_APPD_ID, appName set to any_value, appSoftwareVersion set to any_value, appDVersion set to any_value, checksum set to any_value, softwareImages, onboardingState, operationalState set to any_value, usageState set to any_value, mecInfo, _links containing self set to any_value, appD set to any_value, appPkgContent set to any_value, not vnfPkgInfo // See Note 3 to the MEC_OSS entity } } </pre>	

Table 6.2.1-12: TP_MEC_MEC010p2_MEO_PKGM_002_02_OK

TP Id	"TP_MEC_MEC010p2_MEO_PKGM_002_02_OK"
Test Objective	Check that MEO returns the list of on-boarded App Packages when requested
Reference	ETSI GS MEC 010-2 (V2.2.1) [3], clause 7.3.1.3.2 ETSI GS MEC 010-2 (V2.2.1) [3], Table 6.2.3.3.2-1 ETSI GS MEC 010-2 (V2.2.1) [3], Table 6.2.3.3.2-1 Note 3
Configuration	Config_MEC_2
PICS Selection	PIC_APP_PACKAGE_MANAGEMENT
Initial Conditions	
with { the IUT having an App_Package containing appPkgId indicating value APP_PKG_ID, appDId indicating value ON_BOARDED_APPD_ID }	
Expected Behaviour	
ensure that { when { the IUT receives a vGET containing uri indicating value "/app_pkgm/v1/onboarded_app_packages" from the MEC_OSS entity } then { the IUT sends a HTTP_RESPONSE containing status set to "200 OK", body containing AppPkgInfoList containing AppPkgInfo containing id set to APP_PKG_ID, appDId set to ON_BOARDED_APPD_ID, appName set to any_value, appSoftwareVersion set to any_value, appDVersion set to any_value, checksum set to any_value, softwareImages, onboardingState, operationalState set to any_value, usageState set to any_value, mecInfo, _links containing self set to any_value, appD set to any_value, appPkgContent set to any_value, not vnfPkgInfo // See Note 3 to the MEC_OSS entity } }	

Table 6.2.1-13: TP_MEC_MEC010p2_MEO_PKGM_002_BR

TP Id	"TP_MEC_MEC010p2_MEO_PKGM_002_BR"
Test Objective	Check that MEO responds with an error when it receives a malformed request for retrieving the list of existing App Packages
Reference	ETSI GS MEC 010-2 (V2.2.1) [3], clause 7.3.1.3.2 ETSI GS MEC 010-2 (V2.2.1) [3], Table 6.2.3.3.2-1
Configuration	Config_MEC_2
PICS Selection	PIC_APP_PACKAGE_MANAGEMENT
Initial Conditions	
with { the IUT being_in idle_state }	
Expected Behaviour	
ensure that { when { the IUT receives a vGET containing uri indicating value "/app_pkgm/v1/app_packages", query_parameters containing	

```

        operationalStatus indicating value any_value // the query parameter should be
operationalState not operationalStatus

    from the MEC_OSS entity
}
then {
    the IUT sends a HTTP_RESPONSE containing
        status set to "400 Bad Request"
    to the MEC_OSS entity
}
}

```

Table 6.2.1-14: TP_MEC_MEC010p2_MEO_PKGM_003_01_OK

TP Id	"TP_MEC_MEC010p2_MEO_PKGM_003_01_OK"
Test Objective	Check that MEO returns an App Package when requested
Reference	ETSI GS MEC 010-2 (V2.2.1) [3], clause 7.3.2.3.2 ETSI GS MEC 010-2 (V2.2.1) [3], Table 6.2.3.3.2-1 ETSI GS MEC 010-2 (V2.2.1) [3], Table 6.2.3.3.2-1 Note 3
Configuration	Config_MEC_2
PICS Selection	PIC_APP_PACKAGE_MANAGEMENT
Initial Conditions	
<pre> with { the IUT having a App_Package containing appPkgId indicating value APP_PKG_ID, appDId indicating value ON_BOARDED_APPD_ID } </pre>	
Expected Behaviour	
<pre> ensure that { when { the IUT receives a vGET containing uri indicating value "/app_pkgm/v1/app_packages/{APP_PKG_ID}" from the MEC_OSS entity } then { the IUT sends a HTTP_RESPONSE containing status set to "200 OK", body containing AppPkgInfo containing id set to APP_PKG_ID, appDId set to ON_BOARDED_APPD_ID, appName set to any_value, appSoftwareVersion set to any_value, appDVersion set to any_value, checksum set to any_value, softwareImages, onboardingState, operationalState set to any_value, usageState set to any_value, mecInfo, _links containing self set to any_value, appD set to any_value, appPkgContent set to any_value, not vnfPkgInfo // See Note 3 to the MEC_OSS entity } } </pre>	

Table 6.2.1-15: TP_MEC_MEC010p2_MEO_PKGM_003_02_OK

TP Id	"TP_MEC_MEC010p2_MEO_PKGM_003_02_OK"
Test Objective	Check that MEO returns the App Package when requested
Reference	ETSI GS MEC 010-2 (V2.2.1) [3], clause 7.3.2.3.2 ETSI GS MEC 010-2 (V2.2.1) [3], Table 6.2.3.3.2-1 ETSI GS MEC 010-2 (V2.2.1) [3], Table 6.2.3.3.2-1 Note 3
Configuration	Config_MEC_2
PICS Selection	PIC_APP_PACKAGE_MANAGEMENT
Initial Conditions	
<pre>with { the IUT having a App_Package containing appPkgId indicating value APP_PKG_ID, appDId indicating value ON_BOARDED_APPD_ID }</pre>	
Expected Behaviour	
<pre>ensure that { when { the IUT receives a vGET containing uri indicating value "/app_pkgm/v1/onboarded_app_packages/{ON_BOARDED_APPD_ID}" from the MEO entity } then { the IUT sends a HTTP_RESPONSE containing status set to "200 OK", body containing AppPkgInfo containing id set to APP_PKG_ID, appDId set to ON_BOARDED_APPD_ID, appName set to any_value, appSoftwareVersion set to any_value, appDVersion set to any_value, checksum set to any_value, softwareImages, onboardingState, operationalState set to any_value, usageState set to any_value, mecInfo, _links containing self set to any_value, appD set to any_value, appPkgContent set to any_value, not vnfPkgInfo // See Note 3 to the MEO entity } }</pre>	

Table 6.2.1-16: TP_MEC_MEC010p2_MEO_PKGM_003_NF

TP Id	"TP_MEC_MEC010p2_MEO_PKGM_003_NF"
Test Objective	Check that MEO responds with an error when it receives a request for retrieving a App Package referred with a wrong ID
Reference	ETSI GS MEC 010-2 (V2.2.1) [3], clause 7.3.2.3.2 ETSI GS MEC 010-2 (V2.2.1) [3], Table 6.2.3.3.2-1
Configuration	Config_MEC_2
PICS Selection	PIC_APP_PACKAGE_MANAGEMENT
Initial Conditions	
<pre>with { the IUT not having a App_Package containing appPkgId indicating value NON_EXISTENT_APP_PKG_ID }</pre>	
Expected Behaviour	
<pre>ensure that { when { the IUT receives a vGET containing uri indicating value "/app_pkgm/v1/app_packages/{NON_EXISTENT_APP_PKG_ID}" from the MEC_OSS entity</pre>	

```

}
then {
  the IUT sends a HTTP_RESPONSE containing
    status set to "404 Not Found"
    to the MEC_OSS entity
}
}

```

Table 6.2.1-17: TP_MEC_MEC010p2_MEO_PKGM_004_OK

TP Id	"TP_MEC_MEC010p2_MEO_PKGM_004_OK"
Test Objective	Check that MEO deletes an App Package when requested
Reference	ETSI GS MEC 010-2 (V2.2.1) [3], clause 7.3.2.3.4
Configuration	Config_MEC_2
PICS Selection	PIC_APP_PACKAGE_MANAGEMENT
Initial Conditions	
with { the IUT having a App_Package containing appPkgId indicating value APP_PKG_ID }	
Expected Behaviour	
ensure that { when { the IUT receives a vDELETE containing uri indicating value "/app_pkgm/v1/app_packages/{APP_PKG_ID}" from the MEC_OSS entity } then { the IUT sends a HTTP_RESPONSE containing status set to "204 No Content" to the MEC_OSS entity } }	

Table 6.2.1-18: TP_MEC_MEC010p2_MEO_PKGM_004_NF

TP Id	"TP_MEC_MEC010p2_MEO_PKGM_004_NF"
Test Objective	Check that MEO responds with an error when it receives a request for deleting an App Package referred with a wrong ID
Reference	ETSI GS MEC 010-2 (V2.2.1) [3], clause 7.3.2.3.4 ETSI GS MEC 010-2 (V2.2.1) [3], Table 6.2.3.3.2-1
Configuration	Config_MEC_2
PICS Selection	PIC_APP_PACKAGE_MANAGEMENT
Initial Conditions	
with { the IUT not having a App_Package containing appPkgId indicating value NON_EXISTENT_APP_PKG_ID }	
Expected Behaviour	
ensure that { when { the IUT receives a vDELETE containing uri indicating value "/app_pkgm/v1/app_packages/{NON_EXISTENT_APP_PKG_ID}" from the MEC_OSS entity } then { the IUT sends a HTTP_RESPONSE containing status set to "404 Not Found" to the MEC_OSS entity } }	

Table 6.2.1-19: TP_MEC_MEC010p2_MEO_PKGM_005_OK

TP Id	"TP_MEC_MEC010p2_MEO_PKGM_005_OK"
Test Objective	Check that MEO updates the operational state of an individual application package resource
Reference	ETSI GS MEC 010-2 (V2.2.1) [3], clause 7.3.2.3.5
Configuration	Config_MEC_2
PICS Selection	PIC_APP_PACKAGE_MANAGEMENT
Initial Conditions	
<pre>with { the IUT having a App_Package containing appPkgId indicating value APP_PKG_ID, operationalState set to DISABLED }</pre>	
Expected Behaviour	
<pre>ensure that { when { the IUT receives a vPATCH containing uri indicating value "/app_pkgm/v1/app_packages/{APP_PKG_ID}", body containing appPkgInfoModifications containing operationalState set to ENABLE from the MEC_OSS entity } then { the IUT sends a HTTP_RESPONSE containing status set to "200 OK", body containing appPkgInfoModifications containing operationalState set to ENABLE to the MEC_OSS entity } }</pre>	

Table 6.2.1-20: TP_MEC_MEC010p2_MEO_PKGM_005_NF

TP Id	"TP_MEC_MEC010p2_MEO_PKGM_005_NF"
Test Objective	Check that MEO responds with an error when it receives a request for updating an App Package referred with a wrong ID
Reference	ETSI GS MEC 010-2 (V2.2.1) [3], clause 7.3.2.3.5 ETSI GS MEC 010-2 (V2.2.1) [3], Table 6.2.3.3.2-1
Configuration	Config_MEC_2
PICS Selection	PIC_APP_PACKAGE_MANAGEMENT
Initial Conditions	
<pre>with { the IUT not having a App_Package containing appPkgId indicating value NON_EXISTENT_APP_PKG_ID }</pre>	
Expected Behaviour	
<pre>ensure that { when { the IUT receives a vPATCH containing uri indicating value "/app_pkgm/v1/app_packages/{NON_EXISTENT_APP_PKG_ID}", body containing appPkgInfoModifications containing appPkgOperation indicating value "DISABL" from the MEC_OSS entity } then { the IUT sends a HTTP_RESPONSE containing status set to "404 Not Found" to the MEC_OSS entity } }</pre>	

Table 6.2.1-21: TP_MEC_MEC010p2_MEO_PKGM_006_OK

TP Id	"TP_MEC_MEC010p2_MEO_PKGM_006_OK"
Test Objective	Check that MEO service returns an application package subscription when requested
Reference	ETSI GS MEC 010-2 (V2.2.1) [3], clause 7.3.3.3.1 ETSI GS MEC 010-2 (V2.2.1) [3], clause 6.2.3.4 ETSI GS MEC 010-2 (V2.2.1) [3], clause 6.2.3.7
Configuration	Config_MEC_2
PICS Selection	PIC_APP_PACKAGE_MANAGEMENT
Initial Conditions	
with { the IUT being_in idle_state }	
Expected Behaviour	
<pre> ensure that { when { the IUT receives a vPOST containing uri indicating value "/app_pkg/v1/subscriptions" body containing AppPkgSubscription containing callbackUri set to URI, subscriptionType set to SUBSCRIPTION_TYPE from the MEC_OSS entity } then { the IUT sends a HTTP_RESPONSE containing status set to "201 Created", body containing AppPkgSubscriptionInfo containing subscriptionId set to any_value, subscriptionType set to SUBSCRIPTION_TYPE, callbackUri set to URI, _links to the MEC_OSS entity } } </pre>	

Table 6.2.1-22: TP_MEC_MEC010p2_MEO_PKGM_006_BR

TP Id	"TP_MEC_MEC010p2_MEO_PKGM_006_NF"
Test Objective	Check that MEO service sends an error when it receives a malformed request for creating a new subscription on AppPackages
Reference	ETSI GS MEC 010-2 (V2.2.1) [3], clause 7.3.4.3.1 ETSI GS MEC 010-2 (V2.2.1) [3], clause 6.2.3.4 ETSI GS MEC 010-2 (V2.2.1) [3], clause 6.2.3.7
Configuration	Config_MEC_2
PICS Selection	PIC_APP_PACKAGE_MANAGEMENT
Initial Conditions	
with { the IUT entity being_in idle_state }	
Expected Behaviour	
<pre> ensure that { when { the IUT receives a vGET containing uri indicating value "/app_pkg/v1/subscriptions" from the MEC_OSS entity } then { the IUT sends a HTTP_RESPONSE containing status set to "400 Bad Request" to the MEC_OSS entity } } </pre>	

```
}
}
```

Table 6.2.1-23: TP_MEC_MEC010p2_MEO_PKGM_007_OK

TP Id	"TP_MEC_MEC010p2_MEPM_PKGM_007_OK"
Test Objective	Check that MEO service returns the list of Application Package Subscriptions when requested
Reference	ETSI GS MEC 010-2 (V2.2.1) [3], clause 7.3.3.3.2 ETSI GS MEC 010-2 (V2.2.1) [3] clause 6.2.3.4 ETSI GS MEC 010-2 (V2.2.1) [3], clause 6.2.3.7
Configuration	Config_MEC_2
PICS Selection	PIC_APP_PACKAGE_MANAGEMENT
Initial Conditions	
with { the IUT having a Subscription containing subscriptionId indicating value SUBSCRIPTION_ID }	
Expected Behaviour	
ensure that { when { the IUT receives a vGET containing uri indicating value "/app_pkg/v1/subscriptions" from the MEC_OSS entity } then { the IUT sends a HTTP_RESPONSE containing status set to "200 OK", body containing AppPkgSubscriptionLinkList containing AppPkgSubscriptionInfo containing subscriptionId set to SUBSCRIPTION_ID, subscriptionType set to any_value, callbackUri set to any_value, _links containing self set to "/app_pkg/v1/subscriptions/{SUBSCRIPTION_ID}" to the MEC_OSS entity } }	

Table 6.2.1-24: TP_MEC_MEC010p2_MEO_PKGM_008_OK

TP Id	"TP_MEC_MEC010p2_MEO_PKGM_008_OK"
Test Objective	Check that MEO service returns an Application Package Subscription when requested
Reference	ETSI GS MEC 010-2 (V2.2.1) [3], clause 7.3.4.3.2 ETSI GS MEC 010-2 (V2.2.1) [3], clause 6.2.3.4
Configuration	Config_MEC_2
PICS Selection	PIC_APP_PACKAGE_MANAGEMENT
Initial Conditions	
with { the IUT having a Subscription containing subscriptionId indicating value SUBSCRIPTION_ID }	
Expected Behaviour	
ensure that { when { the IUT receives a vGET containing uri indicating value "/app_pkg/v1/subscriptions/{SUBSCRIPTION_ID}" from the MEC_OSS entity } then { the IUT sends a HTTP_RESPONSE containing status set to "200 OK", } }	


```

    body containing
      AppPkgSubscriptionInfo containing
        subscriptionId set to SUBSCRIPTION_ID,
        subscriptionType set to any_value,
        callbackUri set to any_value,
        _links containing
          self set to "/app_pkgm/v1/subscriptions/{SUBSCRIPTION_ID}"

    to the MEC_OSS entity
  }
}

```

Table 6.2.1-25: TP_MEC_MEC010p2_MEO_PKGM_008_NF

TP Id	"TP_MEC_MEC010p2_MEO_PKGM_007_NF"
Test Objective	Check that MEO service sends an error when it receives a query for a subscription on AppPackages with a wrong identifier
Reference	ETSI GS MEC 010-2 (V2.2.1) [3], clause 7.3.4.3.2 ETSI GS MEC 010-2 (V2.2.1) [3], clause 6.2.3.4 ETSI GS MEC 010-2 (V2.2.1) [3], clause 6.2.3.7
Configuration	Config_MEC_2
PICS Selection	PIC_APP_PACKAGE_MANAGEMENT
Initial Conditions	
with { the IUT not having a Subscription containing subscriptionId indicating value NON_EXISTENT_SUBSCRIPTION_ID }	
Expected Behaviour	
ensure that { when { the IUT receives a vGET containing uri indicating value "/app_pkgm/v1/subscriptions/{NON_EXISTENT_SUBSCRIPTION_ID}" from the MEC_OSS entity } then { the IUT sends a HTTP_RESPONSE containing status set to "404 Not Found" to the MEC_OSS entity } }	

Table 6.2.1-26: TP_MEC_MEC010p2_MEO_PKGM_009_OK

TP Id	"TP_MEC_MEC010p2_MEO_PKGM_009_OK"
Test Objective	Check that MEO service deletes an Application Package Subscription when requested
Reference	ETSI GS MEC 010-2 (V2.2.1) [3], clause 7.3.4.3.4
Configuration	Config_MEC_2
PICS Selection	PIC_APP_PACKAGE_MANAGEMENT
Initial Conditions	
with { the IUT having a Subscription containing subscriptionId indicating value SUBSCRIPTION_ID }	
Expected Behaviour	
ensure that { when { the IUT receives a vDELETE containing uri indicating value "/app_pkgm/v1/subscriptions/{SUBSCRIPTION_ID}" from the MEC_OSS entity } then { the IUT sends a HTTP_RESPONSE containing	

```

        status set to "204 No Content"

    to the MEC_OSS entity
}
}

```

Table 6.2.1-27: TP_MEC_MEC010p2_MEO_PKGM_009_NF

TP Id	"TP_MEC_MEC010p2_MEO_PKGM_009_NF"
Test Objective	Check that MEO service sends an error when it receives a deletion request for a subscription on AppPackages with a wrong identifier
Reference	ETSI GS MEC 010-2 (V2.2.1) [3], clause 7.3.4.3.4
Configuration	Config_MEC_2
PICS Selection	PIC_APP_PACKAGE_MANAGEMENT
Initial Conditions	
<pre> with { the IUT not having a Subscription containing subscriptionId indicating value NON_EXISTENT_SUBSCRIPTION_ID } </pre>	
Expected Behaviour	
<pre> ensure that { when { the IUT receives a vDELETE containing uri indicating value "/app_pkg/v1/subscriptions/{NON_EXISTENT_SUBSCRIPTION_ID}" from the MEC_OSS entity } then { the IUT sends a HTTP_RESPONSE containing status set to "404 Not Found" to the MEC_OSS entity } } </pre>	

Table 6.2.1-28: TP_MEC_MEC010p2_MEO_PKGM_010_OK

TP Id	"TP_MEC_MEC010p2_MEO_PKGM_010_OK"
Test Objective	Check that the MEO service sends an application package notification if the MEO service has an associated subscription and the event is generated
Reference	ETSI GS MEC 010-2 (V2.2.1) [3], clause 7.3.5.3.1 ETSI GS MEC 010-2 (V2.2.1) [3], clause 6.2.3.6
Configuration	Config_MEC_2
PICS Selection	PIC_APP_PACKAGE_NOTIFICATIONS
Initial Conditions	
<pre> with { the IUT having a Subscription containing subscriptionId set to SUBSCRIPTION_ID, subscriptionType set to SUBSCRIPTION_TYPE, callbackUri set to CALLBACK_URI, _links } </pre>	
Expected Behaviour	
<pre> ensure that { when { the IUT generates a on_boarding_event containing notificationId set to NOTIFICATION_ID } then { the IUT sends a vPOST containing uri indicating value CALLBACK_URI, body containing AppPkgNotification containing notificationId set to NOTIFICATION_ID, notificationType indicating value any_value, subscriptionId set to SUBSCRIPTION_ID, timeStamp set to any_value, appPkgId set to any_value, </pre>	

```

        appDId set to any_value,
        _links containing
            self set to "/app_pkgm/v1/subscriptions/{SUBSCRIPTION_ID}"

        to the MEC_OSS entity
    }
}

```

Table 6.2.1-29: TP_MEC_MEC010p2_MEO_PKGM_011_OK

TP Id	"TP_MEC_MEC010p2_MEO_PKGM_011_OK"
Test Objective	Check that MEO reads the content of the AppD of on-boarded individual application package resources when requested
Reference	ETSI GS MEC 010-2 (V2.2.1) [3], clause 7.3.6.3.2
Configuration	Config_MEC_2
PICS Selection	PIC_APP_PACKAGE_MANAGEMENT
Initial Conditions	
<pre> with { the IUT having a App_Package containing appPkgId indicating value APP_PKG_ID, appDId indicating value ON_BOARDED_APPD_ID } </pre>	
Expected Behaviour	
<pre> ensure that { when { the IUT receives a vGET containing uri indicating value "/app_pkgm/v1/app_packages/{APP_PKG_ID}/appd", accept set to "application/zip" from the MEC_OSS entity } then { the IUT sends a HTTP_RESPONSE containing status set to "200 OK", body containing payload set to ZIP_FILE to the MEC_OSS entity } } </pre>	

Table 6.2.1-30: TP_MEC_MEC010p2_MEO_PKGM_011_NF

TP Id	"TP_MEC_MEC010p2_MEO_PKGM_011_NF"
Test Objective	Check that MEO responds with an error when it receives a request to retrieve an application descriptor referred with a wrong app package ID
Reference	ETSI GS MEC 010-2 (V2.2.1) [3], clause 7.3.6.3.2 ETSI GS MEC 010-2 (V2.2.1) [3], Table 6.2.3.3.2-1
Configuration	Config_MEC_2
PICS Selection	PIC_APP_PACKAGE_MANAGEMENT
Initial Conditions	
<pre> with { the IUT not having a App_Package containing appPkgId indicating value NON_EXISTENT_APP_PKG_ID } </pre>	
Expected Behaviour	
<pre> ensure that { when { the IUT receives a vPUT containing uri indicating value "/app_pkgm/v1/app_packages/{NON_EXISTENT_APP_PKG_ID}/appd" from the MEC_OSS entity } then { the IUT sends a HTTP_RESPONSE containing status set to "404 Not Found" } } </pre>	

```

    }
    to the MEC_OSS entity
}

```

Table 6.2.1-31: TP_MEC_MEC010p2_MEO_PKGM_012_01_OK

TP Id	"TP_MEC_MEC010p2_MEO_PKGM_012_01_OK"
Test Objective	Check that MEO fetches the application package content identified by appPkgId when requested
Reference	ETSI GS MEC 010-2 (V2.2.1) [3], clause 7.3.7.3.2
Configuration	Config_MEC_2
PICS Selection	PIC_APP_PACKAGE_MANAGEMENT
Initial Conditions	
<pre> with { the IUT having a App_Package containing appPkgId indicating value APP_PKG_ID, appDId indicating value ON_BOARDED_APPD_ID } </pre>	
Expected Behaviour	
<pre> ensure that { when { the IUT receives a vGET containing uri indicating value "/app_pkg/v1/app_packages/{APP_PKG_ID}/package_content", accept set to "application/zip" from the MEC_OSS entity } then { the IUT sends a HTTP_RESPONSE containing status set to "200 OK", body containing payload set to ZIP_FILE to the MEC_OSS entity } } </pre>	

Table 6.2.1-32: TP_MEC_MEC010p2_MEO_PKGM_012_02_OK

TP Id	"TP_MEC_MEC010p2_MEO_PKGM_012_02_OK"
Test Objective	Check that MEO fetches the on-boarded application package content identified by appDId when requested
Reference	ETSI GS MEC 010-2 (V2.2.1) [3], clause 7.3.7.3.2
Configuration	Config_MEC_2
PICS Selection	PIC_APP_PACKAGE_MANAGEMENT
Initial Conditions	
<pre> with { the IUT having a App_Package containing appPkgId indicating value APP_PKG_ID, appDId indicating value ON_BOARDED_APPD_ID } </pre>	
Expected Behaviour	
<pre> ensure that { when { the IUT receives a vGET containing uri indicating value "/app_pkg/v1/onboarded_app_packages/{ON_BOARDED_APPD_ID}/package_content", accept set to "application/zip" from the MEC_OSS entity } then { the IUT sends a HTTP_RESPONSE containing status set to "200 OK", body containing payload set to ZIP_FILE to the MEC_OSS entity } } </pre>	

```
}
}
```

Table 6.2.1-33: TP_MEC_MEC010p2_MEO_PKGM_012_BR

TP Id	"TP_MEC_MEC010p2_MEO_PKGM_012_BR"
Test Objective	Check that MEO service sends an error when it receives a malformed request
Reference	ETSI GS MEC 010-2 (V2.2.1) [3], clause 7.3.7.3.2
Configuration	Config_MEC_2
PICS Selection	PIC_APP_PACKAGE_MANAGEMENT
Initial Conditions	
with { the IUT being_in idle_state }	
Expected Behaviour	
ensure that { when { the IUT receives a vGET containing uri indicating value "/app_pkgm/v1/app_packages/{APP_PKG_ID}/package_content", accept set to "wrong_parameter" from the MEC_OSS entity } then { the IUT sends a HTTP_RESPONSE containing status set to "400 Bad Request" to the MEC_OSS entity } }	

Table 6.2.1-34: TP_MEC_MEC010p2_MEO_PKGM_012_01_NF

TP Id	"TP_MEC_MEC010p2_MEO_PKGM_012_01_NF"
Test Objective	Check that MEO service sends an error when it receives a request referring to a wrong appPkgId
Reference	ETSI GS MEC 010-2 (V2.2.1) [3], clause 7.3.7.3.2
Configuration	Config_MEC_2
PICS Selection	PIC_APP_PACKAGE_MANAGEMENT
Initial Conditions	
with { the IUT having a App_Package containing appPkgId indicating value APP_PKG_ID, appDid indicating value ON_BOARDED_APPD_ID }	
Expected Behaviour	
ensure that { when { the IUT receives a vGET containing uri indicating value "/app_pkgm/v1/app_packages/{NON_EXISTING_APP_PKG_ID}/package_content", accept set to "application/zip" from the MEC_OSS entity } then { the IUT sends a HTTP_RESPONSE containing status set to "404 Not Found" to the MEC_OSS entity } }	

Table 6.2.1-35: TP_MEC_MEC010p2_MEO_PKGM_012_02_NF

TP Id	"TP_MEC_MEC010p2_MEO_PKGM_012_02_NF"
Test Objective	Check that MEO service sends an error when it receives a request referring to a wrong on-boarded appPkgId
Reference	ETSI GS MEC 010-2 (V2.2.1) [3], clause 7.3.7.3.2
Configuration	Config_MEC_2
PICS Selection	PIC_APP_PACKAGE_MANAGEMENT
Initial Conditions	
<pre>with { the IUT having a App_Package containing appPkgId indicating value APP_PKG_ID, appDId indicating value ON_BOARDED_APPD_ID }</pre>	
Expected Behaviour	
<pre>ensure that { when { the IUT receives a vGET containing uri indicating value "/app_pkgm/v1/onboarded_app_packages/{NON_EXISTING_ON_BOARDED_APPD_ID}/package_content", accept set to "application/zip" from the MEC_OSS entity } then { the IUT sends a HTTP_RESPONSE containing status set to "404 Not Found" to the MEC_OSS entity } }</pre>	

Table 6.2.1-36: TP_MEC_MEC010p2_MEO_PKGM_013_OK

TP Id	"TP_MEC_MEC010p2_MEO_PKGM_013_OK"
Test Objective	Check that MEO accepts application package when submitted
Reference	ETSI GS MEC 010-2 (V2.2.1) [3], clause 7.3.7.3.3 ETSI GS MEC 010-2 (V2.2.1) [3], clause 6.2.1.2
Configuration	Config_MEC_2
PICS Selection	PIC_APP_PACKAGE_MANAGEMENT
Initial Conditions	
<pre>with { the IUT having a App_Package containing appPkgId indicating value APP_PKG_ID, appDId indicating value ON_BOARDED_APPD_ID }</pre>	
Expected Behaviour	
<pre>ensure that { when { the IUT receives a vPUT containing uri indicating value "/app_pkgm/v1/app_packages/{APP_PKG_ID}/package_content", accept set to ACCEPTED_CONTENT_TYPE from the MEC_OSS entity } then { the IUT sends a HTTP_RESPONSE containing status set to "202 Accepted", not body to the MEC_OSS entity } }</pre>	

Table 6.2.1-37: TP_MEC_MEC010p2_MEO_PKGM_013_NF

TP Id	"TP_MEC_MEC010p2_MEO_PKGM_013_NF"
Test Objective	Check that MEO accepts application package when submitted
Reference	ETSI GS MEC 010-2 (V2.2.1) [3], clause 7.3.7.3.3 ETSI GS MEC 010-2 (V2.2.1) [3], clause 6.2.1.2
Configuration	Config_MEC_2
PICS Selection	PIC_APP_PACKAGE_MANAGEMENT
Initial Conditions	
<pre>with { the IUT having a App_Package containing appPkgId indicating value APP_PKG_ID, appDId indicating value ON_BOARDED_APPD_ID }</pre>	
Expected Behaviour	
<pre>ensure that { when { the IUT receives a vPUT containing uri indicating value "/app_pkgm/v1/app_packages/{APP_NON_EXISTANT_PKG_ID}/package_content", accept set to ACCEPTED_CONTENT_TYPE from the MEC_OSS entity } then { the IUT sends a HTTP_RESPONSE containing status set to "404 Not Found" to the MEC_OSS entity } }</pre>	

6.2.2 Multi-access Edge Platform Manager (MEPM)

6.2.2.1 Lifecycle Management (LCM)

Table 6.2.2-1: TP_MEC_MEC010p2_MEPM_LCM_01_OK

TP Id	"TP_MEC_MEC010p2_MEPM_LCM_01_OK"
Test Objective	Check that MEC API provider has created the configuration information in AppD to the MEPM-V
Reference	ETSI GS MEC 010-2 (V2.2.1) [3], clause 7.7.6.3.1 ETSI GS MEC 010-2 (V2.2.1) [3], Table 6.2.2.21.2-1
Configuration	Config_MEC_5
PICS Selection	PIC_APP_PACKAGE_MANAGEMENT
Expected Behaviour	
<pre>ensure that { when { the IUT receives a vPOST containing uri indicating value "/app_lcm/v1/app_instances/{appInstanceId}/configure_platform_for_app", body containing ConfigPlatformForAppRequest containing appServiceRequired set to some_values from the MEO entity } then { the IUT sends a HTTP_RESPONSE containing status set to "202 Accepted" to the MEO entity } }</pre>	

Table 6.2.2-2: TP_MEC_MEC010p2_MEPM_LCM_01_BR

TP Id	"TP_MEC_MEC010p2_MEPM_LCM_01_BR"
Test Objective	Check that MEC API provider sends an error when it receives a malformed request for the configuration information in AppD to the MEPM-V
Reference	ETSI GS MEC 010-2 (V2.2.1) [3], clause 7.7.6.3.1 ETSI GS MEC 010-2 (V2.2.1) [3], Table 6.2.2.21.2-1
Configuration	Config_MEC_5
PICS Selection	PIC_APP_PACKAGE_MANAGEMENT
Expected Behaviour	
<pre> ensure that { when { the IUT receives a vPOST containing uri indicating value "/app_lcm/v1/app_instances/{appInstanceId}/configure_platform_for_app", body containing ConfigPlatformForAppRequest containing appServiceWrongRequired set to some_values //Wrong Param from the MEO entity } then { the IUT sends a HTTP_RESPONSE containing status set to "400 Bad Request" to the MEO entity } } </pre>	

Table 6.2.2-3: TP_MEC_MEC010p2_MEPM_LCM_01_NF

TP Id	"TP_MEC_MEC010p2_MEPM_LCM_01_NF"
Test Objective	Check that MEC API provider sends an error when it receives a request for the configuration information in AppD to the MEPM-V with not valid app instance ID
Reference	ETSI GS MEC 010-2 (V2.2.1) [3], clause 7.7.6.3.1 ETSI GS MEC 010-2 (V2.2.1) [3], Table 6.2.2.21.2-1
Configuration	Config_MEC_5
PICS Selection	PIC_APP_PACKAGE_MANAGEMENT
Initial Conditions	
<pre> with { the IUT "not" having a AppInstanceInfo containing id indicating value NOT_EXISTING_APP_ID } </pre>	
Expected Behaviour	
<pre> ensure that { when { the IUT receives a vPOST containing uri indicating value "/app_lcm/v1/app_instances/{NOT_EXISTING_APP_ID}/configure_platform_for_app", body containing ConfigPlatformForAppRequest containing appServiceWrongRequired set to some_values //Wrong Param from the MEO entity } then { the IUT sends a HTTP_RESPONSE containing status set to "404 Not Found" to the MEO entity } } </pre>	

6.2.2.2 App Package Management (PKGM)

Table 6.2.2-4: TP_MEC_MEC010p2_MEPM_PKGM_001_01_OK

TP Id	"TP_MEC_MEC010p2_MEPM_PKGM_001_01_OK"
Test Objective	Check that MEPM returns the list of App Packages when requested
Reference	ETSI GS MEC 010-2 (V2.2.1) [3], clause 7.3.1.3.2 ETSI GS MEC 010-2 (V2.2.1) [3], Table 6.2.3.3.2-1 ETSI GS MEC 010-2 (V2.2.1) [3], Table 6.2.3.3.2-1 Note 3
Configuration	Config_MEC_5
PICS Selection	PIC_APP_PACKAGE_MANAGEMENT
Initial Conditions	
with { the IUT having an App_Package containing appPkgId indicating value APP_PKG_ID, appDId indicating value ON_BOARDED_APPD_ID }	
Expected Behaviour	
ensure that { when { the IUT receives a vGET containing uri indicating value "/app_pkgm/v1/app_packages" from the MEO entity } then { the IUT sends a HTTP_RESPONSE containing status set to "200 OK", body containing AppPkgInfoList containing AppPkgInfo containing id set to APP_PKG_ID, appDId set to ON_BOARDED_APPD_ID, appName set to any_value, appSoftwareVersion set to any_value, appDVersion set to any_value, checksum set to any_value, softwareImages, onboardingState, operationalState set to any_value, usageState set to any_value, mecInfo, _links containing self set to any_value, appD set to any_value, appPkgContent set to any_value, not vnfPkgInfo // See Note 3 to the MEO entity } }	

Table 6.2.2-5: TP_MEC_MEC010p2_MEPM_PKGM_001_02_OK

TP Id	"TP_MEC_MEC010p2_MEPM_PKGM_001_02_OK"
Test Objective	Check that MEPM returns the list of on-boarded App Packages when requested
Reference	ETSI GS MEC 010-2 (V2.2.1) [3], clause 7.3.1.3.2 ETSI GS MEC 010-2 (V2.2.1) [3], Table 6.2.3.3.2-1 ETSI GS MEC 010-2 (V2.2.1) [3], Table 6.2.3.3.2-1 Note 3
Configuration	Config_MEC_5
PICS Selection	PIC_APP_PACKAGE_MANAGEMENT
Initial Conditions	
with { the IUT having an App_Package containing appPkgId indicating value APP_PKG_ID, appDId indicating value ON_BOARDED_APPD_ID }	

Expected Behaviour
<pre> ensure that { when { the IUT receives a vGET containing uri indicating value "/app_pkgm/v1/onboarded_app_packages" from the MEO entity } then { the IUT sends a HTTP_RESPONSE containing status set to "200 OK", body containing AppPkgInfoList containing AppPkgInfo containing id set to APP_PKG_ID, appDid set to ON_BOARDED_APPD_ID, appName set to any_value, appSoftwareVersion set to any_value, appDVersion set to any_value, checksum set to any_value, softwareImages, onboardingState, operationalState set to any_value, usageState set to any_value, mecInfo, _links containing self set to any_value, appD set to any_value, appPkgContent set to any_value, not vnfPkgInfo // See Note 3 to the MEO entity } } </pre>

Table 6.2.2-6: TP_MEC_MEC010p2_MEPM_PKGM_001_BR

TP Id	"TP_MEC_MEC010p2_MEPM_PKGM_001_BR"
Test Objective	Check that MEPM responds with an error when it receives a malformed request for requesting the list of existing App Packages
Reference	ETSI GS MEC 010-2 (V2.2.1) [3], clause 7.3.1.3.2 ETSI GS MEC 010-2 (V2.2.1) [3], Table 6.2.3.3.2-1 ETSI GS MEC 010-2 (V2.2.1) [3], Table 6.2.3.3.2-1 Note 3
Configuration	Config_MEC_5
PICS Selection	PIC_APP_PACKAGE_MANAGEMENT
Initial Conditions	
<pre> with { the IUT being_in idle_state } </pre>	
Expected Behaviour	
<pre> ensure that { when { the IUT receives a vGET containing uri indicating value "/app_pkgm/v1/app_packages", query_parameters containing operationalStatus indicating value ENABLED // the query parameter should be operationalState not operationalStatus from the MEO entity } then { the IUT sends a HTTP_RESPONSE containing status set to "400 Bad Request" to the MEO entity } } </pre>	

Table 6.2.2-7: TP_MEC_MEC010p2_MEPM_PKGM_002_01_OK

TP Id	"TP_MEC_MEC010p2_MEPM_PKGM_002_01_OK"
Test Objective	Check that MEPM returns the App Package when requested
Reference	ETSI GS MEC 010-2 (V2.2.1) [3], clause 7.3.2.3.2 ETSI GS MEC 010-2 (V2.2.1) [3], Table 6.2.3.3.2-1 ETSI GS MEC 010-2 (V2.2.1) [3], Table 6.2.3.3.2-1 Note 3
Configuration	Config_MEC_5
PICS Selection	PIC_APP_PACKAGE_MANAGEMENT
Initial Conditions	
<pre>with { the IUT having a App_Package containing appPkgId indicating value APP_PKG_ID, appDId indicating value ON_BOARDED_APPD_ID }</pre>	
Expected Behaviour	
<pre>ensure that { when { the IUT receives a vGET containing uri indicating value "/app_pkgm/v1/app_packages/{APP_PKG_ID}" from the MEO entity } then { the IUT sends a HTTP_RESPONSE containing status set to "200 OK", body containing AppPkgInfo containing id set to APP_PKG_ID, appDId set to ON_BOARDED_APPD_ID, appName set to any_value, appSoftwareVersion set to any_value, appDVersion set to any_value, checksum set to any_value, softwareImages, onboardingState, operationalState set to any_value, usageState set to any_value, mecInfo, _links containing self set to any_value, appD set to any_value, appPkgContent set to any_value, not vnfPkgInfo // See Note 3 to the MEO entity } }</pre>	

Table 6.2.2-8: TP_MEC_MEC010p2_MEPM_PKGM_002_02_OK

TP Id	"TP_MEC_MEC010p2_MEPM_PKGM_002_02_OK"
Test Objective	Check that MEPM returns the App Package when requested
Reference	ETSI GS MEC 010-2 (V2.2.1) [3], clause 7.3.2.3.2 ETSI GS MEC 010-2 (V2.2.1) [3], Table 6.2.3.3.2-1 ETSI GS MEC 010-2 (V2.2.1) [3], Table 6.2.3.3.2-1 Note 3
Configuration	Config_MEC_5
PICS Selection	PIC_APP_PACKAGE_MANAGEMENT
Initial Conditions	
<pre>with { the IUT having a App_Package containing appPkgId indicating value APP_PKG_ID, appDId indicating value ON_BOARDED_APPD_ID }</pre>	
Expected Behaviour	
<pre>ensure that { when { the IUT receives a vGET containing uri indicating value "/app_pkgm/v1/onboarded_app_packages/{ON_BOARDED_APPD_ID}"</pre>	

```

    from the MEO entity
  }
  then {
    the IUT sends a HTTP_RESPONSE containing
      status set to "200 OK",
      body containing
        AppPkgInfo containing
          id set to APP_PKG_ID,
          appDid set to ON_BOARDED_APPD_ID,
          appName set to any_value,
          appSoftwareVersion set to any_value,
          appDVersion set to any_value,
          checksum set to any_value,
          softwareImages,
          onboardingState,
          operationalState set to any_value,
          usageState set to any_value,
          mecInfo,
          _links containing
            self set to any_value,
            appD set to any_value,
            appPkgContent set to any_value,
            not vnfPkgInfo // See Note 3

    to the MEO entity
  }
}

```

Table 6.2.2-9: TP_MEC_MEC010p2_MEPM_PKGM_002_NF

TP Id	"TP_MEC_MEC010p2_MEPM_PKGM_002_NF"
Test Objective	Check that MEPM responds with an error when it receives a request for returning a App Package referred with a wrong ID
Reference	ETSI GS MEC 010-2 (V2.2.1) [3], clause 7.3.2.3.2 ETSI GS MEC 010-2 (V2.2.1) [3], Table 6.2.3.3.2-1 ETSI GS MEC 010-2 (V2.2.1) [3], Table 6.2.3.3.2-1 Note 3
Configuration	Config_MEC_5
PICS Selection	PIC_APP_PACKAGE_MANAGEMENT
Initial Conditions	
with { the IUT not having a App_Package containing appPkgId indicating value NON_EXISTENT_APP_PKG_ID }	
Expected Behaviour	
ensure that { when { the IUT receives a vGET containing uri indicating value "/app_pkg/v1/app_packages/{NON_EXISTENT_APP_PKG_ID}" from the MEO entity } then { the IUT sends a HTTP_RESPONSE containing status set to "404 Not Found" to the MEO entity } }	

Table 6.2.2-10: TP_MEC_MEC010p2_MEPM_PKGM_003_OK

TP Id	"TP_MEC_MEC010p2_MEPM_PKGM_003_OK"
Test Objective	Check that MEPM service returns an application package subscription when requested
Reference	ETSI GS MEC 010-2 (V2.2.1) [3], clause 7.3.3.3.1 ETSI GS MEC 010-2 (V2.2.1) [3], clause 6.2.3.4 ETSI GS MEC 010-2 (V2.2.1) [3], clause 6.2.3.7
Configuration	Config_MEC_5
PICS Selection	PIC_APP_PACKAGE_MANAGEMENT
Initial Conditions	
with { the IUT being_in idle_state }	
Expected Behaviour	
<pre> ensure that { when { the IUT receives a vPOST containing uri indicating value "/app_pkg/v1/subscriptions" body containing AppPkgSubscription containing callbackUri set to URI, subscriptionType set to SUBSCRIPTION_TYPE from the MEO entity } then { the IUT sends a HTTP_RESPONSE containing status set to "201 Created", body containing AppPkgSubscriptionInfo containing subscriptionId set to any_value, subscriptionType set to SUBSCRIPTION_TYPE, callbackUri set to URI, _links to the MEO entity } } </pre>	

Table 6.2.2-11: TP_MEC_MEC010p2_MEPM_PKGM_003_BR

TP Id	"TP_MEC_MEC010p2_MEPM_PKGM_003_BR"
Test Objective	Check that MEPM service sends an error when it receives a malformed request for creating a new subscription on AppPackages
Reference	ETSI GS MEC 010-2 (V2.2.1) [3], clause 7.3.3.3.1
Configuration	Config_MEC_2
PICS Selection	PIC_APP_PACKAGE_MANAGEMENT
Initial Conditions	
with { the IUT being_in idle_state }	
Expected Behaviour	
<pre> ensure that { when { the IUT receives a POST containing uri indicating value "/app_pkg/v1/subscriptions", body containing AppPkgSubscription containing callbackUri set to URI, subscriptionType set to "ON-BOARDING" // Enum should be "ONBOARDING" from the MEO entity } then { the IUT sends a HTTP_RESPONSE containing status set to "400 Bad Request" } } </pre>	

```

    }
    to the MEO entity
}

```

Table 6.2.2-12: TP_MEC_MEC010p2_MEPM_PKGM_004_OK

TP Id	"TP_MEC_MEC010p2_MEPM_PKGM_004_OK"
Test Objective	Check that MEPM service returns the list of Application Package Subscriptions when requested
Reference	ETSI GS MEC 010-2 (V2.2.1) [3], clause 7.3.3.3.2 ETSI GS MEC 010-2 (V2.2.1) [3], clause 6.2.3.4 ETSI GS MEC 010-2 (V2.2.1) [3], clause 6.2.3.7
Configuration	Config_MEC_5
PICS Selection	PIC_APP_PACKAGE_MANAGEMENT
Initial Conditions	
<pre> with { the IUT having a Subscription containing subscriptionId indicating value SUBSCRIPTION_ID } </pre>	
Expected Behaviour	
<pre> ensure that { when { the IUT receives a vGET containing uri indicating value "/app_pkgm/v1/subscriptions" from the MEO entity } then { the IUT sends a HTTP_RESPONSE containing status set to "200 OK", body containing AppPkgSubscriptionInfoList containing AppPkgSubscriptionInfo containing subscriptionId set to SUBSCRIPTION_ID, subscriptionType set to any_value, callbackUri set to any_value, _links containing self set to "/app_pkgm/v1/subscriptions/{SUBSCRIPTION_ID}" to the MEO entity } } </pre>	

Table 6.2.2-13: TP_MEC_MEC010p2_MEPM_PKGM_005_OK

TP Id	"TP_MEC_MEC010p2_MEPM_PKGM_005_OK"
Test Objective	Check that MEPM service returns an application package subscription when requested
Reference	ETSI GS MEC 010-2 (V2.2.1) [3], clause 7.3.3.3.1 ETSI GS MEC 010-2 (V2.2.1) [3], clause 6.2.3.4 ETSI GS MEC 010-2 (V2.2.1) [3], clause 6.2.3.7
Configuration	Config_MEC_5
PICS Selection	PIC_APP_PACKAGE_MANAGEMENT
Initial Conditions	
<pre> with { the IUT being_in idle_state } </pre>	
Expected Behaviour	
<pre> ensure that { when { the IUT receives a vPOST containing uri indicating value "/app_pkgm/v1/subscriptions" body containing AppPkgSubscription containing callbackUri set to URI, subscriptionType set to SUBSCRIPTION_TYPE } } </pre>	

```

    from the MEO entity
  }
  then {
    the IUT sends a HTTP_RESPONSE containing
      status set to "201 Created",
      body containing
        AppPkgSubscriptionInfo containing
          subscriptionID set to any_value,
          subscriptionType set to SUBSCRIPTION_TYPE,
          callbackUri set to URI,
          _links

    to the MEO entity
  }
}

```

Table 6.2.2-14: TP_MEC_MEC010p2_MEPM_PKGM_005_NF

TP Id	"TP_MEC_MEC010p2_MEPM_PKGM_005_NF"
Test Objective	Check that MEPM service sends an error when it receives a query for a subscription on AppPackages with a wrong identifier
Reference	ETSI GS MEC 010-2 (V2.2.1) [3], clause 7.3.4.3.2 ETSI GS MEC 010-2 (V2.2.1) [3], clause 6.2.3.4 ETSI GS MEC 010-2 (V2.2.1) [3], clause 6.2.3.7
Configuration	Config_MEC_5
PICS Selection	PIC_APP_PACKAGE_MANAGEMENT
Initial Conditions	
with { the IUT not having a Subscription containing subscriptionId indicating value NON_EXISTENT_SUBSCRIPTION_ID }	
Expected Behaviour	
ensure that { when { the IUT receives a vGET containing uri indicating value "/app_pkg/v1/subscriptions/{NON_EXISTENT_SUBSCRIPTION_ID}" from the MEO entity } then { the IUT sends a HTTP_RESPONSE containing status set to "404 Not Found" to the MEO entity } }	

Table 6.2.2-15: TP_MEC_MEC010p2_MEPM_PKGM_006_OK

TP Id	"TP_MEC_MEC010p2_MEPM_PKGM_006_OK"
Test Objective	Check that MEPM service returns the list of Application Package Subscriptions when requested
Reference	ETSI GS MEC 010-2 (V2.2.1) [3], clause 7.3.3.3.2 ETSI GS MEC 010-2 (V2.2.1) [3], clause 6.2.3.4 ETSI GS MEC 010-2 (V2.2.1) [3], clause 6.2.3.7
Configuration	Config_MEC_5
PICS Selection	PIC_APP_PACKAGE_MANAGEMENT
Initial Conditions	
with { the IUT having a Subscription containing subscriptionId indicating value SUBSCRIPTION_ID }	
Expected Behaviour	
ensure that { when { the IUT receives a vGET containing	

```

        uri indicating value "/app_pkg/v1/subscriptions"

    from the MEO entity
}
then {
    the IUT sends a HTTP_RESPONSE containing
        status set to "200 OK",
        body containing
            AppPkgSubscriptionInfoList containing
                AppPkgSubscriptionInfo containing
                    subscriptionId set to SUBSCRIPTION_ID,
                    subscriptionType set to any_value,
                    callbackUri set to any_value,
                    _links containing
                        self set to "/app_pkg/v1/subscriptions/{SUBSCRIPTION_ID}"

    to the MEO entity
}
}

```

Table 6.2.2-16: TP_MEC_MEC010p2_MEPM_PKGM_006_NF

TP Id	"TP_MEC_MEC010p2_MEPM_PKGM_006_NF"
Test Objective	Check that MEPM service sends an error when it receives a deletion request for a subscription on AppPackages with a wrong identifier
Reference	ETSI GS MEC 010-2 (V2.2.1) [3], clause 7.3.4.3.4 ETSI GS MEC 010-2 (V2.2.1) [3], clause 6.2.3.4 ETSI GS MEC 010-2 (V2.2.1) [3], clause 6.2.3.7
Configuration	Config_MEC_5
PICS Selection	PIC_APP_PACKAGE_MANAGEMENT
Initial Conditions	
with { the IUT not having a Subscription containing subscriptionId indicating value NON_EXISTENT_SUBSCRIPTION_ID }	
Expected Behaviour	
ensure that { when { the IUT receives a vDELETE containing uri indicating value "/app_pkg/v1/subscriptions/{NON_EXISTENT_SUBSCRIPTION_ID}" from the MEO entity } then { the IUT sends a HTTP_RESPONSE containing status set to "404 Not Found" to the MEO entity } }	

Table 6.2.2-17: TP_MEC_MEC010p2_MEPM_PKGM_007_OK

TP Id	"TP_MEC_MEC010p2_MEPM_PKGM_007_OK"
Test Objective	Check that MEPM service returns an Application Package Subscription when requested
Reference	ETSI GS MEC 010-2 (V2.2.1) [3], clause 7.3.4.3.2 ETSI GS MEC 010-2 (V2.2.1) [3], clause 6.2.3.4
Configuration	Config_MEC_5
PICS Selection	PIC_APP_PACKAGE_MANAGEMENT
Initial Conditions	
with { the IUT having a Subscription containing subscriptionId indicating value SUBSCRIPTION_ID }	

Expected Behaviour
<pre> ensure that { when { the IUT receives a vGET containing uri indicating value "/app_pkgm/v1/subscriptions/{SUBSCRIPTION_ID}" from the MEO entity } then { the IUT sends a HTTP_RESPONSE containing status set to "200 OK", body containing AppPkgSubscriptionInfo containing subscriptionId set to SUBSCRIPTION_ID, subscriptionType set to any_value, callbackUri set to any_value, _links containing self set to "/app_pkgm/v1/subscriptions/{SUBSCRIPTION_ID}" to the MEO entity } } </pre>

Table 6.2.2-18: TP_MEC_MEC010p2_MEPM_PKGM_008_NA

TP Id	"TP_MEC_MEC010p2_MEPM_PKGM_008_NA"
Test Objective	Check that MEPM responds with an error when it receives a POST request referring an application descriptor AppD
Reference	ETSI GS MEC 010-2 (V2.2.1) [3], clause 7.3.6.3.1
Configuration	Config_MEC_5
PICS Selection	PIC_APP_PACKAGE_MANAGEMENT
Initial Conditions	
<pre> with { the IUT having a App_Package containing appPkgId indicating value APP_PKG_ID, appDId indicating value ON_BOARDED_APPD_ID } </pre>	
Expected Behaviour	
<pre> ensure that { when { the IUT receives a vPOST containing uri indicating value "/app_pkgm/v1/app_packages/{APP_PKG_ID}/appd" from the MEO entity } then { the IUT sends a HTTP_RESPONSE containing status set to "405 Method Not Allow" to the MEO entity } } </pre>	

Table 6.2.2-19: TP_MEC_MEC010p2_MEPM_PKGM_009_OK

TP Id	"TP_MEC_MEC010p2_MEPM_PKGM_009_OK"
Test Objective	Check that MEPM returns the Application Descriptor contained on an on-boarded Application Package when requested
Reference	ETSI GS MEC 010-2 (V2.2.1) [3], clause 7.3.6.3.2 ETSI GS MEC 010-2 (V2.2.1) [3], clause 6.2.1.2
Configuration	Config_MEC_5
PICS Selection	PIC_APP_PACKAGE_MANAGEMENT
Initial Conditions	
<pre> with { the IUT having a App_Package containing appPkgId indicating value APP_PKG_ID, appDId indicating value ON_BOARDED_APPD_ID } </pre>	

Expected Behaviour
<pre> } ensure that { when { the IUT receives a vGET containing uri indicating value "/app_pkgm/v1/app_packages/{APP_PKG_ID}/appd", accept set to ACCEPTED_CONTENT_TYPE from the MEO entity } then { the IUT sends a HTTP_RESPONSE containing status set to "200 OK", content_type, body containing payload set to FILE to the MEO entity } } </pre>

Table 6.2.2-20: TP_MEC_MEC010p2_MEPM_PKGM_009_NF

TP Id	"TP_MEC_MEC010p2_MEPM_PKGM_009_NF"
Test Objective	Check that MEPM responds with an error when it receives a request for returning an App Descriptor referred with a wrong App Package ID
Reference	ETSI GS MEC 010-2 (V2.2.1) [3], clause 7.3.6.3.2 ETSI GS MEC 010-2 (V2.2.1) [3], clause 6.2.1.2
Configuration	Config_MEC_5
PICS Selection	PIC_APP_PACKAGE_MANAGEMENT
Initial Conditions	
<pre> with { the IUT not having a App_Package containing appPkgId indicating value NON_EXISTENT_APP_PKG_ID } </pre>	
Expected Behaviour	
<pre> ensure that { when { the IUT receives a vGET containing uri indicating value "/app_pkgm/v1/app_packages/{NON_EXISTENT_APP_PKG_ID}/appd" from the MEO entity } then { the IUT sends a HTTP_RESPONSE containing status set to "404 Not Found" to the MEO entity } } </pre>	

Table 6.2.2-21: TP_MEC_MEC010p2_MEPM_PKGM_0010_FO

TP Id	"TP_MEC_MEC010p2_MEPM_PKGM_010_FO"
Test Objective	Check that MEPM responds with an error when it receives a PUT request referring an application descriptor AppD
Reference	ETSI GS MEC 010-2 (V2.2.1) [3], clause 7.3.6.3.3
Configuration	Config_MEC_5
PICS Selection	PIC_APP_PACKAGE_MANAGEMENT
Initial Conditions	
<pre> with { the IUT having a App_Package containing appPkgId indicating value APP_PKG_ID, appDId indicating value ON_BOARDED_APPD_ID } </pre>	
Expected Behaviour	

```

ensure that {
  when {
    the IUT receives a vPUT containing
      uri indicating value "/app_pkgm/v1/app_packages/{APP_PKG_ID}/appd"

    from the MEO entity
  }
  then {
    the IUT sends a HTTP_RESPONSE containing
      status set to "403 Forbidden"

    to the MEO entity
  }
}

```

Table 6.2.2-22: TP_MEC_MEC010p2_MEPM_PKGM_011_NA

TP Id	"TP_MEC_MEC010p2_MEPM_PKGM_011_NA"
Test Objective	Check that MEPM responds with an error when it receives a DELETE request referring an application descriptor AppD
Reference	ETSI GS MEC 010-2 (V2.2.1) [3], clause 7.3.6.3.4
Configuration	Config_MEC_5
PICS Selection	PIC_APP_PACKAGE_MANAGEMENT
Initial Conditions	
<pre> with { the IUT having a App_Package containing appPkgId indicating value APP_PKG_ID, appDId indicating value ON_BOARDED_APPD_ID } </pre>	
Expected Behaviour	
<pre> ensure that { when { the IUT receives a vDELETE containing uri indicating value "/app_pkgm/v1/app_packages/{APP_PKG_ID}/appd" from the MEO entity } then { the IUT sends a HTTP_RESPONSE containing status set to "405 Method Not Allow" to the MEO entity } } </pre>	

Table 6.2.2-23: TP_MEC_MEC010p2_MEPM_PKGM_012_01_OK

TP Id	"TP_MEC_MEC010p2_MEPM_PKGM_012_01_OK"
Test Objective	Check that MEPM fetches the on-boarded application package content identified by appPkgId when requested
Reference	ETSI GS MEC 010-2 (V2.2.1) [3], clause 7.3.7.3.2
Configuration	Config_MEC_5
PICS Selection	PIC_APP_PACKAGE_MANAGEMENT
Initial Conditions	
<pre> with { the IUT having a App_Package containing appPkgId indicating value APP_PKG_ID, appDId indicating value ON_BOARDED_APPD_ID } </pre>	
Expected Behaviour	
<pre> ensure that { when { the IUT receives a vGET containing uri indicating value "/app_pkgm/v1/app_packages/{APP_PKG_ID}/package_content", accept set to "application/zip" from the MEO entity } then { </pre>	

```

        the IUT sends a HTTP_RESPONSE containing
        status set to "200 OK",
        body containing
            payload set to ZIP_FILE

        to the MEO entity
    }
}

```

Table 6.2.2-24: TP_MEC_MEC010p2_MEPM_PKGM_012_02_OK

TP Id	"TP_MEC_MEC010p2_MEPM_PKGM_012_02_OK"
Test Objective	Check that MEPM fetches the on-boarded application package content identified by appDId when requested
Reference	ETSI GS MEC 010-2 (V2.2.1) [3], clause 7.3.7.3.2
Configuration	Config_MEC_5
PICS Selection	PIC_APP_PACKAGE_MANAGEMENT
Initial Conditions	
<pre> with { the IUT having a App_Package containing appPkgId indicating value APP_PKG_ID, appDId indicating value ON_BOARDED_APPD_ID } </pre>	
Expected Behaviour	
<pre> ensure that { when { the IUT receives a vGET containing uri indicating value "/app_pkgm/v1/onboarded_app_packages/{ON_BOARDED_APPD_ID}/package_content", accept set to "application/zip" from the MEO entity } then { the IUT sends a HTTP_RESPONSE containing status set to "200 OK", body containing payload set to ZIP_FILE to the MEO entity } } </pre>	

Table 6.2.2-25: TP_MEC_MEC010p2_MEPM_PKGM_012_01_NF

TP Id	"TP_MEC_MEC010p2_MEPM_PKGM_012_01_NF"
Test Objective	Check that MEPM fetches the on-boarded application package content identified by appPkgId when requested
Reference	ETSI GS MEC 010-2 (V2.2.1) [3], clause 7.3.7.3.2
Configuration	Config_MEC_5
PICS Selection	PIC_APP_PACKAGE_MANAGEMENT
Initial Conditions	
<pre> with { the IUT having a App_Package containing appPkgId indicating value APP_PKG_ID, appDId indicating value ON_BOARDED_APPD_ID } </pre>	
Expected Behaviour	
<pre> ensure that { when { the IUT receives a vGET containing uri indicating value "/app_pkgm/v1/app_packages/{NON_EXISTING_APP_PKG_ID}/package_content", accept set to "application/zip" from the MEO entity } } </pre>	

```

then {
    the IUT sends a HTTP_RESPONSE containing
        status set to "404 Not Found"

    to the MEO entity
}
}

```

Table 6.2.2-26: TP_MEC_MEC010p2_MEPM_PKGM_012_02_NF

TP Id	"TP_MEC_MEC010p2_MEPM_PKGM_012_02_NF"
Test Objective	Check that MEPM fetches the on-boarded application package content identified by appDId when requested
Reference	ETSI GS MEC 010-2 (V2.2.1) [3], clause 7.3.7.3.2
Configuration	Config_MEC_5
PICS Selection	PIC_APP_PACKAGE_MANAGEMENT
Initial Conditions	
<pre> with { the IUT having a App_Package containing appPkgId indicating value APP_PKG_ID, appDId indicating value ON_BOARDED_APPD_ID } </pre>	
Expected Behaviour	
<pre> ensure that { when { the IUT receives a vGET containing uri indicating value "/app_pkgm/v1/onboarded_app_packages/{NON_EXISTING_ON_BOARDED_APPD_ID}/package_content", accept set to "application/zip" from the MEO entity } then { the IUT sends a HTTP_RESPONSE containing status set to "404 Not Found" to the MEO entity } } </pre>	

6.2.3 Generic MEC API Producer (MEX)

6.2.3.1 Lifecycle management (LCM)

Table 6.2.3-1: TP_MEC_MEC010p2_MEX_LCM_001_OK

TP Id	"TP_MEC_MEC010p2_MEX_LCM_001_OK"
Test Objective	Check that MEC API provider creates a new App Package when requested
Reference	ETSI GS MEC 010-2 (V2.2.1) [3], clause 7.4.1.3.1 ETSI GS MEC 010-2 (V2.2.1) [3], Table 6.2.2.3.2-1 ETSI GS MEC 010-2 (V2.2.1) [3], Table 6.2.2.4.2-1
Configuration	Config_MEC_6
PICS Selection	PIC_APP_LCM_MANAGEMENT
Initial Conditions	
<pre> with { the IUT being_in idle_state } </pre>	
Expected Behaviour	
<pre> ensure that { when { the IUT receives a vPOST containing uri indicating value "/app_lcm/v1/app_instances", body containing CreateAppInstanceRequest containing appDId set to APP_D_ID } } </pre>	

```

    from the MEC_CONSUMER entity
  }
  then {
    the IUT sends a HTTP_RESPONSE containing
      status set to "201 Created",
      body containing
        AppInstanceInfo containing
          id set to any_value,
          appDId set to APP_D_ID,
          appProvider set to any_value,
          appName set to any_value,
          appSoftVersion set to any_value,
          appDVersion set to any_value,
          appPkgId set to any_value,
          instantiationState set to NOT_INSTANTIATED,
          _links containing
            self set to "/app_lcm/v1/app_instances/{APP_INSTANCE_ID}"

    to the MEC_CONSUMER entity
  }
}

```

Table 6.2.3-2: TP_MEC_MEC010p2_MEX_LCM_001_BR

TP Id	"TP_MEC_MEC010p2_MEX_LCM_001_BR"
Test Objective	Check that MEC API provider sends an error when it receives a malformed request for the creation of a new App Instance
Reference	ETSI GS MEC 010-2 (V2.2.1) [3], clause 7.4.1.3.1 ETSI GS MEC 010-2 (V2.2.1) [3], Table 6.2.2.3.2-1 ETSI GS MEC 010-2 (V2.2.1) [3], Table 6.2.2.4.2-1
Configuration	Config_MEC_6
PICS Selection	PIC_APP_LCM_MANAGEMENT
Initial Conditions	
with { the IUT being_in idle_state }	
Expected Behaviour	
ensure that { when { the IUT receives a vPOST containing uri indicating value "/app_lcm/v1/app_instances", body containing CreateAppInstanceRequest containing appDId set to APP_D_ID //Wrong parameter into the request body from the MEC_CONSUMER entity } then { the IUT sends a HTTP_RESPONSE containing status set to "400 Bad Request" to the MEC_CONSUMER entity } }	

Table 6.2.3-3: TP_MEC_MEC010p2_MEX_LCM_002_OK

TP Id	"TP_MEC_MEC010p2_MEX_LCM_002_OK"
Test Objective	Check that MEC API provider retrieves the list of App instances when requested
Reference	ETSI GS MEC 010-2 (V2.2.1) [3], clause 7.4.1.3.2 ETSI GS MEC 010-2 (V2.2.1) [3], Table 6.2.2.4.2-1
Configuration	Config_MEC_6
PICS Selection	PIC_APP_LCM_MANAGEMENT
Initial Conditions	
with { the IUT having a App_Instance containing appInstanceId indicating value APP_INSTANCE_ID }	

Expected Behaviour	
<pre> ensure that { when { the IUT receives a vGET containing uri indicating value "/app_lcm/v1/app_instances" from the MEC_CONSUMER entity } then { the IUT sends a HTTP_RESPONSE containing status set to "200 OK", body containing AppInstanceInfoList containing // Definition of AppInstanceInfoList is missing. How to handle with arrays? AppInstanceInfo containing appInstanceId set to APP_INSTANCE_ID, appDId set to any_value, appProvider set to any_value, appName set to any_value, appSoftVersion set to any_value, appDVersion set to any_value, appPkgId set to any_value, instantiationState set to any_value, _links containing self set to "/app_lcm/v1/app_instances/{APP_INSTANCE_ID}" to the MEC_CONSUMER entity } } </pre>	
TP Id	"TP_MEC_MEC010p2_MEX_LCM_002_OK"
Test Objective	Check that MEC API provider retrieves the list of App instances when requested
Reference	ETSI GS MEC 010-2 (V2.2.1) [3], clause 7.4.1.3.2 ETSI GS MEC 010-2 (V2.2.1) [3], Table 6.2.2.4.2-1
Configuration	Config_MEC_6
PICS Selection	PIC_APP_LCM_MANAGEMENT
Initial Conditions	
<pre> with { the IUT having a App_Instance containing appInstanceId indicating value APP_INSTANCE_ID } </pre>	
Expected Behaviour	
<pre> ensure that { when { the IUT receives a vGET containing uri indicating value "/app_lcm/v1/app_instances" from the MEC_CONSUMER entity } then { the IUT sends a HTTP_RESPONSE containing status set to "200 OK", body containing AppInstanceInfoList containing // Definition of AppInstanceInfoList is missing. How to handle with arrays? AppInstanceInfo containing appInstanceId set to APP_INSTANCE_ID, appDId set to any_value, appProvider set to any_value, appName set to any_value, appSoftVersion set to any_value, appDVersion set to any_value, appPkgId set to any_value, instantiationState set to any_value, _links containing self set to "/app_lcm/v1/app_instances/{APP_INSTANCE_ID}" to the MEC_CONSUMER entity } } </pre>	

Table 6.2.3-4: TP_MEC_MEC010p2_MEX_LCM_003_OK

TP Id	"TP_MEC_MEC010p2_MEX_LCM_003_OK"
Test Objective	Check that MEC API provider retrieves an App Package when requested
Reference	ETSI GS MEC 010-2 (V2.2.1) [3], clause 7.4.2.3.2 ETSI GS MEC 010-2 (V2.2.1) [3], Table 6.2.2.4.2-1
Configuration	Config_MEC_6
PICS Selection	PIC_APP_LCM_MANAGEMENT
Initial Conditions	
with { the IUT having a App_Instance containing appInstanceId indicating value APP_INSTANCE_ID }	
Expected Behaviour	
ensure that { when { the IUT receives a vGET containing uri indicating value "/app_lcm/v1/app_instances/{APP_INSTANCE_ID}" from the MEC_CONSUMER entity } then { the IUT sends a HTTP_RESPONSE containing status set to "200 OK", body containing AppInstanceInfo containing appInstanceId set to APP_INSTANCE_ID, appDId set to any_value, appProvider set to any_value, appName set to any_value, appSoftVersion set to any_value, appDVersion set to any_value, appPkgId set to any_value, instantiationState set to any_value, _links containing self set to "/app_lcm/v1/app_instances/{APP_INSTANCE_ID}" to the MEC_CONSUMER entity } }	

Table 6.2.3-5: TP_MEC_MEC010p2_MEX_LCM_003_NF

TP Id	"TP_MEC_MEC010p2_MEX_LCM_003_NF"
Test Objective	Check that MEC API provider fails on retrieving an App Instance when requested using wrong appInstanceId
Reference	ETSI GS MEC 010-2 (V2.2.1) [3], clause 7.4.2.3.2 ETSI GS MEC 010-2 (V2.2.1) [3], Table 6.2.2.4.2-1
Configuration	Config_MEC_6
PICS Selection	PIC_APP_LCM_MANAGEMENT
Initial Conditions	
with { the IUT not having a App_Instance containing appInstanceId indicating value NON_EXISTENT_APP_INSTANCE_ID }	
Expected Behaviour	
ensure that { when { the IUT receives a vGET containing uri indicating value "/app_lcm/v1/app_instances/{NON_EXISTENT_APP_INSTANCE_ID}" from the MEC_CONSUMER entity } then { the IUT sends a HTTP_RESPONSE containing status set to "404 Not Found" to the MEC_CONSUMER entity } }	

Table 6.2.3-6: TP_MEC_MEC010p2_MEX_LCM_004_OK

TP Id	"TP_MEC_MEC010p2_MEX_LCM_004_OK"
Test Objective	Check that MEC API provider service deletes an App Instance when requested
Reference	ETSI GS MEC 010-2 (V2.2.1) [3], clause 7.4.2.3.4
Configuration	Config_MEC_6
PICS Selection	PIC_APP_LCM_MANAGEMENT
Initial Conditions	
<pre>with { the IUT having a App_Instance containing appInstanceId indicating value APP_INSTANCE_ID }</pre>	
Expected Behaviour	
<pre>ensure that { when { the IUT receives a vDELETE containing uri indicating value "/app_lcm/v1/app_instances/{APP_INSTANCE_ID}" from the MEC_CONSUMER entity } then { the IUT sends a HTTP_RESPONSE containing status set to "204 No Content" to the MEC_CONSUMER entity } }</pre>	

Table 6.2.3-7: TP_MEC_MEC010p2_MEX_LCM_004_NF

TP Id	"TP_MEC_MEC010p2_MEX_LCM_004_NF"
Test Objective	Check that MEC API provider fails on deletion of an App Instance when requested using wrong appInstanceId
Reference	ETSI GS MEC 010-2 (V2.2.1) [3], clause 7.4.2.3.4 ETSI GS MEC 010-2 (V2.2.1) [3], Table 6.2.2.4.2-1
Configuration	Config_MEC_6
PICS Selection	PIC_APP_LCM_MANAGEMENT
Initial Conditions	
<pre>with { the IUT not having a App_Instance containing appInstanceId indicating value NON_EXISTENT_APP_INSTANCE_ID }</pre>	
Expected Behaviour	
<pre>ensure that { when { the IUT receives a vDELETE containing uri indicating value "/app_lcm/v1/app_instances/{NON_EXISTENT_APP_INSTANCE_ID}" from the MEC_CONSUMER entity } then { the IUT sends a HTTP_RESPONSE containing status set to "404 Not Found" to the MEC_CONSUMER entity } }</pre>	

Table 6.2.3-8: TP_MEC_MEC010p2_MEX_LCM_005_OK

TP Id	"TP_MEC_MEC010p2_MEX_LCM_005_OK"
Test Objective	Check that MEC API provider service instantiates an App Instance when requested
Reference	ETSI GS MEC 010-2 (V2.2.1) [3], clause 7.4.6.3.1 ETSI GS MEC 010-2 (V2.2.1) [3], table 6.2.2.7.2-1
Configuration	Config_MEC_6
PICS Selection	PIC_APP_LCM_MANAGEMENT
Initial Conditions	
<pre>with { the IUT having a App_Instance containing appInstanceId indicating value APP_INSTANCE_ID, instantiationState indicating value NOT_INSTANTIATED }</pre>	

Expected Behaviour
<pre> ensure that { when { the IUT receives a vPOST containing uri indicating value "/app_lcm/v1/app_instances/{APP_INSTANCE_ID}/instantiate", body containing InstantiateAppRequest containing selectedMECHostInfo set to SELECTED_MEC_HOST_INFO from the MEC_CONSUMER entity } then { the IUT sends a HTTP_RESPONSE containing status set to "202 Accepted", headers containing Location set to "/app_lcm/v1/app_lcm_op_occs/{APP_LCM_OP_OCC_ID}" to the MEC_CONSUMER entity } } </pre>

Table 6.2.3-9: TP_MEC_MEC010p2_MEX_LCM_005_BR

TP Id	"TP_MEC_MEC010p2_MEX_LCM_005_BR"
Test Objective	Check that MEC API provider service fails to instantiate an App Instance when it receives a malformed request
Reference	ETSI GS MEC 010-2 (V2.2.1) [3], clause 7.4.6.3.1 ETSI GS MEC 010-2 (V2.2.1) [3], table 6.2.2.7.2-1
Configuration	Config_MEC_6
PICS Selection	PIC_APP_LCM_MANAGEMENT
Initial Conditions	
<pre> with { the IUT having a App_Instance containing appInstanceId indicating value APP_INSTANCE_ID, instantiationState indicating value NOT_INSTANTIATED } </pre>	
Expected Behaviour	
<pre> ensure that { when { the IUT receives a vPOST containing uri indicating value "/app_lcm/v1/app_instances/{APP_INSTANCE_ID}/instantiate", body containing InstantiateAppRequest containing appERRORId set to APP_INSTANCE_ID //wrong name of the parameter from the MEC_CONSUMER entity } then { the IUT sends a HTTP_RESPONSE containing status set to "400 Bad request" to the MEC_CONSUMER entity } } </pre>	

Table 6.2.3-10: TP_MEC_MEC010p2_MEX_LCM_005_NF

TP Id	"TP_MEC_MEC010p2_MEX_LCM_005_NF"
Test Objective	Check that MEC API provider service fails to instantiate an App Instance when it receives a request related to a not existing App Instance
Reference	ETSI GS MEC 010-2 (V2.2.1) [3], clause 7.4.6.3.1 ETSI GS MEC 010-2 (V2.2.1) [3], table 6.2.2.7.2-1
Configuration	Config_MEC_6
PICS Selection	PIC_APP_LCM_MANAGEMENT
Initial Conditions	
<pre> with { the IUT not having a App_Instance containing </pre>	

<pre> appInstanceId indicating value NON_EXISTENT_APP_INSTANCE_ID } </pre>
Expected Behaviour
<pre> ensure that { when { the IUT receives a vPOST containing uri indicating value "/app_lcm/v1/app_instances/{NON_EXISTENT_APP_INSTANCE_ID}/instantiate" from the MEC_CONSUMER entity } then { the IUT sends a HTTP_RESPONSE containing status set to "404 Not Found" to the MEC_CONSUMER entity } } </pre>

Table 6.2.3-11: TP_MEC_MEC010p2_MEX_LCM_006_OK

TP Id	"TP_MEC_MEC010p2_MEX_LCM_006_OK"
Test Objective	Check that MEC API provider service terminates an App Instance when requested
Reference	ETSI GS MEC 010-2 (V2.2.1) [3], clause 7.4.7.3.1 ETSI GS MEC 010-2 (V2.2.1) [3], table 6.2.2.9.2-1
Configuration	Config_MEC_6
PICS Selection	PIC_APP_LCM_MANAGEMENT
Initial Conditions	
<pre> with { the IUT having a App_Instance containing appInstanceId indicating value APP_INSTANCE_ID, instantiationState indicating value INSTANTIATED } </pre>	
Expected Behaviour	
<pre> ensure that { when { the IUT receives a vPOST containing uri indicating value "/app_lcm/v1/app_instances/{APP_INSTANCE_ID}/terminate", body containing TerminateAppRequest containing terminationType set to TERMINATION_TYPE from the MEC_CONSUMER entity } then { the IUT sends a HTTP_RESPONSE containing status set to "202 Accepted", headers containing Location set to LOCATION_OF_APP_OP_OCC to the MEC_CONSUMER entity } } </pre>	

Table 6.2.3-12: TP_MEC_MEC010p2_MEX_LCM_006_BR

TP Id	"TP_MEC_MEC010p2_MEX_LCM_006_BR"
Test Objective	Check that MEC API provider service fails to terminate an App Instance when it receives a malformed request
Reference	ETSI GS MEC 010-2 (V2.2.1) [3], clause 7.4.7.3.1 ETSI GS MEC 010-2 (V2.2.1) [3], table 6.2.2.9.2-1
Configuration	Config_MEC_6
PICS Selection	PIC_APP_LCM_MANAGEMENT
Initial Conditions	
<pre> with { the IUT having a App_Instance containing appInstanceId indicating value APP_INSTANCE_ID, instantiationState indicating value INSTANTIATED } </pre>	

Expected Behaviour	
<pre> ensure that { when { the IUT receives a vPOST containing uri indicating value "/app_lcm/v1/app_instances/{APP_INSTANCE_ID}/terminate", body containing TerminateAppRequest containing terminationERRORType set to GRACEFUL //wrong parameter from the MEC_CONSUMER entity } then { the IUT sends a HTTP_RESPONSE containing status set to "400 Bad request" to the MEC_CONSUMER entity } } </pre>	
TP Id	"TP_MEC_MEC010p2_MEX_LCM_006_BR"
Test Objective	Check that MEC API provider service fails to terminate an App Instance when it receives a malformed request
Reference	ETSI GS MEC 010-2 (V2.2.1) [3], clause 7.4.7.3.1 ETSI GS MEC 010-2 (V2.2.1) [3], table 6.2.2.9.2-1
Configuration	Config_MEC_6
PICS Selection	PIC_APP_LCM_MANAGEMENT
Initial Conditions	
<pre> with { the IUT having a App_Instance containing appInstanceId indicating value APP_INSTANCE_ID, instantiationState indicating value INSTANTIATED } </pre>	
Expected Behaviour	
<pre> ensure that { when { the IUT receives a vPOST containing uri indicating value "/app_lcm/v1/app_instances/{APP_INSTANCE_ID}/terminate", body containing TerminateAppRequest containing terminationERRORType set to GRACEFUL //wrong parameter from the MEC_CONSUMER entity } then { the IUT sends a HTTP_RESPONSE containing status set to "400 Bad request" to the MEC_CONSUMER entity } } </pre>	

Table 6.2.3-13: TP_MEC_MEC010p2_MEX_LCM_006_NF

TP Id	"TP_MEC_MEC010p2_MEX_LCM_006_NF"
Test Objective	Check that MEC API provider service fails to terminate an App Instance when it receives a request related to a not existing App Instance
Reference	ETSI GS MEC 010-2 (V2.2.1) [3], clause 7.4.7.3.1 ETSI GS MEC 010-2 (V2.2.1) [3], table 6.2.2.9.2-1
Configuration	Config_MEC_6
PICS Selection	PIC_APP_LCM_MANAGEMENT
Initial Conditions	
<pre> with { the IUT not having a App_Instance containing appInstanceId indicating value NON_EXISTENT_APP_INSTANCE_ID } </pre>	
Expected Behaviour	
<pre> ensure that { when { the IUT receives a vPOST containing uri indicating value "/app_lcm/v1/app_instances/{NON_EXISTENT_APP_INSTANCE_ID}/terminate" from the MEC_CONSUMER entity } } </pre>	

```

}
then {
  the IUT sends a HTTP_RESPONSE containing
    status set to "404 Not Found"
    to the MEC_CONSUMER entity
}
}

```

Table 6.2.3-14: TP_MEC_MEC010p2_MEX_LCM_007_OK

TP Id	"TP_MEC_MEC010p2_MEX_LCM_007_OK"
Test Objective	Check that MEC API provider service changes the status of an App Instance from its INITIAL_STATE to a given FINAL_STATE, when requested. The following combinations INITIAL_STATE - FINAL_STATE are supported: <ul style="list-style-type: none"> STARTED/STOP STOPPED/START
Reference	ETSI GS MEC 010-2 (V2.2.1) [3], clause 7.4.8.3.1 ETSI GS MEC 010-2 (V2.2.1) [3], table 6.2.2.8.2-1
Configuration	Config_MEC_6
PICS Selection	PIC_APP_LCM_MANAGEMENT
Initial Conditions	
with { the IUT having a App_Instance containing appInstanceId indicating value APP_INSTANCE_ID, instantiationState indicating value INSTANTIATED, operationalState indicating value INITIAL_STATE }	
Expected Behaviour	
ensure that { when { the IUT receives a vPOST containing uri indicating value "/app_lcm/v1/app_instances/{APP_INSTANCE_ID}/operate", body containing OperateAppRequest containing changeStateTo set to FINAL_STATE from the MEC_CONSUMER entity } then { the IUT sends a HTTP_RESPONSE containing status set to "202 Accepted", headers containing Location set to LOCATION_OF_APP_OP_OCC to the MEC_CONSUMER entity } }	

Table 6.2.3-15: TP_MEC_MEC010p2_MEX_LCM_007_BR

TP Id	"TP_MEC_MEC010p2_MEX_LCM_007_BR"
Test Objective	Check that MEC API provider service fails to operate on an App Instance when it receives a malformed request
Reference	ETSI GS MEC 010-2 (V2.2.1) [3], clause 7.4.8.3.1 ETSI GS MEC 010-2 (V2.2.1) [3], table 6.2.2.8.2-1
Configuration	Config_MEC_6
PICS Selection	PIC_APP_LCM_MANAGEMENT
Initial Conditions	
with { the IUT having a App_Instance containing appInstanceId indicating value APP_INSTANCE_ID }	
Expected Behaviour	
ensure that { when { the IUT receives a vPOST containing uri indicating value "/app_lcm/v1/app_instances/{APP_INSTANCE_ID}/operate",	

```

        body containing
            OperateAppRequest containing
                changeERRORStateTo set to any_value //wrong parameter

        from the MEC_CONSUMER entity
    }
    then {
        the IUT sends a HTTP_RESPONSE containing
            status set to "400 Bad request"
            to the MEC_CONSUMER entity
    }
}

```

Table 6.2.3-16: TP_MEC_MEC010p2_MEX_LCM_007_NF

TP Id	"TP_MEC_MEC010p2_MEX_LCM_007_NF"
Test Objective	Check that MEC API provider service fails to change the status of an App Instance when it receives a request related to a not existing App Instance
Reference	ETSI GS MEC 010-2 (V2.2.1) [3], clause 7.4.8.3.1 ETSI GS MEC 010-2 (V2.2.1) [3], table 6.2.2.8.2-1
Configuration	Config_MEC_6
PICS Selection	PIC_APP_LCM_MANAGEMENT
Initial Conditions	
with { the IUT not having a App_Instance containing appInstanceId indicating value NON_EXISTENT_APP_INSTANCE_ID }	
Expected Behaviour	
ensure that { when { the IUT receives a vPOST containing uri indicating value "/app_lcm/v1/app_instances/{NON_EXISTENT_APP_INSTANCE_ID}/operate" from the MEC_CONSUMER entity } then { the IUT sends a HTTP_RESPONSE containing status set to "404 Not Found" to the MEC_CONSUMER entity } }	

Table 6.2.3-17: TP_MEC_MEC010p2_MEX_LCM_008_OK

TP Id	"TP_MEC_MEC010p2_MEX_LCM_008_OK"
Test Objective	Check that MEC API provider service retrieves info about LCM Operation Occurrence on App Instances when requested
Reference	ETSI GS MEC 010-2 (V2.2.1) [3], clause 7.4.9.3.2 ETSI GS MEC 010-2 (V2.2.1) [3], table 6.2.2.13.2-1
Configuration	Config_MEC_6
PICS Selection	PIC_APP_LCM_MANAGEMENT
Initial Conditions	
with { the IUT having a App_Lcm_Op_Occ containing appLcmOpOccId indicating value APP_LCM_OP_OCC_ID }	
Expected Behaviour	
ensure that { when { the IUT receives a vGET containing uri indicating value "/app_lcm/v1/app_lcm_op_occs" from the MEC_CONSUMER entity } then { the IUT sends a HTTP_RESPONSE containing status set to "200 OK", body containing AppLcmOpOccList containing AppInstanceLcmOpOcc containing	

```

        id set to APP_LCM_OP_OCC_ID,
        operationState set to any_value,
        stateEnteredTime set to any_value,
        startTime set to any_value,
        lcmOperation set to any_value,
        _links containing
            self set to "/app_lcm/v1/app_lcm_op_occs/{APP_LCM_OP_OCC_ID}",
            appInstance set to any_value

    to the MEC_CONSUMER entity
}

```

Table 6.2.3-18: TP_MEC_MEC010p2_MEX_LCM_009_OK

TP Id	"TP_MEC_MEC010p2_MEX_LCM_009_OK"
Test Objective	Check that MEC API provider service retrieves info about LCM Operation Occurrence on an App Instance when requested
Reference	ETSI GS MEC 010-2 (V2.2.1) [3], clause 7.4.10.3.2 ETSI GS MEC 010-2 (V2.2.1) [3], table 6.2.2.14.2-1
Configuration	Config_MEC_6
PICS Selection	PIC_APP_LCM_MANAGEMENT
Initial Conditions	
<pre> with { the IUT having a App_Lcm_Op_Occ containing appLcmOpOccId indicating value APP_LCM_OP_OCC_ID } </pre>	
Expected Behaviour	
<pre> ensure that { when { the IUT receives a vGET containing uri indicating value "/app_lcm/v1/app_lcm_op_occs/{APP_LCM_OP_OCC_ID}" from the MEC_CONSUMER entity } then { the IUT sends a HTTP_RESPONSE containing status set to "200 OK", body containing AppInstanceLcmOpOcc containing id set to APP_LCM_OP_OCC_ID, operationState set to any_value, stateEnteredTime set to any_value, startTime set to any_value, lcmOperation set to any_value, _links containing self set to "/app_lcm/v1/app_lcm_op_occs/{APP_LCM_OP_OCC_ID}", appInstance set to any_value to the MEC_CONSUMER entity } } </pre>	

Table 6.2.3-19: TP_MEC_MEC010p2_MEX_LCM_009_NF

TP Id	"TP_MEC_MEC010p2_MEX_LCM_009_NF"
Test Objective	Check that MEC API provider service sends an error when it receives a query for a not existing LCM Operation Occurrence
Reference	ETSI GS MEC 010-2 (V2.2.1) [3], clause 7.4.10.1.3.2 ETSI GS MEC 010-2 (V2.2.1) [3], table 6.2.2.13.2-1
Configuration	Config_MEC_6
PICS Selection	PIC_APP_LCM_MANAGEMENT
Initial Conditions	
<pre>with { the IUT not having a App_Lcm_Op_Occ containing appLcmOpOccId indicating value NON_EXISTENT_APP_LCM_OP_OCC_ID }</pre>	
Expected Behaviour	
<pre>ensure that { when { the IUT receives a vGET containing uri indicating value "/app_lcm/v1/app_lcm_op_occs/{NON_EXISTENT_APP_LCM_OP_OCC_ID}" from the MEC_CONSUMER entity } then { the IUT sends a HTTP_RESPONSE containing status set to "404 Not Found" to the MEC_CONSUMER entity } }</pre>	

Table 6.2.3-20: TP_MEC_MEC010p2_MEX_LCM_010_OK

TP Id	"TP_MEC_MEC010p2_MEX_LCM_010_OK"
Test Objective	Check that MEC API provider service creates a LCM Subscription when requested, where the subscription request can have SUBSCRIPTION_TYPE AppInstanceStateChangeSubscription or AppLcmOpOccStateChangeSubscription
Reference	ETSI GS MEC 010-2 (V2.2.1) [3], clause 7.4.3.3.1 ETSI GS MEC 010-2 (V2.2.1) [3], table 6.2.2.12.2-1 ETSI GS MEC 010-2 (V2.2.1) [3], table 6.2.2.14.2-1 ETSI GS MEC 010-2 (V2.2.1) [3], table 6.2.2.25.2-1 ETSI GS MEC 010-2 (V2.2.1) [3], table 6.2.2.28.2-1 ETSI GS MEC 010-2 (V2.2.1) [3], table 6.2.2.10.2-1 ETSI GS MEC 010-2 (V2.2.1) [3], table 6.2.2.15.2-1 ETSI GS MEC 010-2 (V2.2.1) [3], table 6.2.2.26.2-1 ETSI GS MEC 010-2 (V2.2.1) [3], table 6.2.2.29.2-1
Configuration	Config_MEC_6
PICS Selection	PIC_APP_LCM_MANAGEMENT
Initial Conditions	
<pre>with { the IUT being_in idle_state }</pre>	
Expected Behaviour	
<pre>ensure that { when { the IUT receives a vPOST containing uri indicating value "/app_lcm/v1/subscriptions" body containing AppInstSubscriptionRequest containing callbackUri set to CALLBACK_URI, subscriptionType set to SUBSCRIPTION_TYPE from the MEC_CONSUMER entity } then { the IUT sends a HTTP_RESPONSE containing status set to "201 Created", body containing AppInstSubscriptionRequest containing subscriptionId set to any_value, subscriptionType set to SUBSCRIPTION_TYPE,</pre>	


```

        callbackUri set to CALLBACK_URI,
        _links containing
            _self set to "/app_lcm/v1/subscriptions/{SUBSCRIPTION_ID}"

    to the MEC_CONSUMER entity
}
}

```

Table 6.2.3-21: TP_MEC_MEC010p2_MEX_LCM_010_BR

TP Id	"TP_MEC_MEC010p2_MEX_LCM_010_BR"
Test Objective	Check that MEC API provider service sends an error when it receives a malformed request to create an LCM Subscription
Reference	ETSI GS MEC 010-2 (V2.2.1) [3], clause 7.4.3.3.1 ETSI GS MEC 010-2 (V2.2.1) [3], table 6.2.2.12.2-1 ETSI GS MEC 010-2 (V2.2.1) [3], table 6.2.2.14.2-1 ETSI GS MEC 010-2 (V2.2.1) [3], table 6.2.2.25.2-1 ETSI GS MEC 010-2 (V2.2.1) [3], table 6.2.2.28.2-1 ETSI GS MEC 010-2 (V2.2.1) [3], table 6.2.2.10.2-1 ETSI GS MEC 010-2 (V2.2.1) [3], table 6.2.2.15.2-1 ETSI GS MEC 010-2 (V2.2.1) [3], table 6.2.2.26.2-1 ETSI GS MEC 010-2 (V2.2.1) [3], table 6.2.2.29.2-1
Configuration	Config_MEC_6
PICS Selection	PIC_APP_LCM_MANAGEMENT
Initial Conditions	
with { the IUT being_in idle_state }	
Expected Behaviour	
ensure that { when { the IUT receives a vPOST containing uri indicating value "/app_lcm/v1/subscriptions" body containing AppInstSubscriptionRequest containing callbackERRORUri set to CALLBACK_URI //wrong parameter from the MEC_CONSUMER entity } then { the IUT sends a HTTP_RESPONSE containing status set to "400 Bad Request" to the MEC_CONSUMER entity } }	

Table 6.2.3-22: TP_MEC_MEC010p2_MEX_LCM_011_OK

TP Id	"TP_MEC_MEC010p2_MEX_LCM_011_OK"
Test Objective	Check that MEC API provider service sends the list of LCM Subscriptions when requested
Reference	ETSI GS MEC 010-2 (V2.2.1) [3], clause 7.4.3.3.1 ETSI GS MEC 010-2 (V2.2.1) [3], table 6.2.2.12.2-1 ETSI GS MEC 010-2 (V2.2.1) [3], table 6.2.2.14.2-1 ETSI GS MEC 010-2 (V2.2.1) [3], table 6.2.2.25.2-1 ETSI GS MEC 010-2 (V2.2.1) [3], table 6.2.2.28.2-1 ETSI GS MEC 010-2 (V2.2.1) [3], table 6.2.2.10.2-1 ETSI GS MEC 010-2 (V2.2.1) [3], table 6.2.2.15.2-1 ETSI GS MEC 010-2 (V2.2.1) [3], table 6.2.2.26.2-1 ETSI GS MEC 010-2 (V2.2.1) [3], table 6.2.2.29.2-1
Configuration	Config_MEC_6
PICS Selection	PIC_APP_LCM_MANAGEMENT
Initial Conditions	
<pre>with { the IUT having a Subscription containing subscriptionId indicating value SUBSCRIPTION_ID, subscriptionType indicating value SUBSCRIPTION_TYPE, callbackUri indicating value URI }</pre>	
Expected Behaviour	
<pre>ensure that { when { the IUT receives a vGET containing uri indicating value "/app_lcm/v1/subscriptions" from the MEC_CONSUMER entity } then { the IUT sends a HTTP_RESPONSE containing status set to "200 OK", body containing SubscriptionInfoList containing SubscriptionInfo containing subscriptionId set to SUBSCRIPTION_ID, subscriptionType set to SUBSCRIPTION_TYPE, callbackUri set to URI, _links containing _self set to "/app_lcm/v1/subscriptions/{SUBSCRIPTION_ID}" to the MEC_CONSUMER entity } }</pre>	

Table 6.2.3-23: TP_MEC_MEC010p2_MEX_LCM_012_OK

TP Id	"TP_MEC_MEC010p2_MEX_LCM_012_OK"
Test Objective	Check that MEC API provider service sends the information about an existing LCM subscription when requested
Reference	ETSI GS MEC 010-2 (V2.2.1) [3], clause 7.4.4.3.2 ETSI GS MEC 010-2 (V2.2.1) [3], table 6.2.2.10.2-1 ETSI GS MEC 010-2 (V2.2.1) [3], table 6.2.2.15.2-1 ETSI GS MEC 010-2 (V2.2.1) [3], table 6.2.2.26.2-1 ETSI GS MEC 010-2 (V2.2.1) [3], table 6.2.2.29.2-1
Configuration	Config_MEC_6
PICS Selection	PIC_APP_LCM_MANAGEMENT
Initial Conditions	
<pre>with { the IUT having a Subscription containing subscriptionId indicating value SUBSCRIPTION_ID, subscriptionType indicating value SUBSCRIPTION_TYPE, callbackUri indicating value URI }</pre>	

Expected Behaviour
<pre> ensure that { when { the IUT receives a vGET containing uri indicating value "/app_lcm/v1/subscriptions/{SUBSCRIPTION_ID}" from the MEC_CONSUMER entity } then { the IUT sends a HTTP_RESPONSE containing status set to "200 OK", body containing SubscriptionInfo containing subscriptionId set to SUBSCRIPTION_ID, subscriptionType set to SUBSCRIPTION_TYPE, callbackUri set to URI, _links containing _self set to "/app_lcm/v1/subscriptions/{SUBSCRIPTION_ID}" to the MEC_CONSUMER entity } } </pre>

Table 6.2.3-24: TP_MEC_MEC010p2_MEX_LCM_012_NF

TP Id	"TP_MEC_MEC010p2_MEX_LCM_012_NF"
Test Objective	Check that MEC API provider service sends an error when it receives a query for a not existing LCM Subscription
Reference	ETSI GS MEC 010-2 (V2.2.1) [3], clause 7.4.3.3.2
Configuration	Config_MEC_6
PICS Selection	PIC_APP_LCM_MANAGEMENT
Initial Conditions	
<pre> with { the IUT not having a App_Instance_Subscription containing subscriptionId set to NON_EXISTENT_SUBSCRIPTION_ID } </pre>	
Expected Behaviour	
<pre> ensure that { when { the IUT receives a vGET containing uri indicating value "/app_lcm/v1/subscriptions/{NON_EXISTENT_SUBSCRIPTION_ID}" from the MEC_CONSUMER entity } then { the IUT sends a HTTP_RESPONSE containing status set to "404 Not Found" to the MEC_CONSUMER entity } } </pre>	

Table 6.2.3-25: TP_MEC_MEC010p2_MEX_LCM_013_OK

TP Id	"TP_MEC_MEC010p2_MEX_LCM_013_OK"
Test Objective	Check that MEC API provider service delete an existing LCM Subscription when requested
Reference	ETSI GS MEC 010-2 (V2.2.1) [3], clause 7.4.4.3.4
Configuration	Config_MEC_6
PICS Selection	PIC_APP_LCM_MANAGEMENT
Initial Conditions	
<pre> with { the IUT having a Subscription containing subscriptionId indicating value SUBSCRIPTION_ID } </pre>	
Expected Behaviour	
<pre> ensure that { when { the IUT receives a vDELETE containing </pre>	

```

        uri indicating value "/app_lcm/v1/subscriptions/{SUBSCRIPTION_ID}"

        from the MEC_CONSUMER entity
    }
    then {
        the IUT sends a HTTP_RESPONSE containing
            status set to "204 No Content"

        to the MEC_CONSUMER entity
    }
}

```

Table 6.2.3-26: TP_MEC_MEC010p2_MEX_LCM_013_NF

TP Id	"TP_MEC_MEC010p2_MEX_LCM_013_NF"
Test Objective	Check that MEC API provider service sends an error when it receives a deletion request for a not existing LCM Subscription
Reference	ETSI GS MEC 010-2 (V2.2.1) [3], clause 7.4.3.3.4
Configuration	Config_MEC_6
PICS Selection	PIC_APP_LCM_MANAGEMENT
Initial Conditions	
with { the IUT not having a App_Instance_Subscription containing subscriptionId set to NON_EXISTENT_SUBSCRIPTION_ID }	
Expected Behaviour	
ensure that { when { the IUT receives a vDELETE containing uri indicating value "/app_lcm/v1/subscriptions/{NON_EXISTENT_SUBSCRIPTION_ID}" from the MEC_CONSUMER entity } then { the IUT sends a HTTP_RESPONSE containing status set to "404 Not Found" to the MEC_CONSUMER entity } }	

Table 6.2.3-27: TP_MEC_MEC010p2_MEX_LCM_014_OK

TP Id	"TP_MEC_MEC010p2_MEX_LCM_014_OK"
Test Objective	Check that MEC API provider service cancels an ongoing LCM Operation
Reference	ETSI GS MEC 010-2 (V2.2.1) [3], clause 7.4.11.3.1 ETSI GS MEC 010-2 (V2.2.1) [3], table 6.2.2.32.2-1
Configuration	Config_MEC_6
PICS Selection	PIC_APP_LCM_MANAGEMENT
Initial Conditions	
with { the IUT having a App_LCM_op_occ containing id indicating value APP_LCM_OP_OCC_ID }	
Expected Behaviour	
ensure that { when { the IUT receives a vPOST containing uri indicating value "/app_lcm/v1/app_instances/app_lcm_op_occs/{APP_LCM_OP_OCC_ID}/cancel" body containing CancelMode containing CancelMode set to GRACEFUL from the MEC_CONSUMER entity } then { the IUT sends a HTTP_RESPONSE containing status set to "202 Accepted" to the MEC_CONSUMER entity }	

```
}
}
```

Table 6.2.3-28: TP_MEC_MEC010p2_MEX_LCM_014_BR

TP Id	"TP_MEC_MEC010p2_MEX_LCM_014_BR"
Test Objective	Check that MEC API provider service fails to cancel an ongoing LCM Operation when it receives a malformed request
Reference	ETSI GS MEC 010-2 (V2.2.1) [3], clause 7.4.11.3.1 ETSI GS MEC 010-2 (V2.2.1) [3], table 6.2.2.32.2-1
Configuration	Config_MEC_6
PICS Selection	PIC_APP_LCM_MANAGEMENT
Initial Conditions	
with { the IUT having a App_LCM_op_occ containing id indicating value APP_LCM_OP_OCC_ID }	
Expected Behaviour	
ensure that { when { the IUT receives a vPOST containing uri indicating value "/app_lcm/v1/app_instances/app_lcm_op_occs/{APP_LCM_OP_OCC_ID}/cancel", body containing CancelMode containing CancelMode set to GRACEFULLL //It should be GRACEFUL from the MEC_CONSUMER entity } then { the IUT sends a HTTP_RESPONSE containing status set to "400 Bad request" to the MEC_CONSUMER entity } }	

Table 6.2.3-29: TP_MEC_MEC010p2_MEX_LCM_014_NF

TP Id	"TP_MEC_MEC010p2_MEX_LCM_014_NF"
Test Objective	Check that MEC API provider service fails to cancel an ongoing LCM Operation when it receives a request related to a not existing application LCM Operation
Reference	ETSI GS MEC 010-2 (V2.2.1) [3], clause 7.4.11.3.1 ETSI GS MEC 010-2 (V2.2.1) [3], table 6.2.2.32.2-1
Configuration	Config_MEC_6
PICS Selection	PIC_APP_LCM_MANAGEMENT
Initial Conditions	
with { the IUT not having a App_LCM_op_occ containing id indicating value NON_EXISTENT_APP_LCM_OP_OCC_ID }	
Expected Behaviour	
ensure that { when { the IUT receives a vPOST containing uri indicating value "/app_lcm/v1/app_instances/app_lcm_op_occs/{NON_EXISTENT_APP_INSTANCE_ID}/cancel" from the MEC_CONSUMER entity } then { the IUT sends a HTTP_RESPONSE containing status set to "404 Not Found" to the MEC_CONSUMER entity } }	

Table 6.2.3-30: TP_MEC_MEC010p2_MEX_LCM_015_OK

TP Id	"TP_MEC_MEC010p2_MEX_LCM_015_OK"
Test Objective	Check that MEC API provider service makes failed an ongoing LCM Operation
Reference	ETSI GS MEC 010-2 (V2.2.1) [3], clause 7.4.12.3.1
Configuration	Config_MEC_6
PICS Selection	PIC_APP_LCM_MANAGEMENT
Initial Conditions	
<pre>with { the IUT having a App_LCM_op_occ containing id indicating value APP_LCM_OP_OCC_ID, operationStates indicating value FAILED_TEMP }</pre>	
Expected Behaviour	
<pre>ensure that { when { the IUT receives a vPOST containing uri indicating value "/app_lcm/v1/app_instances/app_lcm_op_occs/{APP_LCM_OP_OCC_ID}/fail" from the MEC_CONSUMER entity } then { the IUT sends a HTTP_RESPONSE containing status set to "200 OK" body containing AppLcmOpOcc containing SubscriptionInfo containing id set to APP_LCM_OP_OCC_ID, operationState set to FAILED, stateEnteredTime set to any_value, startTime set to any_value, lcmOperation set to any_value, _links containing _self set to "/app_lcm/v1/subscriptions/{SUBSCRIPTION_ID}", appInstance set to "/app_lcm/v1/app_instances/{APP_INSTANCE_ID}" to the MEC_CONSUMER entity } }</pre>	

Table 6.2.3-31: TP_MEC_MEC010p2_MEX_LCM_015_NF

TP Id	"TP_MEC_MEC010p2_MEX_LCM_015_NF"
Test Objective	Check that MEC API provider service fails to make failed an ongoing LCM Operation when it receives a request related to a not existing application LCM Operation
Reference	ETSI GS MEC 010-2 (V2.2.1) [3], clause 7.4.12.3.1
Configuration	Config_MEC_6
PICS Selection	PIC_APP_LCM_MANAGEMENT
Initial Conditions	
<pre>with { the IUT not having a App_LCM_op_occ containing id indicating value NON_EXISTENT_APP_LCM_OP_OCC_ID }</pre>	
Expected Behaviour	
<pre>ensure that { when { the IUT receives a vPOST containing uri indicating value "/app_lcm/v1/app_instances/app_lcm_op_occs/{NON_EXISTENT_APP_INSTANCE_ID}/fail" from the MEC_CONSUMER entity } then { the IUT sends a HTTP_RESPONSE containing status set to "404 Not Found" to the MEC_CONSUMER entity } }</pre>	

Table 6.2.3-32: TP_MEC_MEC010p2_MEX_LCM_016_OK

TP Id	"TP_MEC_MEC010p2_MEX_LCM_016_OK"
Test Objective	Check that MEC API provider service retries an ongoing LCM Operation
Reference	ETSI GS MEC 010-2 (V2.2.1) [3], clause 7.4.13.3.1
Configuration	Config_MEC_6
PICS Selection	PIC_APP_LCM_MANAGEMENT
Initial Conditions	
<pre>with { the IUT having a App_LCM_op_occ containing id indicating value APP_LCM_OP_OCC_ID, operationStates indicating value FAILED_TEMP }</pre>	
Expected Behaviour	
<pre>ensure that { when { the IUT receives a vPOST containing uri indicating value "/app_lcm/v1/app_instances/app_lcm_op_occs/{APP_LCM_OP_OCC_ID}/retry" from the MEC_CONSUMER entity } then { the IUT sends a HTTP_RESPONSE containing status set to "200 Accepted" to the MEC_CONSUMER entity } }</pre>	

Table 6.2.3-33: TP_MEC_MEC010p2_MEX_LCM_016_NF

TP Id	"TP_MEC_MEC010p2_MEX_LCM_016_NF"
Test Objective	Check that MEC API provider service fails to retry an LCM Operation when it receives a request related to a not existing application LCM Operation
Reference	ETSI GS MEC 010-2 (V2.2.1) [3], clause 7.4.13.3.1
Configuration	Config_MEC_6
PICS Selection	PIC_APP_LCM_MANAGEMENT
Initial Conditions	
<pre>with { the IUT not having a App_LCM_op_occ containing id indicating value NON_EXISTENT_APP_LCM_OP_OCC_ID }</pre>	
Expected Behaviour	
<pre>ensure that { when { the IUT receives a vPOST containing uri indicating value "/app_lcm/v1/app_instances/app_lcm_op_occs/{NON_EXISTENT_APP_INSTANCE_ID}/retry" from the MEC_CONSUMER entity } then { the IUT sends a HTTP_RESPONSE containing status set to "404 Not Found" to the MEC_CONSUMER entity } }</pre>	

Table 6.2.3-34: TP_MEC_MEC010p2_MEX_LCM_017_OK

TP Id	"TP_MEC_MEC010p2_MEX_LCM_017_OK"
Test Objective	Check that MEC API provider sends a notification to the subscriber when an application LCM change event occurs
Reference	ETSI GS MEC 010-2 (V2.2.1) [3], clause 7.4.5.3.1 ETSI GS MEC 010-2 (V2.2.1) [3], table 6.2.2.11.2-1 ETSI GS MEC 010-2 (V2.2.1) [3], table 6.2.2.16.2-1 ETSI GS MEC 010-2 (V2.2.1) [3], table 6.2.2.27.2-1 ETSI GS MEC 010-2 (V2.2.1) [3], table 6.2.2.30.2-1
Configuration	Config_MEC_6
PICS Selection	PIC_APP_LCM_NOTIFICATIONS
Initial Conditions	
<pre>with { the IUT having a App_Instance_Subscription containing subscriptionType indicating value SUBSCRIPTION_TYPE, callbackUri indicating value CALLBACK_URI, _links containing self indicating value "/app_lcm/v1/subscriptions/{SUBSCRIPTION_ID}" }</pre>	
Expected Behaviour	
<pre>ensure that { when { the IUT generates a application_lcm_change_event containing notificationId set to NOTIFICATION_ID } then { the IUT sends a vPOST containing uri indicating value CALLBACK_URI, body containing Notification containing id set to NOTIFICATION_ID, notificationType set to NOTIFICATION_TYPE, subscriptionId set to SUBSCRIPTION_ID, timeStamp set to any_value, appInstanceId set to APP_INSTANCE_ID, appDId set to any_value, _links containing subscription set to "/app_lcm/v1/app_instances/{APP_INSTANCE_ID}" to the MEC_SUB entity } }</pre>	

6.3 MEC011

6.3.1 Services (SRV)

6.3.1.1 Application Service Availability Query (APPSAQ)

Table 6.3.1-1: TP_MEC_MEC011_SRV_APPSQAQ_001_OK

TP Id	"TP_MEC_MEC011_SRV_APPSQAQ_001_OK"
Test Objective	Check that the IUT responds with a list of available MEC services for a given application instance when queried by a MEC Application
Reference	ETSI GS MEC 011 (V2.2.1) [4], clause 8.2.6.3.1 https://forge.etsi.org/rep/mec/g011-app-enablement-api/-/blob/v2.2.1/MecServiceMgmtApi.yaml#components/schemas/ServiceInfo
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	
<pre>with { the IUT being_in idle_state and the IUT having a apps_instance containing</pre>	

<pre> instance_id indicating value APP_INSTANCE_ID } </pre>
Expected Behaviour
<pre> // MEC 011 2.2.1, clause 5.2.5 ensure that { when { the IUT receives a vGET containing uri indicating value "/mec_service_mgmt/v1/applications/{APP_INSTANCE_ID}/services" from the MEC_APP entity } then { // MEC 011 2.2.1, clause 8.2.6.3.1 the IUT sends a HTTP_RESPONSE containing status_code set to "200 OK" body containing ServiceInfo set to any_value // @TODO: Should be a list of ServiceInfos. How can we express it in TDL? to the MEC_APP entity } } </pre>

Table 6.3.1-2: TP_MEC_MEC011_SRV_APPSQAQ_001_BR

TP Id	"TP_MEC_MEC011_SRV_APPSQAQ_001_BR"
Test Objective	Check that the IUT responds with an error when a request with incorrect parameters is sent by a MEC Application
Reference	ETSI GS MEC 011 (V2.2.1) [4], clause 8.2.6.3.1
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	
<pre> with { the IUT being_in idle_state and the IUT having a apps_instance containing instance_id indicating value APP_INSTANCE_ID } </pre>	
Expected Behaviour	
<pre> // MEC 011 2.2.1, clause 5.2.5 ensure that { when { the IUT receives a vGET containing uri indicating value "/mec_service_mgmt/v1/applications/{APP_INSTANCE_ID}/services" query_parameters containing // Wrong parameter name should trigger an error response. instance_id indicating value any_value from the MEC_APP entity } then { // MEC 011 2.2.1, clause 8.2.6.3.1 the IUT sends a HTTP_RESPONSE containing status_code set to "400 Bad Request" to the MEC_APP entity } } </pre>	

Table 6.3.1-3: TP_MEC_MEC011_SRV_APPSQAQ_002_OK

TP Id	"TP_MEC_MEC011_SRV_APPSQAQ_002_OK"
Test Objective	Check that the IUT notifies the authorised relevant (subscribed) application instances when a new service for a given application instance is registered
Reference	ETSI GS MEC 011 (V2.2.1) [4], clause 8.2.6.3.4 https://forge.etsi.org/rep/mec/gs011-app-enablement-api/-/blob/v2.2.1/MecServiceMgmtApi.yaml#components/schemas/ServiceInfo
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES and PIC_NOTIFICATIONS
Initial Conditions	
<pre>with { the IUT being_in idle_state and the IUT having a apps_instance containing instance_id indicating value APP_INSTANCE_ID and the MEC_APP_Registrant being_in idle_state and the MEC_APP_Subscriber subscribed_to the MP1_SUBSCRIPTION_A }</pre>	
Expected Behaviour	
<pre>// MEC 011 2.2.1, clause 5.2.4 ensure that { when { the IUT receives a vPOST containing uri indicating value "/mec_service_mgmt/v1/applications/{APP_INSTANCE_ID}/services", body containing ServiceInfo containing serName indicating value SERVICE_NAME from the MEC_APP_Registrant entity } then { // MEC 011 2.2.1, clause 8.2.6.3.4 the IUT sends a HTTP_RESPONSE containing status_code set to "201 Created", Location set to LOCATION, body containing ServiceInfo containing serName set to SERVICE_NAME to the MEC_APP_Registrant entity and the IUT sends a notification_message containing body containing notificationType set to "SerAvailabilityNotification", services containing serName set to SERVICE_NAME _links containing subscription set to MP1_SUBSCRIPTION_A to the MEC_APP_Subscriber entity } }</pre>	

Table 6.3.1-4: TP_MEC_MEC011_SRV_APPSQAQ_002_BR

TP Id	"TP_MEC_MEC011_SRV_APPSQAQ_002_BR"
Test Objective	Check that the IUT responds with an error when a request with incorrect parameters is sent by a MEC Application
Reference	ETSI GS MEC 011 (V2.2.1) [4], clause 8.2.6.3.4
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	
<pre>with { the IUT being_in idle_state and the IUT having a apps_instance containing</pre>	

<pre> instance_id indicating value APP_INSTANCE_ID and the MEC_APP_Registrant being_in idle_state and the MEC_APP_Subscriber subscribed_to the MPI_SUBSCRIPTION_A } </pre>
Expected Behaviour
<pre> // MEC 011 2.2.1, clause 5.2.4 ensure that { when { the IUT receives a vPOST containing uri indicating value "/mec_service_mgmt/v1/applications/{APP_INSTANCE_ID}/services", body containing ServiceInfo containing // Wrong parameter name should trigger an error response. Name indicating value SERVICE_NAME from the MEC_APP_Registrant entity } then { // MEC 011 2.2.1, clause 8.2.6.3.4 the IUT sends a HTTP_RESPONSE containing status_code set to "400 Bad Request" to the MEC_APP_Registrant entity } } </pre>

Table 6.3.1-5: TP_MEC_MEC011_SRV_APPSQAQ_002_NF

TP Id	"TP_MEC_MEC011_SRV_APPSQAQ_002_NF"
Test Objective	Check that the IUT responds with an error when a request for an unknown URI is sent by a MEC Application
Reference	ETSI GS MEC 011 (V2.2.1) [4], clause 8.2.6.3.4
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	
<pre> with { the IUT being_in idle_state and the IUT "not" having a apps_instance containing instance_id indicating value NON_EXISTENT_APP_INSTANCE_ID and the MEC_APP_Registrant being_in idle_state and the MEC_APP_Subscriber subscribed_to the MPI_SUBSCRIPTION_A } </pre>	
Expected Behaviour	
<pre> // MEC 011 2.2.1, clause 5.2.4 ensure that { when { the IUT receives a vPOST containing uri indicating value "/mec_service_mgmt/v1/applications/{NON_EXISTENT_APP_INSTANCE_ID}/services", body containing ServiceInfo containing serName indicating value SERVICE_NAME from the MEC_APP_Registrant entity } then { // MEC 011 2.2.1, clause 8.2.6.3.4 the IUT sends a HTTP_RESPONSE containing status_code set to "404 Not Found" to the MEC_APP_Registrant entity } } </pre>	

Table 6.3.1-6: TP_MEC_MEC011_SRV_APPSQAQ_003_OK

TP Id	"TP_MEC_MEC011_SRV_APPSQAQ_003_OK"
Test Objective	Check that the IUT responds with the information on a specific service for a given application instance when queried by a MEC Application
Reference	ETSI GS MEC 011 (V2.2.1) [4], clause 8.2.7.3.1 https://forge.etsi.org/rep/mec/g011-app-enablement-api/-/blob/v2.2.1/MecServiceMgmtApi.yaml#components/schemas/ServiceInfo
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	
<pre>with { the IUT being_in idle_state and the IUT having a apps_instance containing instance_id indicating value APP_INSTANCE_ID and the IUT having a services_running containing service_id indicating value SERVICE_ID }</pre>	
Expected Behaviour	
<pre>// MEC 011 2.2.1, clause 5.2.5 ensure that { when { the IUT receives a vGET containing uri indicating value "/mec_service_mgmt/v1/applications/{APP_INSTANCE_ID}/services/{SERVICE_ID}" from the MEC_APP entity } then { // MEC 011 2.2.1, clause 8.2.7.3.1 the IUT sends a HTTP_RESPONSE containing status_code set to "200 OK" body containing ServiceInfo containing serInstanceId set to SERVICE_ID to the MEC_APP entity } }</pre>	

Table 6.3.1-7: TP_MEC_MEC011_SRV_APPSQAQ_003_NF

TP Id	"TP_MEC_MEC011_SRV_APPSQAQ_003_NF"
Test Objective	Check that the IUT responds with an error when a request for an unknown URI is sent by a MEC Application
Reference	ETSI GS MEC 011 (V2.2.1) [4], clause 8.2.7.3.1
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	
<pre>with { the IUT being_in idle_state and the IUT having a apps_instance containing instance_id indicating value APP_INSTANCE_ID and the IUT "not" having a services_running containing service_id indicating value NON_EXISTENT_SERVICE_ID }</pre>	
Expected Behaviour	
<pre>// MEC 011 2.2.1, clause 5.2.5 ensure that { when { the IUT receives a vGET containing uri indicating value "/mec_service_mgmt/v1/applications/{APP_INSTANCE_ID}/services/{NON_EXISTENT_SERVICE_ID}" from the MEC_APP entity } then {</pre>	

```

// MEC 011 2.2.1, clause 8.2.7.3.1
the IUT sends a HTTP_RESPONSE containing
    status_code set to "404 Not Found"

to the MEC_APP entity
}
}

```

Table 6.3.1-8: TP_MEC_MEC011_SRV_APPSQAQ_004_OK

TP Id	"TP_MEC_MEC011_SRV_APPSQAQ_004_OK"
Test Objective	Check that the IUT updates a service information for a given application instance when commanded by a MEC Application
Reference	ETSI GS MEC 011 (V2.2.1) [4], clause 8.2.7.3.2 https://forge.etsi.org/rep/mec/gs011-app-enablement-api/-/blob/v2.2.1/MecServiceMgmtApi.yaml#components/schemas/ServiceInfo
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	
<pre> with { the IUT being_in idle_state and the IUT having a apps_instance containing instance_id indicating value APP_INSTANCE_ID and the IUT having a services_running containing service_id indicating value SERVICE_ID } </pre>	
Expected Behaviour	
<pre> // MEC 011 2.2.1, clause 5.2.4 ensure that { when { the IUT receives a vPUT containing uri indicating value "/mec_service_mgmt/v1/applications/{APP_INSTANCE_ID}/services/{SERVICE_ID}", body containing ServiceInfo containing version indicating value NEW_VERSION from the MEC_APP entity } then { // MEC 011 2.2.1, clause 8.2.7.3.2 the IUT sends a HTTP_RESPONSE containing status_code set to "200 OK" body containing ServiceInfo containing version set to NEW_VERSION to the MEC_APP entity } } </pre>	

Table 6.3.1-9: TP_MEC_MEC011_SRV_APPSQAQ_004_BR

TP Id	"TP_MEC_MEC011_SRV_APPSQAQ_004_BR"
Test Objective	Check that the IUT responds with an error when a request with incorrect parameters is sent by a MEC Application
Reference	ETSI GS MEC 011 (V2.2.1) [4], clause 8.2.7.3.2
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	
<pre> with { the IUT being_in idle_state and the IUT having a apps_instance containing instance_id indicating value APP_INSTANCE_ID and </pre>	

<pre> the IUT having a services_running containing service_id indicating value SERVICE_ID } </pre>
Expected Behaviour
<pre> // MEC 011 2.2.1, clause 5.2.4 ensure that { when { the IUT receives a vPUT containing uri indicating value "/mec_service_mgmt/v1/applications/{APP_INSTANCE_ID}/services/{SERVICE_ID}", body containing ServiceInfo containing // Wrong parameter name should trigger an error response. a_version indicating value NEW_VERSION from the MEC_APP entity } then { // MEC 011 2.2.1, clause 8.2.7.3.2 the IUT sends a HTTP_RESPONSE containing status_code set to "400 Bad Request" to the MEC_APP entity } } </pre>

Table 6.3.1-10: TP_MEC_MEC011_SRV_APPSQAQ_004_NF

TP Id	"TP_MEC_MEC011_SRV_APPSQAQ_004_NF"
Test Objective	Check that the IUT responds with an error when a request for an unknown URI is sent by a MEC Application
Reference	ETSI GS MEC 011 (V2.2.1) [4], clause 8.2.7.3.2
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	
<pre> with { the IUT being_in idle_state and the IUT having a apps_instance containing instance_id indicating value APP_INSTANCE_ID and the IUT "not" having a services_running containing service_id indicating value NON_EXISTENT_SERVICE_ID } </pre>	
Expected Behaviour	
<pre> // MEC 011 2.2.1, clause 5.2.4 ensure that { when { the IUT receives a vPUT containing uri indicating value "/mec_service_mgmt/v1/applications/{APP_INSTANCE_ID}/services/{NON_EXISTENT_SERVICE_ID}", body containing ServiceInfo containing version indicating value NEW_VERSION from the MEC_APP entity } then { // MEC 011 2.2.1, clause 8.2.7.3.2 the IUT sends a HTTP_RESPONSE containing status_code set to "404 Not Found" to the MEC_APP entity } } </pre>	

6.3.1.2 Application Subscriptions (APPSUB)

Table 6.3.1-11: TP_MEC_MEC011_SRV_APPSUB_001_OK

TP Id	"TP_MEC_MEC011_SRV_APPSUB_001_OK"
Test Objective	Check that the IUT responds with a list of subscriptions for notifications on services availability when queried by a MEC Application
Reference	ETSI GS MEC 011 (V2.2.1) [4], clause 7.2.3.3.1 https://forge.etsi.org/rep/mec/gs011-app-enablement-api/-/blob/v2.2.1/MecAppSupportApi.yaml#components/schemas/MecAppSuptApiSubscriptionLinkList
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	
<pre>with { the IUT being_in idle_state and the IUT having a apps_instance containing instance_id indicating value APP_INSTANCE_ID }</pre>	
Expected Behaviour	
<pre>// MEC 011 2.2.1, clause 5.2.6 ensure that { when { the IUT receives a vGET containing uri indicating value "mec_app_support/v1/applications/{APP_INSTANCE_ID}/subscriptions" from the MEC_APP entity } then { // MEC 011 2.2.1, clause 7.2.3.3.1 the IUT sends a HTTP_RESPONSE containing status_code set to "200 OK" body containing SubscriptionLinkList set to any_value to the MEC_APP entity } }</pre>	

Table 6.3.1-12: TP_MEC_MEC011_SRV_APPSUB_001_NF

TP Id	"TP_MEC_MEC011_SRV_APPSUB_001_NF"
Test Objective	Check that the IUT responds with an error when a request for an unknown URI is sent by a MEC Application
Reference	ETSI GS MEC 011 (V2.2.1) [4], clause 7.2.3.3.1
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	
<pre>with { the IUT being_in idle_state and the IUT "not" having a apps_instance containing instance_id indicating value NON_EXISTENT_APP_INSTANCE_ID }</pre>	
Expected Behaviour	
<pre>// MEC 011 2.2.1, clause 5.2.6 ensure that { when { the IUT receives a vGET containing uri indicating value "mec_app_support/v1/applications/{NON_EXISTENT_APP_INSTANCE_ID}/subscriptions" from the MEC_APP entity } then { // MEC 011 2.2.1, clause 7.2.3.3.1 the IUT sends a HTTP_RESPONSE containing status_code set to "404 Not Found" to the MEC_APP entity } }</pre>	

```
}
}
```

Table 6.3.1-13: TP_MEC_MEC011_SRV_APPSUB_002_OK

TP Id	"TP_MEC_MEC011_SRV_APPSUB_002_OK"
Test Objective	Check that the IUT acknowledges the subscription by a MEC Application to notifications on termination events
Reference	ETSI GS MEC 011 (V2.2.1) [4], clause 7.2.3.3.4 https://forge.etsi.org/rep/mec/gs011-app-enablement-api/-/blob/v2.2.1/MecAppSupportApi.yaml#components/schemas/AppTerminationNotificationSubscription
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	
<pre>with { the IUT being_in idle_state and the IUT having a apps_instance containing instance_id indicating value APP_INSTANCE_ID }</pre>	
Expected Behaviour	
<pre>// MEC 011 2.2.1, clause 7.2.3.3.4 ensure that { when { the IUT receives a vPOST containing uri indicating value "mec_app_support/v1/applications/{APP_INSTANCE_ID}/subscriptions" body containing AppTerminationNotificationSubscription containing subscriptionType indicating value "AppTerminationNotificationSubscription", callbackReference indicating value some_uri from the MEC_APP entity } then { // MEC 011 2.2.1, clause 7.2.3.3.4 the IUT sends a HTTP_RESPONSE containing status_code set to "201 Created", Location set to LOCATION, body containing AppTerminationNotificationSubscription containing subscriptionType set to "AppTerminationNotificationSubscription", callbackReference set to some_uri to the MEC_APP entity } }</pre>	

Table 6.3.1-14: TP_MEC_MEC011_SRV_APPSUB_002_BR

TP Id	"TP_MEC_MEC011_SRV_APPSUB_002_BR"
Test Objective	Check that the IUT responds with an error when a request with incorrect parameters is sent by a MEC Application
Reference	ETSI GS MEC 011 (V2.2.1) [4], clause 7.2.3.3.4
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	
<pre>with { the IUT being_in idle_state and the IUT having a apps_instance containing instance_id indicating value APP_INSTANCE_ID }</pre>	
Expected Behaviour	
<pre>// MEC 011 2.2.1, clause 5.2.6.2 ensure that { when {</pre>	


```

the IUT receives a vPOST containing
  uri indicating value "mec_app_support/v1/applications/{APP_INSTANCE_ID}/subscriptions"
  body containing
    AppTerminationNotificationSubscription containing
      // Unknown value should trigger an error response.
      subscriptionType indicating value INVALID_SUBSCRIPTION_TYPE,
      callbackReference indicating value some_uri

from the MEC_APP entity
}
then {
  // MEC 011 2.2.1, clause 7.2.3.3.4
  the IUT sends a HTTP_RESPONSE containing
    status_code set to "400 Bad Request"

to the MEC_APP entity
}
}

```

Table 6.3.1-15: TP_MEC_MEC011_SRV_APPSUB_003_OK

TP Id	"TP_MEC_MEC011_SRV_APPSUB_003_OK"
Test Objective	Check that the IUT responds with the information on a specific subscription when queried by a MEC Application
Reference	ETSI GS MEC 011 (V2.2.1) [4], clause 7.2.4.3.1 https://forge.etsi.org/rep/mec/gs011-app-enablement-api/-/blob/v2.2.1/MecAppSupportApi.yaml#scmemas/AppTerminationNotificationSubscription
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	
<pre> with { the IUT being_in idle_state and the IUT having a apps_instance containing instance_id indicating value APP_INSTANCE_ID and the IUT having a subscriptions containing subscription_id indicating value SUBSCRIPTION_ID } </pre>	
Expected Behaviour	
<pre> // MEC 011 2.2.1, clause 5.2.6 ensure that { when { the IUT receives a vGET containing uri indicating value "mec_app_support/v1/applications/{APP_INSTANCE_ID}/subscriptions/{SUBSCRIPTION_ID}" from the MEC_APP entity } then { // MEC 011 2.2.1, clause 7.2.4.3.1 the IUT sends a HTTP_RESPONSE containing status_code set to "200 OK" body containing AppTerminationNotificationSubscription containing subscriptionType set to "AppTerminationNotificationSubscription" to the MEC_APP entity } } </pre>	

Table 6.3.1-16: TP_MEC_MEC011_SRV_APPSUB_003_NF

TP Id	"TP_MEC_MEC011_SRV_APPSUB_003_NF"
Test Objective	Check that the IUT responds with an error when a request for an URI that cannot be mapped to a valid resource URI is sent by a MEC Application
Reference	ETSI GS MEC 011 (V2.2.1) [4], clause 7.2.4.3.1
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	
<pre>with { the IUT being_in idle_state and the IUT having a apps_instance containing instance_id indicating value APP_INSTANCE_ID and the IUT "not" having a subscriptions containing subscription_id indicating value NON_EXISTENT_SUBSCRIPTION_ID }</pre>	
Expected Behaviour	
<pre>// MEC 011 2.2.1, clause 5.2.6 ensure that { when { the IUT receives a vGET containing uri indicating value "mec_app_support/v1/applications/{APP_INSTANCE_ID}/subscriptions/{NON_EXISTENT_SUBSCRIPTION_ID}" from the MEC_APP entity } then { // MEC 011 2.2.1, clause 7.2.4.3.1 the IUT sends a HTTP_RESPONSE containing status_code set to "404 Not Found" to the MEC_APP entity } }</pre>	

Table 6.3.1-17: TP_MEC_MEC011_SRV_APPSUB_004_OK

TP Id	"TP_MEC_MEC011_SRV_APPSUB_004_OK"
Test Objective	Check that the IUT acknowledges the unsubscribe from app termination event notifications when commanded by a MEC Application
Reference	ETSI GS MEC 011 (V2.2.1) [4], clause 7.2.4.3.5
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	
<pre>with { the IUT being_in idle_state and the IUT having a apps_instance containing instance_id indicating value APP_INSTANCE_ID and the IUT having a subscriptions containing subscription_id indicating value SUBSCRIPTION_ID }</pre>	
Expected Behaviour	
<pre>// MEC 011 2.2.1, clause 5.2.6 ensure that { when { the IUT receives a vDELETE containing uri indicating value "mec_app_support/v1/applications/{APP_INSTANCE_ID}/subscriptions/{SUBSCRIPTION_ID}" from the MEC_APP entity } then { // MEC 011 2.2.1, clause 7.2.4.3.5 the IUT sends a HTTP_RESPONSE containing status_code set to "204 No Content" to the MEC_APP entity } }</pre>	

```
}
}
```

Table 6.3.1-18: TP_MEC_MEC011_SRV_APPSUB_004_NF

TP Id	"TP_MEC_MEC011_SRV_APPSUB_004_NF"
Test Objective	Check that the IUT responds with an error when a request for an URI that cannot be mapped to a valid resource URI is sent by a MEC Application
Reference	ETSI GS MEC 011 (V2.2.1) [4], clause 7.2.4.3.5
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	
<pre>with { the IUT being_in idle_state and the IUT "not" having a apps_instance containing instance_id indicating value NON_EXISTENT_APP_INSTANCE_ID and the IUT having a subscriptions containing subscription_id indicating value SUBSCRIPTION_ID }</pre>	
Expected Behaviour	
<pre>// MEC 011 2.2.1, clause 5.2.6 ensure that { when { the IUT receives a vDELETE containing uri indicating value "mec_app_support/v1/applications/{NON_EXISTENT_APP_INSTANCE_ID}/subscriptions/{SUBSCRIPTION_ID}" from the MEC_APP entity } then { // MEC 011 2.2.1, clause 7.2.4.3.5 the IUT sends a HTTP_RESPONSE containing status_code set to "404 Not Found" to the MEC_APP entity } }</pre>	

6.3.1.3 Confirmation Tasks (CONFTASK)

Table 6.3.1-19: TP_MEC_MEC011_SRV_CONFTASK_001_OK

TP Id	"TP_MEC_MEC011_SRV_CONFTASK_001_OK"
Test Objective	Check that the IUT responds that it has completed the application level termination
Reference	ETSI GS MEC 011 (V2.2.1) [4], clause 7.2.11.3.4 https://forge.etsi.org/rep/mec/gs011-app-enablement-api/-/blob/v2.2.1/MecAppSupportApi.yaml#components/schemas/AppTerminationConfirmation
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	
<pre>with { the IUT being_in idle_state and the IUT having a apps_instance containing instance_id indicating value APP_INSTANCE_ID }</pre>	
Expected Behaviour	
<pre>// MEC 011 2.2.1, clause 5.2.3 ensure that { when { the IUT receives a vPOST containing uri indicating value "mec_app_support/v1/applications/{APP_INSTANCE_ID}/confirm_termination" body containing AppTerminationConfirmation containing operationAction indicating value "TERMINATING"</pre>	

```

    from the MEC_APP entity
  }
  then {
    // MEC 011 2.2.1, clause 7.2.11.3.4
    the IUT sends a HTTP_RESPONSE containing
      status_code set to "204 No Content"

    to the MEC_APP entity
  }
}

```

Table 6.3.1-20: TP_MEC_MEC011_SRV_CONFTASK_001_NF

TP Id	"TP_MEC_MEC011_SRV_CONFTASK_001_NF"
Test Objective	Check that the IUT responds with an error when a request for an operationAction is sent to an unknown application
Reference	ETSI GS MEC 011 (V2.2.1) [4], clause 7.2.11.3.4
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	
<pre> with { the IUT being_in idle_state and the IUT "not" having a apps_instance containing instance_id indicating value NON_EXSITENT_APP_INSTANCE_ID } </pre>	
Expected Behaviour	
<pre> // MEC 011 2.2.1, clause 5.2.8 ensure that { when { the IUT receives a vPOST containing uri indicating value "mec_app_support/v1/applications/{NON_EXSITENT_APP_INSTANCE_ID}/confirm_termination" body containing AppTerminationConfirmation containing operationAction indicating value "TERMINATING" from the MEC_APP entity } then { // MEC 011 2.2.1, clause 7.2.10.3.1 the IUT sends a HTTP_RESPONSE containing status_code set to "404 Not Found" to the MEC_APP entity } } </pre>	

Table 6.3.1-21: TP_MEC_MEC011_SRV_CONFTASK_002_OK

TP Id	"TP_MEC_MEC011_SRV_CONFTASK_002_OK"
Test Objective	Check that the IUT responds that the MEC application is up and running
Reference	ETSI GS MEC 011 (V2.2.1) [4], clause 7.2.12.3.4 https://forge.etsi.org/rep/mec/g011-app-enablement-api/-/blob/v2.2.1/MecAppSupportApi.yam#components/schemas/AppReadyConfirmation
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	
<pre> with { the IUT being_in idle_state and the IUT having a apps_instance containing instance_id indicating value APP_INSTANCE_ID } </pre>	
Expected Behaviour	
<pre> // MEC 011 2.2.1, clause 5.2.2 ensure that { </pre>	

```

when {
  the IUT receives a vPOST containing
    uri indicating value "mec_app_support/v1/applications/{APP_INSTANCE_ID}/confirm_ready"
    body containing
      AppReadyConfirmation containing
        indication indicating value "READY"

  from the MEC_APP entity
}
then {
  // MEC 011 2.2.1, clause 7.2.12.3.4
  the IUT sends a HTTP_RESPONSE containing
    status_code set to "204 No Content"

  to the MEC_APP entity
}
}

```

Table 6.3.1-22: TP_MEC_MEC011_SRV_CONFTASK_002_NF

TP Id	"TP_MEC_MEC011_SRV_CONFTASK_002_NF"
Test Objective	Check that the IUT responds with an error when a request for an indication is sent to an unknown application
Reference	ETSI GS MEC 011 (V2.2.1) [4], clause 7.2.12.3.4
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	
<pre> with { the IUT being_in idle_state and the IUT "not" having a apps_instance containing instance_id indicating value NON_EXSITENT_APP_INSTANCE_ID } </pre>	
Expected Behaviour	
<pre> // MEC 011 2.2.1, clause 5.2.8 ensure that { when { the IUT receives a vPOST containing uri indicating value "mec_app_support/v1/applications/{NON_EXSITENT_APP_INSTANCE_ID}/confirm_ready" body containing AppReadyConfirmation containing indication indicating value "READY" from the MEC_APP entity } then { // MEC 011 2.2.1, clause 7.2.12.3.4 the IUT sends a HTTP_RESPONSE containing status_code set to "404 Not Found" to the MEC_APP entity } } </pre>	

6.3.1.4 DNS rules (DNS)

Table 6.3.1-23: TP_MEC_MEC011_SRV_DNS_001_OK

TP Id	"TP_MEC_MEC011_SRV_DNS_001_OK"
Test Objective	Check that the IUT responds with a list of active DNS rules when queried by a MEC Application
Reference	ETSI GS MEC 011 (V2.2.1) [4], clause 7.2.9.3.1 https://forge.etsi.org/rep/mec/g011-app-enablement-api/-/blob/v2.2.1/MecAppSupportApi.yaml#components/schemas/DnsRule
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	
<pre>with { the IUT being_in idle_state and the IUT having a apps_instance containing instance_id indicating value APP_INSTANCE_ID }</pre>	
Expected Behaviour	
<pre>// MEC 011 2.2.1, clause 5.2.8 ensure that { when { the IUT receives a vGET containing uri indicating value "mec_app_support/v1/applications/{APP_INSTANCE_ID}/dns_rules" from the MEC_APP entity } then { // MEC 011 2.2.1, clause 7.2.9.3.1 the IUT sends a HTTP_RESPONSE containing status_code set to "200 OK" body containing DnsRule set to any_value //@TODO: Should be a list of DnsRules. How can this be expressed in TDL? to the MEC_APP entity } }</pre>	

Table 6.3.1-24: TP_MEC_MEC011_SRV_DNS_002_OK

TP Id	"TP_MEC_MEC011_SRV_DNS_002_OK"
Test Objective	Check that the IUT responds with the information on a specific DNS rule when queried by a MEC Application
Reference	ETSI GS MEC 011 (V2.2.1) [4], clause 7.2.10.3.1 https://forge.etsi.org/rep/mec/g011-app-enablement-api/-/blob/v2.2.1/MecAppSupportApi.yaml#components/schemas/DnsRule
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	
<pre>with { the IUT being_in idle_state and the IUT having a apps_instance containing instance_id indicating value APP_INSTANCE_ID and the IUT having a dns_rules containing rule_id indicating value DNS_RULE_ID }</pre>	
Expected Behaviour	
<pre>// MEC 011 2.2.1, clause 5.2.8 ensure that { when { the IUT receives a vGET containing uri indicating value "mec_app_support/v1/applications/{APP_INSTANCE_ID}/dns_rules/{DNS_RULE_ID}" from the MEC_APP entity } then {</pre>	

```

// MEC 011 2.2.1, clause 7.2.10.3.1
the IUT sends a HTTP_RESPONSE containing
  status_code set to "200 OK"
  body containing
    DnsRule containing
      dnsRuleId set to DNS_RULE_ID

to the MEC_APP entity
}
}

```

Table 6.3.1-25: TP_MEC_MEC011_SRV_DNS_002_NF

TP Id	"TP_MEC_MEC011_SRV_DNS_002_NF"
Test Objective	Check that the IUT responds with an error when a request for an unknown URI is sent by a MEC Application
Reference	ETSI GS MEC 011 (V2.2.1) [4], clause 7.2.10.3.1
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	
<pre> with { the IUT being_in idle_state and the IUT having a apps_instance containing instance_id indicating value APP_INSTANCE_ID and the IUT "not" having a dns_rules containing rule_id indicating value NON_EXISTENT_DNS_RULE_ID } </pre>	
Expected Behaviour	
<pre> // MEC 011 2.2.1, clause 5.2.8 ensure that { when { the IUT receives a vGET containing uri indicating value "mec_app_support/v1/applications/{APP_INSTANCE_ID}/dns_rules/{NON_EXISTENT_DNS_RULE_ID}" from the MEC_APP entity } then { // MEC 011 2.2.1, clause 7.2.10.3.1 the IUT sends a HTTP_RESPONSE containing status_code set to "404 Not Found" to the MEC_APP entity } } </pre>	

Table 6.3.1-26: TP_MEC_MEC011_SRV_DNS_003_OK

TP Id	"TP_MEC_MEC011_SRV_DNS_003_OK"
Test Objective	Check that the IUT updates a specific DNS rule when commanded by a MEC Application
Reference	ETSI GS MEC 011 (V2.2.1) [4], clause 7.2.10.3.2 https://forge.etsi.org/rep/mec/gs011-app-enablement-api/-/blob/v2.2.1/MecAppSupportApi.yaml#components/schemas/DnsRule
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	
<pre> with { the IUT being_in idle_state and the IUT having a apps_instance containing instance_id indicating value APP_INSTANCE_ID and the IUT having a dns_rules containing rule_id indicating value DNS_RULE_ID } </pre>	
Expected Behaviour	
<pre> // MEC 011 2.2.1, clause 5.2.8 ensure that { </pre>	

```

when {
  the IUT receives a vPUT containing
  uri indicating value
"mec_app_support/v1/applications/{APP_INSTANCE_ID}/dns_rules/{DNS_RULE_ID}",
  if_match indicating value PROPER_ETAG
  body containing
  dnsRuleId indicating value DNS_RULE_NAME,
  ipAddress indicating value SOME_IP_ADDRESS

  from the MEC_APP entity
}
then {
  // MEC 011 2.2.1, clause 7.2.10.3.2
  the IUT sends a HTTP_RESPONSE containing
  status_code set to "200 OK"
  body containing
  DnsRule containing
  dnsRuleId set to DNS_RULE_NAME,
  ipAddress set to SOME_IP_ADDRESS

  to the MEC_APP entity
}
}

```

Table 6.3.1-27: TP_MEC_MEC011_SRV_DNS_003_BR

TP Id	"TP_MEC_MEC011_SRV_DNS_003_BR"
Test Objective	Check that the IUT responds with an error when a request with incorrect parameters is sent by a MEC Application
Reference	ETSI GS MEC 011 (V2.2.1) [4], clause 7.2.10.3.2
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	
<pre> with { the IUT being_in idle_state and the IUT having a apps_instance containing instance_id indicating value APP_INSTANCE_ID and the IUT having a dns_rules containing rule_id indicating value DNS_RULE_ID } </pre>	
Expected Behaviour	
<pre> // MEC 011 2.2.1, clause 5.2.8 ensure that { when { the IUT receives a vPUT containing uri indicating value "mec_app_support/v1/applications/{APP_INSTANCE_ID}/dns_rules/{DNS_RULE_ID}", if_match indicating value PROPER_ETAG body containing dnsRuleId indicating value DNS_RULE_NAME, // Unknown parameter value should trigger an error response. state indicating value UNKNOWN_VALUE from the MEC_APP entity } then { // MEC 011 2.2.1, clause 7.2.10.3.2 the IUT sends a HTTP_RESPONSE containing status_code set to "400 Bad Request" to the MEC_APP entity } } </pre>	

Table 6.3.1-28: TP_MEC_MEC011_SRV_DNS_003_NF

TP Id	"TP_MEC_MEC011_SRV_DNS_003_NF"
Test Objective	Check that the IUT responds with an error when a request for an unknown URI is sent by a MEC Application
Reference	ETSI GS MEC 011 (V2.2.1) [4], clause 7.2.10.3.2
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	
<pre>with { the IUT being_in idle_state and the IUT having a apps_instance containing instance_id indicating value APP_INSTANCE_ID and the IUT "not" having a dns_rules containing rule_id indicating value NON_EXISTENT_DNS_RULE_ID }</pre>	
Expected Behaviour	
<pre>// MEC 011 2.2.1, clause 5.2.8 ensure that { when { the IUT receives a vPUT containing uri indicating value "mec_app_support/v1/applications/{APP_INSTANCE_ID}/dns_rules/{NON_EXISTENT_DNS_RULE_ID}", if_match indicating value PROPER_ETAG body containing dnsRuleId indicating value DNS_RULE_NAME, ipAddress indicating value SOME_IP_ADDRESS from the MEC_APP entity } then { // MEC 011 2.2.1, clause 7.2.10.3.2 the IUT sends a HTTP_RESPONSE containing status_code set to "404 Not Found" to the MEC_APP entity } }</pre>	

6.3.1.5 MEC Service Liveness (LIV)

Table 6.3.1-29: TP_MEC_MEC011_SRV_MSL_001_OK

TP Id	"TP_MEC_MEC011_SRV_MSL_001_OK"
Test Objective	Check that the IUT responds with the liveness of a MEC service instance when queried by a MEC Application
Reference	ETSI GS MEC 011 (V2.2.1) [4], clause 8.2.10.3.1
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	
<pre>with { the IUT being_in idle_state and the IUT having a services_running containing service_id indicating value SERVICE_ID, _links containing self set to "link/to/this/resource", liveness set to "link/to/individual/mecServiceLiveness" }</pre>	
Expected Behaviour	
<pre>// MEC 011 2.2.1, clause 5.2.12 ensure that { when { the IUT receives a vGET containing uri indicating value "link/to/individual/mecServiceLiveness"</pre>	

```

    from the MEC_APP entity
  }
  then {
    // MEC 011 2.2.1, clause 8.2.10.3.1
    the IUT sends a HTTP_RESPONSE containing
      status_code set to "200 OK"
      body containing
        ServiceLivenessInfo containing
          ServiceState set to "ACTIVE"

    to the MEC_APP entity
  }
}

```

Table 6.3.1-30: TP_MEC_MEC011_SRV_MSL_001_NF

TP Id	"TP_MEC_MEC011_SRV_MSL_001_NF"
Test Objective	Check that the IUT responds with an error when a request for an URI that cannot be mapped to a valid resource URI is sent by a MEC Application
Reference	ETSI GS MEC 011 (V2.2.1) [4], clause 8.2.10.3.1
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	
<pre> with { the IUT being_in idle_state and the IUT having a services_running containing service_id indicating value SERVICE_ID, _links containing self set to "link/to/this/resource", liveness set to "link/to/individual/mecServiceLiveness" } </pre>	
Expected Behaviour	
<pre> // MEC 011 2.2.1, clause 5.2.5 ensure that { when { the IUT receives a vGET containing uri indicating value "not_existing_link/to/individual/mecServiceLiveness" from the MEC_APP entity } then { // MEC 011 2.2.1, clause 8.2.10.3.1 the IUT sends a HTTP_RESPONSE containing status_code set to "404 Not Found" to the MEC_APP entity } } </pre>	

Table 6.3.1-31: TP_MEC_MEC011_SRV_MSL_002_OK

TP Id	"TP_MEC_MEC011_SRV_MSL_002_OK"
Test Objective	Check that the IUT updates the liveness of a MEC service instance when requested by a MEC Application
Reference	ETSI GS MEC 011 (V2.2.1) [4], clause 8.2.10.3.3
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	
<pre> with { the IUT being_in idle_state and the IUT having a services_running containing service_id indicating value SERVICE_ID, state set to "SUSPENDED", _links containing self set to "link/to/this/resource", </pre>	

<pre> liveness set to "link/to/individual/mecServiceLiveness" } </pre>
Expected Behaviour
<pre> // MEC 011 2.2.1, clause 5.2.12 ensure that { when { the IUT receives a vPATCH containing Uri indicating value "link/to/individual/mecServiceLiveness", body containing ServiceLivenessUpdate containing state set to "ACTIVE" from the MEC_APP entity } then { // MEC 011 2.2.1, clause 8.2.10.3.3 the IUT sends a HTTP_RESPONSE containing status_code set to "200 OK" body containing ServiceLivenessInfo containing state set to "ACTIVE" to the MEC_APP entity } } </pre>

Table 6.3.1-32: TP_MEC_MEC011_SRV_MSL_002_BR

TP Id	"TP_MEC_MEC011_SRV_MSL_002_BR"
Test Objective	Check that the IUT responds with an error when incorrect parameters were sent by a MEC Application
Reference	ETSI GS MEC 011 (V2.2.1) [4], clause 8.2.10.3.3
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	
<pre> with { the IUT being_in idle_state and the IUT having a services_running containing service_id indicating value SERVICE_ID, state set to "INACTIVE", _links containing self set to "link/to/this/resource", liveness set to "link/to/individual/mecServiceLiveness" } </pre>	
Expected Behaviour	
<pre> // MEC 011 2.2.1, clause 5.2.12 ensure that { when { the IUT receives a vPATCH containing Uri indicating value "link/to/individual/mecServiceLiveness", body containing ServiceLivenessInfo containing state set to "INACTIVE" from the MEC_APP entity } then { // MEC 011 2.2.1, clause 8.2.10.3.3 the IUT sends a HTTP_RESPONSE containing status_code set to "400 Bad Request" to the MEC_APP entity } } </pre>	

6.3.1.6 Service Availability Query (SAQ)

Table 6.3.1-33: TP_MEC_MEC011_SRV_SAQ_001_OK

TP Id	"TP_MEC_MEC011_SRV_SAQ_001_OK"
Test Objective	Check that the IUT responds with a list of available MEC services when queried by a MEC Application
Reference	ETSI GS MEC 011 (V2.2.1) [4], clause 8.2.3.3.1 https://forge.etsi.org/rep/mec/g011-app-enablement-api/-/blob/v2.2.1/MecServiceMgmtApi.yaml#components/schemas/ServiceInfo
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	
with { the IUT being_in idle_state }	
Expected Behaviour	
<pre>// MEC 011 2.2.1, clause 5.2.5 ensure that { when { the IUT receives a vGET containing uri indicating value"/mec_service_mgmt/v1/services" from the MEC_APP entity } then { // MEC 011 2.2.1, clause 8.2.3.3.1 the IUT sends a HTTP_RESPONSE containing status_code set to "200 OK" body containing ServiceInfo set to any_value // @TODO: It should be a list of ServiceInfos. How to express it in TDL? to the MEC_APP entity } }</pre>	

Table 6.3.1-34: TP_MEC_MEC011_SRV_SAQ_001_BR

TP Id	"TP_MEC_MEC011_SRV_SAQ_001_BR"
Test Objective	Check that the IUT responds with an error when incorrect parameters were sent by a MEC Application
Reference	ETSI GS MEC 011 (V2.2.1) [4], clause 8.2.3.3.1
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	
with { the IUT being_in idle_state }	
Expected Behaviour	
<pre>// MEC 011 2.2.1, clause 5.2.5 ensure that { when { the IUT receives a vGET containing uri indicating value"/mec_service_mgmt/v1/services" query_parameters containing // Wrong parameter name should trigger an error response. instance_id indicating value any_value from the MEC_APP entity } then { // MEC 011 2.2.1, clause 8.2.3.3.1 the IUT sends a HTTP_RESPONSE containing status_code set to "400 Bad Request" to the MEC_APP entity } }</pre>	

Table 6.3.1-35: TP_MEC_MEC011_SRV_SAQ_002_OK

TP Id	"TP_MEC_MEC011_SRV_SAQ_002_OK"
Test Objective	Check that the IUT responds with the information on a specific service when queried by a MEC Application
Reference	ETSI GS MEC 011 (V2.2.1) [4], clause 8.2.4.3.1 https://forge.etsi.org/rep/mec/gs011-app-enablement-api/-/blob/v2.2.1/MecServiceMgmtApi.yaml#components/schemas/ServiceInfo
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	
<pre>with { the IUT being_in idle_state and the IUT having a services_running containing service_id indicating value SERVICE_ID }</pre>	
Expected Behaviour	
<pre>// MEC 011 2.2.1, clause 5.2.5 ensure that { when { the IUT receives a vGET containing uri indicating value "/mec_service_mgmt/v1/services/{SERVICE_ID}" from the MEC_APP entity } then { // MEC 011 2.2.1, clause 8.2.4.3.1 the IUT sends a HTTP_RESPONSE containing status_code set to "200 OK" body containing ServiceInfo containing serInstanceId set to SERVICE_ID, _links containing self set to "link/to/resource", liveness set to "ACTIVE" to the MEC_APP entity } }</pre>	

Table 6.3.1-36: TP_MEC_MEC011_SRV_SAQ_002_NF

TP Id	"TP_MEC_MEC011_SRV_SAQ_002_NF"
Test Objective	Check that the IUT responds with an error when a request for an URI that cannot be mapped to a valid resource URI is sent by a MEC Application
Reference	ETSI GS MEC 011 (V2.2.1) [4], clause 8.2.4.3.1
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	
<pre>with { the IUT being_in idle_state and the IUT "not" having a services_running containing service_id indicating value NON_EXISTENT_SERVICE_ID }</pre>	
Expected Behaviour	
<pre>// MEC 011 2.2.1, clause 5.2.5 ensure that { when { the IUT receives a vGET containing uri indicating value "/mec_service_mgmt/v1/services/{NON_EXISTENT_SERVICE_ID}" from the MEC_APP entity } then { // MEC 011 2.2.1, clause 8.2.4.3.1 the IUT sends a HTTP_RESPONSE containing</pre>	

```

        status_code set to "404 Not Found"

    to the MEC_APP entity
}

```

6.3.1.7 Service Subscriptions (SRVSUB)

Table 6.3.1-37: TP_MEC_MEC011_SRV_SRVSUB_001_OK

TP Id	"TP_MEC_MEC011_SRV_SRVSUB_001_OK"
Test Objective	Check that the IUT responds with a list of subscriptions for notifications on services availability when queried by a MEC Application
Reference	ETSI GS MEC 011 (V2.2.1) [4], clause 8.2.8.3.1 https://forge.etsi.org/rep/mec/g011-app-enablement-api/-/blob/v2.2.1/MecServiceMgmtApi.yaml#components/schemas/SubscriptionLinkList
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	
<pre> with { the IUT being_in idle_state and the IUT having a apps_instance containing instance_id indicating value APP_INSTANCE_ID } </pre>	
Expected Behaviour	
<pre> // MEC 011 2.2.1, clause 5.2.6 ensure that { when { the IUT receives a vGET containing uri indicating value "mec_service_mgmt/v1/applications/{APP_INSTANCE_ID}/subscriptions" from the MEC_APP entity } then { // MEC 011 2.2.1, clause 8.2.8.3.1 the IUT sends a HTTP_RESPONSE containing status_code set to "200 OK" body containing SubscriptionLinkList containing _links containing self set to any_value to the MEC_APP entity } } </pre>	

Table 6.3.1-38: TP_MEC_MEC011_SRV_SRVSUB_001_NF

TP Id	"TP_MEC_MEC011_SRV_SRVSUB_001_NF"
Test Objective	Check that the IUT responds with an error when a request for an unknown URI is sent by a MEC Application
Reference	ETSI GS MEC 011 (V2.2.1) [4], clause 8.2.8.3.1
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	
<pre> with { the IUT being_in idle_state and the IUT "not" having a apps_instance containing instance_id indicating value NON_EXISTENT_APP_INSTANCE_ID } </pre>	
Expected Behaviour	
<pre> // MEC 011 2.2.1, clause 5.2.6 ensure that { when { the IUT receives a vGET containing </pre>	

```

        uri indicating value
"mec_service_mgmt/v1/applications/{NON_EXISTENT_APP_INSTANCE_ID}/subscriptions"

        from the MEC_APP entity
    }
    then {
        // MEC 011 2.2.1, clause 8.2.8.3.1
        the IUT sends a HTTP_RESPONSE containing
            status_code set to "404 Not Found"

        to the MEC_APP entity
    }
}

```

Table 6.3.1-39: TP_MEC_MEC011_SRV_SRVSUB_002_OK

TP Id	"TP_MEC_MEC011_SRV_SRVSUB_002_OK"
Test Objective	Check that the IUT acknowledges the subscription by a MEC Application to notifications on service availability events
Reference	ETSI GS MEC 011 (V2.2.1) [4], clause 8.2.8.3.4 https://forge.etsi.org/rep/mec/gs011-app-enablement-api/-/blob/v2.2.1/MecServiceMgmtApi.yaml#components/schemas/SerAvailabilityNotificationSubscription
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	
<pre> with { the IUT being_in idle_state and the IUT having a apps_instance containing instance_id indicating value APP_INSTANCE_ID } </pre>	
Expected Behaviour	
<pre> // MEC 011 2.2.1, clause 5.2.6.2 ensure that { when { the IUT receives a vPOST containing uri indicating value "mec_service_mgmt/v1/applications/{APP_INSTANCE_ID}/subscriptions" body containing SerAvailabilityNotificationSubscription containing subscriptionType indicating value "SerAvailabilityNotificationSubscription", callbackReference indicating value some_uri from the MEC_APP entity } then { // MEC 011 2.2.1, clause 8.2.8.3.4 the IUT sends a HTTP_RESPONSE containing status_code set to "201 Created", Location set to LOCATION, body containing SerAvailabilityNotificationSubscription containing subscriptionType set to "SerAvailabilityNotificationSubscription", callbackReference set to some_uri to the MEC_APP entity } } </pre>	

Table 6.3.1-40: TP_MEC_MEC011_SRV_SRVSUB_002_BR

TP Id	"TP_MEC_MEC011_SRV_SRVSUB_002_BR"
Test Objective	Check that the IUT responds with an error when a request with incorrect parameters is sent by a MEC Application
Reference	ETSI GS MEC 011 (V2.2.1) [4], clause 8.2.8.3.4
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	
<pre>with { the IUT being_in idle_state and the IUT having a apps_instance containing instance_id indicating value APP_INSTANCE_ID }</pre>	
Expected Behaviour	
<pre>// MEC 011 2.2.1, clause 5.2.6.2 ensure that { when { the IUT receives a vPOST containing uri indicating value "mec_service_mgmt/v1/applications/{APP_INSTANCE_ID}/subscriptions" body containing SerAvailabilityNotificationSubscription containing // Unknown value should trigger an error response. subscriptionType indicating value INVALID_SUBSCRIPTION, callbackReference indicating value some_uri from the MEC_APP entity } then { // MEC 011 2.2.1, clause 8.2.8.3.4 the IUT sends a HTTP_RESPONSE containing status_code set to "400 Bad Request" to the MEC_APP entity } }</pre>	

Table 6.3.1-41: TP_MEC_MEC011_SRV_SRVSUB_003_OK

TP Id	"TP_MEC_MEC011_SRV_SRVSUB_003_OK"
Test Objective	Check that the IUT responds with the information on a specific subscription when queried by a MEC Application
Reference	ETSI GS MEC 011 (V2.2.1) [4], clause 7.2.4.3.1 https://forge.etsi.org/rep/mec/gs011-app-enablement-api/-/blob/v2.2.1/MecServiceMgmtApi.yaml#components/schemas/SerAvailabilityNotificationSubscription
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	
<pre>with { the IUT being_in idle_state and the IUT having a apps_instance containing instance_id indicating value APP_INSTANCE_ID and the IUT having a subscriptions containing subscription_id indicating value SUBSCRIPTION_ID }</pre>	
Expected Behaviour	
<pre>// MEC 011 2.2.1, clause 5.2.6 ensure that { when { the IUT receives a vGET containing uri indicating value "mec_service_mgmt/v1/applications/{APP_INSTANCE_ID}/subscriptions/{SUBSCRIPTION_ID}" from the MEC_APP entity } then {</pre>	


```

// MEC 011 2.2.1, clause 7.2.4.3.1
the IUT sends a HTTP_RESPONSE containing
  status_code set to "200 OK"
  body containing
    SerAvailabilityNotificationSubscription containing
      subscriptionType set to "SerAvailabilityNotificationSubscription"

to the MEC_APP entity
}
}

```

Table 6.3.1-42: TP_MEC_MEC011_SRV_SRVSUB_003_NF

TP Id	"TP_MEC_MEC011_SRV_SRVSUB_003_NF"
Test Objective	Check that the IUT responds with an error when a request for an URI that cannot be mapped to a valid resource URI is sent by a MEC Application
Reference	ETSI GS MEC 011 (V2.2.1) [4], clause 7.2.4.3.1
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	
<pre> with { the IUT being_in idle_state and the IUT having a apps_instance containing instance_id indicating value APP_INSTANCE_ID and the IUT "not" having a subscriptions containing subscription_id indicating value NON_EXISTENT_SUBSCRIPTION_ID } </pre>	
Expected Behaviour	
<pre> // MEC 011 2.2.1, clause 5.2.6 ensure that { when { the IUT receives a vGET containing uri indicating value "mec_service_mgmt/v1/applications/{APP_INSTANCE_ID}/subscriptions/{NON_EXISTENT_SUBSCRIPTION_ID}" from the MEC_APP entity } then { // MEC 011 2.2.1, clause 7.2.4.3.1 the IUT sends a HTTP_RESPONSE containing status_code set to "404 Not Found" to the MEC_APP entity } } </pre>	

Table 6.3.1-43: TP_MEC_MEC011_SRV_SRVSUB_004_OK

TP Id	"TP_MEC_MEC011_SRV_SRVSUB_004_OK"
Test Objective	Check that the IUT acknowledges the unsubscribe from service availability event notifications when commanded by a MEC Application
Reference	ETSI GS MEC 011 (V2.2.1) [4], clause 7.2.4.3.5
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	
<pre> with { the IUT being_in idle_state and the IUT having a apps_instance containing instance_id indicating value APP_INSTANCE_ID and the IUT having a subscriptions containing subscription_id indicating value SUBSCRIPTION_ID } </pre>	

Expected Behaviour
<pre>// MEC 011 2.2.1, clause 5.2.6 ensure that { when { the IUT receives a vDELETE containing uri indicating value "mec_service_mgmt/v1/applications/{APP_INSTANCE_ID}/subscriptions/{SUBSCRIPTION_ID}" from the MEC_APP entity } then { // MEC 011 2.2.1, clause 7.2.4.3.5 the IUT sends a HTTP_RESPONSE containing status_code set to "204 No Content" to the MEC_APP entity } }</pre>

Table 6.3.1-44: TP_MEC_MEC011_SRV_SRVSUB_004_NF

TP Id	"TP_MEC_MEC011_SRV_SRVSUB_004_NF"
Test Objective	Check that the IUT responds with an error when a request for an URI that cannot be mapped to a valid resource URI is sent by a MEC Application
Reference	ETSI GS MEC 011 (V2.2.1) [4], clause 7.2.4.3.5
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	
<pre>with { the IUT being_in idle_state and the IUT having a apps_instance containing instance_id indicating value APP_INSTANCE_ID and the IUT "not" having a subscriptions containing subscription_id indicating value NOT_EXISTENT_SUBSCRIPTION_ID }</pre>	
Expected Behaviour	
<pre>// MEC 011 2.2.1, clause 5.2.6 ensure that { when { the IUT receives a vDELETE containing uri indicating value "mec_service_mgmt/v1/applications/{APP_INSTANCE_ID}/subscriptions/{NON_EXISTENT_SUBSCRIPTION_ID}" from the MEC_APP entity } then { // MEC 011 2.2.1, clause 7.2.4.3.5 the IUT sends a HTTP_RESPONSE containing status_code set to "404 Not Found" to the MEC_APP entity } }</pre>	

6.3.1.8 Timing capabilities (TIME)

Table 6.3.1-45: TP_MEC_MEC011_SRV_TIME_001_OK

TP Id	"TP_MEC_MEC011_SRV_TIME_001_OK"
Test Objective	Check that the IUT responds with timing capabilities when queried by a MEC Application
Reference	ETSI GS MEC 011 (V2.2.1) [4], clause 7.2.5.3.1 https://forge.etsi.org/rep/mec/g011-app-enablement-api/-/blob/v2.2.1/MecAppSupportApi.yaml#components/schemas/TimingCaps
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	
with { the IUT being_in idle_state }	
Expected Behaviour	
<pre>// MEC 011 2.2.1, clause 5.2.10.3 ensure that { when { the IUT receives a vGET containing uri indicating value "mec_app_support/v1/timing/timing_caps" from the MEC_APP entity } then { // MEC 011 2.2.1, clause 7.2.5.3.1 the IUT sends a HTTP_RESPONSE containing status_code set to "200 OK" body containing TimingCaps set to any_value to the MEC_APP entity } }</pre>	

Table 6.3.1-46: TP_MEC_MEC011_SRV_TIME_002_OK

TP Id	"TP_MEC_MEC011_SRV_TIME_002_OK"
Test Objective	Check that the IUT responds with current time when queried by a MEC Application
Reference	ETSI GS MEC 011 (V2.2.1) [4], clause 7.2.6.3.1 https://forge.etsi.org/rep/mec/g011-app-enablement-api/-/blob/v2.2.1/MecAppSupportApi.yaml#components/schemas/CurrentTime
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	
with { the IUT being_in idle_state }	
Expected Behaviour	
<pre>// MEC 011 2.2.1, clause 5.2.10.2 ensure that { when { the IUT receives a vGET containing uri indicating value "mec_app_support/v1/timing/current_time" from the MEC_APP entity } then { // MEC 011 2.2.1, clause 7.2.6.3.1 the IUT sends a HTTP_RESPONSE containing status_code set to "200 OK" body containing CurrentTime containing seconds set to CURRENT_TIME_SECONDS, nanoSeconds set to CURRENT_TIME_NANOSECONDS, timeSourceStatus set to TIME_SOURCE_STATUS } }</pre>	

```

    to the MEC_APP entity
  }
}

```

6.3.1.9 Traffic rules (TRAF)

Table 6.3.1-47: TP_MEC_MEC011_SRV_TRAF_001_OK

TP Id	"TP_MEC_MEC011_SRV_TRAF_001_OK"
Test Objective	Check that the IUT responds with a list of available traffic rules when queried by a MEC Application
Reference	ETSI GS MEC 011 (V2.2.1) [4], clause 7.2.7.3.1 https://forge.etsi.org/rep/mec/g011-app-enablement-api/-/blob/v2.2.1/MecAppSupportApi.yaml#components/schemas/TrafficRule
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	
<pre> with { the IUT being_in idle_state and the IUT having a apps_instance containing instance_id indicating value APP_INSTANCE_ID } </pre>	
Expected Behaviour	
<pre> // MEC 011 2.2.1, clause 5.2.7 ensure that { when { the IUT receives a vGET containing uri indicating value "mec_app_support/v1/applications/{APP_INSTANCE_ID}/traffic_rules" from the MEC_APP entity } then { // MEC 011 2.2.1, clause 7.2.7.3.1 the IUT sends a HTTP_RESPONSE containing status_code set to "200 OK" body containing TrafficRule set to any_value //@TODO: Should be a list of TrafficRules. How can this be expressed in TDL to the MEC_APP entity } } </pre>	

Table 6.3.1-48: TP_MEC_MEC011_SRV_TRAF_001_NF

TP Id	"TP_MEC_MEC011_SRV_TRAF_001_NF"
Test Objective	Check that the IUT responds with an error when a request for an unknown URI is sent by a MEC Application
Reference	ETSI GS MEC 011 (V2.2.1) [4], clause 7.2.7.3.1
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	
<pre> with { the IUT being_in idle_state and the IUT "not" having a apps_instance containing instance_id indicating value NON_EXISTENT_APP_INSTANCE_ID } </pre>	
Expected Behaviour	
<pre> // MEC 011 2.2.1, clause 5.2.7 ensure that { when { the IUT receives a vGET containing uri indicating value "mec_app_support/v1/applications/{NON_EXISTENT_APP_INSTANCE_ID}/traffic_rules" from the MEC_APP entity } } </pre>	

```

}
then {
  // MEC 011 2.2.1, clause 7.2.7.3.1
  the IUT sends a HTTP_RESPONSE containing
    status_code set to "404 Not Found"

  to the MEC_APP entity
}
}

```

Table 6.3.1-49: TP_MEC_MEC011_SRV_TRAF_002_OK

TP Id	"TP_MEC_MEC011_SRV_TRAF_002_OK"
Test Objective	Check that the IUT responds with the information on a specific traffic rule when queried by a MEC Application
Reference	ETSI GS MEC 011 (V2.2.1) [4], clause 7.2.8.3.1 https://forge.etsi.org/rep/mec/g011-app-enablement-api/-/blob/v2.2.1/MecAppSupportApi.yaml#components/schemas/TrafficRule
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	
<pre> with { the IUT being_in idle_state and the IUT having a apps_instance containing instance_id indicating value APP_INSTANCE_ID and the IUT having a traffic_rules containing rule_id indicating value TRAFFIC_RULE_ID } </pre>	
Expected Behaviour	
<pre> // MEC 011 2.2.1, clause 5.2.7 ensure that { when { the IUT receives a vGET containing uri indicating value "mec_app_support/v1/applications/{APP_INSTANCE_ID}/traffic_rules/{TRAFFIC_RULE_ID}" from the MEC_APP entity } then { // MEC 011 2.2.1, clause 7.2.8.3.1 the IUT sends a HTTP_RESPONSE containing status_code set to "200 OK" body containing TrafficRule containing trafficRuleId set to TRAFFIC_RULE_ID to the MEC_APP entity } } </pre>	

Table 6.3.1-50: TP_MEC_MEC011_SRV_TRAF_003_OK

TP Id	"TP_MEC_MEC011_SRV_TRAF_003_OK"
Test Objective	Check that the IUT updates a specific traffic rule when commanded by a MEC Application
Reference	ETSI GS MEC 011 (V2.2.1) [4], clause 7.2.8.3.2 https://forge.etsi.org/rep/mec/g011-app-enablement-api/-/blob/v2.2.1/MecAppSupportApi.yaml#components/schemas/TrafficRule
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	
<pre> with { the IUT being_in idle_state and the IUT having a apps_instance containing instance_id indicating value APP_INSTANCE_ID and the IUT having a traffic_rules containing </pre>	

<pre> rule_id indicating value TRAFFIC_RULE_ID } </pre>
Expected Behaviour
<pre> // MEC 011 2.2.1, clause 5.2.7 ensure that { when { the IUT receives a vPUT containing uri indicating value "mec_app_support/v1/applications/{APP_INSTANCE_ID}/traffic_rules/{TRAFFIC_RULE_ID}", body containing TrafficRule containing action indicating value "DROP" from the MEC_APP entity } then { // MEC 011 2.2.1, clause 7.2.8.3.2 the IUT sends a HTTP_RESPONSE containing status_code set to "200 OK" body containing TrafficRule containing trafficRuleId set to TRAFFIC_RULE_ID, action set to "DROP" to the MEC_APP entity } } </pre>

Table 6.3.1-51: TP_MEC_MEC011_SRV_TRAF_003_BR

TP Id	"TP_MEC_MEC011_SRV_TRAF_003_BR"
Test Objective	Check that the IUT responds with an error when a request with incorrect parameters is sent by a MEC Application
Reference	ETSI GS MEC 011 (V2.2.1) [4], clause 7.2.8.3.2
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	
<pre> with { the IUT being_in idle_state and the IUT having a apps_instance containing instance_id indicating value APP_INSTANCE_ID and the IUT having a traffic_rules containing rule_id indicating value TRAFFIC_RULE_ID } </pre>	
Expected Behaviour	
<pre> // MEC 011 2.2.1, clause 5.2.7 ensure that { when { the IUT receives a vPUT containing uri indicating value "mec_app_support/v1/applications/{APP_INSTANCE_ID}/traffic_rules/{TRAFFIC_RULE_ID}", body containing TrafficRule containing // Invalid parameter value should trigger an error response. action indicating value UNKNOWN_VALUE from the MEC_APP entity } then { // MEC 011 2.2.1, clause 7.2.8.3.2 the IUT sends a HTTP_RESPONSE containing status_code set to "400 Bad Request" to the MEC_APP entity } } </pre>	

```
}
}
```

Table 6.3.1-52: TP_MEC_MEC011_SRV_TRAF_003_NF

TP Id	"TP_MEC_MEC011_SRV_TRAF_003_NF"
Test Objective	Check that the IUT responds with an error when a request for an unknown URI is sent by a MEC Application
Reference	ETSI GS MEC 011 (V2.2.1) [4], clause 7.2.8.3.2
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	
<pre>with { the IUT being_in idle_state and the IUT having a apps_instance containing instance_id indicating value APP_INSTANCE_ID and the IUT "not" having a traffic_rules containing rule_id indicating value NON_EXISTENT_TRAFFIC_RULE_ID }</pre>	
Expected Behaviour	
<pre>// MEC 011 2.2.1, clause 5.2.7 ensure that { when { the IUT receives a vPUT containing uri indicating value "mec_app_support/v1/applications/{APP_INSTANCE_ID}/traffic_rules/{NON_EXISTENT_TRAFFIC_RULE_ID}", body containing TrafficRule containing action indicating value "DROP" from the MEC_APP entity } then { // MEC 011 2.2.1, clause 7.2.8.3.2 the IUT sends a HTTP_RESPONSE containing status_code set to "404 Not Found" to the MEC_APP entity } }</pre>	

6.3.1.10 Transport (TRANS)

Table 6.3.1-53: TP_MEC_MEC011_SRV_TRANS_001_OK

TP Id	"TP_MEC_MEC011_SRV_TRANS_001_OK"
Test Objective	Check that the IUT responds with a list of available transports when queried by a MEC Application
Reference	ETSI GS MEC 011 (V2.2.1) [4], clause 8.2.5.3.1 https://forge.etsi.org/rep/mec/gs011-app-enablement-api/-/blob/v2.2.1/MecServiceMgmtApi.yaml#components/schemas/TransportInfo
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	
<pre>with { the IUT being_in idle_state }</pre>	
Expected Behaviour	
<pre>// MEC 011 2.2.1, clause 5.2.9 ensure that { when { the IUT receives a vGET containing uri indicating value "mec_service_mgmt/v1/transports" from the MEC_APP entity }</pre>	

```

then {
  // MEC 011 2.2.1, clause 8.2.5.3.1
  the IUT sends a HTTP_RESPONSE containing
    status_code set to "200 OK"
    body containing
      TransportInfo set to any_value           // @TODO! Should be a TransportInfo list. How
to express this in TDL?

  to the MEC_APP entity
}
}

```

6.4 MEC012

6.4.1 Services (SRV)

6.4.1.1 Radio Network Information Service (RNIS)

Table 6.4.1-1: TP_MEC_MEC012_SRV_RNIS_001_OK

TP Id	"TP_MEC_MEC012_SRV_RNIS_001_OK"
Test Objective	Check that the RNIS service sends an RNIS notification about cell change if the RNIS service has an associated subscription and the event is generated
Reference	ETSI GS MEC 012 (V2.1.1) [5], clause 6.4.2 https://forge.etsi.org/rep/mec/g012-rnis-api/-/blob/v2.1.1/RniAPI.yaml
Configuration	Config_MEC_1
PICS Selection	PIC_RNIS_NOTIFICATIONS
Initial Conditions	
<pre> with { the IUT having a RNIS_subscription containing subscriptionType indicating value "CellChangeSubscription", callbackReference indicating value CALLBACK_URI, filterCriteriaAssocHo containing associateIdList containing associateId set to ASSOCIATE_ID } </pre>	
Expected Behaviour	
<pre> ensure that { when { the IUT generates a cell_change_event containing associateId set to ASSOCIATE_ID } then { the IUT sends a vPOST containing uri indicating value CALLBACK_URI, body containing notificationType indicating value "CellChangeNotification", associateId set to ASSOCIATE_ID, srcEcgi set to any_value, trgEcgi set to any_value, hoStatus set to any_value to the MEC_SUB entity } } </pre>	

Table 6.4.1-2: TP_MEC_MEC012_SRV_RNIS_002_OK

TP Id	"TP_MEC_MEC012_SRV_RNIS_002_OK"
Test Objective	Check that the RNIS service sends an RNIS notification about RAB establishment if the RNIS service has an associated subscription and the event is generated
Reference	ETSI GS MEC 012 (V2.1.1) [5], clause 6.4.3 https://forge.etsi.org/rep/mec/gs012-rnis-api/-/blob/v2.1.1/RniAPI.yaml
Configuration	Config_MEC_1
PICS Selection	PIC_RNIS_NOTIFICATIONS
Initial Conditions	
<pre>with { the IUT having a RNIS_subscription containing subscriptionType indicating value "RabEstSubscription", callbackReference indicating value CALLBACK_URI, filterCriteriaQci containing qci set to QCI }</pre>	
Expected Behaviour	
<pre>ensure that { when { the IUT generates a rab_establish_event containing erabQosParameters containing qci set to QCI } then { the IUT sends a vPOST containing uri indicating value CALLBACK_URI, body containing notificationType indicating value "RabEstNotification", ecgi set to any_value, erabId set to any_value, erabQosParameters containing qci set to QCI, attribute qosInformation to the MEC_SUB entity } }</pre>	

Table 6.4.1-3: TP_MEC_MEC012_SRV_RNIS_003_OK

TP Id	"TP_MEC_MEC012_SRV_RNIS_003_OK"
Test Objective	Check that the RNIS service sends an RNIS notification about RAB modification if the RNIS service has an associated subscription and the event is generated
Reference	ETSI GS MEC 012 (V2.1.1) [5], clause 6.4.4 https://forge.etsi.org/rep/mec/gs012-rnis-api/-/blob/v2.1.1/RniAPI.yaml
Configuration	Config_MEC_1
PICS Selection	PIC_RNIS_NOTIFICATIONS
Initial Conditions	
<pre>with { the IUT having a RNIS_subscription containing subscriptionType indicating value "RabModSubscription", callbackReference indicating value CALLBACK_URI, filterCriteriaQci containing erabId set to E_RAB_ID }</pre>	
Expected Behaviour	
<pre>ensure that { when { the IUT generates a rab_modification_event containing erabId set to E_RAB_ID } then { the IUT sends a vPOST containing uri indicating value CALLBACK_URI, body containing notificationType indicating value "RabModNotification",</pre>	

```

    ecgi set to any_value,
    erabId set to E_RAB_ID

    to the MEC_SUB entity
  }
}

```

Table 6.4.1-4: TP_MEC_MEC012_SRV_RNIS_004_OK

TP Id	"TP_MEC_MEC012_SRV_RNIS_004_OK"
Test Objective	Check that the RNIS service sends an RNIS notification about RAB release if the RNIS service has an associated subscription and the event is generated
Reference	ETSI GS MEC 012 (V2.1.1) [5], clause 6.4.5 https://forge.etsi.org/rep/mec/gs012-rnis-api/-/blob/v2.1.1/RniAPI.yaml
Configuration	Config_MEC_1
PICS Selection	PIC_RNIS_NOTIFICATIONS
Initial Conditions	
<pre> with { the IUT having a RNIS_subscription containing subscriptionType indicating value "RabRelSubscription", callbackReference indicating value CALLBACK_URI, filterCriteriaQci containing erabId set to E_RAB_ID } </pre>	
Expected Behaviour	
<pre> ensure that { when { the IUT generates a rab_release_event containing erabId set to E_RAB_ID } then { the IUT sends a vPOST containing uri indicating value CALLBACK_URI, body containing notificationType indicating value "RabRelNotification", ecgi set to any_value, erabReleaseInfo containing erabId set to E_RAB_ID to the MEC_SUB entity } } </pre>	

Table 6.4.1-5: TP_MEC_MEC012_SRV_RNIS_005_OK

TP Id	"TP_MEC_MEC012_SRV_RNIS_005_OK"
Test Objective	Check that the RNIS service sends an RNIS notification about UE measurement report if the RNIS service has an associated subscription and the event is generated
Reference	ETSI GS MEC 012 (V2.1.1) [5], clause 6.4.6 https://forge.etsi.org/rep/mec/gs012-rnis-api/-/blob/v2.1.1/RniAPI.yaml
Configuration	Config_MEC_1
PICS Selection	PIC_RNIS_NOTIFICATIONS
Initial Conditions	
<pre> with { the IUT having a RNIS_subscription containing subscriptionType indicating value "MeasRepUeSubscription", callbackReference indicating value CALLBACK_URI, filterCriteriaAssocTri containing ecgi set to ECGI } </pre>	
Expected Behaviour	
<pre> ensure that { when { the IUT generates a measurement_repost_event containing ecgi set to ECGI } } </pre>	

```

then {
  the IUT sends a vPOST containing
    uri indicating value CALLBACK_URI,
    body containing
      notificationType indicating value "MeasRepUeNotification",
      ecgi set to ECGI,
      rsrp set to any_value,
      rsrq set to any_value,
      trigger set to any_value

  to the MEC_SUB entity
}
}

```

Table 6.4.1-6: TP_MEC_MEC012_SRV_RNIS_006_OK

TP Id	"TP_MEC_MEC012_SRV_RNIS_006_OK"
Test Objective	Check that the RNIS service sends an RNIS notification about UE timing advance if the RNIS service has an associated subscription and the event is generated
Reference	ETSI GS MEC 012 (V2.1.1) [5], clause 6.4.7 https://forge.etsi.org/rep/mec/qs012-rnis-api/-/blob/v2.1.1/RniAPI.yaml
Configuration	Config_MEC_1
PICS Selection	PIC_RNIS_NOTIFICATIONS
Initial Conditions	
<pre> with { the IUT having a RNIS_subscription containing subscriptionType indicating value "MeasTaSubscription", callbackReference indicating value CALLBACK_URI, filterCriteriaAssoc containing ecgi set to ECGI } </pre>	
Expected Behaviour	
<pre> ensure that { when { the IUT generates a timing_advance_event containing ecgi set to ECGI } then { the IUT sends a vPOST containing uri indicating value CALLBACK_URI, body containing notificationType indicating value "MeasTaNotification", ecgi set to ECGI, timingAdvance set to any_value to the MEC_SUB entity } } </pre>	

Table 6.4.1-7: TP_MEC_MEC012_SRV_RNIS_007_OK

TP Id	"TP_MEC_MEC012_SRV_RNIS_007_OK"
Test Objective	Check that the RNIS service sends an RNIS notification about UE carrier aggregation reconfiguration if the RNIS service has an associated subscription and the event is generated
Reference	ETSI GS MEC 012 (V2.1.1) [5], clause 6.4.8 https://forge.etsi.org/rep/mec/qs012-rnis-api/-/blob/v2.1.1/RniAPI.yaml
Configuration	Config_MEC_1
PICS Selection	PIC_RNIS_NOTIFICATIONS
Initial Conditions	
<pre> with { the IUT having a RNIS_subscription containing subscriptionType indicating value "CaReconfSubscription", callbackReference indicating value CALLBACK_URI, filterCriteriaAssoc containing associateId set to ASSOCIATE_ID } </pre>	

Expected Behaviour
<pre> ensure that { when { the IUT generates a carrier_aggregation_reconfiguration_event containing associateId set to ASSOCIATE_ID } then { the IUT sends a vPOST containing uri indicating value CALLBACK_URI, body containing notificationType indicating value "CaReConfNotification", ecgi set to any_value, associateId set to ASSOCIATE_ID to the MEC_SUB entity } } </pre>

Table 6.4.1-8: TP_MEC_MEC012_SRV_RNIS_008_OK

TP Id	"TP_MEC_MEC012_SRV_RNIS_008_OK"
Test Objective	Check that the RNIS service sends an RNIS notification about S1-U bearer if the RNIS service has an associated subscription and the event is generated
Reference	ETSI GS MEC 012 (V2.1.1) [5], clause 6.4.10 https://forge.etsi.org/rep/mec/g012-rnis-api/-/blob/v2.1.1/RniAPI.yaml
Configuration	Config_MEC_1
PICS Selection	PIC_RNIS_NOTIFICATIONS
Initial Conditions	
<pre> with { the IUT having a RNIS_subscription containing subscriptionType indicating value "S1BearerSubscription", callbackReference indicating value CALLBACK_URI, s1BearerSubscriptionCriteria containing associateId set to ASSOCIATE_ID } </pre>	
Expected Behaviour	
<pre> ensure that { when { the IUT generates a S1_bearer_event containing associateId set to ASSOCIATE_ID } then { the IUT sends a vPOST containing uri indicating value CALLBACK_URI, body containing notificationType indicating value "S1BearerNotification", s1Event set to any_value, s1UeInfo containing associateId set to ASSOCIATE_ID, ecgi set to any_value, s1BearerInfo set to any_value to the MEC_SUB entity } } </pre>	

Table 6.4.1-9: TP_MEC_MEC012_SRV_RNIS_009_OK

TP Id	"TP_MEC_MEC012_SRV_RNIS_009_OK"
Test Objective	Check that the RNIS service sends an RNIS notification about 5G NR UE measurement report if the RNIS service has an associated subscription and the event is generated
Reference	ETSI GS MEC 012 (V2.1.1) [5], clause 6.4.11 https://forge.etsi.org/rep/mec/g012-rnis-api/-/blob/v2.1.1/RniAPI.yaml
Configuration	Config_MEC_1
PICS Selection	PIC_RNIS_NOTIFICATIONS
Initial Conditions	
<pre> with { the IUT having a RNIS_subscription containing </pre>	

<pre> subscriptionType indicating value "NrMeasRepUeSubscription", callbackReference indicating value CALLBACK_URI, filterCriteriaNrMrs indicating value FILTER_CRITERIA //the attributes of filterCriteriaNrMrs are FFS - ref. clause 6.3.11 } </pre>
Expected Behaviour
<pre> ensure that { when { the IUT generates a nr_measurement_repost_event containing associateId set to ASSOCIATE_ID //TBD - how to link this with the filter criteria } then { the IUT sends a vPOST containing uri indicating value CALLBACK_URI, body containing notificationType indicating value "NrMeasRepUeNotification", trigger set to any_value, associateId set to ASSOCIATE_ID to the MEC_SUB entity } } </pre>

Table 6.4.1-10: TP_MEC_MEC012_SRV_RNIS_010_OK

TP Id	"TP_MEC_MEC012_SRV_RNIS_010_OK"
Test Objective	Check that the RNIS service sends an RNIS notification on subscription expiration if the RNIS service has an associated subscription and the event is generated
Reference	ETSI GS MEC 012 (V2.1.1) [5], clause 6.4.9 https://forge.etsi.org/rep/mec/qs012-rnis-api/-/blob/v2.1.1/RniAPI.yaml
Configuration	Config_MEC_1
PICS Selection	PIC_RNIS_NOTIFICATIONS
Initial Conditions	
<pre> with { the IUT having a RNIS_subscription containing subscriptionType indicating value any_value, //VALID for all subscription types callbackReference indicating value CALLBACK_URI, _links containing self set to SUBSCRIPTION_HREF_VALUE , subscriptionId set to SUBSCRIPTION_ID, expiryDeadline set to EXPIRY_DEADLINE } </pre>	
Expected Behaviour	
<pre> ensure that { when { the IUT generates a expiry_notification_event containing subscriptionId set to SUBSCRIPTION_ID } then { the IUT sends a vPOST containing uri indicating value CALLBACK_URI, body containing notificationType indicating value "ExpiryNotification", //this field is not in the spec. - ref. clause 6.4.9 _link containing self set to SUBSCRIPTION_HREF_VALUE , expiryDeadline set to EXPIRY_DEADLINE to the MEC_SUB entity } } </pre>	

Table 6.4.1-11: TP_MEC_MEC012_SRV_RNIS_011_OK

TP Id	"TP_MEC_MEC012_SRV_RNIS_011_OK"
Test Objective	Check that the RNIS service sends the list of links to the relevant RNIS subscriptions when requested. Acceptable SUBSCRIPTION_TYPE are the following: <ul style="list-style-type: none"> • cell_change Cell Change • rab_est RAB Establishment • rab_mod RAB Modification • rab_rel RAB Release • meas_rep_ue UE Measurement Report • nr_meas_rep_ue 5G NR UE Measurement Report • timing_advance_ue UE Timing Advance • ca_reconf Carrier Aggregation Reconfig • s1_bearer S1 Bearer Notification
Reference	ETSI GS MEC 012 (V2.1.1) [5], clause 7.6.3.1 https://forge.etsi.org/rep/mec/g012-rnis-api/-/blob/v2.1.1/RniAPI.yaml#schemas/SubscriptionLinkList
Configuration	Config_MEC_1
PICS Selection	PIC_RNIS_ALL_SUBSCRIPTIONS
Initial Conditions	
<pre>with { the IUT having a RNIS_subscription containing subscriptionHref indicating value SUBSCRIPTION_HREF_VALUE, subscriptionType indicating value SUBSCRIPTION_TYPE }</pre>	
Expected Behaviour	
<pre>ensure that { when { the IUT receives a vGET containing uri indicating value "/rni/v2/subscriptions", query_parameters containing subscription_type indicating value SUBSCRIPTION_TYPE from the MEC_SUB entity } then { the IUT sends a HTTP_RESPONSE containing status set to "200 OK", body containing subscriptionLinkList containing subscription containing href indicating value SUBSCRIPTION_HREF_VALUE, subscriptionType indicating value SUBSCRIPTION_TYPE to the MEC_SUB entity } }</pre>	

Table 6.4.1-12: TP_MEC_MEC012_SRV_RNIS_011_BR

TP Id	"TP_MEC_MEC012_SRV_RNIS_011_BR"
Test Objective	Check that the RNIS service responds with an error when it receives a request to get all RNIS subscriptions with a wrong subscription type
Reference	ETSI GS MEC 012 (V2.1.1) [5], clause 7.6.3.1 https://forge.etsi.org/rep/mec/g012-rnis-api/-/blob/v2.1.1/RniAPI.yaml
Configuration	Config_MEC_1
PICS Selection	PIC_RNIS_ALL_SUBSCRIPTIONS
Initial Conditions	
<pre>with { the IUT having a RNIS_subscription containing subscriptionHref indicating value SUBSCRIPTION_HREF_VALUE, subscriptionType indicating value SUBSCRIPTION_TYPE }</pre>	

Expected Behaviour
<pre> ensure that { when { the IUT receives a vGET containing uri indicating value "/rni/v2/subscriptions", query_parameters containing subscriptionType indicating value "wrongSubscriptionType" //wrong subscription type from the MEC_SUB entity } then { the IUT sends a HTTP_RESPONSE containing status set to "400 Bad Request" to the MEC_SUB entity } } </pre>

Table 6.4.1-13: TP_MEC_MEC012_SRV_RNIS_012_OK

TP Id	"TP_MEC_MEC012_SRV_RNIS_012_OK"
Test Objective	<p>Check that the RNIS service creates a new RNIS subscription. Acceptable SUBSCRIPTION_TYPE are the following:</p> <ul style="list-style-type: none"> • CellChangeSubscription • RabEstSubscription • RabModSubscription • RabRelSubscription • MeasRepUeSubscription • MeasTaSubscription • CaReconfSubscription • S1BearerSubscription • NrMeasRepUeSubscription
Reference	ETSI GS MEC 012 (V2.1.1) [5], clause 7.6.3.4
Configuration	Config_MEC_1
PICS Selection	PIC_RNIS_ALL_SUBSCRIPTIONS
Initial Conditions	
<pre> with { the IUT being_in idle_state } </pre>	
Expected Behaviour	
<pre> ensure that { when { the IUT receives a vPOST containing uri indicating value "/rni/v2/subscriptions", body containing CellChangeSubscription containing subscriptionType indicating value SUBSCRIPTION_TYPE, callbackReference indicating value CALLBACK_URI from the MEC_SUB entity } then { the IUT sends a HTTP_RESPONSE containing status set to "201 Created", body containing CellChangeSubscription containing subscriptionType indicating value SUBSCRIPTION_TYPE, callbackReference indicating value CALLBACK_URI, attribute _links to the MEC_SUB entity } } </pre>	

Table 6.4.1-14: TP_MEC_MEC012_SRV_RNIS_012_BR

TP Id	"TP_MEC_MEC012_SRV_RNIS_012_BR"
Test Objective	Check that the RNIS service responds with an error when it receives a request to create a new RNIS subscription with a wrong format
Reference	ETSI GS MEC 012 (V2.1.1) [5], clause 7.6.3.4 https://forge.etsi.org/rep/mec/gs012-rnis-api/-/blob/v2.1.1/RniAPI.yaml#components/schemas/CellChangeSubscription
Configuration	Config_MEC_1
PICS Selection	PIC_RNIS_ALL_SUBSCRIPTIONS
Initial Conditions	
with { the IUT being_in idle_state }	
Expected Behaviour	
<pre> ensure that { when { the IUT receives a vPOST containing uri indicating value "/rni/v2/subscriptions", body containing CellChangeSubscription containing subscriptionType indicating value "CelCangeSubscription", //wrong subscription type callbackReference indicating value any_value, attribute filterCriteriaAssocHo, expiryDeadline set to any_value from the MEC_SUB entity } then { the IUT sends a HTTP_RESPONSE containing status set to "400 Bad Request" to the MEC_SUB entity } } </pre>	

Table 6.4.1-15: TP_MEC_MEC012_SRV_RNIS_013_OK

TP Id	"TP_MEC_MEC012_SRV_RNIS_013_OK"
Test Objective	Check that the RNIS service sends a RNIS subscription when requested. Acceptable SUBSCRIPTION_TYPE are the following: <ul style="list-style-type: none"> • CellChangeSubscription • RabEstSubscription • RabModSubscription • RabRelSubscription • MeasRepUeSubscription • MeasTaSubscription • CaReconfSubscription • S1BearerSubscription • NrMeasRepUeSubscription
Reference	ETSI GS MEC 012 (V2.1.1) [5], clause 7.8.3.1
Configuration	Config_MEC_1
PICS Selection	PIC_RNIS_SPECIFIC_SUBSCRIPTION
Initial Conditions	
with { the IUT having a RNIS_subscription containing subscriptionType indicating value SUBSCRIPTION_TYPE, callbackReference indicating value CALLBACK_URI, _links containing self set to "/rni/v2/subscriptions/{SUBSCRIPTION_ID}" }	
Expected Behaviour	
<pre> ensure that { when { the IUT receives a vGET containing uri indicating value "/rni/v2/subscriptions/{SUBSCRIPTION_ID}" from the MEC_SUB entity } } </pre>	


```

then {
  the IUT sends a HTTP_RESPONSE containing
    status set to "200 OK",
    body containing
      subscription containing
        subscriptionType indicating value SUBSCRIPTION_TYPE,
        callbackReference indicating value CALLBACK_URI,
        _links containing
          self set to "/rni/v2/subscriptions/{SUBSCRIPTION_ID}"

  to the MEC_SUB entity
}
}

```

Table 6.4.1-16: TP_MEC_MEC012_SRV_RNIS_013_NF

TP Id	"TP_MEC_MEC012_SRV_RNIS_013_NF"
Test Objective	Check that the RNIS service responds with error when a not existing RNIS subscription is requested
Reference	ETSI GS MEC 012 (V2.1.1) [5], clause 7.8.3.1 https://forge.etsi.org/rep/mec/gs012-rnis-api/-/blob/v2.1.1/RniAPI.yaml
Configuration	Config_MEC_1
PICS Selection	PIC_RNIS_SPECIFIC_SUBSCRIPTION
Initial Conditions	
<pre> with { the IUT "not" having a RNIS_subscription containing _links containing self set to "/rni/v2/subscriptions/{NON_EXISTENT_SUBSCRIPTION_ID}" } </pre>	
Expected Behaviour	
<pre> ensure that { when { the IUT receives a vGET containing uri indicating value "/rni/v2/subscription/{NON_EXISTENT_SUBSCRIPTION_ID}" from the MEC_SUB entity } then { the IUT sends a HTTP_RESPONSE containing status set to "404 Not Found" to the MEC_SUB entity } } </pre>	

Table 6.4.1-17: TP_MEC_MEC012_SRV_RNIS_014_OK

TP Id	"TP_MEC_MEC012_SRV_RNIS_014_OK"
Test Objective	Check that the RNIS service modifies a RNIS subscription when requested
Reference	ETSI GS MEC 012 (V2.1.1) [5], clause 7.8.3.2
Configuration	Config_MEC_1
PICS Selection	PIC_RNIS_SPECIFIC_SUBSCRIPTION
Initial Conditions	
<pre> with { the IUT having a RNIS_subscription containing subscriptionType indicating value SUBSCRIPTION_TYPE, callbackReference indicating value CALLBACK_URI, _links containing self set to "/rni/v2/subscriptions/{SUBSCRIPTION_ID}" } </pre>	
Expected Behaviour	
<pre> ensure that { when { the IUT receives a vPUT containing uri indicating value "/rni/v2/subscriptions/{SUBSCRIPTION_ID}", body containing subscription containing </pre>	

```

        subscriptionType indicating value SUBSCRIPTION_TYPE,
        callbackReference indicating value NEW_CALLBACK_URI,
        _links containing
            self set to "/rni/v2/subscriptions/{SUBSCRIPTION_ID}"

    from the MEC_SUB entity
}
then {
    the IUT sends a HTTP_RESPONSE containing
        status set to "200 OK",
        body containing
            subscription containing
                subscriptionType indicating value SUBSCRIPTION_TYPE,
                callbackReference indicating value NEW_CALLBACK_URI,
                _links containing
                    self set to "/rni/v2/subscriptions/{SUBSCRIPTION_ID}"

    to the MEC_SUB entity
}
}

```

Table 6.4.1-18: TP_MEC_MEC012_SRV_RNIS_014_BR

TP Id	"TP_MEC_MEC012_SRV_RNIS_014_BR"
Test Objective	Check that the RNIS service sends an error when it receives a malformed modify request for a RNIS subscription
Reference	ETSI GS MEC 012 (V2.1.1) [5], clause 7.8.3.2 https://forge.etsi.org/rep/mec/g012-rnis-api/-/blob/v2.1.1/RniAPI.yaml#components/schemas/CellChangeSubscription
Configuration	Config_MEC_1
PICS Selection	PIC_RNIS_SPECIFIC_SUBSCRIPTION
Initial Conditions	
<pre> with { the IUT having a RNIS_subscription containing subscriptionType indicating value "CellChangeSubscription", callbackReference indicating value CALLBACK_URI, _links containing self set to "/rni/v2/subscriptions/{SUBSCRIPTION_ID}" } </pre>	
Expected Behaviour	
<pre> ensure that { when { the IUT receives a vPUT containing uri indicating value "/rni/v2/subscriptions/{SUBSCRIPTION_ID}", body containing subscription containing callbackRefer indicating value NEW_CALLBACK_URI, //wrong field, it should be callbackReference _links containing self set to "/rni/v2/subscriptions/{SUBSCRIPTION_ID}" from the MEC_SUB entity } then { the IUT sends a HTTP_RESPONSE containing status set to "400 Bad Request" to the MEC_SUB entity } } </pre>	

Table 6.4.1-19: TP_MEC_MEC012_SRV_RNIS_014_NF

TP Id	"TP_MEC_MEC012_SRV_RNIS_014_NF"
Test Objective	Check that the RNIS service responds with error when a modification for a not existing RNIS subscription is requested
Reference	ETSI GS MEC 012 (V2.1.1) [5], clause 7.8.3.2 https://forge.etsi.org/rep/mec/gs012-rnis-api/-/blob/v2.1.1/RniAPI.yaml
Configuration	Config_MEC_1
PICS Selection	PIC_RNIS_SPECIFIC_SUBSCRIPTION
Initial Conditions	
<pre>with { the IUT "not" having a RNIS_subscription containing _links containing self set to "/rni/v2/subscriptions/{NON_EXISTENT_SUBSCRIPTION_ID}" }</pre>	
Expected Behaviour	
<pre>ensure that { when { the IUT receives a vPUT containing uri indicating value "/rni/v2/subscription/{NON_EXISTENT_SUBSCRIPTION_ID}" from the MEC_SUB entity } then { the IUT sends a HTTP_RESPONSE containing status set to "404 Not Found" to the MEC_SUB entity } }</pre>	

Table 6.4.1-20: TP_MEC_MEC012_SRV_RNIS_015_OK

TP Id	"TP_MEC_MEC012_SRV_RNIS_015_OK"
Test Objective	Check that the RNIS service deletes a RNIS subscription when requested
Reference	ETSI GS MEC 012 (V2.1.1) [5], clause 7.8.3.5
Configuration	Config_MEC_1
PICS Selection	PIC_RNIS_SPECIFIC_SUBSCRIPTION
Initial Conditions	
<pre>with { the IUT having a RNIS_subscription containing callbackReference indicating value CALLBACK_URI, _links containing self set to "/rni/v2/subscriptions/{SUBSCRIPTION_ID}" }</pre>	
Expected Behaviour	
<pre>ensure that { when { the IUT receives a vDELETE containing uri indicating value "/rni/v2/subscriptions/{SUBSCRIPTION_ID}" from the MEC_SUB entity } then { the IUT sends a HTTP_RESPONSE containing status set to "204 No Content" to the MEC_SUB entity } }</pre>	

Table 6.4.1-21: TP_MEC_MEC012_SRV_RNIS_015_NF

TP Id	"TP_MEC_MEC012_SRV_RNIS_015_NF"
Test Objective	Check that the RNIS service responds with error when the deletion of a not existing RNIS subscription is requested
Reference	ETSI GS MEC 012 (V2.1.1) [5], clause 7.8.3.5 https://forge.etsi.org/rep/mec/g012-rnis-api/-/blob/v2.1.1/RniAPI.yaml
Configuration	Config_MEC_1
PICS Selection	PIC_RNIS_SPECIFIC_SUBSCRIPTION
Initial Conditions	
<pre>with { the IUT "not" having a RNIS_subscription containing _links containing self set to "/rni/v2/subscriptions/{NON_EXISTENT_SUBSCRIPTION_ID}" }</pre>	
Expected Behaviour	
<pre>ensure that { when { the IUT receives a vDELETE containing uri indicating value "/rni/v2/subscription/{NON_EXISTENT_SUBSCRIPTION_ID}" from the MEC_SUB entity } then { the IUT sends a HTTP_RESPONSE containing status set to "404 Not Found" to the MEC_SUB entity } }</pre>	

Table 6.4.1-22: TP_MEC_MEC012_SRV_RNIS_016_OK

TP Id	"TP_MEC_MEC012_SRV_RNIS_016_OK"
Test Objective	Check that the RNIS service returns the RAB information when requested
Reference	ETSI GS MEC 012 (V2.1.1) [5], clause 7.3.3.1 https://forge.etsi.org/rep/mec/g012-rnis-api/-/blob/v2.1.1/RniAPI.yaml#components/schemas/RabInfo
Configuration	Config_MEC_1
PICS Selection	PIC_RNIS_QUERY
Initial Conditions	
<pre>with { the IUT having a RabInfo containing cellUserInfo containing ecgi indicating value CELL_ID }</pre>	
Expected Behaviour	
<pre>ensure that { when { the IUT receives a vGET containing uri indicating value "/rni/v2/queries/rab_info", query_parameters containing cell_id indicating value CELL_ID from the RNIS_CLIENT entity } then { the IUT sends a HTTP_RESPONSE containing status set to "200 OK", body containing RabInfo containing appInstanceId set to any_value, requestId set to any_value, cellUserInfo containing ecgi indicating value CELL_ID, attribute ueInfo to the RNIS_CLIENT entity } }</pre>	

```
}
}
```

Table 6.4.1-23: TP_MEC_MEC012_SRV_RNIS_016_BR

TP Id	"TP_MEC_MEC012_SRV_RNIS_016_BR"
Test Objective	Check that the RNIS service returns an error when the RAB information is requested with a malformed message
Reference	ETSI GS MEC 012 (V2.1.1) [5], clause 7.3.3.1 https://forge.etsi.org/rep/mec/g012-rnis-api/-/blob/v2.1.1/RniAPI.yaml#/RabInfo
Configuration	Config_MEC_1
PICS Selection	PIC_RNIS_QUERY
Initial Conditions	
<pre>with { the IUT having a RabInfo containing cellUserInfo containing ecgi indicating value CELL_ID }</pre>	
Expected Behaviour	
<pre>ensure that { when { the IUT receives a vGET containing uri indicating value "/rni/v2/queries/rab_info", query_parameters containing cId indicating value C_ID //wrong parameter from the RNIS_CLIENT entity } then { the IUT sends a HTTP_RESPONSE containing status set to "400 Bad Request" to the RNIS_CLIENT entity } }</pre>	

Table 6.4.1-24: TP_MEC_MEC012_SRV_RNIS_016_NF

TP Id	"TP_MEC_MEC012_SRV_RNIS_016_NF"
Test Objective	Check that the RNIS service returns an error when the RAB information for a not existing element is requested
Reference	ETSI GS MEC 012 (V2.1.1) [5], clause 7.3.3.1 https://forge.etsi.org/rep/mec/g012-rnis-api/-/blob/v2.1.1/RniAPI.yaml#/components/schemas/RabInfo
Configuration	Config_MEC_1
PICS Selection	PIC_RNIS_QUERY
Initial Conditions	
<pre>with { the IUT "not" having a RabInfo containing cellUserInfo containing ecgi indicating value CELL_ID }</pre>	
Expected Behaviour	
<pre>ensure that { when { the IUT receives a vGET containing uri indicating value "/rnis/v2/query/rab_info", query_parameters containing cell_id indicating value CELL_ID from the RNIS_CLIENT entity } then { the IUT sends a HTTP_RESPONSE containing status set to "404 Not Found" to the RNIS_CLIENT entity } }</pre>	

Table 6.4.1-25: TP_MEC_MEC012_SRV_RNIS_017_OK

TP Id	"TP_MEC_MEC012_SRV_RNIS_017_OK"
Test Objective	Check that the RNIS service returns the PLMN information when requested
Reference	ETSI GS MEC 012 (V2.1.1) [5], clause 7.4.3.1 https://forge.etsi.org/rep/mec/g012-rnis-api/-/blob/v2.1.1/RniAPI.yaml#components/schemas/PlmnInfo
Configuration	Config_MEC_1
PICS Selection	PIC_RNIS_QUERY
Initial Conditions	
<pre>with { the IUT having a PlmnInfo containing appInstanceId indicating value APP_INSTANCE_INFO }</pre>	
Expected Behaviour	
<pre>ensure that { when { the IUT receives a vGET containing uri indicating value "/rni/v2/queries/plmn_info", query_parameters containing app_ins_id indicating value APP_INS_ID from the RNIS_CLIENT entity } then { the IUT sends a HTTP_RESPONSE containing status set to "200 OK", body containing PlmnInfo containing appInstanceId indicating value APP_INS_ID, attribute plmn to the RNIS_CLIENT entity } }</pre>	

Table 6.4.1-26: TP_MEC_MEC012_SRV_RNIS_017_BR

TP Id	"TP_MEC_MEC012_SRV_RNIS_017_BR"
Test Objective	Check that the RNIS service returns an error when the PLMN information is requested with a malformed message
Reference	ETSI GS MEC 012 (V2.1.1) [5], clause 7.4.3.1 https://forge.etsi.org/rep/mec/g012-rnis-api/-/blob/v2.1.1/RniAPI.yaml#components/schemas/PlmnInfo
Configuration	Config_MEC_1
PICS Selection	PIC_RNIS_QUERY
Initial Conditions	
<pre>with { the IUT having a PlmnInfo containing appInstanceId indicating value APP_INSTANCE_INFO }</pre>	
Expected Behaviour	
<pre>ensure that { when { the IUT receives a vGET containing uri indicating value "/rni/v2/queries/plmn_info", query_parameters containing cId indicating value C_ID //wrong parameter from the RNIS_CLIENT entity } then { the IUT sends a HTTP_RESPONSE containing status set to "400 Bad Request" to the RNIS_CLIENT entity } }</pre>	

Table 6.4.1-27: TP_MEC_MEC012_SRV_RNIS_017_NF

TP Id	"TP_MEC_MEC012_SRV_RNIS_017_NF"
Test Objective	Check that the RNIS service returns an error when the PLMN information for a not existing element is requested
Reference	ETSI GS MEC 012 (V2.1.1) [5], clause 7.4.3.1 https://forge.etsi.org/rep/mec/gs012-rnis-api/-/blob/v2.1.1/RniAPI.yaml#components/schemas/PlmnInfo
Configuration	Config_MEC_1
PICS Selection	PIC_RNIS_QUERY
Initial Conditions	
<pre>with { the IUT "not" having a PlmnInfo containing appInstanceId indicating value NOT_EXISTENT_APP_INSTANCE_ID }</pre>	
Expected Behaviour	
<pre>ensure that { when { the IUT receives a vGET containing uri indicating value "/rnis/v2/query/plmn_info", query_parameters containing appInstanceId indicating value NOT_EXISTENT_APP_INSTANCE_ID from the RNIS_CLIENT entity } then { the IUT sends a HTTP_RESPONSE containing status set to "404 Not Found" to the RNIS_CLIENT entity } }</pre>	

Table 6.4.1-28: TP_MEC_MEC012_SRV_RNIS_018_OK

TP Id	"TP_MEC_MEC012_SRV_RNIS_018_OK"
Test Objective	Check that the RNIS service returns the S1 bearer information
Reference	ETSI GS MEC 012 (V2.1.1) [5], clause 7.5.3.1 https://forge.etsi.org/rep/mec/gs012-rnis-api/-/blob/v2.1.1/RniAPI.yaml#components/schemas/S1BearerInfo
Configuration	Config_MEC_1
PICS Selection	PIC_RNIS_QUERY
Initial Conditions	
<pre>with { the IUT having a S1BearerInfo containing s1UeInfo containing ecgi indicating value CELL_ID }</pre>	
Expected Behaviour	
<pre>ensure that { when { the IUT receives a vGET containing uri indicating value "/rni/v2/queries/s1_bearer_info", query_parameters containing cell_id indicating value CELL_ID from the RNIS_CLIENT entity } then { the IUT sends a HTTP_RESPONSE containing status set to "200 OK", body containing S1BearerInfo containing s1UeInfo containing attribute tempUeId, attribute associateId, ecgi indicating value CELL_ID, attribute s1BearerInfoDetailed } }</pre>	

```

    to the RNIS_CLIENT entity
  }
}

```

Table 6.4.1-29: TP_MEC_MEC012_SRV_RNIS_018_BR

TP Id	"TP_MEC_MEC012_SRV_RNIS_018_BR"
Test Objective	Check that the RNIS service returns an error when the S1 bearer information is requested with a malformed message
Reference	ETSI GS MEC 012 (V2.1.1) [5], clause 7.5.3.1 https://forge.etsi.org/rep/mec/gs012-rnis-api/-/blob/v2.1.1/RniAPI.yaml#components/schemas/S1BearerInfo
Configuration	Config_MEC_1
PICS Selection	PIC_RNIS_QUERY
Initial Conditions	
<pre> with { the IUT having a S1BearerInfo containing slUeInfo containing ecgi indicating value CELL_ID } </pre>	
Expected Behaviour	
<pre> ensure that { when { the IUT receives a vGET containing uri indicating value "/rni/v2/queries/sl_bearer_info", query_parameters containing cId indicating value C_ID //wrong parameter from the RNIS_CLIENT entity } then { the IUT sends a HTTP_RESPONSE containing status set to "400 Bad Request" to the RNIS_CLIENT entity } } </pre>	

Table 6.4.1-30: TP_MEC_MEC012_SRV_RNIS_018_NF

TP Id	"TP_MEC_MEC012_SRV_RNIS_018_NF"
Test Objective	Check that the RNIS service returns an error when the S1 bearer information for a not existing element is requested
Reference	ETSI GS MEC 012 (V2.1.1) [5], clause 7.5.3.1 https://forge.etsi.org/rep/mec/gs012-rnis-api/-/blob/v2.1.1/RniAPI.yaml#components/schemas/S1BearerInfo
Configuration	Config_MEC_1
PICS Selection	PIC_RNIS_QUERY
Initial Conditions	
<pre> with { the IUT "not" having a S1BearerInfo containing slUeInfo containing ecgi indicating value NOT_EXISTENT_CELL_ID } </pre>	
Expected Behaviour	
<pre> ensure that { when { the IUT receives a vGET containing uri indicating value "/rnis/v2/query/sl_bearer_info", query_parameters containing cell_id indicating value NOT_EXISTENT_CELL_ID from the RNIS_CLIENT entity } then { the IUT sends a HTTP_RESPONSE containing status set to "404 Not Found" } } </pre>	


```

    to the RNIS_CLIENT entity
  }
}

```

Table 6.4.1-31: TP_MEC_MEC012_SRV_RNIS_019_OK

TP Id	"TP_MEC_MEC012_SRV_RNIS_019_OK"
Test Objective	Check that the RNIS service returns the L2 measurements information
Reference	ETSI GS MEC 012 (V2.1.1) [5], clause 7.5a.3.1 https://forge.etsi.org/rep/mec/g012-rnis-api/-/blob/v2.1.1/RniAPI.yaml
Configuration	Config_MEC_1
PICS Selection	PIC_RNIS_QUERY
Initial Conditions	
<pre> with { the IUT having a L2_Meas_information containing cellInfo containing ecgi indicating value CELL_ID } </pre>	
Expected Behaviour	
<pre> ensure that { when { the IUT receives a vGET containing uri indicating value "/rni/v2/queries/layer2_meas", query_parameters containing cell_id indicating value CELL_ID from the RNIS_CLIENT entity } then { the IUT sends a HTTP_RESPONSE containing status set to "200 OK", body containing L2_Meas_information containing cellInfo containing ecgi indicating value CELL_ID to the RNIS_CLIENT entity } } </pre>	

Table 6.4.1-32: TP_MEC_MEC012_SRV_RNIS_019_BR

TP Id	"TP_MEC_MEC012_SRV_RNIS_019_BR"
Test Objective	Check that the RNIS service returns an error when the L2 measurements information is requested with a malformed message
Reference	ETSI GS MEC 012 (V2.1.1) [5], clause 7.5a.3.1 https://forge.etsi.org/rep/mec/g012-rnis-api/-/blob/v2.1.1/RniAPI.yaml
Configuration	Config_MEC_1
PICS Selection	PIC_RNIS_QUERY
Initial Conditions	
<pre> with { the IUT having a L2_Meas_information containing cellInfo containing ecgi indicating value CELL_ID } </pre>	
Expected Behaviour	
<pre> ensure that { when { the IUT receives a vGET containing uri indicating value "/rni/v2/queries/layer2_meas", query_parameters containing cId indicating value C_ID //wrong parameter from the RNIS_CLIENT entity } } </pre>	

```

then {
  the IUT sends a HTTP_RESPONSE containing
    status set to "400 Bad Request"
    to the RNIS_CLIENT entity
}
}

```

Table 6.4.1-33: TP_MEC_MEC012_SRV_RNIS_019_NF

TP Id	"TP_MEC_MEC012_SRV_RNIS_019_NF"
Test Objective	Check that the RNIS service returns an error when the L2 measurements information for a not existing element is requested
Reference	ETSI GS MEC 012 (V2.1.1) [5], clause 7.5a.3.1 https://forge.etsi.org/rep/mec/g012-rnis-api/-/blob/v2.1.1/RniAPI.yaml
Configuration	Config_MEC_1
PICS Selection	PIC_RNIS_QUERY
Initial Conditions	
<pre> with { the IUT "not" having a L2_Meas_information containing cellInfo containing ecgi indicating value NOT_EXISTENT_CELL_ID } </pre>	
Expected Behaviour	
<pre> ensure that { when { the IUT receives a vGET containing uri indicating value "/rnis/v2/query/layer2_meas", query_parameters containing cell_id indicating value NOT_EXISTENT_CELL_ID from the RNIS_CLIENT entity } then { the IUT sends a HTTP_RESPONSE containing status set to "404 Not Found" to the RNIS_CLIENT entity } } </pre>	

6.5 MEC013

6.5.1 Services (SRV)

6.5.1.1 Radio Node Location Lookup (RLOCLOOK)

Table 6.5.1-1: TP_MEC_MEC013_SRV_RLOC_001_OK

TP Id	"TP_MEC_MEC013_SRV_RLOCLOOK_001_OK"
Test Objective	Check that the IUT responds with the list of radio nodes currently associated with the MEC host and the location of each radio node when queried by a MEC Application
Reference	ETSI GS MEC 012 (V2.1.1) [5], clause 7.3.7 https://forge.etsi.org/rep/mec/g013-location-api/-/blob/v2.1.1/LocationAPI.yaml#components/schemas/AccessPointList
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	
<pre> with { the IUT being_in idle_state and the IUT having a ue_location containing zoneId indicating value ZONE_ID } </pre>	

Expected Behaviour
<pre> ensure that { when { the IUT receives a vGET containing uri indicating value "location/v2/zones/{ZONE_ID}/accessPoints" from the MEC_APP entity } then { // MEC 013, clause 7.3.7 the IUT sends a HTTP_RESPONSE containing status_code set to "200 OK" body containing accessPointList containing zoneId set to ZONE_ID to the MEC_APP entity } } </pre>

Table 6.5.1-2: TP_MEC_MEC013_SRV_RLOC_001_NF

TP Id	"TP_MEC_MEC013_SRV_RLOCLOOK_001_NF"
Test Objective	Check that the IUT responds with an error when a request for an URI that cannot be mapped to a valid resource URI is sent by a MEC Application
Reference	ETSI GS MEC 013 (V2.1.1) [6], clause 7.3.7 https://forge.etsi.org/rep/mec/gs013-location-api/-/blob/v2.1.1/LocationAPI.yaml#components/schemas/AccessPointList
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	
<pre> with { the IUT being_in idle_state and the IUT "not" having a ue_location containing zoneId indicating value NON_EXISTENT_ZONE_ID } </pre>	
Expected Behaviour	
<pre> ensure that { when { the IUT receives a vGET containing uri indicating value "location/v2/zones/{NON_EXISTENT_ZONE_ID}/accessPoints" from the MEC_APP entity } then { // MEC 013, clause 7.3.7 the IUT sends a HTTP_RESPONSE containing status_code set to "404 Not Found" to the MEC_APP entity } } </pre>	

6.5.1.2 UE Area Subscribe (UEAREASUB)

Table 6.5.1-3: TP_MEC_MEC013_SRV_UEAREASUB_001_OK

TP Id	"TP_MEC_MEC013_SRV_UEAREASUB_001_OK"
Test Objective	Check that the IUT acknowledges the UE area change subscription request when commanded by a MEC Application and notifies it when the UE enters the specified circle
Reference	ETSI GS MEC 013 (V2.1.1) [6], clause 7.3.11
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	
<pre> with { the IUT being_in idle_state } </pre>	

Expected Behaviour
<pre>// MEC 013, clause 5.3.11 ensure that { when { the IUT receives a vPOST containing uri indicating value "location/v2/subscriptions/area/circle", body containing circleNotificationSubscription containing clientCorrelator indicating value CLIENT_ID, callbackReference indicating value CALLBACK_URL, address indicating value IP_ADDRESS from the MEC_APP entity } then { // MEC 013, clause 7.3.11.2 the IUT sends a HTTP_RESPONSE containing status_code set to "201 Created" body containing circleNotificationSubscription containing clientCorrelator indicating value CLIENT_ID, callbackReference indicating value CALLBACK_URL, address indicating value IP_ADDRESS to the MEC_APP entity and // MEC 013, clause 7.3.11.3 the IUT sends a vPOST containing uri indicating value CALLBACK_URL, body containing subscriptionNotification containing terminalLocation containing address set to IP_ADDRESS to the MEC_APP entity } }</pre>

Table 6.5.1-4: TP_MEC_MEC013_SRV_UEAREASUB_001_BR

TP Id	"TP_MEC_MEC013_SRV_UEAREASUB_001_BR"
Test Objective	Check that the IUT responds with an error when a request with incorrect parameters is sent by a MEC Application
Reference	ETSI GS MEC 013 (V2.1.1) [6], clause 7.3.11
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	
with { the IUT being_in idle_state }	

Expected Behaviour
<pre>// MEC 013, clause 5.3.11 ensure that { when { the IUT receives a vPOST containing uri indicating value "location/v2/subscriptions/area/circle", body containing circleNotificationSubscription containing clientCorrelator indicating value CLIENT_ID, // Wrong name should trigger an error response. callback indicating value CALLBACK_URL, address indicating value IP_ADDRESS from the MEC_APP entity } then { // MEC 013, clause 7.3.11.2 the IUT sends a HTTP_RESPONSE containing status_code set to "400 Bad Request" to the MEC_APP entity } }</pre>

Table 6.5.1-5: TP_MEC_MEC013_SRV_UEAREASUB_002_OK

TP Id	"TP_MEC_MEC013_SRV_UEAREASUB_002_OK"
Test Objective	Check that the IUT acknowledges the cancellation of UE area change notifications when commanded by a MEC Application
Reference	ETSI GS MEC 013 (V2.1.1) [6], clause 7.3.6
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	
<pre>with { the IUT being_in idle_state and the IUT having a subscriptions containing subscriptionId indicating value SUBSCRIPTION_ID }</pre>	
Expected Behaviour	
<pre>// MEC 013, clause 5.3.6 ensure that { when { the IUT receives a vDELETE containing uri indicating value "location/v2/subscriptions/area/circle/{SUBSCRIPTION_ID}" from the MEC_APP entity } then { // MEC 013, clause 7.3.6.6 the IUT sends a HTTP_RESPONSE containing status_code set to "204 No Content" to the MEC_APP entity } }</pre>	

Table 6.5.1-6: TP_MEC_MEC013_SRV_UEAREASUB_002_NF

TP Id	"TP_MEC_MEC013_SRV_UEAREASUB_002_NF"
Test Objective	Check that the IUT responds with an error when a request for an URI that cannot be mapped to a valid resource URI is sent by a MEC Application
Reference	ETSI GS MEC 013 (V2.1.1) [6], clause 7.3.6
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	
<pre>with { the IUT being_in idle_state and</pre>	

<pre> the IUT "not" having a subscriptions containing subscriptionId indicating value NON_EXISTING_SUBSCRIPTION_ID } </pre>
Expected Behaviour
<pre> // MEC 013, clause 5.3.6 ensure that { when { the IUT receives a vDELETE containing uri indicating value "location/v2/subscriptions/area/circle/{NON_EXISTING_SUBSCRIPTION_ID}" from the MEC_APP entity } then { // MEC 013, clause 7.3.6.6 the IUT sends a HTTP_RESPONSE containing status_code set to "404 Not Found" to the MEC_APP entity } } </pre>

6.5.1.3 UE Distance Lookup (UEDISTLOOK)

Table 6.5.1-7: TP_MEC_MEC013_SRV_UEDISTLOOK_001_OK

TP Id	"TP_MEC_MEC013_SRV_UEDISTLOOK_001_OK"
Test Objective	Check that the IUT responds with the distance to a UE when queried by a MEC Application
Reference	ETSI GS MEC 013 (V2.1.1) [6], clause 7.3.9
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	
<pre> with { the IUT being_in idle_state } </pre>	
Expected Behaviour	
<pre> // MEC 013, clause 5.3.9 ensure that { when { the IUT receives a vGET containing uri indicating value "location/v2/queries", query_parameters containing address indicating value any_value, latitude indicating value any_value, longitude indicating value any_value from the MEC_APP entity } then { // MEC 013, clause 7.3.9.2 the IUT sends a HTTP_RESPONSE containing status_code set to "200 OK" body containing terminalDistance set to any_value to the MEC_APP entity } } </pre>	

Table 6.5.1-8: TP_MEC_MEC013_SRV_UEDISTLOOK_001_BR

TP Id	"TP_MEC_MEC013_SRV_UEDISTLOOK_001_BR"
Test Objective	Check that the IUT responds with an error when a request with incorrect parameters is sent by a MEC Application
Reference	ETSI GS MEC 013 (V2.1.1) [6], clause 7.3.9
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	
with { the IUT being_in idle_state }	
Expected Behaviour	
<pre>// MEC 013, clause 5.3.9 ensure that { when { the IUT receives a vGET containing uri indicating value "location/v2/queries", query_parameters containing address indicating value any_value, // Wrong name should trigger an error response. lat indicating value any_value, longitude indicating value any_value from the MEC_APP entity } then { // MEC 013, clause 7.3.9.2 the IUT sends a HTTP_RESPONSE containing status_code set to "400 Bad Request" to the MEC_APP entity } }</pre>	

6.5.1.4 UE Distance Subscribe (UEDISTSUB)

Table 6.5.1-9: TP_MEC_MEC013_SRV_UEDISTSUB_001_OK

TP Id	"TP_MEC_MEC013_SRV_UEDISTSUB_001_OK"
Test Objective	Check that the IUT acknowledges the UE distance subscription request when commanded by a MEC Application and notifies it when (all) the requested UE(s) is (are) within the specified distance
Reference	ETSI GS MEC 013 (V2.1.1) [6], clause 7.3.10
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	
with { the IUT being_in idle_state }	
Expected Behaviour	
<pre>// MEC 013, clause 5.3.10 ensure that { when { the IUT receives a vPOST containing uri indicating value "location/v2/subscriptions/distance", body containing distanceNotificationSubscription containing clientCorrelator indicating value CLIENT_ID, callbackReference indicating value CALLBACK_URL, monitoredAddress indicating value MONITORED_IP_ADDRESS, referenceAddress indicating value IP_ADDRESS from the MEC_APP entity } then { // MEC 013, clause 7.3.10.2 the IUT sends a HTTP_RESPONSE containing status_code set to "201 Created" } }</pre>	

```

    body containing
      distanceNotificationSubscription containing
        clientCorrelator indicating value CLIENT_ID,
        callbackReference indicating value CALLBACK_URL,
        monitoredAddress indicating value MONITORED_IP_ADDRESS,
        referenceAddress indicating value IP_ADDRESS

    to the MEC_APP entity
  and
  // MEC 013, clause 7.3.10.3
  the IUT sends a vPOST containing
    Uri set to CALLBACK_URL
    body containing
      subscriptionNotification containing
        terminalLocation containing
          address set to IP_ADDRESS

    to the MEC_APP entity
  }
}

```

Table 6.5.1-10: TP_MEC_MEC013_SRV_UEDISTSUB_001_BR

TP Id	"TP_MEC_MEC013_SRV_UEDISTSUB_001_BR"
Test Objective	Check that the IUT responds with an error when a request with incorrect parameters is sent by a MEC Application
Reference	ETSI GS MEC 013 (V2.1.1) [6], clause 7.3.10
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	
with { the IUT being_in idle_state }	
Expected Behaviour	
<pre> // MEC 013, clause 5.3.10 ensure that { when { the IUT receives a vPOST containing uri indicating value "location/v2/subscriptions/distance", body containing distanceNotificationSubscription containing clientCorrelator indicating value CLIENT_ID, callbackReference indicating value CALLBACK_URL, monitoredAddress indicating value MONITORED_IP_ADDRESS, // Wrong name should trigger an error response. reference indicating value IP_ADDRESS from the MEC_APP entity } then { // MEC 013, clause 7.3.10.2 the IUT sends a HTTP_RESPONSE containing status_code set to "400 Bad Request" to the MEC_APP entity } } </pre>	

Table 6.5.1-11: TP_MEC_MEC013_SRV_UEDISTSUB_002_OK

TP Id	"TP_MEC_MEC013_SRV_UEDISTSUB_002_OK"
Test Objective	Check that the IUT acknowledges the cancellation of UE distance notifications when commanded by a MEC Application
Reference	ETSI GS MEC 013 (V2.1.1) [6], clause 7.3.6
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	
<pre>with { the IUT being_in idle_state and the IUT having a subscriptions containing subscriptionId indicating value SUBSCRIPTION_ID }</pre>	
Expected Behaviour	
<pre>// MEC 013, clause 5.3.6 ensure that { when { the IUT receives a vDELETE containing uri indicating value "location/v2/subscriptions/distance/{SUBSCRIPTION_ID}" from the MEC_APP entity } then { // MEC 013, clause 7.3.6.5 the IUT sends a HTTP_RESPONSE containing status_code set to "204 No Content" to the MEC_APP entity } }</pre>	

Table 6.5.1-12: TP_MEC_MEC013_SRV_UEDISTSUB_002_NF

TP Id	"TP_MEC_MEC013_SRV_UEDISTSUB_002_NF"
Test Objective	Check that the IUT responds with an error when a request for an URI that cannot be mapped to a valid resource URI is sent by a MEC Application
Reference	ETSI GS MEC 013 (V2.1.1) [6], clause 7.3.6
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	
<pre>with { the IUT being_in idle_state and the IUT "not" having a subscriptions containing subscriptionId indicating value NON_EXISTING_SUBSCRIPTION_ID }</pre>	
Expected Behaviour	
<pre>// MEC 013, clause 5.3.6 ensure that { when { the IUT receives a vDELETE containing uri indicating value "location/v2/subscriptions/distance/{NON_EXISTING_SUBSCRIPTION_ID}" from the MEC_APP entity } then { // MEC 013, clause 7.3.6.5 the IUT sends a HTTP_RESPONSE containing status_code set to "404 Not Found" to the MEC_APP entity } }</pre>	

6.5.1.5 UE Information Lookup (UEINFLOOK)

Table 6.5.1-13: TP_MEC_MEC013_SRV_UEINFLOOK_001_OK

TP Id	"TP_MEC_SRV_UEINFLOOK_001_OK"
Test Objective	Check that the IUT responds with the information pertaining to one or more UEs in a particular location when queried by a MEC Application
Reference	ETSI GS MEC 013 (V2.1.1) [6], clause 7.3.3
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	
<pre>with { the IUT being_in idle_state and the IUT having a ue_location containing address indicating value ACR_SOME_IP ; }</pre>	
Expected Behaviour	
<pre>ensure that { when { the IUT receives a vGET containing uri indicating value "location/v2/users", query_parameters containing address indicating value ACR_SOME_IP ; ; from the MEC_APP } then { // ETSI GS MEC 013, clause 7.3.3 the IUT sends a HTTP_RESPONSE containing status_code set to "200 OK" body containing userList set to any_value ; to the MEC_APP } }</pre>	
Final Conditions	

Table 6.5.1-14: TP_MEC_MEC013_SRV_UEINFLOOK_001_BR

TP Id	"TP_MEC_SRV_UEINFLOOK_001_BR"
Test Objective	Check that the IUT responds with an error when a request with incorrect parameters is sent by a MEC Application
Reference	ETSI GS MEC 013 (V2.1.1) [6], clause 7.3.3
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	
<pre>with { the IUT being_in idle_state and the IUT having a ue_location containing address indicating value ACR_SOME_IP ; }</pre>	
Expected Behaviour	
<pre>ensure that { when { the IUT receives a vGET containing uri indicating value "location/v2/users", query_parameters containing // Wrong name should trigger an error response. addr indicating value ACR_SOME_IP ; ; from the MEC_APP } then { // ETSI GS MEC 013, clause 7.3.3 the IUT sends a HTTP_RESPONSE containing status_code set to "400 Bad Request" ; }</pre>	

to the MEC_APP } }
Final Conditions

Table 6.5.1-15: TP_MEC_MEC013_SRV_UEINFLOOK_001_NF

TP Id	"TP_MEC_SRV_UEINFLOOK_001_NF"
Test Objective	Check that the IUT responds with an error when a request for an unknown URI is sent by a MEC Application
Reference	ETSI GS MEC 013 (V2.1.1) [6], clause 7.3.3
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	
with { the IUT being_in idle_state and the IUT having a ue_location containing address indicating value ACR_SOME_IP ; }	
Expected Behaviour	
ensure that { when { the IUT receives a vGET containing uri indicating value "location/v2/users", query_parameters containing addr indicating value ACR_UNKNOWN_IP ; ; from the MEC_APP } then { // ETSI GS MEC 013, clause 7.3.3 the IUT sends a HTTP_RESPONSE containing status_code set to "404 Not Found" ; to the MEC_APP } }	
Final Conditions	

6.5.1.6 UE Information Subscription (UEINFSUB)

Table 6.5.1-16: TP_MEC_MEC013_SRV_UEINFSUB_001_OK

TP Id	"TP_MEC_SRV_UEINFSUB_001_OK"
Test Objective	Check that the IUT acknowledges the UE information change subscription request when commanded by a MEC Application and notifies it when the location changes
Reference	ETSI GS MEC 013 (V2.1.1) [6], clause 7.3.5
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	
with { the IUT being_in idle_state }	
Expected Behaviour	
<pre> ensure that { when { the IUT receives a vPOST containing uri indicating value "location/v2/subscriptions/zonalTraffic" body containing zonalTrafficSubscription containing clientCorrelator indicating value CLIENT_ID, callbackReference indicating value CALLBACK_URL, zoneId indicating value ZONE_ID ; } ; from the MEC_APP } then { // ETSI GS MEC 013, clause 7.3.5.2 the IUT sends a HTTP_RESPONSE containing status_code set to "201 Created" body containing zonalTrafficSubscription containing clientCorrelator indicating value CLIENT_ID, callbackReference indicating value CALLBACK_URL, zoneId indicating value ZONE_ID ; ; to the MEC_APP and // ETSI GS MEC 013, clause 7.3.5.3 the IUT sends a vPOST containing Uri set to CALLBACK_URL body containing zonalPresenceNotification containing clientCorrelator set to CLIENT_ID, zoneId indicating value ZONE_ID ; ; to the MEC_APP } </pre>	
Final Conditions	

Table 6.5.1-17: TP_MEC_MEC013_SRV_UEINFSUB_001_BR

TP Id	"TP_MEC_SRV_UEINFSUB_001_BR"
Test Objective	Check that the IUT responds with an error when a request with incorrect parameters is sent by a MEC Application
Reference	ETSI GS MEC 013 (V2.1.1) [6], clause 7.3.5
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	
with { the IUT being_in idle_state }	
Expected Behaviour	
ensure that { when { the IUT receives a vPOST containing uri indicating value "location/v2/subscriptions/zonalTraffic" body containing zonalTrafficSubscription containing clientCorrelator indicating value CLIENT_ID, callbackReference indicating value CALLBACK_URL, // Wrong name should trigger an error response. zone indicating value ZONE_ID ; }; from the MEC_APP } then { // ETSI GS MEC 013, clause 7.3.5.2 the IUT sends a HTTP_RESPONSE containing status_code set to "400 Bad Request" }; to the MEC_APP } }	
Final Conditions	

Table 6.5.1-18: TP_MEC_MEC013_SRV_UEINFSUB_002_OK

TP Id	"TP_MEC_SRV_UEINFSUB_002_OK"
Test Objective	Check that the IUT acknowledges the cancellation of UE information change notifications when commanded by a MEC Application
Reference	ETSI GS MEC 013 (V2.1.1) [6], clause 7.3.6
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	
with { the IUT being_in idle_state and the IUT having a subscriptions containing subscriptionId indicating value SUBSCRIPTION_ID ; }	
Expected Behaviour	
ensure that { when { the IUT receives a vDELETE containing uri indicating value "location/v2/subscriptions/zonalTraffic/{SUBSCRIPTION_ID}" }; from the MEC_APP } then { // ETSI GS MEC 013, clause 7.3.6.3 the IUT sends a HTTP_RESPONSE containing status_code set to "204 No Content" }; to the MEC_APP } }	
Final Conditions	

Table 6.5.1-19: TP_MEC_MEC013_SRV_UEINFSUB_002_NF

TP Id	"TP_MEC_SRV_UEINFSUB_002_NF"
Test Objective	Check that the IUT responds with an error when a request for an URI that cannot be mapped to a valid resource URI is sent by a MEC Application
Reference	ETSI GS MEC 013 (V2.1.1) [6], clause 7.3.6
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	
<pre>with { the IUT being_in idle_state and the IUT "not" having a subscriptions containing subscriptionId indicating value NON_EXISTENT_SUBSCRIPTION_ID ; }</pre>	
Expected Behaviour	
<pre>ensure that { when { the IUT receives a vDELETE containing uri indicating value "location/v2/subscriptions/zonalTraffic/{NON_EXISTENT_SUBSCRIPTION_ID}" ; from the MEC_APP } then { // ETSI GS MEC 013, clause 7.3.6.3 the IUT sends a HTTP_RESPONSE containing status_code set to "404 Not Found" ; to the MEC_APP } }</pre>	
Final Conditions	

6.5.1.7 UE Location Lookup (UELOCLOOK)

Table 6.5.1-20: TP_MEC_MEC013_SRV_UELOC_001_OK

TP Id	"TP_MEC_SRV_UELOC_001_OK"
Test Objective	Check that the IUT responds with a list for the location of User Equipments when queried by a MEC Application
Reference	ETSI GS MEC 013 (V2.1.1) [6], clause 7.3.2
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	
<pre>with { the IUT being_in idle_state and the IUT having a ue_location containing zoneId indicating value ZONE_ID ; }</pre>	
Expected Behaviour	
<pre>ensure that { when { the IUT receives a vGET containing uri indicating value "location/v2/users", query_parameters containing zoneId indicating value ZONE_ID ; } from the MEC_APP } then { // ETSI GS MEC 013, clause 7.3.2 the IUT sends a HTTP_RESPONSE containing status_code set to "200 OK" body containing userInfo containing zoneId set to ZONE_ID ; ; } to the MEC_APP }</pre>	
Final Conditions	

Table 6.5.1-21: TP_MEC_MEC013_SRV_UELOC_001_BR

TP Id	"TP_MEC_SRV_UELOC_001_BR"
Test Objective	Check that the IUT responds with an error when a request with incorrect parameters is sent by a MEC Application
Reference	ETSI GS MEC 013 (V2.1.1) [6], clause 7.3.2
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	
<pre>with { the IUT being_in idle_state and the IUT having a ue_location containing zoneId indicating value ZONE_ID ; }</pre>	
Expected Behaviour	
<pre>ensure that { when { the IUT receives a vGET containing uri indicating value "location/v2/users", query_parameters containing // Wrong name should trigger an error response. zone indicating value ZONE_ID ; ; from the MEC_APP } then { // ETSI GS MEC 013, clause 7.3.2 the IUT sends a HTTP_RESPONSE containing status_code set to "400 Bad Request" ; to the MEC_APP } }</pre>	
Final Conditions	

Table 6.5.1-22: TP_MEC_MEC013_SRV_UELOC_001_NF

TP Id	"TP_MEC_SRV_UELOC_001_NF"
Test Objective	Check that the IUT responds with an error when a request for an unknown URI is sent by a MEC Application
Reference	ETSI GS MEC 013 (V2.1.1) [6], clause 7.3.2
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	
<pre>with { the IUT being_in idle_state and the IUT "not" having a ue_location containing zoneId indicating value NON_EXISTENT_ZONE_ID ; }</pre>	
Expected Behaviour	
<pre>ensure that { when { the IUT receives a vGET containing uri indicating value "location/v2/users", query_parameters containing zoneId indicating value NON_EXISTENT_ZONE_ID ; ; from the MEC_APP } then { // ETSI GS MEC 013, clause 7.3.2 the IUT sends a HTTP_RESPONSE containing status_code set to "404 Not Found" ; to the MEC_APP } }</pre>	
Final Conditions	

6.5.1.8 UE Location Subscription (UELOCSUB)

Table 6.5.1-23: TP_MEC_MEC013_SRV_UELOCSUB_001_OK

TP Id	"TP_MEC_SRV_UELOCSUB_001_OK"
Test Objective	Check that the IUT acknowledges the UE location change subscription request when commanded by a MEC Application and notifies it when the location changes
Reference	ETSI GS MEC 013 (V2.1.1) [6], clause 7.3.4
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	
with { the IUT being_in idle_state }	
Expected Behaviour	
<pre> ensure that { when { the IUT receives a vPOST containing uri indicating value "location/v2/subscriptions/userTracking" body containing userTrackingSubscription containing clientCorrelator indicating value CLIENT_ID, callbackReference indicating value CALLBACK_URL, address indicating value IP_ADDRESS ; ; } from the MEC_APP } then { // ETSI GS MEC 013, clause 7.3.4.2 the IUT sends a HTTP_RESPONSE containing status_code set to "201 Created" body containing userTrackingSubscription containing clientCorrelator indicating value CLIENT_ID, callbackReference indicating value CALLBACK_URL, address indicating value IP_ADDRESS ; ; } to the MEC_APP and // ETSI GS MEC 013, clause 7.3.4.3 the IUT sends a vPOST containing Uri set to CALLBACK_URL body containing zonalPresenceNotification containing clientCorrelator set to CLIENT_ID, address set to IP_ADDRESS ; ; } to the MEC_APP } </pre>	
Final Conditions	

Table 6.5.1-24: TP_MEC_MEC013_SRV_UELOCSUB_001_BR

TP Id	"TP_MEC_SRV_UELOCSUB_001_BR"
Test Objective	Check that the IUT responds with an error when a request with incorrect parameters is sent by a MEC Application
Reference	ETSI GS MEC 013 (V2.1.1) [6], clause 7.3.4
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	
with { the IUT being_in idle_state }	
Expected Behaviour	
ensure that { when { the IUT receives a vPOST containing uri indicating value "location/v2/subscriptions/userTracking" body containing userTrackingSubscription containing // Wrong name should trigger an error response. client indicating value CLIENT_ID, callbackReference indicating value CALLBACK_URL, address indicating value IP_ADDRESS ; }; from the MEC_APP } then { // ETSI GS MEC 013, clause 7.3.4.2 the IUT sends a HTTP_RESPONSE containing status_code set to "400 Bad Request" }; to the MEC_APP } }	
Final Conditions	

Table 6.5.1-25: TP_MEC_MEC013_SRV_UELOCSUB_002_OK

TP Id	"TP_MEC_SRV_UELOCSUB_002_OK"
Test Objective	Check that the IUT acknowledges the cancellation of UE location change notifications when commanded by a MEC Application
Reference	ETSI GS MEC 013 (V2.1.1) [6], clause 7.3.6
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	
with { the IUT being_in idle_state and the IUT having a subscriptions containing subscriptionId indicating value SUBSCRIPTION_ID }; }	
Expected Behaviour	
ensure that { when { the IUT receives a vDELETE containing uri indicating value "location/v2/subscriptions/userTracking/{SUBSCRIPTION_ID}" }; from the MEC_APP } then { // ETSI GS MEC 013, clause 7.3.6.2 the IUT sends a HTTP_RESPONSE containing status_code set to "204 No Content" }; to the MEC_APP } }	
Final Conditions	

Table 6.5.1-26: TP_MEC_MEC013_SRV_UELOCSUB_002_NF

TP Id	"TP_MEC_SRV_UELOCSUB_002_NF"
Test Objective	Check that the IUT responds with an error when a request for an URI that cannot be mapped to a valid resource URI is sent by a MEC Application
Reference	ETSI GS MEC 013 (V2.1.1) [6], clause 7.3.6
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	
<pre>with { the IUT being_in idle_state and the IUT "not" having a subscriptions containing subscriptionId indicating value NON_EXISTENT_SUBSCRIPTION_ID ; }</pre>	
Expected Behaviour	
<pre>ensure that { when { the IUT receives a vDELETE containing uri indicating value "location/v2/subscriptions/userTracking/{NON_EXISTENT_SUBSCRIPTION_ID}" ; from the MEC_APP } then { // ETSI GS MEC 013, clause 7.3.6.2 the IUT sends a HTTP_RESPONSE containing status_code set to "404 Not Found" ; to the MEC_APP } }</pre>	
Final Conditions	

6.5.1.9 UE Tracking Subscribe (UETRACKSUB)

Table 6.5.1-27: TP_MEC_MEC013_SRV_UETRACKSUB_001_OK

TP Id	"TP_MEC_SRV_UETRACKSUB_001_OK"
Test Objective	Check that the IUT acknowledges the UE location change subscription request when commanded by a MEC Application and notifies it when the UE changes location
Reference	ETSI GS MEC 013 (V2.1.1) [6], clause 7.3.4
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	
with { the IUT being_in idle_state }	
Expected Behaviour	
<pre> ensure that { when { the IUT receives a vPOST containing uri indicating value "location/v2/subscriptions/periodic" body containing periodicNotificationSubscription containing clientCorrelator indicating value CLIENT_ID, callbackReference indicating value CALLBACK_URL, address indicating value IP_ADDRESS ; ; } from the MEC_APP } then { // ETSI GS MEC 013, clause 7.3.8.2 the IUT sends a HTTP_RESPONSE containing status_code set to "201 Created" body containing periodicNotificationSubscription containing clientCorrelator indicating value CLIENT_ID, callbackReference indicating value CALLBACK_URL, address indicating value IP_ADDRESS ; ; } to the MEC_APP and // ETSI GS MEC 013, clause 7.3.8.3 the IUT sends a vPOST containing uri indicating value CALLBACK_URL body containing subscriptionNotification containing terminalLocation containing address set to IP_ADDRESS ; ; } to the MEC_APP } </pre>	
Final Conditions	

Table 6.5.1-28: TP_MEC_MEC013_SRV_UETRACKSUB_001_BR

TP Id	"TP_MEC_SRV_UETRACKSUB_001_BR"
Test Objective	Check that the IUT responds with an error when a request with incorrect parameters is sent by a MEC Application
Reference	ETSI GS MEC 013 (V2.1.1) [6], clause 7.3.4
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	
with { the IUT being_in idle_state }	
Expected Behaviour	
ensure that { when { the IUT receives a vPOST containing uri indicating value "location/v2/subscriptions/periodic" body containing periodicNotificationSubscription containing // Wrong name should trigger an error response. client indicating value CLIENT_ID, callbackReference indicating value CALLBACK_URL, address indicating value IP_ADDRESS ; }; from the MEC_APP } then { // ETSI GS MEC 013, clause 7.3.8.2 the IUT sends a HTTP_RESPONSE containing status_code set to "400 Bad Request" }; to the MEC_APP } }	
Final Conditions	

Table 6.5.1-29: TP_MEC_MEC013_SRV_UETRACKSUB_002_OK

TP Id	"TP_MEC_SRV_UETRACKSUB_002_OK"
Test Objective	Check that the IUT acknowledges the cancellation of UE tracking notifications when commanded by a MEC Application
Reference	ETSI GS MEC 013 (V2.1.1) [6], clause 7.3.6
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	
with { the IUT being_in idle_state and the IUT having a subscriptions containing subscriptionId indicating value SUBSCRIPTION_ID ; }	
Expected Behaviour	
ensure that { when { the IUT receives a vDELETE containing uri indicating value "location/v2/subscriptions/periodic/{SUBSCRIPTION_ID}" }; from the MEC_APP } then { // ETSI GS MEC 013, clause 7.3.6.4 the IUT sends a HTTP_RESPONSE containing status_code set to "204 No Content" }; to the MEC_APP } }	
Final Conditions	

Table 6.5.1-30: TP_MEC_MEC013_SRV_UETRACKSUB_002_NF

TP Id	"TP_MEC_SRV_UETRACKSUB_002_NF"
Test Objective	Check that the IUT responds with an error when a request for an URI that cannot be mapped to a valid resource URI is sent by a MEC Application
Reference	ETSI GS MEC 013 (V2.1.1) [6], clause 7.3.6
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	
<pre>with { the IUT being_in idle_state and the IUT "not" having a subscriptions containing subscriptionId indicating value NON_EXISTENT_SUBSCRIPTION_ID ; }</pre>	
Expected Behaviour	
<pre>ensure that { when { the IUT receives a vDELETE containing uri indicating value "location/v2/subscriptions/periodic/{NON_EXISTENT_SUBSCRIPTION_ID}" ; from the MEC_APP } then { // ETSI GS MEC 013, clause 7.3.6.4 the IUT sends a HTTP_RESPONSE containing status_code set to "400 Bad Request" ; to the MEC_APP } }</pre>	
Final Conditions	

6.6 MEC014

6.6.1 Services (SRV)

6.6.1.1 UE Identity tag (UETAG)

Table 6.6.1-1: TP_MEC_SRV_UETAG_001_OK

TP Id	"TP_MEC_SRV_UETAG_001_OK"
Test Objective	Check that the IUT responds with the information on a UE Identity tag when queried by a MEC Application
Reference	ETSI GS MEC 014 [7], clause 7.3.3.1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	
<pre>with { the IUT being_in idle_state and the MEC_APP having a app_instance containing instance_id indicating value APP_INSTANCE_ID ; }</pre>	
Expected Behaviour	
<pre>ensure that { when { the IUT receives a vGET containing uri indicating value "ui/v1/{APP_INSTANCE_ID}/ue_id_tag_info", query_parameters containing ueIdTag indicating value UE_IDENTITY_TAG ; ; from the MEC_APP } then { // ETSI GS MEC 014, clause 7.3.3.1 the IUT sends a HTTP_RESPONSE containing status_code set to "200 OK" body containing UeIdTagInfo containing ueIdTagsList containing ueIdTags containing ueIdTag set to UE_IDENTITY_TAG ; ; ; ; to the MEC_APP } }</pre>	
Final Conditions	

Table 6.6.1-2: TP_MEC_SRV_UETAG_001_BR

TP Id	"TP_MEC_SRV_UETAG_001_BR"
Test Objective	Check that the IUT responds with an error when a request with incorrect parameters is sent by a MEC Application
Reference	ETSI GS MEC 014 [7], clause 7.3.3.1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	
<pre>with { the IUT being_in idle_state and the MEC_APP having a app_instance containing instance_id indicating value APP_INSTANCE_ID ; }</pre>	
Expected Behaviour	
<pre>ensure that { when { the IUT receives a vGET containing uri indicating value "ui/v1/{APP_INSTANCE_ID}/ue_id_tag_info", query_parameters containing // Wrong parameter name should trigger an error response. ueTag indicating value UE_IDENTITY_TAG ; ; from the MEC_APP } then { // ETSI GS MEC 014, clause 7.3.3.1 the IUT sends a HTTP_RESPONSE containing status_code set to "400 Bad Request" ; to the MEC_APP } }</pre>	
Final Conditions	

Table 6.6.1-3: TP_MEC_SRV_UETAG_001_NF

TP Id	"TP_MEC_SRV_UETAG_001_NF"
Test Objective	Check that the IUT responds with an error when a request for an URI that cannot be mapped to a valid resource URI is sent by a MEC Application
Reference	ETSI GS MEC 014 [7], clause 7.3.3.1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	
<pre>with { the IUT being_in idle_state and the MEC_APP "not" having a app_instance containing instance_id indicating value NON_EXISTENT_APP_INSTANCE_ID ; }</pre>	
Expected Behaviour	
<pre>ensure that { when { the IUT receives a vGET containing uri indicating value "ui/v1/{NON_EXISTENT_APP_INSTANCE_ID}/ue_id_tag_info", query_parameters containing ueIdTag indicating value UE_IDENTITY_TAG ; ; from the MEC_APP } then { // ETSI GS MEC 014, clause 7.3.3.1 the IUT sends a HTTP_RESPONSE containing status_code set to "404 Not Found" ; to the MEC_APP } }</pre>	
Final Conditions	

Table 6.6.1-4: TP_MEC_SRV_UETAG_002_OK

TP Id	"TP_MEC_SRV_UETAG_002_OK"
Test Objective	Check that the IUT registers a tag (representing a UE) or a list of tags when commanded by a MEC Application
Reference	ETSI GS MEC 014 [7], clause 7.3.3.2
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	
<pre>with { the IUT being_in idle_state and the MEC_APP having a app_instance containing instance_id indicating value APP_INSTANCE_ID ; }</pre>	
Expected Behaviour	
<pre>ensure that { when { the IUT receives a vPUT containing uri indicating value "ui/v1/{APP_INSTANCE_ID}/ue_id_tag_info", if_match indicating value PROPER_ETAG, body containing ueIdTagsList containing ueIdTags containing ueIdTag set to UE_IDENTITY_TAG, state set to REGISTERED ; ; } ; from the MEC_APP } then { // ETSI GS MEC 014, clause 7.3.3.2 the IUT sends a HTTP_RESPONSE containing status_code set to "200 OK" body containing UeIdTagInfo containing ueIdTagsList containing ueIdTags containing ueIdTag set to UE_IDENTITY_TAG, state set to REGISTERED ; ; } ; to the MEC_APP }</pre>	
Final Conditions	

Table 6.6.1-5: TP_MEC_SRV_UETAG_002_BR

TP Id	"TP_MEC_SRV_UETAG_002_BR"
Test Objective	Check that the IUT responds with an error when an unauthorized request is sent by a MEC Application
Reference	ETSI GS MEC 014 [7], clause 7.3.3.2
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	
<pre>with { the IUT being_in idle_state and the MEC_APP having a app_instance containing instance_id indicating value APP_INSTANCE_ID ; }</pre>	
Expected Behaviour	
<pre>ensure that { when { the IUT receives a vPUT containing uri indicating value "ui/v1/{APP_INSTANCE_ID}/ue_id_tag_info", if_match indicating value PROPER_ETAG, body containing ueIdTagsList containing ueIdTags containing ueIdTag set to UE_IDENTITY_TAG, state set to INVALID_STATE ; ; } ; from the MEC_APP } then { // ETSI GS MEC 014, clause 7.3.3.2 the IUT sends a HTTP_RESPONSE containing status_code set to "400 Bad Request" ; to the MEC_APP } }</pre>	
Final Conditions	

Table 6.6.1-6: TP_MEC_SRV_UETAG_002_NF

TP Id	"TP_MEC_SRV_UETAG_002_NF"
Test Objective	Check that the IUT responds with an error when a request for an unknown URI is sent by a MEC Application
Reference	ETSI GS MEC 014 [7], clause 7.3.3.2
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	
<pre>with { the IUT being_in idle_state and the MEC_APP "not" having a app_instance containing instance_id indicating value NON_EXISTENT_APP_INSTANCE_ID ; }</pre>	
Expected Behaviour	
<pre>ensure that { when { the IUT receives a vPUT containing uri indicating value "ui/v1/{NON_EXISTENT_APP_INSTANCE_ID}/ue_id_tag_info", x if_match indicating value PROPER_ETAG, body containing ueIdTagsList containing ueIdTags containing ueIdTag set to UE_IDENTITY_TAG, state set to REGISTERED ; ; } ; from the MEC_APP } then { // ETSI GS MEC 014, clause 7.3.3.2 the IUT sends a HTTP_RESPONSE containing status_code set to "404 Not Found" ; to the MEC_APP } }</pre>	
Final Conditions	

Table 6.6.1-7: TP_MEC_SRV_UETAG_002_PF

TP Id	"TP_MEC_SRV_UETAG_002_PF"
Test Objective	Check that the IUT responds with an error when a request sent by a MEC Application does not comply with a required condition
Reference	ETSI GS MEC 014 [7], clause 7.3.3.2
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	
<pre>with { the IUT being_in idle_state and the MEC_APP having a app_instance containing instance_id indicating value APP_INSTANCE_ID ; }</pre>	
Expected Behaviour	
<pre>ensure that { when { the IUT receives a vPUT containing uri indicating value "ui/v1/{APP_INSTANCE_ID}/ue_id_tag_info", if_match indicating value INVALID_ETAG, body containing ueIdTagsList containing ueIdTags containing ueIdTag set to UE_IDENTITY_TAG, state set to UNREGISTERED ; ; } ; from the MEC_APP } then { // ETSI GS MEC 014, clause 7.3.3.2 the IUT sends a HTTP_RESPONSE containing status_code set to "412 Precondition Failed" ; to the MEC_APP } }</pre>	
Final Conditions	

6.7 MEC015

6.7.1 Services (SRV)

6.7.1.1 Multi-access Traffic Steering (MTS)

Table 6.7.1-1: TP_MEC_MEC015_SRV_MTS_001_OK

TP Id	"TP_MEC_MEC015_SRV_MTS_001_OK"
Test Objective	Check that the IUT responds with the Multi-access Traffic Steering information when queried by a MEC Application
Reference	ETSI GS MEC 015 (V2.1.1) [8], clause 9.3.3.1 https://forge.etsi.org/rep/mec/gs015-bandwidth-mgmt-api/-/blob/v2.1.1/BwManagementApi.yaml
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	
<pre>with { the IUT being_in idle_state and the MEC_APP having a mtsCapabilityInfo ; }</pre>	
Expected Behaviour	
<pre>// MEC 015 Clause 7.2.4 ensure that { when { the IUT receives a vGET containing uri indicating value "mts/v1/mts_info"</pre>	

```

    from the MEC_APP entity
  }
  then {
    // MEC 015 Clause 9.3.3.1
    the IUT sends a HTTP_RESPONSE containing
      status_code set to "200 OK"
      body containing
        mtsCapabilityInfo

    to the MEC_APP entity
  }
}

```

Table 6.7.1-2: TP_MEC_MEC015_SRV_MTS_002_OK

TP Id	"TP_MEC_MEC015_SRV_MTS_002_OK"
Test Objective	Check that the IUT responds with the list of configured Multi-access Traffic Steering when queried by a MEC Application
Reference	ETSI GS MEC 015 (V2.1.1) [8], clause 9.5.3.1 https://forge.etsi.org/rep/mec/gs015-bandwidth-mgmt-api/-/blob/v2.1.1/BwManagementApi.yaml
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	
<pre> with { the IUT being_in idle_state and the MEC_APP having a mtsSessionInfo containing appInsId indicating value APP_INSTANCE_ID } </pre>	
Expected Behaviour	
<pre> // MEC 015 Clause 7.2.5 ensure that { when { the IUT receives a vGET containing uri indicating value "mts/v1/mts_sessions", query_parameters containing appInsId indicating value APP_INSTANCE_ID from the MEC_APP entity } then { // MEC 015 Clause 9.5.3.1 the IUT sends a HTTP_RESPONSE containing status_code set to "200 OK" body containing oneOrmore mtsSessionInfo to the MEC_APP entity } } </pre>	

Table 6.7.1-3: TP_MEC_MEC015_SRV_MTS_002_BR

TP Id	"TP_MEC_MEC015_SRV_MTS_002_BR"
Test Objective	Check that the IUT responds with an error when a request with incorrect parameters is sent by a MEC Application
Reference	ETSI GS MEC 015 (V2.1.1) [8], clause 9.5.3.1 https://forge.etsi.org/rep/mec/gs015-bandwidth-mgmt-api/-/blob/v2.1.1/BwManagementApi.yaml
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	
<pre> with { the IUT being_in idle_state and the MEC_APP having a mtsSessionInfo containing appInsId indicating value APP_INSTANCE_ID } </pre>	

Expected Behaviour
<pre>// MEC 015 Clause 7.2.5 ensure that { when { the IUT receives a vGET containing uri indicating value "mts/v1/mts_sessions", query_parameters containing // Wrong parameter name should trigger an error response. appInsId indicating value APP_INSTANCE_ID from the MEC_APP entity } then { // MEC 015 Clause 9.5.3.1 the IUT sends a HTTP_RESPONSE containing status_code set to "400 Bad Request" to the MEC_APP entity } }</pre>

Table 6.7.1-4: TP_MEC_MEC015_SRV_MTS_002_NF

TP Id	"TP_MEC_MEC015_SRV_MTS_002_NF"
Test Objective	Check that the IUT responds with an error when a request with an unknown resource URI is sent by a MEC Application
Reference	ETSI GS MEC 015 (V2.1.1) [8], clause 9.5.3.1 https://forge.etsi.org/rep/mec/gs015-bandwidth-mgmt-api/-/blob/v2.1.1/BwManagementApi.yaml
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	
<pre>with { the IUT being_in idle_state and the MEC_APP having a mtsSessionInfo containing appInsId indicating value APP_INSTANCE_ID }</pre>	
Expected Behaviour	
<pre>// MEC 015 Clause 7.2.5 ensure that { when { the IUT receives a vGET containing uri indicating value "mts/v1/mts_sessions", query_parameters containing appInsId indicating value APP_UNKNOWN_INSTANCE_ID from the MEC_APP entity } then { // MEC 015 Clause 9.5.3.1 the IUT sends a HTTP_RESPONSE containing status_code set to "404 Not Found" to the MEC_APP entity } }</pre>	

Table 6.7.1-5: TP_MEC_MEC015_SRV_MTS_003_OK

TP Id	"TP_MEC_MEC015_SRV_MTS_003_OK_01"
Test Objective	Check that the IUT creates a MTS session when queried by a MEC Application
Reference	ETSI GS MEC 015 (V2.1.1) [8], clause 9.5.3.2 https://forge.etsi.org/rep/mec/gs015-bandwidth-mgmt-api/-/blob/v2.1.1/BwManagementApi.yaml
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	
<pre>with { the IUT being_in idle_state and</pre>	

<pre> the MEC_APP having a app_instance containing appInsId indicating value APP_INSTANCE_ID } </pre>
Expected Behaviour
<pre> // MEC 015 Clause 7.2.5 and Table 7.2.5-1: Elements of MtsSessionInfo ensure that { when { the IUT receives a vPOST containing uri indicating value "bwm/v1/mts_sessions", body containing mtsSessionInfo containing appInsId indicating value APP_INSTANCE_ID, requestType indicating value 0, // APPLICATION_SPECIFIC_MTS_ALLOCATION qosD indicating value SOME_ALLOCATION, mtsMode indicating value LOW_COST, trafficDirection indicating value "00" from the MEC_APP entity } then { // MEC 015 Clause 9.5.3.2 the IUT sends a HTTP_RESPONSE containing status_code set to "201 Created", Location set to MTS_SESSION_ID, // MEC 015 Table 9.5.3.2-2 body containing mtsSessionInfo containing appInsId indicating value APP_INSTANCE_ID, requestType indicating value APPLICATION_SPECIFIC_MTS_ALLOCATION, qosD indicating value SOME_ALLOCATION, mtsMode indicating value 0, // Low Cost trafficDirection indicating value "00" to the MEC_APP entity } } </pre>

Table 6.7.1-6: TP_MEC_MEC015_SRV_MTS_003_OK_02

TP Id	"TP_MEC_MEC015_SRV_MTS_003_OK_02"
Test Objective	Check that the IUT creates a MTS session when queried by a MEC Application
Reference	ETSI GS MEC 015 (V2.1.1) [8], clause 9.5.3.2 https://forge.etsi.org/rep/mec/gs015-bandwidth-mgmt-api/-/blob/v2.1.1/BwManagementApi.yaml
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	
<pre> with { the IUT being_in idle_state and the MEC_APP having a app_instance containing appInsId indicating value APP_INSTANCE_ID } </pre>	
Expected Behaviour	
<pre> // MEC 015 Clause 7.2.5 and Table 7.2.5-1: Elements of MtsSessionInfo ensure that { when { the IUT receives a vPOST containing uri indicating value "bwm/v1/mts_sessions", body containing mtsSessionInfo containing appInsId indicating value APP_INSTANCE_ID, requestType indicating value 1, // FLOW_SPECIFIC_MTS_ALLOCATION flowFilter indicating value FLOW_FILTER, qosD indicating value SOME_ALLOCATION, mtsMode indicating value 4, // QoS trafficDirection indicating value "00" </pre>	

```

    from the MEC_APP entity
  }
  then {
    // MEC 015 Clause 9.5.3.2
    the IUT sends a HTTP_RESPONSE containing
      status_code set to "201 Created",
      Location set to MTS_SESSION_ID, // MEC 015 Table 9.5.3.2-2
      body containing
        mtsSessionInfo containing
          appInsId indicating value APP_INSTANCE_ID,
          requestType indicating value FLOW_SPECIFIC_MTS_ALLOCATION,
          flowFilter indicating value FLOW_FILTER,
          qosD indicating value SOME_ALLOCATION,
          mtsMode indicating value LOW_COST,
          trafficDirection indicating value "00"

    to the MEC_APP entity
  }
}

```

Table 6.7.1-7: TP_MEC_MEC015_SRV_MTS_003_BR

TP Id	"TP_MEC_MEC015_SRV_MTS_003_BR"
Test Objective	Check that the IUT responds with an error when a request with incorrect parameters is sent by a MEC Application
Reference	ETSI GS MEC 015 (V2.1.1) [8], clause 9.5.3.2 https://forge.etsi.org/rep/mec/gs015-bandwidth-mgmt-api/-/blob/v2.1.1/BwManagementApi.yaml
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	
<pre> with { the IUT being_in idle_state and the MEC_APP having a app_instance containing appInsId indicating value APP_INSTANCE_ID } </pre>	
Expected Behaviour	
<pre> // MEC 015 Clause 7.2.5 and Table 7.2.5-1: Elements of MtsSessionInfo ensure that { when { the IUT receives a vPOST containing uri indicating value "bwm/v1/mts_sessions", // Invalid version number body containing mtsSessionInfo containing appInsId indicating value APP_INSTANCE_ID, requestType indicating value 0, // APPLICATION_SPECIFIC_MTS_ALLOCATION // MEC015 Clause 7.2.5 Type: MtsSessionInfo Table 7.2.5-1: Elements of MtsSessionInfo, flowFilter shall be omit flowFilter indicating value FLOW_FILTER, qosD indicating value SOME_ALLOCATION, mtsMode indicating value LOW_COST, trafficDirection indicating value "00" from the MEC_APP entity } then { // MEC 015 Clause 9.5.3.2 the IUT sends a HTTP_RESPONSE containing status_code set to "400 Bad request" to the MEC_APP entity } } </pre>	

Table 6.7.1-8: TP_MEC_MEC015_SRV_MTS_004_OK

TP Id	"TP_MEC_MEC015_SRV_MTS_004_OK"
Test Objective	Check that the IUT responds with a configured Multi-access Traffic Steering session when queried by a MEC Application
Reference	ETSI GS MEC 015 (V2.1.1) [8], clause 9.4.3.1 https://forge.etsi.org/rep/mec/gs015-bandwidth-mgmt-api/-/blob/v2.1.1/BwManagementApi.yaml
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	
<pre>with { the IUT being_in idle_state and the MEC_APP having an mtsSessionInfo containing sessionId indicating value MTS_SESSION_ID }</pre>	
Expected Behaviour	
<pre>// MEC 015 Clause 7.2.5 ensure that { when { the IUT receives a vGET containing uri indicating value "mts/v1/mts_sessions", query_parameters containing sessionId indicating value MTS_SESSION_ID from the MEC_APP entity } then { // MEC 015 Clause 9.4.3.1 the IUT sends a HTTP_RESPONSE containing status_code set to "200 OK" body containing mtsSessionInfo containing appInsId indicating value APP_INSTANCE_ID, requestType indicating value 0, // APPLICATION_SPECIFIC_MTS_ALLOCATION qosD indicating value SOME_ALLOCATION, mtsMode indicating value LOW_COST, trafficDirection indicating value "00" to the MEC_APP entity } }</pre>	

Table 6.7.1-9: TP_MEC_MEC015_SRV_MTS_004_BR

TP Id	"TP_MEC_MEC015_SRV_MTS_004_BR"
Test Objective	Check that the IUT responds with an error when a request with incorrect parameters is sent by a MEC Application
Reference	ETSI GS MEC 015 (V2.1.1) [8], clause 9.4.3.1 https://forge.etsi.org/rep/mec/gs015-bandwidth-mgmt-api/-/blob/v2.1.1/BwManagementApi.yaml
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	
<pre>with { the IUT being_in idle_state and the MEC_APP having an mtsSessionInfo containing sessionId indicating value MTS_SESSION_ID }</pre>	
Expected Behaviour	
<pre>// MEC 015 Clause 7.2.5 ensure that { when { the IUT receives a vGET containing uri indicating value "mts/v1/mts_sessions", query_parameters containing // Wrong parameter name should trigger an error response. sessionId indicating value MTS_SESSION_ID</pre>	

```

    from the MEC_APP entity
  }
  then {
    // MEC 015 Clause 9.4.3.1
    the IUT sends a HTTP_RESPONSE containing
      status_code set to "404 Not Found"

    to the MEC_APP entity
  }
}

```

Table 6.7.1-10: TP_MEC_MEC015_SRV_MTS_004_NF

TP Id	"TP_MEC_MEC015_SRV_MTS_004_NF"
Test Objective	Check that the IUT responds with an error when a request with an unknown resource URI is sent by a MEC Application
Reference	ETSI GS MEC 015 (V2.1.1) [8], clause 9.4.3.1 https://forge.etsi.org/rep/mec/gs015-bandwidth-mgmt-api/-/blob/v2.1.1/BwManagementApi.yaml
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	
<pre> with { the IUT being_in idle_state and the MEC_APP having an mtsSessionInfo containing sessionId indicating value MTS_SESSION_ID } </pre>	
Expected Behaviour	
<pre> // MEC 015 Clause 7.2.5 ensure that { when { the IUT receives a vGET containing uri indicating value "mts/v1/mts_sessions", query_parameters containing sessionId indicating value MTS_UNKNOWN_SESSION_ID from the MEC_APP entity } then { // MEC 015 Clause 9.4.3.1 the IUT sends a HTTP_RESPONSE containing status_code set to "404 Not Found" to the MEC_APP entity } } </pre>	

Table 6.7.1-11: TP_MEC_MEC015_SRV_MTS_005_OK

TP Id	"TP_MEC_MEC015_SRV_MTS_005_OK"
Test Objective	Check that the IUT updates the information about an individual MTS session when commanded by a MEC Application
Reference	ETSI GS MEC 015 (V2.1.1) [8], clause 9.4.3.2 https://forge.etsi.org/rep/mec/gs015-bandwidth-mgmt-api/-/blob/v2.1.1/BwManagementApi.yaml
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	
<pre> with { the IUT being_in idle_state and the MEC_APP having a mtsSessionInfo containing sessionId indicating value MTS_SESSION_ID } </pre>	
Expected Behaviour	
<pre> // MEC 015 Clause 7.2.5 ensure that { when { the IUT receives a vPUT containing uri indicating value "mts/v1/mts_sessions/{sessionId}", query_parameters indicating value MTS_SESSION_ID, </pre>	

```

    body containing
      mtsSessionInfo containing
        appInsId indicating value APP_INSTANCE_ID,
        requestType indicating value 0, // APPLICATION_SPECIFIC_MTS_ALLOCATION
        qosD indicating value SOME_NEW_ALLOCATION,
        mtsMode indicating value LOW_COST,
        trafficDirection indicating value "00"

    from the MEC_APP entity
  }
  then {
    // MEC 015 Clause 8.3.3.2
    the IUT sends a HTTP_RESPONSE containing
      status_code set to "200 OK"
      body containing
        mtsSessionInfo containing
          appInsId indicating value APP_INSTANCE_ID,
          requestType indicating value 0, // APPLICATION_SPECIFIC_MTS_ALLOCATION
          qosD indicating value SOME_NEW_ALLOCATION,
          mtsMode indicating value LOW_COST,
          trafficDirection indicating value "00"

    to the MEC_APP entity
  }
}

```

Table 6.7.1-12: TP_MEC_MEC015_SRV_MTS_005_BR

TP Id	"TP_MEC_MEC015_SRV_MTS_005_BR"
Test Objective	Check that the IUT responds with an error when a request with incorrect parameters is sent by a MEC Application
Reference	ETSI GS MEC 015 (V2.1.1) [8], clause 9.4.3.2 https://forge.etsi.org/rep/mec/gs015-bandwidth-mgmt-api/-/blob/v2.1.1/BwManagementApi.yaml
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	
<pre> with { the IUT being in idle_state and the MEC_APP having a mtsSessionInfo containing sessionId indicating value MTS_SESSION_ID } </pre>	
Expected Behaviour	
<pre> // MEC 015 Clause 7.2.5 ensure that { when { the IUT receives a vPUT containing uri indicating value "mts/v1/mts_sessions/{sessionId}", // Wrong parameter name should trigger an error response. query_parameters indicating value MTS_SESSION_ID, body containing mtsSessionInfo containing appInsId indicating value APP_INSTANCE_ID, requestType indicating value 0, // APPLICATION_SPECIFIC_MTS_ALLOCATION // MEC015 Clause 7.2.5 Type: MtsSessionInfo Table 7.2.5-1: Elements of MtsSessionInfo, flowFilter shall be omit flowFilter indicating value FLOW_FILTER, qosD indicating value SOME_NEW_ALLOCATION, mtsMode indicating value LOW_COST, trafficDirection indicating value "00" from the MEC_APP entity } then { // MEC 015 Clause 8.3.3.2 the IUT sends a HTTP_RESPONSE containing status_code set to "400 Bad Request" to the MEC_APP entity } } </pre>	

```
}
}
```

Table 6.7.1-13: TP_MEC_MEC015_SRV_MTS_005_NF

TP Id	"TP_MEC_MEC015_SRV_MTS_005_NF"
Test Objective	Check that the IUT responds with an error when a request with an unknown resource URI is sent by a MEC Application
Reference	ETSI GS MEC 015 (V2.1.1) [8], clause 9.4.3.2 https://forge.etsi.org/rep/mec/gs015-bandwidth-mgmt-api/-/blob/v2.1.1/BwManagementApi.yaml
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	
<pre>with { the IUT being_in idle_state and the MEC_APP having a mtsSessionInfo containing sessionId indicating value MTS_SESSION_ID }</pre>	
Expected Behaviour	
<pre>// MEC 015 Clause 7.2.5 ensure that { when { the IUT receives a vPUT containing uri indicating value "mts/v1/mts_sessions/{sessionId}", query_parameters indicating value MTS_UNKNOWN_SESSION_ID, body containing mtsSessionInfo containing appInstId indicating value APP_INSTANCE_ID, requestType indicating value 0, // APPLICATION_SPECIFIC_MTS_ALLOCATION flowFilter indicating value FLOW_FILTER, qosD indicating value SOME_NEW_ALLOCATION, mtsMode indicating value LOW_COST, trafficDirection indicating value "00" from the MEC_APP entity } then { // MEC 015 Clause 8.3.3.2 the IUT sends a HTTP_RESPONSE containing status_code set to "404 Not Found" to the MEC_APP entity } }</pre>	

Table 6.7.1-14: TP_MEC_MEC015_SRV_MTS_006_OK

TP Id	"TP_MEC_MEC015_SRV_MTS_006_OK"
Test Objective	Check that the IUT deregisters a MTS session when commanded by a MEC Application
Reference	ETSI GS MEC 015 (V2.1.1) [8], clause 9.4.3.3 https://forge.etsi.org/rep/mec/gs015-bandwidth-mgmt-api/-/blob/v2.1.1/BwManagementApi.yaml
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	
<pre>with { the IUT being_in idle_state and the MEC_APP having a mtsSessionInfo containing sessionId indicating value MTS_SESSION_ID }</pre>	
Expected Behaviour	
<pre>// MEC 015 Clause 7.2.5 ensure that { when { the IUT receives a vDELETE containing uri indicating value "mts/v1/mts_sessions/{sessionId}", query_parameters containing</pre>	

```

        sessionId indicating value MTS_SESSION_ID

    from the MEC_APP entity
}
then {
    // MEC 015 Clause 8.3.3.2
    the IUT sends a HTTP_RESPONSE containing
        status_code set to "204 No Content"

    to the MEC_APP entity
}
}

```

Table 6.7.1-15: TP_MEC_MEC015_SRV_MTS_006_NF

TP Id	"TP_MEC_MEC015_SRV_MTS_006_NF"
Test Objective	Check that the IUT responds with an error when a request with an unknown resource URI is sent by a MEC Application
Reference	ETSI GS MEC 015 (V2.1.1) [8], clause 9.4.3.3 https://forge.etsi.org/rep/mec/gs015-bandwidth-mgmt-api/-/blob/v2.1.1/BwManagementApi.yaml
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	
<pre> with { the IUT being_in idle_state and the MEC_APP having a mtsSessionInfo containing sessionId indicating value MTS_SESSION_ID } </pre>	
Expected Behaviour	
<pre> // MEC 015 Clause 7.2.5 ensure that { when { the IUT receives a vDELETE containing uri indicating value "mts/v1/mts_sessions/{sessionId}", query_parameters containing sessionId indicating value MTS_UNKNOWN_SESSION_ID from the MEC_APP entity } then { // MEC 015 Clause 8.3.3.2 the IUT sends a HTTP_RESPONSE containing status_code set to "404 Not Found" to the MEC_APP entity } } </pre>	

6.7.1.2 Traffic Management (TM)

Table 6.7.1-16: TP_MEC_MEC015_SRV_TM_001_OK

TP Id	"TP_MEC_MEC015_SRV_TM_001_OK"
Test Objective	Check that the IUT responds with the list of configured bandwidth allocations when queried by a MEC Application
Reference	ETSI GS MEC 015 (V2.1.1) [8], clause 8.4.3.1 https://forge.etsi.org/rep/mec/gs015-bandwidth-mgmt-api/-/blob/v2.1.1/BwManagementApi.yaml
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	
<pre> with { the IUT being_in idle_state and the MEC_APP having a oneOrmore bwInfo } </pre>	
Expected Behaviour	
<pre> // MEC 015 Clause 6.2.5 ensure that { </pre>	

```

when {
  the IUT receives a vGET containing
    uri indicating value "bwm/v1/bw_allocations"

  from the MEC_APP entity
}
then {
  // MEC 015 Clause 8.4.3.1
  the IUT sends a HTTP_RESPONSE containing
    status_code set to "200 OK"
    body containing
      bwInfoList containing
        oneOrmore bwInfo containing
          appInsId set to APP_INSTANCE_ID

  to the MEC_APP entity
}
}

```

Table 6.7.1-17: TP_MEC_MEC015_SRV_TM_002_OK

TP Id	"TP_MEC_MEC015_SRV_TM_002_OK"
Test Objective	Check that the IUT responds with a configured bandwidth allocation when queried by a MEC Application
Reference	ETSI GS MEC 015 (V2.1.1) [8], clause 8.4.3.1 https://forge.etsi.org/rep/mec/gs015-bandwidth-mgmt-api/-/blob/v2.1.1/BwManagementApi.yaml
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	
<pre> with { the IUT being_in idle_state and the MEC_APP having a bwInfo containing appInsId indicating value APP_INSTANCE_ID } </pre>	
Expected Behaviour	
<pre> // MEC 015 Clause 6.2.5 ensure that { when { the IUT receives a vGET containing uri indicating value "bwm/v1/bw_allocations", query_parameters containing app_instance_id indicating value APP_INSTANCE_ID from the MEC_APP entity } then { // MEC 015 Clause 8.4.3.1 the IUT sends a HTTP_RESPONSE containing status_code set to "200 OK" body containing bwInfoList containing appInsId set to APP_INSTANCE_ID to the MEC_APP entity } } </pre>	

Table 6.7.1-18: TP_MEC_MEC015_SRV_TM_002_BR

TP Id	"TP_MEC_MEC015_SRV_TM_002_BR"
Test Objective	Check that the IUT responds with an error when a request with incorrect parameters is sent by a MEC Application
Reference	ETSI GS MEC 015 (V2.1.1) [8], clause 8.4.3.1 https://forge.etsi.org/rep/mec/gs015-bandwidth-mgmt-api/-/blob/v2.1.1/BwManagementApi.yaml
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	
<pre>with { the IUT being_in idle_state and the MEC_APP having a bwInfo containing appInsId indicating value APP_INSTANCE_ID }</pre>	
Expected Behaviour	
<pre>// MEC 015 Clause 6.2.5 ensure that { when { the IUT receives a vGET containing uri indicating value "bwm/v1/bw_allocations", query_parameters containing // Wrong parameter name should trigger an error response. appInsId indicating value APP_INSTANCE_ID from the MEC_APP entity } then { // MEC 015 Clause 8.4.3.1 the IUT sends a HTTP_RESPONSE containing status_code set to "400 Bad Request" to the MEC_APP entity } }</pre>	

Table 6.7.1-19: TP_MEC_MEC015_SRV_TM_002_NF

TP Id	"TP_MEC_MEC015_SRV_TM_002_NF"
Test Objective	Check that the IUT responds with an error when a request with an unknown resource URI is sent by a MEC Application
Reference	ETSI GS MEC 015 (V2.1.1) [8], clause 8.3.3.1 https://forge.etsi.org/rep/mec/gs015-bandwidth-mgmt-api/-/blob/v2.1.1/BwManagementApi.yaml
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	
<pre>with { the IUT being_in idle_state and the MEC_APP having a bwInfo containing appInsId indicating value APP_INSTANCE_ID }</pre>	
Expected Behaviour	
<pre>// MEC 015 Clause 6.2.5 ensure that { when { the IUT receives a vGET containing uri indicating value "bwm/v1/bw_allocations", query_parameters containing appInsId indicating value APP_UNKNOWN_INSTANCE_ID from the MEC_APP entity } then { // MEC 015 Clause 8.3.3.1 the IUT sends a HTTP_RESPONSE containing status_code set to "404 Not Found" to the MEC_APP entity } }</pre>	

```
}
}
```

Table 6.7.1-20: TP_MEC_MEC015_SRV_TM_003_OK_01

TP Id	"TP_MEC_MEC015_SRV_TM_003_OK_01"
Test Objective	Check that the IUT responds with a information about a list of bandwidthAllocation resources
Reference	ETSI GS MEC 015 (V2.1.1) [8], clause 8.4.3.4 https://forge.etsi.org/rep/mec/qs015-bandwidth-mgmt-api/-/blob/v2.1.1/BwManagementApi.yaml
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	
<pre>with { the IUT being_in idle_state and the MEC_APP having a app_instance containing appInsId indicating value APP_INSTANCE_ID }</pre>	
Expected Behaviour	
<pre>// MEC 015 Clause 6.2.2 and Table 7.2.2-1: Elements of BwInfo, sessionFilter ensure that { when { the IUT receives a vPOST containing uri indicating value "bwm/v1/bw_allocations", body containing bwInfo containing appInsId indicating value APP_INSTANCE_ID, requestType indicating value APPLICATION_SPECIFIC_BW_ALLOCATION, sessionFilter indicating value omit, fixedAllocation indicating value SOME_ALLOCATION, allocationDirection indicating value SOME_DIRECTION from the MEC_APP entity } then { // MEC 015 Clause 8.4.3.4 the IUT sends a HTTP_RESPONSE containing status_code set to "201 Created", Location set to BW_ALLOCATION_ID, body containing bwInfo containing appInsId set to APP_INSTANCE_ID, requestType indicating value APPLICATION_SPECIFIC_BW_ALLOCATION, sessionFilter indicating value omit, fixedAllocation indicating value SOME_ALLOCATION, allocationDirection indicating value SOME_DIRECTION to the MEC_APP entity } }</pre>	

Table 6.7.1-21: TP_MEC_MEC015_SRV_TM_003_OK_02

TP Id	"TP_MEC_MEC015_SRV_TM_003_OK_02"
Test Objective	Check that the IUT responds with a information about a list of bandwidthAllocation resources
Reference	ETSI GS MEC 015 (V2.1.1) [8], clause 8.4.3.4 https://forge.etsi.org/rep/mec/qs015-bandwidth-mgmt-api/-/blob/v2.1.1/BwManagementApi.yaml
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	
<pre>with { the IUT being_in idle_state and the MEC_APP having a app_instance containing appInsId indicating value APP_INSTANCE_ID }</pre>	

Expected Behaviour
<pre>// MEC 015 Clause 6.2.2 and Table 7.2.2-1: Elements of BwInfo, sessionFilter ensure that { when { the IUT receives a vPOST containing uri indicating value "bwm/v1/bw_allocations", body containing bwInfoList containing appInsId indicating value APP_INSTANCE_ID, requestType indicating value SESSION_SPECIFIC_BW_ALLOCATION, sessionFilter indicating value SESSION_FILTER, fixedAllocation indicating value SOME_ALLOCATION, allocationDirection indicating value SOME_DIRECTION from the MEC_APP entity } then { // MEC 015 Clause 8.4.3.4 the IUT sends a HTTP_RESPONSE containing status_code set to "201 Created", Location indicating value BW_ALLOCATION_ID, body containing bwInfo containing appInsId set to APP_INSTANCE_ID, requestType indicating value APPLICATION_SPECIFIC_BW_ALLOCATION, sessionFilter indicating value omit, fixedAllocation indicating value SOME_ALLOCATION, allocationDirection indicating value SOME_DIRECTION to the MEC_APP entity } }</pre>

Table 6.7.1-22: TP_MEC_MEC015_SRV_TM_003_BR_01

TP Id	"TP_MEC_MEC015_SRV_TM_003_BR_01"
Test Objective	Check that the IUT responds with an error when a request with incorrect parameters is sent by a MEC Application
Reference	ETSI GS MEC 015 (V2.1.1) [8], clause 8.4.3.4 https://forge.etsi.org/rep/mec/gs015-bandwidth-mgmt-api/-/blob/v2.1.1/BwManagementApi.yaml
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	
<pre>with { the IUT being_in idle_state and the MEC_APP having a app_instance containing appInsId indicating value APP_INSTANCE_ID }</pre>	
Expected Behaviour	
<pre>// MEC 015 Clause 6.2.2 ensure that { when { the IUT receives a vPOST containing uri indicating value "bwm/v1/bw_allocations", body containing bwInfoList containing appInsId indicating value APP_INSTANCE_ID, requestType indicating value APPLICATION_SPECIFIC_BW_ALLOCATION, sessionFilter indicating value omit, fixedAllocation indicating value INVALID_ALLOCATION from the MEC_APP entity } then { // MEC 015 Clause 8.4.3.4 the IUT sends a HTTP_RESPONSE containing status_code set to "400 Bad Request"</pre>	

```

    to the MEC_APP entity
  }
}

```

Table 6.7.1-23: TP_MEC_MEC015_SRV_TM_003_BR_02

TP Id	"TP_MEC_MEC015_SRV_TM_003_BR_02"
Test Objective	Check that the IUT responds with an error when a request with incorrect parameters is sent by a MEC Application
Reference	ETSI GS MEC 015 (V2.1.1) [8], clause 8.4.3.4 https://forge.etsi.org/rep/mec/gs015-bandwidth-mgmt-api/-/blob/v2.1.1/BwManagementApi.yaml
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	
<pre> with { the IUT being_in idle_state and the MEC_APP having a app_instance containing appInsId indicating value APP_INSTANCE_ID } </pre>	
Expected Behaviour	
<pre> // MEC 015 Clause 6.2.2 ensure that { when { the IUT receives a vPOST containing uri indicating value "bwm/v1/bw_allocations", body containing bwInfoList containing appInsId indicating value APP_INSTANCE_ID, requestType indicating value APPLICATION_SPECIFIC_BW_ALLOCATION, // MEC015 Clause 7.2.2 Type: BwInfo Table 7.2.2-1: Elements of BwInfo, sessionFilter shall be omit sessionFilter indicating value SESSION_FILTER_VALUE, fixedAllocation indicating value INVALID_ALLOCATION from the MEC_APP entity } then { // MEC 015 Clause 8.4.3.4 the IUT sends a HTTP_RESPONSE containing status_code set to "400 Bad Request" to the MEC_APP entity } } </pre>	

Table 6.7.1-24: TP_MEC_MEC015_SRV_TM_003_BR_03

TP Id	"TP_MEC_MEC015_SRV_TM_003_BR_03"
Test Objective	Check that the IUT responds with an error when a request with incorrect parameters is sent by a MEC Application
Reference	ETSI GS MEC 015 (V2.1.1) [8], clause 8.4.3.4 https://forge.etsi.org/rep/mec/gs015-bandwidth-mgmt-api/-/blob/v2.1.1/BwManagementApi.yaml
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	
<pre> with { the IUT being_in idle_state and the MEC_APP having a app_instance containing appInsId indicating value APP_INSTANCE_ID } </pre>	
Expected Behaviour	
<pre> // MEC 015 Clause 6.2.2 ensure that { when { the IUT receives a vPOST containing uri indicating value "bwm/v1/bw_allocations", </pre>	

```

    body containing
      bwInfoList containing
        appInsId indicating value APP_INSTANCE_ID,
        requestType indicating value SESSION_SPECIFIC_BW_ALLOCATION,
        // MEC015 Clause 7.2.2 Type: BwInfo Table 7.2.2-1: Elements of BwInfo,
sessionFilter shall be present
        sessionFilter indicating value omit,
        fixedAllocation indicating value INVALID_ALLOCATION

    from the MEC_APP entity
  }
  then {
    // MEC 015 Clause 8.4.3.4
    the IUT sends a HTTP_RESPONSE containing
      status_code set to "400 Bad Request"

    to the MEC_APP entity
  }
}

```

Table 6.7.1-25: TP_MEC_MEC015_SRV_TM_004_OK

TP Id	"TP_MEC_MEC015_SRV_TM_004_OK"
Test Objective	Check that the IUT responds with the configured bandwidth allocation when queried by a MEC Application
Reference	ETSI GS MEC 015 (V2.1.1) [8], clause 8.3.3.1 https://forge.etsi.org/rep/mec/gs015-bandwidth-mgmt-api/-/blob/v2.1.1/BwManagementApi.yaml
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	
<pre> with { the IUT being_in idle_state and the MEC_APP having a app_instance containing appInsId indicating value APP_INSTANCE_ID } </pre>	
Expected Behaviour	
<pre> // MEC 015 Clause 6.2.2 ensure that { when { the IUT receives a vGET containing uri indicating value "bwm/v1/bw_allocations/{allocationId}", query_parameters containing allocationId indicating value BW_ALLOCATION_ID from the MEC_APP entity } then { // MEC 015 Clause 8.4.3.1 the IUT sends a HTTP_RESPONSE containing status_code set to "200 OK", body containing bwInfo containing appInsId set to APP_INSTANCE_ID to the MEC_APP entity } } </pre>	

Table 6.7.1-26: TP_MEC_MEC015_SRV_TM_004_NF

TP Id	"TP_MEC_MEC015_SRV_TM_004_NF"
Test Objective	Check that the IUT responds with an error when a request for an unknown URI is sent by a MEC Application
Reference	ETSI GS MEC 015 (V2.1.1) [8], clause 8.3.3.1 https://forge.etsi.org/rep/mec/gs015-bandwidth-mgmt-api/-/blob/v2.1.1/BwManagementApi.yaml
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	
<pre>with { the IUT being_in idle_state and the MEC_APP having a app_instance containing appInsId indicating value APP_INSTANCE_ID }</pre>	
Expected Behaviour	
<pre>// MEC 015 Clause 6.2.2 ensure that { when { the IUT receives a vGET containing uri indicating value "bwm/v1/bw_allocations/{allocationId}", query_parameters containing allocationId indicating value BW_UNKNOWN_ALLOCATION_ID from the MEC_APP entity } then { // MEC 015 Clause 8.4.3.1 the IUT sends a HTTP_RESPONSE containing status_code set to "404 Not Found" to the MEC_APP entity } }</pre>	

Table 6.7.1-27: TP_MEC_MEC015_SRV_TM_005_OK

TP Id	"TP_MEC_MEC015_SRV_TM_005_OK"
Test Objective	Check that the IUT updates the requested bandwidth requirements when commanded by a MEC Application
Reference	ETSI GS MEC 015 (V2.1.1) [8], clause 8.3.3.2 https://forge.etsi.org/rep/mec/gs015-bandwidth-mgmt-api/-/blob/v2.1.1/BwManagementApi.yaml
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	
<pre>with { the IUT being_in idle_state and the MEC_APP having a app_instance containing appInsId indicating value APP_INSTANCE_ID }</pre>	
Expected Behaviour	
<pre>// MEC 015 Clause 6.2.4 ensure that { when { the IUT receives a vPUT containing uri indicating value "bwm/v1/bw_allocations/{allocationId}", query_parameters containing allocationId indicating value BW_ALLOCATION_ID, body containing bwInfo containing appInsId indicating value APP_INSTANCE_ID, fixedAllocation indicating value SOME_NEW_ALLOCATION, allocationDirection indicating value SOME_DIRECTION from the MEC_APP entity } then { // MEC 015 Clause 8.3.3.2</pre>	

```

the IUT sends a HTTP_RESPONSE containing
status_code set to "200 OK"
body containing
  bwInfo containing
    appInsId set to APP_INSTANCE_ID,
    fixedAllocation set to SOME_ALLOCATION,
    allocationDirection set to SOME_DIRECTION

to the MEC_APP entity
}
}

```

Table 6.7.1-28: TP_MEC_MEC015_SRV_TM_005_BR

TP Id	"TP_MEC_MEC015_SRV_TM_005_BR"
Test Objective	Check that the IUT responds with an error when a request with incorrect parameters is sent by a MEC Application
Reference	ETSI GS MEC 015 (V2.1.1) [8], clause 8.3.3.2 https://forge.etsi.org/rep/mec/gs015-bandwidth-mgmt-api/-/blob/v2.1.1/BwManagementApi.yaml
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	
<pre> with { the IUT being_in idle_state and the MEC_APP having a app_instance containing appInsId indicating value APP_INSTANCE_ID } </pre>	
Expected Behaviour	
<pre> // MEC 015 Clause 6.2.4 ensure that { when { the IUT receives a vPUT containing uri indicating value "bwm/v1/bw_allocations/{allocationId}", query_parameters containing allocationId indicating value BW_ALLOCATION_ID, body containing bwInfo containing appInsId indicating value APP_INSTANCE_ID, fixedAllocation indicating value SOME_ALLOCATION, allocationDirection indicating value INVALID_DIRECTION from the MEC_APP entity } then { // MEC 015 Clause 8.3.3.2 the IUT sends a HTTP_RESPONSE containing status_code set to "400 Bad Request" to the MEC_APP entity } } </pre>	

Table 6.7.1-29: TP_MEC_MEC015_SRV_TM_005_NF

TP Id	"TP_MEC_MEC015_SRV_TM_005_NF"
Test Objective	Check that the IUT responds with an error when a request for an unknown URI is sent by a MEC Application
Reference	ETSI GS MEC 015 (V2.1.1) [8], clause 8.3.3.2 https://forge.etsi.org/rep/mec/gs015-bandwidth-mgmt-api/-/blob/v2.1.1/BwManagementApi.yaml
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	
<pre> with { the IUT being_in idle_state and the MEC_APP having a app_instance containing appInsId indicating value APP_INSTANCE_ID } </pre>	

Expected Behaviour
<pre> } // MEC 015 Clause 6.2.4 ensure that { when { the IUT receives a vPUT containing uri indicating value "bwm/v1/bw_allocations/{allocationId}", query_parameters containing allocationId indicating value BW_UNKNOWN_ALLOCATION_ID, body containing bwInfo containing appInsId indicating value APP_INSTANCE_ID, fixedAllocation indicating value SOME_ALLOCATION, allocationDirection indicating value SOME_DIRECTION from the MEC_APP entity } then { // MEC 015 Clause 8.3.3.2 the IUT sends a HTTP_RESPONSE containing status_code set to "404 Not Found" to the MEC_APP entity } } </pre>

Table 6.7.1-30: TP_MEC_MEC015_SRV_TM_006_OK

TP Id	"TP_MEC_MEC015_SRV_TM_006_OK"
Test Objective	Check that the IUT when provided with just the changes (deltas) updates the requested bandwidth requirements when commanded by a MEC Application
Reference	ETSI GS MEC 015 (V2.1.1) [8], clause 8.3.3.3 https://forge.etsi.org/rep/mec/qs015-bandwidth-mgmt-api/-/blob/v2.1.1/BwManagementApi.yaml
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	
<pre> with { the IUT being_in idle_state and the MEC_APP having a app_instance containing appInsId indicating value APP_INSTANCE_ID } </pre>	
Expected Behaviour	
<pre> // MEC 015 Clause 6.2.4 ensure that { when { the IUT receives a vPATCH containing uri indicating value "bwm/v1/bw_allocations/{allocationId}", query_parameters containing allocationId indicating value BW_ALLOCATION_ID, body containing bwInfoDeltas containing appInsId indicating value APP_INSTANCE_ID, fixedAllocation indicating value SOME_ALLOCATION, allocationDirection indicating value SOME_DIRECTION from the MEC_APP entity } then { // MEC 015 Clause 8.3.3.3 the IUT sends a HTTP_RESPONSE containing status_code set to "200 OK" body containing bwInfo containing appInsId set to APP_INSTANCE_ID, fixedAllocation set to SOME_ALLOCATION, allocationDirection set to SOME_DIRECTION } } </pre>	

```

    to the MEC_APP entity
  }
}

```

Table 6.7.1-31: TP_MEC_MEC015_SRV_TM_006_BR

TP Id	"TP_MEC_MEC015_SRV_TM_006_BR"
Test Objective	Check that the IUT responds with an error when a request with incorrect parameters is sent by a MEC Application
Reference	ETSI GS MEC 015 (V2.1.1) [8], clause 8.3.3.3 https://forge.etsi.org/rep/mec/qs015-bandwidth-mgmt-api/-/blob/v2.1.1/BwManagementApi.yaml
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	
<pre> with { the IUT being_in idle_state and the MEC_APP having a app_instance containing appInsId indicating value APP_INSTANCE_ID } </pre>	
Expected Behaviour	
<pre> // MEC 015 Clause 6.2.4 ensure that { when { the IUT receives a vPATCH containing uri indicating value "bwm/v1/bw_allocations/{allocationId}", query_parameters containing allocationId indicating value BW_ALLOCATION_ID, body containing bwInfo containing appInsId indicating value APP_INSTANCE_ID, requestType indicating value INVALID_TYPE, fixedAllocation indicating value SOME_ALLOCATION, allocationDirection indicating value SOME_DIRECTION from the MEC_APP entity } then { // MEC 015 Clause 8.3.3.3 the IUT sends a HTTP_RESPONSE containing status_code set to "400 Bad Request" to the MEC_APP entity } } </pre>	

Table 6.7.1-32: TP_MEC_MEC015_SRV_TM_006_NF

TP Id	"TP_MEC_MEC015_SRV_TM_006_NF"
Test Objective	Check that the IUT responds with an error when a request for an unknown URI is sent by a MEC Application
Reference	ETSI GS MEC 015 (V2.1.1) [8], clause 8.3.3.3 https://forge.etsi.org/rep/mec/qs015-bandwidth-mgmt-api/-/blob/v2.1.1/BwManagementApi.yaml
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	
<pre> with { the IUT being_in idle_state and the MEC_APP having a app_instance containing appInsId indicating value APP_INSTANCE_ID } </pre>	
Expected Behaviour	
<pre> // MEC 015 Clause 6.2.4 ensure that { when { the IUT receives a vPATCH containing </pre>	

```

uri indicating value "bwm/v1/bw_allocations/{allocationId}",
query_parameters containing
  allocationId indicating value BW_UNKNOWN_ALLOCATION_ID,
body containing
  bwInfo containing
    appInsId indicating value APP_INSTANCE_ID,
    fixedAllocation indicating value SOME_ALLOCATION,
    allocationDirection indicating value SOME_DIRECTION

from the MEC_APP entity
}
then {
  // MEC 015 Clause 8.3.3.3
  the IUT sends a HTTP_RESPONSE containing
    status_code set to "404 Not Found"

to the MEC_APP entity
}
}

```

Table 6.7.1-33: TP_MEC_MEC015_SRV_TM_007_OK

TP Id	"TP_MEC_MEC015_SRV_TM_007_OK"
Test Objective	Check that the IUT unregisters from the Bandwidth Management Service when commanded by a MEC Application
Reference	ETSI GS MEC 015 (V2.1.1) [8], clause 8.3.3.5 https://forge.etsi.org/rep/mec/gs015-bandwidth-mgmt-api/-/blob/v2.1.1/BwManagementApi.yaml
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	
<pre> with { the IUT being_in idle_state and the MEC_APP having a allocation_instance containing allocationId indicating value BW_ALLOCATION_ID } </pre>	
Expected Behaviour	
<pre> // MEC 015 Clause 6.2.3 ensure that { when { the IUT receives a vDELETE containing uri indicating value "bwm/v1/bw_allocations/{allocationId}", query_parameters containing allocationId indicating value BW_UNKNOWN_ALLOCATION_ID from the MEC_APP entity } then { // MEC 015 Clause 8.3.3.5 the IUT sends a HTTP_RESPONSE containing status_code set to "204 No Content" to the MEC_APP entity } } </pre>	

Table 6.7.1-34: TP_MEC_MEC015_SRV_TM_007_NF

TP Id	"TP_MEC_MEC015_SRV_TM_007_NF"
Test Objective	Check that the IUT responds with an error when a request for an unknown URI is sent by a MEC Application
Reference	ETSI GS MEC 015 (V2.1.1) [8], clause 8.3.3.5 https://forge.etsi.org/rep/mec/gs015-bandwidth-mgmt-api/-/blob/v2.1.1/BwManagementApi.yaml
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	
<pre> with { the IUT being_in idle_state and </pre>	

<pre> the MEC_APP "not" having a allocation_instance containing allocationId indicating value BW_ALLOCATION_ID } </pre>
Expected Behaviour
<pre> // MEC 015 Clause 6.2.3 ensure that { when { the IUT receives a vDELETE containing uri indicating value "bwm/v1/bw_allocations/{allocationId}", query_parameters containing allocationId indicating value BW_UNKNOWN_ALLOCATION_ID from the MEC_APP entity } then { // MEC 015 Clause 8.3.3.5 the IUT sends a HTTP_RESPONSE containing status_code set to "404 Not Found" to the MEC_APP entity } } </pre>

6.8 MEC016

6.8.1 Multi-access Edge Orchestrator (MEO)

6.8.1.1 UE Application Contexts (UEAPPCTX)

Table 6.8.1-1: TP_MEC_MEC016_MEO_UEAPPCTX_001_OK

TP Id	"TP_MEC_MEC016_MEO_UEAPPCTX_001_OK"
Test Objective	Check that the IUT acknowledges the creation of the application context when requested by an UE Application
Reference	ETSI GS MEC 016 (V2.2.1) [9], clause 7.4.3.4 https://forge.etsi.org/rep/mec/gs016-dev-app-api/-/blob/v2.2.1/UEAppInterfaceApi.yaml
Configuration	Config_MEC_4
PICS Selection	PIC_MEC_SYSTEM and PIC_SERVICES
Initial Conditions	
<pre> with { the IUT being_in idle_state } </pre>	
Expected Behaviour	
<pre> // MEC 016, clause 5.1.3 ensure that { when { the IUT receives a vPOST containing uri indicating value "/dev_app/v1/app_contexts", body containing AppContext containing appInfo containing appName set to APP_NAME from the Dev_App entity } then { // MEC 016, clause 7.4.3.4 the IUT sends a HTTP_RESPONSE containing status_code set to "201 Created", Location set to LOCATION, body containing AppContext containing appInfo containing appName set to APP_NAME </pre>	

```

    to the Dev_App entity
  }
}

```

Table 6.8.1-2: TP_MEC_MEO_UEAPPCTX_001_BR

TP Id	"TP_MEC_MEC016_MEO_UEAPPCTX_001_BR"
Test Objective	Check that the IUT responds with an error when a request with incorrect parameters is sent by a MEC Application
Reference	ETSI GS MEC 016 (V2.2.1) [9], clause 7.4.3.4 https://forge.etsi.org/rep/mec/g016-dev-app-api/-/blob/v2.2.1/UEAppInterfaceApi.yaml
Configuration	Config_MEC_4
PICS Selection	PIC_MEC_SYSTEM and PIC_SERVICES
Initial Conditions	
with { the IUT being_in idle_state }	
Expected Behaviour	
<pre> // MEC 016, clause 5.1.3 ensure that { when { the IUT receives a vPOST containing uri indicating value "/dev_app/v1/app_contexts", body containing AppContext containing appInfo containing // Wrong parameter name should trigger an error response. app set to APP_NAME from the Dev_App entity } then { // MEC 016, clause 7.4.3.4 the IUT sends a HTTP_RESPONSE containing status_code set to "400 Bad Request" to the Dev_App entity } } </pre>	

Table 6.8.1-3: TP_MEC_MEC016_MEO_UEAPPCTX_001_NF

TP Id	"TP_MEC_MEC016_MEO_UEAPPCTX_001_NF"
Test Objective	Check that the IUT responds with an error when a request with incorrect URL is sent by a MEC Application
Reference	ETSI GS MEC 016 (V2.2.1) [9], clause 7.4.3.4 https://forge.etsi.org/rep/mec/g016-dev-app-api/-/blob/v2.2.1/UEAppInterfaceApi.yaml
Configuration	Config_MEC_4
PICS Selection	PIC_MEC_SYSTEM and PIC_SERVICES
Initial Conditions	
with { the IUT being_in idle_state }	
Expected Behaviour	
<pre> // MEC 016, clause 5.1.3 ensure that { when { the IUT receives a vPOST containing // Wrong URL parameter should trigger an error response. uri indicating value "/dev_app/v1/app_contexts_error", body containing AppContext containing appInfo containing appName set to APP_NAME </pre>	

```

    from the Dev_App entity
  }
  then {
    // MEC 016, clause 7.4.3.4
    the IUT sends a HTTP_RESPONSE containing
      status_code set to "404 Not Found"

    to the Dev_App entity
  }
}

```

Table 6.8.1-4: TP_MEC_MEC016_MEO_UEAPPCTX_002_OK

TP Id	"TP_MEC_MEC016_MEO_UEAPPCTX_002_OK"
Test Objective	Check that the IUT updates the application callback reference when commanded by an UE Application
Reference	ETSI GS MEC 016 (V2.2.1) [9], clause 7.5.3.2 https://forge.etsi.org/rep/mec/qs016-dev-app-api/-/blob/v2.2.1/UEAppInterfaceApi.yaml
Configuration	Config_MEC_4
PICS Selection	PIC_MEC_SYSTEM and PIC_SERVICES
Initial Conditions	
<pre> with { the IUT being_in idle_state and the Dev_App having a appContext containing contextId indicating value CONTEXT_ID } </pre>	
Expected Behaviour	
<pre> // MEC 016, clause 5.1.5 ensure that { when { the IUT receives a vPUT containing uri indicating value "/dev_app/v1/app_contexts/{CONTEXT_ID}" body containing AppContext containing callbackReference indicating value some_uri from the Dev_App entity } then { // MEC 016, clause 7.5.3.2 the IUT sends a HTTP_RESPONSE containing status_code set to "204 No Content" to the Dev_App entity } } </pre>	

Table 6.8.1-5: TP_MEC_MEC016_MEO_UEAPPCTX_002_BR

TP Id	"TP_MEC_MEC016_MEO_UEAPPCTX_002_BR"
Test Objective	Check that the IUT responds with an error when a request with incorrect parameters is sent by a MEC Application
Reference	ETSI GS MEC 016 (V2.2.1) [9], clause 7.5.3.2 https://forge.etsi.org/rep/mec/qs016-dev-app-api/-/blob/v2.2.1/UEAppInterfaceApi.yaml
Configuration	Config_MEC_4
PICS Selection	PIC_MEC_SYSTEM and PIC_SERVICES
Initial Conditions	
<pre> with { the IUT being_in idle_state and the Dev_App having a appContext containing contextId indicating value CONTEXT_ID } </pre>	

Expected Behaviour
<pre>// MEC 016, clause 5.1.5 ensure that { when { the IUT receives a vPUT containing uri indicating value "/dev_app/v1/app_contexts/{CONTEXT_ID}" body containing ApplicationContext containing // A parameter not legible for update should trigger an error response. associateUeAppId indicating value some_value from the Dev_App entity } then { // MEC 016, clause 7.5.3.2 the IUT sends a HTTP_RESPONSE containing status_code set to "400 Bad Request" to the Dev_App entity } }</pre>

Table 6.8.1-6: TP_MEC_MEC016_MEO_UEAPPCTX_002_NF

TP Id	"TP_MEC_MEC016_MEO_UEAPPCTX_002_NF"
Test Objective	Check that the IUT responds with an error when a request for an unknown URI is sent by a MEC Application
Reference	ETSI GS MEC 016 (V2.2.1) [9], clause 7.5.3.2 https://forge.etsi.org/rep/mec/gs016-dev-app-api/-/blob/v2.2.1/UEAppInterfaceApi.yaml
Configuration	Config_MEC_4
PICS Selection	PIC_MEC_SYSTEM and PIC_SERVICES
Initial Conditions	
<pre>with { the IUT being_in idle_state and the Dev_App "not" having a appContext containing contextId indicating value NON_EXISTENT_CONTEXT_ID }</pre>	
Expected Behaviour	
<pre>// MEC 016, clause 5.1.5 ensure that { when { the IUT receives a vPUT containing uri indicating value "/dev_app/v1/app_contexts/{NON_EXISTENT_CONTEXT_ID}", body containing ApplicationContext containing callbackReference indicating value some_uri from the Dev_App entity } then { // MEC 016, clause 7.5.3.2 the IUT sends a HTTP_RESPONSE containing status_code set to "404 Not Found" to the Dev_App entity } }</pre>	

Table 6.8.1-7: TP_MEC_MEC016_MEO_UEAPPCTX_003_OK

TP Id	"TP_MEC_MEC016_MEO_UEAPPCTX_003_OK"
Test Objective	Check that the IUT deletes the application context when commanded by an UE Application
Reference	ETSI GS MEC 016 (V2.2.1) [9], clause 7.5.3.5 https://forge.etsi.org/rep/mec/gs016-dev-app-api/-/blob/v2.2.1/UEAppInterfaceApi.yaml
Configuration	Config_MEC_4
PICS Selection	PIC_MEC_SYSTEM and PIC_SERVICES
Initial Conditions	
<pre>with { the IUT being_in idle_state and the Dev_App having a appContext containing contextId indicating value CONTEXT_ID }</pre>	
Expected Behaviour	
<pre>// MEC 016, clause 5.1.4 ensure that { when { the IUT receives a vDELETE containing uri indicating value "/dev_app/v1/app_contexts/{CONTEXT_ID}" from the Dev_App entity } then { // MEC 016, clause 7.5.3.5 the IUT sends a HTTP_RESPONSE containing status_code set to "204 No Content" to the Dev_App entity } }</pre>	

Table 6.8.1-8: TP_MEC_MEC016_MEO_UEAPPCTX_003_NF

TP Id	"TP_MEC_MEC016_MEO_UEAPPCTX_003_NF"
Test Objective	Check that the IUT responds with an error when a request for an unknown URI is sent by a MEC Application
Reference	ETSI GS MEC 016 (V2.2.1) [9], clause 7.5.3.5 https://forge.etsi.org/rep/mec/gs016-dev-app-api/-/blob/v2.2.1/UEAppInterfaceApi.yaml
Configuration	Config_MEC_4
PICS Selection	PIC_MEC_SYSTEM and PIC_SERVICES
Initial Conditions	
<pre>with { the IUT being_in idle_state and the Dev_App "not" having a appContext containing contextId indicating value NON_EXISTENT_CONTEXT_ID }</pre>	
Expected Behaviour	
<pre>// MEC 016, clause 5.1.4 ensure that { when { the IUT receives a vDELETE containing uri indicating value "/dev_app/v1/app_contexts/{NON_EXISTENT_CONTEXT_ID}" from the Dev_App entity } then { // MEC 016, clause 7.5.3.5 the IUT sends a HTTP_RESPONSE containing status_code set to "404 Not Found" to the Dev_App entity } }</pre>	

6.8.1.2 UE Applications Location (UEAPPLOC)

Table 6.8.1-9: TP_MEC_MEC016_MEO_UEAPPLOC_001_OK

TP Id	"TP_MEC_MEC016_MEO_UEAPPLOC_001_OK"
Test Objective	Check that the IUT sends the locations available for instantiation of a specific user application when requested by an UE Application
Reference	ETSI GS MEC 016 (V2.2.1) [9], clause 7.6.3.4 https://forge.etsi.org/rep/mec/qs016-dev-app-api/-/blob/v2.2.1/UEAppInterfaceApi.yaml
Configuration	Config_MEC_4
PICS Selection	PIC_MEC_SYSTEM and PIC_SERVICES
Initial Conditions	
<pre>with { the IUT being_in idle_state and the Dev_App having a appInfo containing appName indicating value APP_NAME }</pre>	
Expected Behaviour	
<pre>// MEC 016, clause 5.1.7 ensure that { when { the IUT receives a vPOST containing uri indicating value "/dev_app/v1/obtain_app_loc_availability", body containing ApplicationLocationAvailability containing appInfo containing appName set to APP_NAME from the Dev_App entity } then { // MEC 016, clause 7.6.3.4 the IUT sends a HTTP_RESPONSE containing status_code set to "200 OK", body containing ApplicationLocationAvailability containing appInfo containing appName set to APP_NAME to the Dev_App entity } }</pre>	

Table 6.8.1-10: TP_MEC_MEC016_MEO_UEAPPLOC_001_BR

TP Id	"TP_MEC_MEC016_MEO_UEAPPLOC_001_BR"
Test Objective	Check that the IUT responds with an error when a request with incorrect parameters is sent by a MEC Application
Reference	ETSI GS MEC 016 (V2.2.1) [9], clause 7.6.3.4 https://forge.etsi.org/rep/mec/qs016-dev-app-api/-/blob/v2.2.1/UEAppInterfaceApi.yaml
Configuration	Config_MEC_4
PICS Selection	PIC_MEC_SYSTEM and PIC_SERVICES
Initial Conditions	
<pre>with { the IUT being_in idle_state }</pre>	
Expected Behaviour	
<pre>// MEC 016, clause 5.1.7 ensure that { when { the IUT receives a vPOST containing uri indicating value "/dev_app/v1/obtain_app_loc_availability", body containing ApplicationLocationAvailability containing appInfo containing</pre>	

```

        // Wrong parameter name should trigger an error response.
        app set to APP_NAME

    from the Dev_App entity
  }
  then {
    // MEC 016, clause 7.4.3.4
    the IUT sends a HTTP_RESPONSE containing
      status_code set to "400 Bad Request"

    to the Dev_App entity
  }
}

```

Table 6.8.1-11: TP_MEC_MEC016_MEO_UEAPPLOC_001_NF

TP Id	"TP_MEC_MEC016_MEO_UEAPPLOC_001_NF"
Test Objective	Check that the IUT responds with an error when a request with incorrect URL is sent by a MEC Application
Reference	ETSI GS MEC 016 (V2.2.1) [9], clause 7.6.3.4 https://forge.etsi.org/rep/mec/qs016-dev-app-api/-/blob/v2.2.1/UEAppInterfaceApi.yaml
Configuration	Config_MEC_4
PICS Selection	PIC_MEC_SYSTEM and PIC_SERVICES
Initial Conditions	
with { the IUT being_in idle_state }	
Expected Behaviour	
<pre> // MEC 016, clause 5.1.7 ensure that { when { the IUT receives a vPOST containing // Wrong URI should trigger an error response. uri indicating value "/dev_app/v1/obtain_app_loc_availability_error", body containing ApplicationLocationAvailability containing appInfo containing appName set to APP_NAME from the Dev_App entity } then { // MEC 016, clause 7.4.3.4 the IUT sends a HTTP_RESPONSE containing status_code set to "400 Bad Request" to the Dev_App entity } } </pre>	

6.8.1.3 UE Applications (UEAPPS)

Table 6.8.1-12: TP_MEC MEC016__MEO_UEAPPS_001_OK

TP Id	"TP_MEC_MEC016_MEO_UEAPPS_001_OK"
Test Objective	Check that the IUT responds with the list of user applications available when requested by an UE Application
Reference	ETSI GS MEC 016 (V2.2.1) [9], clause 7.3.3.1 https://forge.etsi.org/rep/mec/g016-dev-app-api/-/blob/v2.2.1/UEAppInterfaceApi.yaml#components/schemas/ApplicationList
Configuration	Config_MEC_4
PICS Selection	PIC_MEC_SYSTEM and PIC_SERVICES
Initial Conditions	
<pre>with { the IUT being_in idle_state and the Dev_App having a appInfo containing appName indicating value APP_NAME }</pre>	
Expected Behaviour	
<pre>// MEC 016, clause 5.1.2 ensure that { when { the IUT receives a vGET containing uri indicating value "/dev_app/v1/app_list" from the Dev_App entity } then { // MEC 016, clause 7.3.3.1 the IUT sends a HTTP_RESPONSE containing status_code set to "200 OK" body containing ApplicationList containing appInfo containing appName set to APP_NAME to the Dev_App entity } }</pre>	

Table 6.8.1-13: TP_MEC_MEC016_MEO_UEAPPS_001_NF

TP Id	"TP_MEC_MEC016_MEO_UEAPPS_001_NF"
Test Objective	Check that the IUT responds with an error when a request for an unknown URI is sent by a MEC Application
Reference	ETSI GS MEC 016 (V2.2.1) [9], clause 7.3.3.1
Configuration	Config_MEC_4
PICS Selection	PIC_MEC_SYSTEM and PIC_SERVICES
Initial Conditions	
<pre>with { the IUT being_in idle_state }</pre>	
Expected Behaviour	
<pre>// MEC 016, clause 5.1.2 ensure that { when { the IUT receives a vGET containing // wrong url should generate a "Not Found" error response uri indicating value "/dev_app/v1/app_list_error" from the Dev_App entity } then { // MEC 016, clause 7.3.3.1 the IUT sends</pre>	


```

        a HTTP_RESPONSE containing
            status_code set to "404 Not Found"

        to the Dev_App entity
    }
}

```

Table 6.8.1-14: TP_MEC_MEC016_MEO_UEAPPS_002_OK

TP Id	"TP_MEC_MEC016_MEO_UEAPPS_002_OK"
Test Objective	Check that the IUT responds with the list of user applications available when requested by an UE Application
Reference	ETSI GS MEC 016 (v2.2.1) [9], clause 7.3.3.1 https://forge.etsi.org/rep/mec/gs016-dev-app-api/-/blob/v2.2.1/UEAppInterfaceApi.yaml#components/schemas/ApplicationList
Configuration	Config_MEC_4
PICS Selection	PIC_MEC_SYSTEM and PIC_SERVICES
Initial Conditions	
<pre> with { the IUT being_in idle_state and the Dev_App having a appInfo containing appName indicating value APP_NAME } </pre>	
Expected Behaviour	
<pre> // MEC 016, clause 5.1.2 ensure that { when { the IUT receives a vGET containing uri indicating value "/dev_app/v1/app_list", query_parameters containing appName indicating value APP_NAME from the Dev_App entity } then { // MEC 016, clause 7.3.3.1 the IUT sends a HTTP_RESPONSE containing status_code set to "200 OK" body containing ApplicationList containing appInfo containing appName set to APP_NAME to the Dev_App entity } } </pre>	

Table 6.8.1-15: TP_MEC_MEC016_MEO_UEAPPS_002_BR

TP Id	"TP_MEC_MEC016_MEO_UEAPPS_002_BR"
Test Objective	Check that the IUT responds with an error when a request with incorrect parameters is sent by a MEC Application
Reference	ETSI GS MEC 016 (V2.2.1) [9], clause 7.3.3.1
Configuration	Config_MEC_4
PICS Selection	PIC_MEC_SYSTEM and PIC_SERVICES
Initial Conditions	
<pre> with { the IUT being_in idle_state } </pre>	
Expected Behaviour	
<pre> // MEC 016, clause 5.1.2 ensure that { when { the IUT receives </pre>	

```

        a vGET containing
          uri indicating value "/dev_app/v1/app_list",
          query_parameters containing
            // Wrong parameter name should trigger an error response correct
parameter is appName
          app indicating value APP_NAME

        from the Dev_App entity
      }
    then {
      // MEC 016, clause 7.3.3.1
      the IUT sends
        a HTTP_RESPONSE containing
          status_code set to "400 Bad Request"

      to the Dev_App entity
    }
  }
}

```

Table 6.8.1-16: TP_MEC_MEC016_MEO_UEAPPS_001_ERR

TP Id	TP_MEC_MEC016_MEO_UEAPPS_001_ERR
Test Objective	Check that the IUT responds with 404 Not Found and 400 Bad request when a request with incorrect parameters and for an unknown URI is sent by a MEC Application, respectively.
Reference	ETSI GS MEC 016 (V2.2.1) [9], clause 7.3.3.1
Configuration	Config_MEC_4
PICS Selection	PIC_MEC_SYSTEM and PIC_SERVICES
Initial Conditions	
with { <pre> the IUT being_in idle_state </pre>	
Expected Behaviour	
ensure that { <pre> when { the IUT receives a vGET request containing uri set to URI, query_parameters containing // Wrong parameter name should trigger an error response correct parameter is appName appName indicating value APP_NAME_VALUE } then { // MEC 016, clause 7.3.3.1 the IUT sends a HTTP response containing status set to HTTP_STATUS } </pre>	

Table 6.8.1-17: TP_MEC_MEC016_MEO_UEAPPS_001_ERR Instances

TP Id	Description	URI	APP_NAME_VAL UE	HTTP_STATUS
TP_MEC_MEC016_MEO_UEAPPS_001_NF	"Check that the IUT responds with an error when a request for an unknown URI is sent by a MEC Application"	"/dev_app/v1/app_list_error"	APP_NAME	"404 Not found"
TP_MEC_MEC016_MEO_UEAPPS_001_BR	"Check that the IUT responds with an error when a request with incorrect parameters is sent by a MEC Application"	"/dev_app/v1/app_list"	APP_NAME_ERR OR	"400 Bad Request"

6.9 MEC021

6.9.1 Services (SRV)

6.9.1.1 Application Mobility Service (AMS)

Table 6.9.1-1: TP_MEC_SRV_AMS_001_OK

TP Id	"TP_MEC_SRV_AMS_001_OK"
Test Objective	Check that the AMS service returns information about the registered application mobility services when requested
Reference	ETSI GS MEC 021 [10], clause 8.3.3.1
PICS Selection	PIC_AMS
Initial Conditions	
<pre>with { the IUT having a AppMobilityServiceInfo containing appMobilityServiceId indicating value APP_MOBILITY_SERVICE_ID ; }</pre>	
Expected Behaviour	
<pre>ensure that { when { the IUT receives a vGET containing uri indicating value "/amsi/v1/appMobilityServices", query_parameters containing appMobilityServiceId indicating value APP_MOBILITY_SERVICE_ID ; ; from the AMS_CLIENT } then { the IUT sends a HTTP_RESPONSE containing status set to "200 OK", body containing AppMobilityServiceInfo containing appMobilityServiceId indicating value APP_MOBILITY_SERVICE_ID, attribute registeredAppMobilityService ; ; ; to the AMS_CLIENT } }</pre>	
Final Conditions	

Table 6.9.1-2: TP_MEC_SRV_AMS_001_BR

TP Id	"TP_MEC_SRV_AMS_001_BR"
Test Objective	Check that the AMS service returns an error when receives a query about a registered application mobility service with wrong parameters
Reference	ETSI GS MEC 021 [10], clause 8.3.3.1
PICS Selection	PIC_AMS
Initial Conditions	
<pre>with { the IUT having a AppMobilityServiceInfo containing appMobilityServiceId indicating value APP_MOBILITY_SERVICE_ID ; }</pre>	
Expected Behaviour	
<pre>ensure that { when { the IUT receives a vGET containing uri indicating value "/amsi/v1/appMobilityServices", query_parameters containing appMobilityService indicating value APP_MOBILITY_SERVICE_ID //wrong parameter, it should be appMobilityServiceId ; ; from the AMS_CLIENT } then { the IUT sends a HTTP_RESPONSE containing status set to "400 Bad Request" ; to the AMS_CLIENT } }</pre>	
Final Conditions	

Table 6.9.1-3: TP_MEC_SRV_AMS_002_OK

TP Id	"TP_MEC_SRV_AMS_002_OK"
Test Objective	Check that the AMS service creates a new application mobility services when requested
Reference	ETSI GS MEC 021 [10], clause 8.3.3.4
PICS Selection	PIC_AMS
Initial Conditions	
with { the IUT being_in idle_state }	
Expected Behaviour	
<pre> ensure that { when { the IUT receives a vPOST containing uri indicating value "/amsi/v1/appMobilityServices", body containing RegistrationRequest containing //Note: at the moment the only element that is defined is RegistrationInfo. Not sure if they are the same. serviceConsumerId containing appInstanceId set to APP_INS_ID ; ; } ; from the AMS_CLIENT } then { the IUT sends a HTTP_RESPONSE containing status set to "201 Created", body containing AppMobilityServiceInfo containing appMobilityServiceId set to any_value, registeredAppMobilityService containing serviceConsumerId containing appInstanceId set to APP_INS_ID ; ; ; ; to the AMS_CLIENT } </pre>	
Final Conditions	

Table 6.9.1-4: TP_MEC_SRV_AMS_002_BR

TP Id	"TP_MEC_SRV_AMS_002_BR"
Test Objective	Check that the AMS service sends an error when it receives a malformed request to create a new application mobility service
Reference	ETSI GS MEC 021 [10], clause 8.3.3.4
PICS Selection	PIC_AMS
Initial Conditions	
with { the IUT being_in idle_state }	
Expected Behaviour	
<pre> ensure that { when { the IUT receives a vPOST containing uri indicating value "/amsi/v1/appMobilityServices", body containing RegistrationRequest containing //Note: at the moment the only element that is defined is RegistrationInfo. Not sure if they are the same. serviceConsumerId containing appInstance set to APP_INS_ID //wrong parameter, it should be appInstanceId ; ; ; ; from the AMS_CLIENT } then { the IUT sends a HTTP_RESPONSE containing status set to "400 Bad Request" ; to the AMS_CLIENT } }</pre>	
Final Conditions	

Table 6.9.1-5: TP_MEC_SRV_AMS_003_OK

TP Id	"TP_MEC_SRV_AMS_003_OK"
Test Objective	Check that the AMS service returns information about the available subscriptions when requested. Permitted SUBSCRIPTION_TYPE are: - MobilityProcedureSubscription - AdjacentAppInfoSubscription
Reference	ETSI GS MEC 021 [10], clause 8.6.3.1
PICS Selection	PIC_AMS
Initial Conditions	
<pre>with { the IUT having a AMS_subscription containing _link containing self indicating value SUBSCRIPTION_HREF_VALUE , subscriptionType indicating value SUBSCRIPTION_TYPE ; }</pre>	
Expected Behaviour	
<pre>ensure that { when { the IUT receives a vGET containing uri indicating value "/amsi/v1/subscriptions/", query_parameters containing subscriptionType indicating value SUBSCRIPTION_TYPE ; ; from the MEC_SUB } then { the IUT sends a HTTP_RESPONSE containing status set to "200 OK", body containing SubscriptionLinkList containing subscription containing _links containing self indicating value SUBSCRIPTION_HREF_VALUE , subscriptionType indicating value SUBSCRIPTION_TYPE, callbackReference set to any_value ; ; ; to the MEC_SUB } }</pre>	
Final Conditions	

Table 6.9.1-6: TP_MEC_SRV_AMS_003_BR

TP Id	"TP_MEC_SRV_AMS_003_BR"
Test Objective	Check that the AMS service sends an error when it receives a malformed query about the available subscriptions
Reference	ETSI GS MEC 021 [10], clause 8.6.3.1
PICS Selection	PIC_AMS
Initial Conditions	
<pre>with { the IUT having a AMS_subscription containing _link containing self indicating value SUBSCRIPTION_HREF_VALUE ; subscriptionType indicating value SUBSCRIPTION_TYPE ; }</pre>	
Expected Behaviour	
<pre>ensure that { when { the IUT receives a vGET containing uri indicating value "/amsi/v1/subscriptions/", query_parameters containing subscriptionType indicating value SUBSCRIPTION_TYPE //wrong parameter, it should be subscriptionType ; ; from the MEC_SUB } then { the IUT sends a HTTP_RESPONSE containing status set to "400 Bad Request" ; to the MEC_SUB } }</pre>	
Final Conditions	

Table 6.9.1-7: TP_MEC_SRV_AMS_004_OK

TP Id	"TP_MEC_SRV_AMS_004_OK"
Test Objective	Check that the AMS service creates a notification subscriptions when requested. Permitted SUBSCRIPTION_TYPE are: - MobilityProcedureSubscription - AdjacentAppInfoSubscription
Reference	ETSI GS MEC 021 [10], clause 8.6.3.4
PICS Selection	PIC_AMS
Initial Conditions	
<pre>with { the IUT being_in idle_state }</pre>	
Expected Behaviour	
<pre>ensure that { when { the IUT receives a vPOST containing uri indicating value "/amsi/v1/subscriptions/", body containing NotificationSubscription containing subscriptionType indicating value SUBSCRIPTION_TYPE, callbackReference indicating value CALLBACK_REFERENCE ; ; from the AMS_CLIENT } then { the IUT sends a HTTP_RESPONSE containing status set to "201 CREATED", body containing NotificationSubscription containing subscriptionType indicating value SUBSCRIPTION_TYPE, callbackReference indicating value CALLBACK_REFERENCE ; ; to the AMS_CLIENT } }</pre>	

Final Conditions

Table 6.9.1-8: TP_MEC_SRV_AMS_004_BR

TP Id	"TP_MEC_SRV_AMS_004_BR"
Test Objective	Check that the AMS service sends an error when it receives a malformed request to create a notification subscription Permitted SUBSCRIPTION_TYPE are: <ul style="list-style-type: none"> • MobilityProcedureSubscription • AdjacentAppInfoSubscription
Reference	ETSI GS MEC 021 [10], clause 8.6.3.4
PICS Selection	PIC_AMS
Initial Conditions	
with { <div style="padding-left: 40px;">the IUT being_in idle_state</div> }	
Expected Behaviour	
<pre> ensure that { when { the IUT receives a vPOST containing uri indicating value "/amsi/v1/subscriptions/", body containing NotificationSubscription containing subscriptionTyp indicating value SUBSCRIPTION_TYPE, //wrong parameter, it should be subscriptionType callbackReference indicating value CALLBACK_REFERENCE ; ; } ; from the AMS_CLIENT } then { the IUT sends a HTTP_RESPONSE containing status set to "400 Bad Request" } ; to the AMS_CLIENT } } </pre>	
Final Conditions	

Table 6.9.1-9: TP_MEC_SRV_AMS_005_OK

TP Id	"TP_MEC_SRV_AMS_005_OK"
Test Objective	Check that the AMS service returns information about a given subscription when requested. Permitted SUBSCRIPTION_TYPE are: <ul style="list-style-type: none"> • MobilityProcedureSubscription • AdjacentAppInfoSubscription
Reference	ETSI GS MEC 021 [10], clause 8.7.3.1
PICS Selection	PIC_AMS
Initial Conditions	
<pre>with { the IUT having a AMS_subscription containing _link containing self indicating value SUBSCRIPTION_HREF_VALUE , callbackReference indicating value CALLBACK_REFERENCE, subscriptionType indicating value SUBSCRIPTION_TYPE ; }</pre>	
Expected Behaviour	
<pre>ensure that { when { the IUT receives a vGET containing uri indicating value SUBSCRIPTION_HREF_VALUE ; from the MEC_SUB } then { the IUT sends a HTTP_RESPONSE containing status set to "200 OK", body containing NotificationSubscription containing subscriptionType indicating value SUBSCRIPTION_TYPE, callbackReference indicating value CALLBACK_REFERENCE ; } ; to the MEC_SUB }</pre>	
Final Conditions	

Table 6.9.1-10: TP_MEC_SRV_AMS_005_NF

TP Id	"TP_MEC_SRV_AMS_005_NF"
Test Objective	Check that the AMS service returns an error when receives a query about a not existing subscription
Reference	ETSI GS MEC 021 [10], clause 8.7.3.1
PICS Selection	PIC_AMS
Initial Conditions	
<pre>with { the IUT "not" having a AMS_subscription containing _link containing self indicating value NON_EXISTENT_SUBSCRIPTION_HREF_VALUE ; }</pre>	
Expected Behaviour	
<pre>ensure that { when { the IUT receives a vGET containing uri indicating value NON_EXISTENT_SUBSCRIPTION_HREF_VALUE ; from the MEC_SUB } then { the IUT sends a HTTP_RESPONSE containing status set to "404 Not Found" ; to the MEC_SUB } }</pre>	
Final Conditions	

Table 6.9.1-11: TP_MEC_SRV_AMS_006_OK

TP Id	"TP_MEC_SRV_AMS_006_OK"
Test Objective	Check that the AMS service deletes a given subscription when requested
Reference	ETSI GS MEC 021 [10], clause 8.7.3.5
PICS Selection	PIC_AMS
Initial Conditions	
<pre>with { the IUT having a AMS_subscription containing _link containing self indicating value SUBSCRIPTION_HREF_VALUE ; }</pre>	
Expected Behaviour	
<pre>ensure that { when { the IUT receives a vDELETE containing uri indicating value SUBSCRIPTION_HREF_VALUE ; from the MEC_SUB } then { the IUT sends a HTTP_RESPONSE containing status set to "204 No Content" ; to the MEC_SUB } }</pre>	
Final Conditions	

Table 6.9.1-12: TP_MEC_SRV_AMS_006_NF

TP Id	"TP_MEC_SRV_AMS_006_NF"
Test Objective	Check that the AMS service sends an error when it receives a delete request for a not existing subscription
Reference	ETSI GS MEC 021 [10], clause 8.7.3.5
PICS Selection	PIC_AMS
Initial Conditions	
<pre>with { the IUT "not" having a AMS_subscription containing _link containing self indicating value NON_EXISTENT_SUBSCRIPTION_HREF_VALUE ; }</pre>	
Expected Behaviour	
<pre>ensure that { when { the IUT receives a vDELETE containing uri indicating value NON_EXISTENT_SUBSCRIPTION_HREF_VALUE ; from the MEC_SUB } then { the IUT sends a HTTP_RESPONSE containing status set to "404 Not Found" ; to the MEC_SUB } }</pre>	
Final Conditions	

Table 6.9.1-13: TP_MEC_SRV_AMS_007_OK

TP Id	"TP_MEC_SRV_AMS_007_OK"
Test Objective	Check that the AMS service modifies a given subscription when requested. Permitted SUBSCRIPTION_TYPE are: <ul style="list-style-type: none"> • MobilityProcedureSubscription • AdjacentAppInfoSubscription
Reference	ETSI GS MEC 021 [10], clause 8.7.3.2
PICS Selection	PIC_AMS
Initial Conditions	
<pre>with { the IUT having a AMS_subscription containing _link containing self indicating value SUBSCRIPTION_HREF_VALUE , callbackReference indicating value CALLBACK_REFERENCE, subscriptionType indicating value SUBSCRIPTION_TYPE ; }</pre>	
Expected Behaviour	
<pre>ensure that { when { the IUT receives a vPUT containing uri indicating value SUBSCRIPTION_HREF_VALUE, body containing NotificationSubscription containing subscriptionType indicating value SUBSCRIPTION_TYPE, callbackReference indicating value NEW_CALLBACK_REFERENCE ; } ; from the MEC_SUB then { the IUT sends a HTTP_RESPONSE containing status set to "200 OK", body containing NotificationSubscription containing subscriptionType indicating value SUBSCRIPTION_TYPE, callbackReference indicating value NEW_CALLBACK_REFERENCE ; } ; to the MEC_SUB }</pre>	
Final Conditions	

Table 6.9.1-14: TP_MEC_SRV_AMS_007_BR

TP Id	"TP_MEC_SRV_AMS_007_BR"
Test Objective	Check that the AMS service sends an error when it receives a malformed modify request for a given subscription. Permitted SUBSCRIPTION_TYPE are: <ul style="list-style-type: none"> • MobilityProcedureSubscription • AdjacentAppInfoSubscription
Reference	ETSI GS MEC 021 [10], clause 8.7.3.2
PICS Selection	PIC_AMS
Initial Conditions	
<pre>with { the IUT having a AMS_subscription containing _link containing self indicating value SUBSCRIPTION_HREF_VALUE ; callbackReference indicating value CALLBACK_REFERENCE, subscriptionType indicating value SUBSCRIPTION_TYPE ; }</pre>	
Expected Behaviour	
<pre>ensure that { when { the IUT receives a vPUT containing uri indicating value SUBSCRIPTION_HREF_VALUE, body containing NotificationSubscription containing subscriptionType indicating value SUBSCRIPTION_TYPE, callbackReferenc indicating value NEW_CALLBACK_REFERENCE //wrong field, it should be callbackReference ; ; ; from the MEC_SUB } then { the IUT sends a HTTP_RESPONSE containing status set to "400 Bad Request" ; to the MEC_SUB } }</pre>	
Final Conditions	

Table 6.9.1-15: TP_MEC_SRV_AMS_007_NF

TP Id	"TP_MEC_SRV_AMS_007_NF"
Test Objective	Check that the AMS service sends an error when it receives a modify request for a not existing subscription
Reference	ETSI GS MEC 021 [10], clause 8.7.3.2
PICS Selection	PIC_AMS
Initial Conditions	
<pre>with { the IUT "not" having a AMS_subscription containing _link containing self indicating value NON_EXISTENT_SUBSCRIPTION_HREF_VALUE ; ; }</pre>	
Expected Behaviour	
<pre>ensure that { when { the IUT receives a vPUT containing uri indicating value NON_EXISTENT_SUBSCRIPTION_HREF_VALUE ; from the MEC_SUB } then { the IUT sends a HTTP_RESPONSE containing status set to "404 Not Found" ; to the MEC_SUB } }</pre>	
Final Conditions	

Table 6.9.1-16: TP_MEC_SRV_AMS_008_OK

TP Id	"TP_MEC_SRV_AMS_008_OK"
Test Objective	Check that the AMS service sends an AMS notification about a mobility procedure if the AMS service has an associated subscription and the event is generated
Reference	ETSI GS MEC 021 [10], clause 7.4.2
PICS Selection	PIC_AMS_NOTIFICATIONS
Initial Conditions	
<pre>with { the IUT having a AMS_subscription containing subscriptionType indicating value "MobilityProcedureSubscription", callbackReference indicating value CALLBACK_URI, filterCriteria containing appInstanceId set to APP_INSTANCE_ID ; ; }</pre>	
Expected Behaviour	
<pre>ensure that { when { the IUT generates a mobility_procedure_event containing appInstanceId set to APP_INSTANCE_ID; } then { the IUT sends a vPOST containing uri indicating value CALLBACK_URI, body containing notificationType indicating value "MobilityProcedureNotification", targetAppInfo containing appInstanceId set to APP_INSTANCE_ID ; mobilityStatus set to any_value ; ; to the MEC_SUB } }</pre>	
Final Conditions	

Table 6.9.1-17: TP_MEC_SRV_AMS_009_OK

TP Id	"TP_MEC_SRV_AMS_009_OK"
Test Objective	Check that the AMS service sends an AMS notification about adjacent application instances if the AMS service has an associated subscription and the event is generated
Reference	ETSI GS MEC 021 [10], clause 7.4.3
PICS Selection	PIC_AMS_NOTIFICATIONS
Initial Conditions	
<pre>with { the IUT having a AMS_subscription containing subscriptionType indicating value "AdjacentAppInfoSubscription", callbackReference indicating value CALLBACK_URI, filterCriteria containing appInstanceId set to APP_INSTANCE_ID ; } ;</pre>	
Expected Behaviour	
<pre>ensure that { when { the IUT generates a adjacent_app_info_event containing appInstanceId set to APP_INSTANCE_ID; } then { the IUT sends a vPOST containing uri indicating value CALLBACK_URI, body containing notificationType indicating value "AdjacentAppInfoNotification", adjacentAppInfo containing appInstanceId set to APP_INSTANCE_ID ; } } ; to the MEC_SUB</pre>	
Final Conditions	

Table 6.9.1-18: TP_MEC_SRV_AMS_010_OK

TP Id	"TP_MEC_SRV_AMS_010_OK"
Test Objective	Check that the AMS service sends an AMS notification on subscription expiration if the AMS service has an associated subscription and the event is generated
Reference	ETSI GS MEC 021 [10], clause 7.4.4
PICS Selection	PIC_AMS_NOTIFICATIONS
Initial Conditions	
<pre>with { the IUT having a AMS_subscription containing subscriptionType indicating value any_value, //VALID for all subscription types callbackReference indicating value CALLBACK_URI, _links containing self set to SUBSCRIPTION_HREF_VALUE ; subscriptionId set to SUBSCRIPTION_ID, expiryDeadline set to EXPIRY_DEADLINE ; }</pre>	
Expected Behaviour	
<pre>ensure that { when { the IUT generates a expiry_notification_event containing subscriptionId set to SUBSCRIPTION_ID; } then { the IUT sends a vPOST containing uri indicating value CALLBACK_URI, body containing notificationType indicating value "ExpiryNotification", //this field is not in the spec. expiryDeadline set to EXPIRY_DEADLINE ; } ; to the MEC_SUB }</pre>	
Final Conditions	

6.10 MEC028

6.10.1 Services (SRV)

6.10.1.1 WLAN Access Information (WAI)

Table 6.10.1-1: TP_MEC_MEC028_SRV_WAI_001_OK

TP Id	"TP_MEC_MEC028_SRV_WAI_001_OK"
Test Objective	Check that the IUT responds with the list of WLAN Access Point
Reference	ETSI GS MEC 028 (V2.2.1) [11], clause 7.3.3.1 https://forge.etsi.org/rep/mec/g028-wai-api/-/blob/v2.2.1/WlanInformationApi.yam#/schemas/ApInfo
Configuration	Config_MEC_4
PICS Selection	PIC_SERVICES and PIC_MEC_PLAT
Initial Conditions	
<pre>with { the IUT having a ApInfo containing apId containing macId indicating value MAC_ID }</pre>	
Expected Behaviour	
<pre>// MEC 028, clause 5.2.2 ensure that { when { the IUT receives a vGET containing</pre>	


```

        uri indicating value "/wai/v2/queries/ap/ap_information"

        from the MEC_APP entity
    }
    then {
        // MEC 028, clause 7.3.3.1
        the IUT sends a HTTP_RESPONSE containing
            status_code set to "200 OK"
            body containing
                ApInfo containing
                    apId containing
                        macId set to MAC_ID

        to the MEC_APP entity
    }
}

```

Table 6.10.1-2: TP_MEC_MEC028_SRV_WAI_002_OK

TP Id	"TP_MEC_MEC028_SRV_WAI_002_OK"
Test Objective	Check that the IUT responds with the list of WLAN Access Point filtered by the macId provided as query parameter
Reference	ETSI GS MEC 028 (V2.2.1) [11], clause 7.3.3.1 https://forge.etsi.org/rep/mec/g028-wai-api/-/blob/v2.2.1/WlanInformationApi.yaml#/schemas/ApInfo
Configuration	Config_MEC_4
PICS Selection	PIC_SERVICES and PIC_MEC_PLAT
Initial Conditions	
<pre> with { the IUT having a ApInfo containing apId containing macId indicating value MAC_ID } </pre>	
Expected Behaviour	
<pre> // MEC 028, clause 5.2.2 ensure that { when { the IUT receives a vGET containing uri indicating value "/wai/v2/queries/ap/ap_information", query_parameters containing macId indicating value MAC_ID from the MEC_APP entity } then { // MEC 028, clause 7.3.3.1 the IUT sends a HTTP_RESPONSE containing status_code set to "200 OK" body containing ApInfo containing apId containing macId set to MAC_ID to the MEC_APP entity } } </pre>	

Table 6.10.1-3: TP_MEC_MEC028_SRV_WAI_002_BR

TP Id	"TP_MEC_MEC028_SRV_WAI_002_BR"
Test Objective	Check that the IUT responds with an error when a request with incorrect parameters is sent by a MEC Application
Reference	ETSI GS MEC 028 (V2.2.1) [11], clause 7.3.3.1
Configuration	Config_MEC_4
PICS Selection	PIC_MEC_SYSTEM and PIC_SERVICES
Initial Conditions	
with { the IUT being_in idle_state }	
Expected Behaviour	
<pre>// MEC 028, clause 5.2.2 // Invalid filter should trigger an error response. ensure that { when { the IUT receives a vGET containing uri indicating value "/wai/v2/queries/ap/ap_information", query_parameters containing mac indicating value MAC_ID from the MEC_APP entity } then { // MEC 028, clause 7.3.3.1 the IUT sends a HTTP_RESPONSE containing status_code set to "400 Bad Request" body containing ProblemDetails containing details set to "Invalid filtering: macIdentifier does not exist." to the MEC_APP entity } }</pre>	

Table 6.10.1-4: TP_MEC_MEC028_SRV_WAI_003_OK

TP Id	"TP_MEC_MEC028_SRV_WAI_003_OK"
Test Objective	Check that the IUT responds with the list of Station Point
Reference	ETSI GS MEC 028 (V2.2.1) [11], clause 7.4.3.1 https://forge.etsi.org/rep/mec/gs028-wai-api/-/blob/v2.2.1/WlanInformationApi.yam!#/schema/StaInfo
Configuration	Config_MEC_4
PICS Selection	PIC_SERVICES and PIC_MEC_PLAT
Initial Conditions	
with { the IUT having a StaInfo containing StaIdentity containing macId indicating value MAC_ID }	
Expected Behaviour	
<pre>// MEC 028, clause 5.2.3 ensure that { when { the IUT receives a vGET containing uri indicating value "/wai/v2/queries/sta/sta_information" from the MEC_APP entity } then { // MEC 028, clause 7.4.3.1 the IUT sends a HTTP_RESPONSE containing status_code set to "200 OK"</pre>	

```

        body containing
          StaInfo containing
            StaIdentity containing
              macId set to MAC_ID

    to the MEC_APP entity
  }
}

```

Table 6.10.1-5: TP_MEC_MEC028_SRV_WAI_004_OK

TP Id	"TP_MEC_MEC028_SRV_WAI_004_OK"
Test Objective	Check that the IUT responds with the list of Station Point filtered by the macId provided as query parameter
Reference	ETSI GS MEC 028 (V2.2.1) [11], clause 7.4.3.1 https://forge.etsi.org/rep/mec/g028-wai-api/-/blob/v2.2.1/WlanInformationApi.yaml#/schema/StaInfo
Configuration	Config_MEC_4
PICS Selection	PIC_SERVICES and PIC_MEC_PLAT
Initial Conditions	
<pre> with { the IUT having a StaInfo containing StaIdentity containing macId indicating value MAC_ID } </pre>	
Expected Behaviour	
<pre> // MEC 028, clause 5.2.3 ensure that { when { the IUT receives a vGET containing uri indicating value "/wai/v2/queries/sta/sta_information", query_parameters containing macId set to MAC_ID from the MEC_APP entity } then { // MEC 028, clause 7.4.3.1 the IUT sends a HTTP_RESPONSE containing status_code set to "200 OK" body containing StaInfo containing StaIdentity containing macId set to MAC_ID to the MEC_APP entity } } </pre>	

Table 6.10.1-6: TP_MEC_MEC028_SRV_WAI_004_BR

TP Id	"TP_MEC_MEC028_SRV_WAI_004_BR"
Test Objective	Check that the IUT responds with an error when a request with incorrect parameters is sent by a MEC Application
Reference	ETSI GS MEC 028 (V2.2.1) [11], clause 7.4.3.1
Configuration	Config_MEC_4
PICS Selection	PIC_MEC_SYSTEM and PIC_SERVICES
Initial Conditions	
with { the IUT being_in idle_state }	
Expected Behaviour	
<pre>// MEC 028, clause 5.2.3 // Invalid filter should trigger an error response. ensure that { when { the IUT receives a vGET containing uri indicating value "/wai/v2/queries/sta/sta_information", query_parameters containing mac set to MAC_ID from the MEC_APP entity } then { // MEC 028, clause 7.4.3.1 the IUT sends a HTTP_RESPONSE containing status_code set to "400 Bad Request" body containing ProblemDetails containing details set to "Invalid filtering: mac does not exist." to the MEC_APP entity } }</pre>	

Table 6.10.1-7: TP_MEC_MEC028_SRV_WAI_005_OK

TP Id	"TP_MEC_MEC028_SRV_WAI_005_OK"
Test Objective	Check that the IUT responds with the requested list of subscription
Reference	ETSI GS MEC 028 (V2.2.1) [11], clause 7.5.3.1 https://forge.etsi.org/rep/mec/gs028-wai-api/-/blob/v2.2.1/WlanInformationApi.yam/#/schemas/AssocStaSubscription
Configuration	Config_MEC_4
PICS Selection	PIC_SERVICES and PIC_MEC_PLAT
Initial Conditions	
with { the IUT having a AssocStaSubscription containing _link containing self containing href set to "uri/to/subscription" } }	
Expected Behaviour	
<pre>//MEC 028, clause 5.2.4.1 ensure that { when { the IUT receives a vGET containing uri indicating value "/wai/v2/subscriptions" from the MEC_APP entity } then { // MEC 028, clause 7.5.3.1 the IUT sends</pre>	

```

        a HTTP_RESPONSE containing
          status_code set to "200 OK"
          body containing
            SubscriptionLinkList containing
              assocStaSubscription containing
                _link containing
                  self containing
                    href set to "uri/to/subscription"

      to the MEC_APP entity
    }
  }
}

```

Table 6.10.1-8: TP_MEC_MEC028_SRV_WAI_006_OK

TP Id	"TP_MEC_MEC028_SRV_WAI_006_OK"
Test Objective	Check that the IUT responds with the requested list of subscription
Reference	ETSI GS MEC 028 (V2.2.1) [11], clause 7.5.3.1 https://forge.etsi.org/rep/mec/gs028-wai-api/-/blob/v2.2.1/WlanInformationApi.yaml#/schemas/AssocStaSubscription
Configuration	Config_MEC_4
PICS Selection	PIC_SERVICES and PIC_MEC_PLAT
Initial Conditions	
<pre> with { the IUT having a AssocStaSubscription containing _link containing self containing href set to "uri/to/subscription" } </pre>	
Expected Behaviour	
<pre> //MEC 028, clause 5.2.4.1 ensure that { when { the IUT receives a vGET containing uri indicating value "/wai/v2/subscriptions" query_parameters containing href indicating value "uri/to/subscription", subscription_type indicating value "assoc_sta" from the MEC_APP entity } then { // MEC 028, clause 7.5.3.1 the IUT sends a HTTP_RESPONSE containing status_code set to "200 OK" body containing SubscriptionLinkList containing assocStaSubscription containing _link containing self containing LinkType containing href set to "uri/to/subscription" to the MEC_APP entity } } </pre>	

Table 6.10.1-9: TP_MEC_MEC028_SRV_WAI_006_BR

TP Id	"TP_MEC_MEC028_SRV_WAI_006_BR"
Test Objective	Check that the IUT responds with an error when a request with incorrect parameters is sent by a MEC Application
Reference	ETSI GS MEC 028 (V2.2.1) [11], clause 7.5.3.1 https://forge.etsi.org/rep/mec/gs028-wai-api/-/blob/v2.2.1/WlanInformationApi.yaml#/schemas/AssocStaSubscription
Configuration	Config_MEC_4
PICS Selection	PIC_SERVICES and PIC_MEC_PLAT
Initial Conditions	
with { the IUT being_in idle_state }	
Expected Behaviour	
<pre>//MEC 028, clause 5.2.4.1 ensure that { when { the IUT receives a vGET containing uri indicating value "/wai/v2/subscriptions" query_parameters containing subscription_type indicating value "assocStaSub" from the MEC_APP entity } then { // MEC 028, clause 7.5.3.1 the IUT sends a HTTP_RESPONSE containing status_code set to "400 Bad Request" to the MEC_APP entity } }</pre>	

Table 6.10.1-10: TP_MEC_MEC028_SRV_WAI_006_NF

TP Id	"TP_MEC_MEC028_SRV_WAI_006_NF"
Test Objective	Check that the IUT responds with an error when a request with not existing parameters is sent
Reference	ETSI GS MEC 028 (V2.2.1) [11], clause 7.5.3.1
Configuration	Config_MEC_4
PICS Selection	PIC_SERVICES
Initial Conditions	
with { the IUT being_in idle_state }	
Expected Behaviour	
<pre>//MEC 028, clause 5.2.4.1 ensure that { when { the IUT receives a vGET containing uri indicating value "/wai/v2/subscriptions_INVALID_URI" from the MEC_APP entity } then { // MEC 028, clause 7.5.3.1 the IUT sends a HTTP_RESPONSE containing status_code set to "404 Not Found" to the MEC_APP entity } }</pre>	

Table 6.10.1-11: TP_MEC_MEC028_SRV_WAI_007_OK

TP Id	"TP_MEC_MEC028_SRV_WAI_007_OK"
Test Objective	Check that the IUT responds with a Notification Subscription
Reference	ETSI GS MEC 028 (V2.2.1) [11], clause 7.5.3.4
Configuration	Config_MEC_4
PICS Selection	PIC_MEC_SYSTEM and PIC_SERVICES
Initial Conditions	
with { the IUT being_in idle_state }	
Expected Behaviour	
ensure that { when { the IUT receives a vPOST containing uri indicating value "/wai/v2/subscriptions" body containing AssocStaSubscription containing subscriptionType set to "AssocStaSubscription", callbackReference set to CALLBACK_URI, apId containing macId set to MAC_ID } from the MEC_APP entity } then { // MEC 028, clause 7.5.3.4 the IUT sends a HTTP_RESPONSE containing status_code set to "201 Created", Location set to LOCATION, body containing AssocStaSubscription containing subscriptionType set to "AssocStaSubscription", callbackReference set to CALLBACK_URI, self containing href set to "/wai/v2/subscriptions/{SUBSCRIPTION_ID}", apId containing macId set to MAC_ID } to the MEC_APP entity } }	

Table 6.10.1-12: TP_MEC_MEC028_SRV_WAI_007_BR

TP Id	"TP_MEC_MEC028_SRV_WAI_007_BR"
Test Objective	Check that the IUT responds with an error when an invalid Subscription request is sent
Reference	ETSI GS MEC 028 (V2.2.1) [11], clause 7.5.3.4
Configuration	Config_MEC_4
PICS Selection	PIC_MEC_SYSTEM and PIC_SERVICES
Initial Conditions	
with { the IUT being_in idle_state }	
Expected Behaviour	
// Invalid subscriptionType should trigger an error response. ensure that { when { the IUT receives a vPOST containing uri indicating value "/wai/v2/subscriptions" body containing AssocStaSubscription containing subscriptionType set to "INVALID_VALUE" } }	

```

        from the MEC_APP entity
    }
    then {
        // MEC 028, clause 7.5.3.4
        the IUT sends
            a HTTP_RESPONSE containing
                status_code set to "400 Bad Request"

        to the MEC_APP entity
    }
}

```

Table 6.10.1-13: TP_MEC_MEC028_SRV_WAI_007_NF

TP Id	"TP_MEC_MEC028_SRV_WAI_007_NF"
Test Objective	Check that the IUT responds with an error when a request with not existing parameters is sent
Reference	ETSI GS MEC 028 (V2.2.1) [11], clause 7.5.3.1
Configuration	Config_MEC_4
PICS Selection	PIC_SERVICES
Initial Conditions	
with { <pre> the IUT being_in idle_state } </pre>	
Expected Behaviour	
<pre> //MEC 028, clause 5.2.4.1 ensure that { when { the IUT receives a vPOST containing uri indicating value "/wai/v2/subscriptions_INVALID_URI", body containing AssocStaSubscription containing subscriptionType set to "AssocStaSubscription", callbackReference set to CALLBACK_URI, apId containing macId set to MAC_ID from the MEC_APP entity } then { // MEC 028, clause 7.5.3.1 the IUT sends a HTTP_RESPONSE containing status_code set to "404 Not Found" to the MEC_APP entity } } </pre>	

Table 6.10.1-14: TP_MEC_MEC028_SRV_WAI_008_OK

TP Id	"TP_MEC_MEC028_SRV_WAI_008_OK"
Test Objective	Check that the IUT responds with the list of Subscription
Reference	ETSI GS MEC 028 (V2.2.1) [11], clause 7.6.3.1 https://forge.etsi.org/rep/mec/g028-wai-api/-/blob/v2.2.1/WlanInformationApi.yam/#/schemas/AssocStaSubscription
Configuration	Config_MEC_4
PICS Selection	PIC_MEC_SYSTEM and PIC_SERVICES
Initial Conditions	
with { <pre> the IUT having a subscription containing subscriptionId indicating value SUBSCRIPTION_ID } </pre>	

Expected Behaviour
<pre> ensure that { when { the IUT receives a vGET containing uri indicating value "/wai/v2/subscriptions/{SUBSCRIPTION_ID}" from the MEC_APP entity } then { // MEC 028, clause 7.6.3.1 the IUT sends a HTTP_RESPONSE containing status_code set to "200 OK" body containing AssocStaSubscription containing subscriptionType set to "AssocStaSubscription", callbackReference set to CALLBACK_URI, apId containing macId set to MAC_ID to the MEC_APP entity } } </pre>

Table 6.10.1-15: TP_MEC_MEC028_SRV_WAI_008_NF

TP Id	"TP_MEC_MEC028_SRV_WAI_008_NF"
Test Objective	Check that the IUT responds with an error when a request for existing subscription with incorrect parameters is sent
Reference	ETSI GS MEC 028 (V2.2.1) [11], clause 7.6.3.1
Configuration	Config_MEC_4
PICS Selection	PIC_MEC_SYSTEM and PIC_SERVICES
Initial Conditions	
with {	<pre> the IUT "not" having a subscription containing subscriptionId indicating value NON_EXISTENT_SUBSCRIPTION_ID } </pre>
Expected Behaviour	
ensure that {	<pre> when { the IUT receives a vGET containing uri indicating value "/wai/v2/subscriptions/{NON_EXISTENT_SUBSCRIPTION_ID}" from the MEC_APP entity } then { the IUT sends a HTTP_RESPONSE containing status_code set to "404 Not found" to the MEC_APP entity } } </pre>

Table 6.10.1-16: TP_MEC_MEC028_SRV_WAI_009_OK

TP Id	"TP_MEC_MEC028_SRV_WAI_009_OK"
Test Objective	Check that the IUT responds with a Notification Subscription when it is modified
Reference	ETSI GS MEC 028 (V2.2.1) [11], clause 7.6.3.2
Configuration	Config_MEC_4
PICS Selection	PIC_MEC_SYSTEM and PIC_SERVICES
Initial Conditions	
with {	<pre> the IUT having a </pre>

<pre> AssocStaSubscription containing subscriptionType set to "AssocStaSubscription", callbackReference set to CALLBACK_URI, _links containing self set to URI_TO_RESOURCE, apId containing macId set to MAC_ID </pre>
Expected Behaviour
<pre> //MEC 028, clause 5.2.4.3 ensure that { when { the IUT receives a vPUT containing uri indicating value "/wai/v2/subscriptions/{SUBSCRIPTION_ID}" body containing AssocStaSubscription containing subscriptionType set to "AssocStaSubscription", callbackReference set to NEW_CALLBACK_URI, _links containing self set to URI_TO_RESOURCE, apId containing macId set to MAC_ID from the MEC_APP entity } then { the IUT sends a HTTP_RESPONSE containing status_code set to "200 OK" body containing AssocStaSubscription containing subscriptionType set to "AssocStaSubscription", callbackReference set to NEW_CALLBACK_URI, _links containing self set to "uri/to/resource", apId containing macId set to MAC_ID to the MEC_APP entity } } </pre>

Table 6.10.1-17: TP_MEC_MEC028_SRV_WAI_009_BR

TP Id	"TP_MEC_MEC028_SRV_WAI_009_BR"
Test Objective	Check that the IUT responds with an error when an invalid field is set in the subscription modification request
Reference	ETSI GS MEC 028 (V2.2.1) [11], clause 7.6.3.2
Configuration	Config_MEC_4
PICS Selection	PIC_MEC_SYSTEM and PIC_SERVICES
Initial Conditions	
<pre> with { the IUT having a AssocStaSubscription containing subscriptionType set to "AssocStaSubscription", callbackReference set to CALLBACK_URI, _links containing self set to URI_TO_RESOURCE, apId containing macId set to MAC_ID </pre>	

}
Expected Behaviour
<pre>//MEC 028, clause 5.2.4.3 // Invalid subscriptionType should trigger an error response. ensure that { when { the IUT receives a vPUT containing uri indicating value "/wai/v2/subscriptions/{SUBSCRIPTION_ID}" body containing AssocStaSubscription containing subscriptionType set to "INVALID_VALUE", callbackReference set to CALLBACK_URI, _links containing self set to "uri/to/resource", apId containing macId set to MAC_ID from the MEC_APP entity } then { the IUT sends a HTTP_RESPONSE containing status_code set to "400 Bad Request" to the MEC_APP entity } }</pre>

Table 6.10.1-18: TP_MEC_MEC028_SRV_WAI_010_OK

TP Id	"TP_MEC_MEC028_SRV_WAI_010_OK"
Test Objective	Check that the IUT responds with 204 when an existing subscription is correctly deleted
Reference	ETSI GS MEC 028 (V2.2.1) [11], clause 7.6.3.5
Configuration	Config_MEC_4
PICS Selection	PIC_MEC_SYSTEM and PIC_SERVICES
Initial Conditions	
<pre>with { the IUT having a AssocStaSubscription containing subscriptionType set to "AssocStaSubscription", callbackReference set to CALLBACK_URI, _links containing self set to URI_TO_RESOURCE, apId containing macId set to MAC_ID }</pre>	
Expected Behaviour	
<pre>//MEC 028, clause 5.2.4.4 ensure that { when { the IUT receives a vDELETE containing uri indicating value "/wai/v2/subscriptions/{SUBSCRIPTION_ID}" from the MEC_APP entity } then { the IUT sends a HTTP_RESPONSE containing status_code set to "204 No Content" to the MEC_APP entity } }</pre>	

Table 6.10.1-19: TP_MEC_MEC028_SRV_WAI_010_NF

TP Id	"TP_MEC_MEC028_SRV_WAI_010_NF"
Test Objective	Check that the IUT responds with an error when a not existing subscription cannot be deleted
Reference	ETSI GS MEC 028 (V2.2.1) [11], clause 7.6.3.5
Configuration	Config_MEC_4
PICS Selection	PIC_MEC_SYSTEM and PIC_SERVICES
Initial Conditions	
<pre>with { the IUT "not" having a subscriptions containing subscriptionId indicating value NON_EXISTENT_SUBSCRIPTION_ID }</pre>	
Expected Behaviour	
<pre>//MEC 028, clause 5.2.4.4 ensure that { when { the IUT receives a vDELETE containing uri indicating value "/wai/v2/subscriptions/{NON_EXISTENT_SUBSCRIPTION_ID}" from the MEC_APP entity } then { the IUT sends a HTTP_RESPONSE containing status_code set to "404 Not Found" to the MEC_APP entity } }</pre>	

Table 6.10.1-20: TP_MEC_MEC028_SRV_WAI_011_OK

TP Id	"TP_MEC_MEC028_SRV_WAI_011_OK"
Test Objective	Check that the IUT sends a notification about WLAN event notification if the MEC service has an associated subscription and the event is generated
Reference	ETSI GS MEC 028 (V2.2.1) [11], clause 6.4.2 https://forge.etsi.org/rep/mec/gs028-wai-api/-/blob/v2.2.1/WlanInformationApi.yaml
Configuration	Config_MEC_4
PICS Selection	PIC_NOTIFICATIONS
Initial Conditions	
<pre>with { the IUT having a AssocStaSubscription containing subscriptionType indicating value "AssocStaSubscription", callbackReference indicating value CALLBACK_URI, apId containing macId set to MAC_ID }</pre>	
Expected Behaviour	
<pre>// MEC 028, clause 5.2.6 ensure that { when { the IUT generates a ap_identity_event containing macId set to MAC_ID } then { the IUT sends a vPOST containing uri indicating value CALLBACK_URI, body containing notificationType indicating value "AssocStaNotification", apId containing macId set to MAC_ID to the MEC_APP entity } }</pre>	

Table 6.10.1-21: TP_MEC_MEC028_SRV_WAI_012_OK

TP Id	"TP_MEC_MEC028_SRV_WAI_012_OK"
Test Objective	Check that the IUT responds with a list of measurement configurations available from the WLAN Access Information Service
Reference	ETSI GS MEC 028 (V2.2.1) [11], clause 7.7.3.1 https://forge.etsi.org/rep/mec/gs028-wai-api/-/blob/v2.2.1/WlanInformationApi.yaml#/schemas/MeasurementConfigLinkList
Configuration	Config_MEC_4
PICS Selection	PIC_SERVICES and PIC_MEC_PLAT
Initial Conditions	
<pre>with { the IUT being_in idle_state and the IUT having a MeasurementConfig containing measurementConfig set to ANY_VALUE }</pre>	
Expected Behaviour	
<pre>// MEC 028, clause 5.2.7 ensure that { when { the IUT receives a vGET containing uri indicating value "/wai/v2/queries/measurements" from the MEC_APP entity } then { // MEC 028, clause 7.7.3.1 the IUT sends a HTTP_RESPONSE containing status_code set to "200 OK" body containing MeasurementConfigLinkList containing measurementConfig set to ANY_VALUE to the MEC_APP entity } }</pre>	

Table 6.10.1-22: TP_MEC_MEC028_SRV_WAI_012_NF

TP Id	"TP_MEC_MEC028_SRV_WAI_012_NF"
Test Objective	Check that the IUT responds with an error when a request with incorrect parameters is sent by a MEC Application
Reference	ETSI GS MEC 028 (V2.2.1) [11], clause 7.7.3.1
Configuration	Config_MEC_4
PICS Selection	PIC_MEC_SYSTEM and PIC_SERVICES
Initial Conditions	
<pre>with { the IUT being_in idle_state and the IUT "not" having a MeasurementConfig }</pre>	
Expected Behaviour	
<pre>// MEC 028, clause 5.2.7 ensure that { when { the IUT receives a vGET containing uri indicating value "/wai/v2/queries/measurements" from the MEC_APP entity } then { // MEC 028, clause 7.7.3.1 the IUT sends a HTTP_RESPONSE containing status_code set to "404 Not Found" to the MEC_APP entity }</pre>	

Table 6.10.1-23: TP_MEC_MEC028_SRV_WAI_013_OK

TP Id	"TP_MEC_MEC028_SRV_WAI_013_OK"
Test Objective	Check that the IUT responds with a new measurement configuration
Reference	ETSI GS MEC 028 (V2.2.1) [11], clause 7.7.3.4 https://forge.etsi.org/rep/mec/g028-wai-api/-/blob/v2.2.1/WlanInformationApi.yaml#/schemas/MeasurementConfig
Configuration	Config_MEC_4
PICS Selection	PIC_SERVICES and PIC_MEC_PLAT
Initial Conditions	
with { the IUT being_in idle_state }	
Expected Behaviour	
<pre>// MEC 028, clause 5.2.7 ensure that { when { the IUT receives a vPOST containing uri indicating value "/wai/v2/queries/measurements", body containing MeasurementConfig containing measurementId set to MEAS_ID, measurementInfo set to CONFIG_VALUE, StaIdentity containing staId set to STA_ID from the MEC_APP entity } then { // MEC 028, clause 7.7.3.4 the IUT sends a HTTP_RESPONSE containing status_code set to "200 OK" body containing MeasurementConfig containing StaIdentity containing staId set to STA_ID , measurementId set to MEAS_ID, measurementInfo set to CONFIG_VALUE to the MEC_APP entity } }</pre>	

Table 6.10.1-24: TP_MEC_MEC028_SRV_WAI_013_BR

TP Id	"TP_MEC_MEC028_SRV_WAI_013_BR"
Test Objective	Check that the IUT responds with an error when an invalid request is sent
Reference	ETSI GS MEC 028 (V2.2.1) [11], clause 7.7.3.4 https://forge.etsi.org/rep/mec/g028-wai-api/-/blob/v2.2.1/WlanInformationApi.yaml#/schemas/MeasurementConfigLinkList
Configuration	Config_MEC_4
PICS Selection	PIC_SERVICES and PIC_MEC_PLAT
Initial Conditions	
with { the IUT being_in idle_state }	
Expected Behaviour	
<pre>// MEC 028, clause 5.2.7 ensure that { when { the IUT receives a vPOST containing uri indicating value "/wai/v2/queries/measurements" // How to trigger an error response. body containing MeasurementConfig containing StaIdentities containing // StaIdentity is misspelled</pre>	

```

        staId set to STA_ID
        ,
        measurementId set to MEAS_ID,
        measurementInfo set to CONFIG_VALUE

    from the MEC_APP entity
}
then {
    // MEC 028, clause 7.7.3.4
    the IUT sends a HTTP_RESPONSE containing
        status_code set to "400 Bad Request"

    to the MEC_APP entity
}
}

```

Table 6.10.1-25: TP_MEC_MEC028_SRV_WAI_014_OK

TP Id	"TP_MEC_MEC028_SRV_WAI_014_OK"
Test Objective	Check that the IUT responds with the specified measurement configuration
Reference	ETSI GS MEC 028 (V2.2.1) [11], clause 7.8.3.1 https://forge.etsi.org/rep/mec/gs028-wai-api/-/blob/v2.2.1/WlanInformationApi.yaml#/schemas/MeasurementConfigLinkList
Configuration	Config_MEC_4
PICS Selection	PIC_SERVICES and PIC_MEC_PLAT
Initial Conditions	
<pre> with { the IUT being_in idle_state and the IUT having a MeasurementConfig containing measurementConfig containing measurementId set to MEASUREMENT_CONFIG_ID } </pre>	
Expected Behaviour	
<pre> // MEC 028, clause 5.2.7 ensure that { when { the IUT receives a vGET containing uri indicating value "/wai/v2/queries/measurements/{MEASUREMENT_CONFIG_ID}" from the MEC_APP entity } then { // MEC 028, clause 7.8.3.1 the IUT sends a HTTP_RESPONSE containing status_code set to "200 OK" body containing MeasurementConfig containing StaIdentity containing staId set to STA_ID , measurementId set to MEASUREMENT_CONFIG_ID, measurementInfo set to CONFIG_VALUE to the MEC_APP entity } } </pre>	

Table 6.10.1-26: TP_MEC_MEC028_SRV_WAI_014_NF

TP Id	"TP_MEC_MEC028_SRV_WAI_014_NF"
Test Objective	Check that the IUT responds with an error when an invalid request is sent
Reference	ETSI GS MEC 028 (V2.2.1) [11], clause 7.8.3.1 https://forge.etsi.org/rep/mec/g028-wai-api/-/blob/v2.2.1/WlanInformationApi.yaml#/schemas/MeasurementConfigLinkList
Configuration	Config_MEC_4
PICS Selection	PIC_SERVICES and PIC_MEC_PLAT
Initial Conditions	
<pre>with { the IUT being_in idle_state and the IUT "not" having a MeasurementConfig containing measurementConfig containing measurementId set to INVALID_MEASUREMENT_CONFIG_ID }</pre>	
Expected Behaviour	
<pre>// MEC 028, clause 5.2.7 ensure that { when { the IUT receives a vGET containing uri indicating value "/wai/v2/queries/measurements/{INVALID_MEASUREMENT_CONFIG_ID}" from the MEC_APP entity } then { // MEC 028, clause 7.8.3.1 the IUT sends a HTTP_RESPONSE containing status_code set to "404 Not Found" to the MEC_APP entity } }</pre>	

Table 6.10.1-27: TP_MEC_MEC028_SRV_WAI_015_OK

TP Id	"TP_MEC_MEC028_SRV_WAI_015_OK"
Test Objective	Check that the IUT responds with the modified measurement configuration
Reference	ETSI GS MEC 028 (V2.2.1) [11], clause 7.8.3.2 https://forge.etsi.org/rep/mec/g028-wai-api/-/blob/v2.2.1/WlanInformationApi.yaml#/schemas/MeasurementConfigLinkList
Configuration	Config_MEC_4
PICS Selection	PIC_SERVICES and PIC_MEC_PLAT
Initial Conditions	
<pre>with { the IUT being_in idle_state and the IUT having a MeasurementConfig containing measurementConfig containing StaIdentity containing staId set to STA_ID , measurementId set to INVALID_MEASUREMENT_CONFIG_ID, measurementInfo set to CONFIG_VALUE }</pre>	
Expected Behaviour	
<pre>// MEC 028, clause 5.2.7 ensure that { when { the IUT receives a vPUT containing uri indicating value "/wai/v2/queries/measurements/{measurementConfigId}", body containing MeasurementConfig containing StaIdentity containing staId set to STA_ID , measurementId set to MEASUREMENT_CONFIG_ID,</pre>	


```

        measurementInfo set to NEW_CONFIG_VALUE

    from the MEC_APP entity
  }
  then {
    // MEC 028, clause 7.8.3.2
    the IUT sends a HTTP_RESPONSE containing
      status_code set to "200 OK"
      body containing
        MeasurementConfigLinkList containing
          StaIdentity containing
            staId set to STA_ID

            '
            measurementId set to MEASUREMENT_CONFIG_ID,
            measurementInfo set to NEW_CONFIG_VALUE

    to the MEC_APP entity
  }
}

```

Table 6.10.1-28: TP_MEC_MEC028_SRV_WAI_015_NF

TP Id	"TP_MEC_MEC028_SRV_WAI_015_NF"
Test Objective	Check that the IUT responds with an error when an invalid request is sent
Reference	ETSI GS MEC 028 (V2.2.1) [11], clause 7.8.3.2 https://forge.etsi.org/rep/mec/g028-wai-api/-/blob/v2.2.1/WlanInformationApi.yaml#/schemas/MeasurementConfigLinkList
Configuration	Config_MEC_4
PICS Selection	PIC_SERVICES and PIC_MEC_PLAT
Initial Conditions	
<pre> with { the IUT being_in idle_state and the IUT "not" having a MeasurementConfig containing measurementConfig containing measurementId set to INVALID_MEASUREMENT_CONFIG_ID } </pre>	
Expected Behaviour	
<pre> // MEC 028, clause 5.2.7 ensure that { when { the IUT receives a vPUT containing uri indicating value "/wai/v2/queries/measurements/{INVALID_MEASUREMENT_CONFIG_ID}", body containing MeasurementConfigLinkList containing StaIdentity containing staId set to STA_ID ' measurementId set to INVALID_MEASUREMENT_CONFIG_ID, measurementInfo set to NEW_CONFIG_VALUE from the MEC_APP entity } then { // MEC 028, clause 7.8.3.2 the IUT sends a HTTP_RESPONSE containing status_code set to "404 Not Found" to the MEC_APP entity } } </pre>	

Table 6.10.1-29: TP_MEC_MEC028_SRV_WAI_016_OK

TP Id	"TP_MEC_MEC028_SRV_WAI_016_OK"
Test Objective	Check that the IUT responds with 204 when requested to delete the specified measurement configuration
Reference	ETSI GS MEC 028 (V2.2.1) [11], clause 7.8.3.5 https://forge.etsi.org/rep/mec/g028-wai-api/-/blob/v2.2.1/WlanInformationApi.yaml#/schemas/MeasurementConfigLinkList
Configuration	Config_MEC_4
PICS Selection	PIC_SERVICES and PIC_MEC_PLAT
Initial Conditions	
<pre>with { the IUT being_in idle_state and the IUT having a MeasurementConfig containing measurementConfig containing StaIdentity containing staId set to STA_ID , measurementId set to MEASUREMENT_CONFIG_ID, measurementInfo set to NCONFIG_VALUE }</pre>	
Expected Behaviour	
<pre>// MEC 028, clause 5.2.7 ensure that { when { the IUT receives a vDELETE containing uri indicating value "/wai/v2/queries/measurements/{MEASUREMENT_CONFIG_ID}" from the MEC_APP entity } then { // MEC 028, clause 7.8.3.5 the IUT sends a HTTP_RESPONSE containing status_code set to "204 No Content" to the MEC_APP entity } }</pre>	

Table 6.10.1-30: TP_MEC_MEC028_SRV_WAI_016_NF

TP Id	"TP_MEC_MEC028_SRV_WAI_016_NF"
Test Objective	Check that the IUT responds with an error when an invalid request is sent
Reference	ETSI GS MEC 028 (V2.2.1) [11], clause 7.8.3.5 https://forge.etsi.org/rep/mec/g028-wai-api/-/blob/v2.2.1/WlanInformationApi.yaml#/schemas/MeasurementConfigLinkList
Configuration	Config_MEC_4
PICS Selection	PIC_SERVICES and PIC_MEC_PLAT
Initial Conditions	
<pre>with { the IUT being_in idle_state and the IUT "not" having a MeasurementConfig containing measurementId set to INVALID_MEASUREMENT_CONFIG_ID }</pre>	
Expected Behaviour	
<pre>// MEC 028, clause 5.2.7 ensure that { when { the IUT receives a vDELETE containing uri indicating value "/wai/v2/queries/measurements/{INVALID_MEASUREMENT_CONFIG_ID}" from the MEC_APP entity } then { // MEC 028, clause 7.8.3.5</pre>	

```

    the IUT sends a HTTP_RESPONSE containing
      status_code set to "404 Not Found"

    to the MEC_APP entity
  }
}

```

6.11 MEC029

6.11.1 Services (SRV)

6.11.1.1 Fixed Access Information Service (FAIS)

Table 6.11.1-1: TP_MEC_SRV_FAIS_001_OK

TP Id	"TP_MEC_SRV_FAIS_001_OK"
Test Objective	Check that the IUT responds with the current status of the fixed access information when queried by a MEC Application
Reference	ETSI GS MEC 029 [12], clause 7.3.3.1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	
with { the IUT being_in idle_state }	
Expected Behaviour	
ensure that { when { the IUT receives a vGET containing uri indicating value "/fai/v1/queries/fa_info" ; from the MEC_APP } then { // ETSI GS MEC 029, clause 7.3.3.1 the IUT sends a HTTP_RESPONSE containing status_code set to "200 OK" body containing FaInfo set to any_value }; to the MEC_APP } }	
Final Conditions	

6.12 MEC030

6.12.1 Services (SRV)

6.12.1.1 V2X Information Service (V2X)

Table 6.12.1-1: TP_MEC_MEC030_SRV_V2X_001_OK_01

TP Id	"TP_MEC_MEC030_SRV_V2X_001_OK_01"
Test Objective	Check that the IUT responds with a configured provisioning information over Uu unicast when queried by a MEC Application
Reference	ETSI GS MEC 030 (V2.1.1) [13], clause 7.3.3.1 https://forge.etsi.org/rep/mec/g3030-vis-api/-/blob/v2.1.1/MEC030_V2XInformationService.yaml
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	
<pre>with { the IUT being_in idle_state and the MEC_APP having a uuUnicastProvisioningInfo containing location_info indicating value LOCATION_INFO_ECGI }</pre>	
Expected Behaviour	
<pre>// MEC 030 Clause 6.2.2 Type: UuUnicastProvisioningInfo ensure that { when { the IUT receives a vGET containing uri indicating value "vis/v1/queries/uu_unicast_provisioning_info" query_parameters containing location_info indicating value LOCATION_INFO_ECGI from the MEC_APP entity } then { // MEC 030 Clause 7.3.3.1 the IUT sends a HTTP_RESPONSE containing status_code set to "200 OK" body containing uuUnicastProvisioningInfo set to any_value to the MEC_APP entity } }</pre>	

Table 6.12.1-2: TP_MEC_MEC030_SRV_V2X_001_OK_02

TP Id	"TP_MEC_MEC030_SRV_V2X_001_OK_02"
Test Objective	Check that the IUT responds with a configured provisioning information over Uu unicast when queried by a MEC Application
Reference	ETSI GS MEC 030 (V2.1.1) [13], clause 7.3.3.1 https://forge.etsi.org/rep/mec/g3030-vis-api/-/blob/v2.1.1/MEC030_V2XInformationService.yaml
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	
<pre>with { the IUT being_in idle_state and the MEC_APP having a uuUnicastProvisioningInfo containing location_info indicating value LOCATION_INFO_LATITUDE }</pre>	
Expected Behaviour	
<pre>// MEC 030 Clause 6.2.2 Type: UuUnicastProvisioningInfo ensure that { when { the IUT receives a vGET containing uri indicating value "vis/v1/queries/uu_unicast_provisioning_info" query_parameters containing</pre>	

```

        location_info indicating value LOCATION_INFO_LATITUDE

    from the MEC_APP entity
}
then {
    // MEC 030 Clause 7.3.3.1
    the IUT sends a HTTP_RESPONSE containing
        status_code set to "200 OK"
        body containing
            uuUnicastProvisioningInfo set to any_value

    to the MEC_APP entity
}
}

```

Table 6.12.1-3: TP_MEC_MEC030_SRV_V2X_001_BR

TP Id	"TP_MEC_MEC030_SRV_V2X_001_BR"
Test Objective	Check that the IUT responds with an error when a request with incorrect parameters is sent by a MEC Application
Reference	ETSI GS MEC 030 (V2.1.1) [13], clause 7.3.3.1 https://forge.etsi.org/rep/mec/qs030-vis-api/-/blob/v2.1.1/MEC030_V2XInformationService.yaml
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	
<pre> with { the IUT being_in idle_state and the MEC_APP having a uuUnicastProvisioningInfo containing location_info indicating value LOCATION_INFO_LATITUDE } </pre>	
Expected Behaviour	
<pre> // MEC 030 Clause 6.2.2 Type: UuUnicastProvisioningInfo ensure that { when { the IUT receives a vGET containing uri indicating value "vis/v1/queries/uu_unicast_provisioning_info" query_parameters containing location_info indicating value LOCATION_INFO_LATITUDE // Wrong parameter name should trigger an error response. from the MEC_APP entity } then { // MEC 030 Clause 7.3.3.1 the IUT sends a HTTP_RESPONSE containing status_code set to "400 Bad Request" to the MEC_APP entity } } </pre>	

Table 6.12.1-4: TP_MEC_MEC030_SRV_V2X_001_NF

TP Id	"TP_MEC_MEC030_SRV_V2X_001_NF"
Test Objective	Check that the IUT responds with an error when a request with incorrect parameters is sent by a MEC Application
Reference	ETSI GS MEC 030 (V2.1.1) [13], clause 7.3.3.1 https://forge.etsi.org/rep/mec/qs030-vis-api/-/blob/v2.1.1/MEC030_V2XInformationService.yaml
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	
<pre> with { the IUT being_in idle_state and the MEC_APP having a uuUnicastProvisioningInfo containing location_info indicating value LOCATION_INFO_ECGI } </pre>	

Expected Behaviour
<pre>// MEC 030 Clause 6.2.2 Type: UuUnicastProvisioningInfo ensure that { when { the IUT receives a vGET containing uri indicating value "vis/v1/queries/uu_unicast_provisioning_info" query_parameters containing location_info indicating value LOCATION_INFO_UNKNOWN_ECGI from the MEC_APP entity } then { // MEC 030 Clause 7.3.3.1 the IUT sends a HTTP_RESPONSE containing status_code set to "404 Not Found" to the MEC_APP entity } }</pre>

Table 6.12.1-5: TP_MEC_MEC030_SRV_V2X_002_OK_01

TP Id	"TP_MEC_MEC030_SRV_V2X_002_OK_01"
Test Objective	Check that the IUT responds with a configured provisioning information over Uu MBMS when queried by a MEC Application
Reference	ETSI GS MEC 030 (V2.1.1) [13], clause 7.4.3.1 https://forge.etsi.org/rep/mec/g3030-vis-api/-/blob/v2.1.1/MEC030_V2XInformationService.yaml
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	
<pre>with { the IUT being_in idle_state and the MEC_APP having a uuMbmsProvisioningInfo containing location_info indicating value LOCATION_INFO_ECGI }</pre>	
Expected Behaviour	
<pre>// MEC 030 Clause 6.2.3 Type: UuMbmsProvisioningInfo ensure that { when { the IUT receives a vGET containing uri indicating value "vis/v1/queries/uu_mbms_provisioning_info" query_parameters containing location_info indicating value LOCATION_INFO_ECGI from the MEC_APP entity } then { // MEC 030 Clause 7.4.3.1 the IUT sends a HTTP_RESPONSE containing status_code set to "200 OK" body containing uuMbmsProvisioningInfo set to any_value to the MEC_APP entity } }</pre>	

Table 6.12.1-6: TP_MEC_MEC030_SRV_V2X_002_OK_02

TP Id	"TP_MEC_MEC030_SRV_V2X_002_OK_02"
Test Objective	Check that the IUT responds with a configured provisioning information over Uu MBMS when queried by a MEC Application
Reference	ETSI GS MEC 030 (V2.1.1) [13], clause 7.4.3.1 https://forge.etsi.org/rep/mec/gs030-vis-api/-/blob/v2.1.1/MEC030_V2XInformationService.yaml
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	
<pre>with { the IUT being_in idle_state and the MEC_APP having a uuMbmsProvisioningInfo containing location_info indicating value LOCATION_INFO }</pre>	
Expected Behaviour	
<pre>// MEC 030 Clause 6.2.3 Type: UuMbmsProvisioningInfo ensure that { when { the IUT receives a vGET containing uri indicating value "vis/v1/queries/uu_mbms_provisioning_info" query_parameters containing location_info indicating value LOCATION_INFO_LATITUDE from the MEC_APP entity } then { // MEC 030 Clause 7.4.3.1 the IUT sends a HTTP_RESPONSE containing status_code set to "200 OK" body containing uuMbmsProvisioningInfo set to any_value to the MEC_APP entity } }</pre>	

Table 6.12.1-7: TP_MEC_MEC030_SRV_V2X_002_BR

TP Id	"TP_MEC_MEC030_SRV_V2X_002_BR"
Test Objective	Check that the IUT responds with an error when a request with incorrect parameters is sent by a MEC Application
Reference	ETSI GS MEC 030 (V2.1.1) [13], clause 7.4.3.1 https://forge.etsi.org/rep/mec/gs030-vis-api/-/blob/v2.1.1/MEC030_V2XInformationService.yaml
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	
<pre>with { the IUT being_in idle_state and the MEC_APP having a uuMbmsProvisioningInfo containing location_info indicating value LOCATION_INFO }</pre>	
Expected Behaviour	
<pre>// MEC 030 Clause 6.2.3 Type: UuMbmsProvisioningInfo ensure that { when { the IUT receives a vGET containing uri indicating value "vis/v1/queries/uu_mbms_provisioning_info" query_parameters containing location_info indicating value LOCATION_INFO_ECGI // Wrong parameter name should trigger an error response. from the MEC_APP entity } then { // MEC 030 Clause 7.4.3.1 the IUT sends a HTTP_RESPONSE containing status_code set to "400 Bad Request" } }</pre>	

```

    to the MEC_APP entity
  }
}

```

Table 6.12.1-8: TP_MEC_MEC030_SRV_V2X_002_NF

TP Id	"TP_MEC_MEC030_SRV_V2X_002_NF"
Test Objective	Check that the IUT responds with an error when a request with incorrect parameters is sent by a MEC Application
Reference	ETSI GS MEC 030 (V2.1.1) [13], clause 7.4.3.1 https://forge.etsi.org/rep/mec/qs030-vis-api/-/blob/v2.1.1/MEC030_V2XInformationService.yaml
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	
<pre> with { the IUT being_in idle_state and the MEC_APP having a uuMbmsProvisioningInfo containing location_info indicating value LOCATION_INFO } </pre>	
Expected Behaviour	
<pre> // MEC 030 Clause 6.2.3 Type: UuMbmsProvisioningInfo ensure that { when { the IUT receives a vGET containing uri indicating value "vis/v1/queries/uu_mbms_provisioning_info" query_parameters containing location_info indicating value LOCATION_INFO_UNKNOWN_LATITUDE from the MEC_APP entity } then { // MEC 030 Clause 7.4.3.1 the IUT sends a HTTP_RESPONSE containing status_code set to "404 Not Found" to the MEC_APP entity } } </pre>	

Table 6.12.1-9: TP_MEC_MEC030_SRV_V2X_003_OK_01

TP Id	"TP_MEC_MEC030_SRV_V2X_003_OK_01"
Test Objective	Check that the IUT responds with a configured provisioning information over PC5 when queried by a MEC Application
Reference	ETSI GS MEC 030 (V2.1.1) [13], clause 7.5.3.1 https://forge.etsi.org/rep/mec/qs030-vis-api/-/blob/v2.1.1/MEC030_V2XInformationService.yaml
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	
<pre> with { the IUT being_in idle_state and the MEC_APP having a pc5ProvisioningInfo containing location_info indicating value LOCATION_INFO } </pre>	
Expected Behaviour	
<pre> // MEC 030 Clause 6.2.4 Type: Pc5ProvisioningInfo ensure that { when { the IUT receives a vGET containing uri indicating value "vis/v1/queries/pc5_provisioning_info" query_parameters containing location_info indicating value LOCATION_INFO_ECGI from the MEC_APP entity } then { </pre>	


```

// MEC 030 Clause 7.5.3.1
the IUT sends a HTTP_RESPONSE containing
  status_code set to "200 OK"
  body containing
    pc5ProvisioningInfo set to any_value

to the MEC_APP entity
}
}

```

Table 6.12.1-10: TP_MEC_MEC030_SRV_V2X_003_OK_02

TP Id	"TP_MEC_MEC030_SRV_V2X_003_OK_02"
Test Objective	Check that the IUT responds with a configured provisioning information over PC5 when queried by a MEC Application
Reference	ETSI GS MEC 030 (V2.1.1) [13], clause 7.5.3.1 https://forge.etsi.org/rep/mec/qs030-vis-api/-/blob/v2.1.1/MEC030_V2XInformationService.yaml
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	
<pre> with { the IUT being_in idle_state and the MEC_APP having a pc5ProvisioningInfo containing location_info indicating value LOCATION_INFO } </pre>	
Expected Behaviour	
<pre> // MEC 030 Clause 6.2.4 Type: Pc5ProvisioningInfo ensure that { when { the IUT receives a vGET containing uri indicating value "vis/v1/queries/pc5_provisioning_info" query_parameters containing location_info indicating value LOCATION_INFO_LATITUDE from the MEC_APP entity } then { // MEC 030 Clause 7.5.3.1 the IUT sends a HTTP_RESPONSE containing status_code set to "200 OK" body containing pc5ProvisioningInfo set to any_value to the MEC_APP entity } } </pre>	

Table 6.12.1-11: TP_MEC_MEC030_SRV_V2X_003_BR

TP Id	"TP_MEC_MEC030_SRV_V2X_003_BR"
Test Objective	Check that the IUT responds with an error when a request with incorrect parameters is sent by a MEC Application
Reference	ETSI GS MEC 030 (V2.1.1) [13], clause 7.5.3.1 https://forge.etsi.org/rep/mec/qs030-vis-api/-/blob/v2.1.1/MEC030_V2XInformationService.yaml
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	
<pre> with { the IUT being_in idle_state and the MEC_APP having a pc5ProvisioningInfo containing location_info indicating value LOCATION_INFO } </pre>	
Expected Behaviour	
<pre> // MEC 030 Clause 6.2.4 Type: Pc5ProvisioningInfo ensure that { when { </pre>	

```

the IUT receives a vGET containing
  uri indicating value "vis/v1/queries/pc5_provisioning_info"
  query_parameters containing
    location_info indicating value LOCATION_INFO_ECGI
    // Wrong parameter name should trigger an error response.

from the MEC_APP entity
}
then {
  // MEC 030 Clause 7.5.3.1
  the IUT sends a HTTP_RESPONSE containing
    status_code set to "400 Bad Request"

to the MEC_APP entity
}
}

```

Table 6.12.1-12: TP_MEC_MEC030_SRV_V2X_003_NF

TP Id	"TP_MEC_MEC030_SRV_V2X_003_NF"
Test Objective	Check that the IUT responds with an error when a request with incorrect parameters is sent by a MEC Application
Reference	ETSI GS MEC 030 (V2.1.1) [13], clause 7.5.3.1 https://forge.etsi.org/rep/mec/qs030-vis-api/-/blob/v2.1.1/MEC030_V2XInformationService.yaml
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	
<pre> with { the IUT being_in idle_state and the MEC_APP having a pc5ProvisioningInfo containing location_info indicating value LOCATION_INFO } </pre>	
Expected Behaviour	
<pre> // MEC 030 Clause 6.2.4 Type: Pc5ProvisioningInfo ensure that { when { the IUT receives a vGET containing uri indicating value "vis/v1/queries/pc5_provisioning_info" query_parameters containing location_info indicating value LOCATION_INFO_UNKNOWN_ECGI from the MEC_APP entity } then { // MEC 030 Clause 7.5.3.1 the IUT sends a HTTP_RESPONSE containing status_code set to "404 Not Found" to the MEC_APP entity } } </pre>	

Table 6.12.1-13: TP_MEC_MEC030_SRV_V2X_004_OK

TP Id	"TP_MEC_MEC030_SRV_V2X_004_OK"
Test Objective	Check that the IUT sends a request about QoS information for a vehicular UE when queried by a MEC Application
Reference	ETSI GS MEC 030 (V2.1.1) [13], clause 7.6.3.4 https://forge.etsi.org/rep/mec/qs030-vis-api/-/blob/v2.1.1/MEC030_V2XInformationService.yaml
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	
<pre> with { the IUT being_in idle_state and the MEC_APP having a predictedQos } </pre>	

Expected Behaviour
<pre>// MEC 030 Clause 6.2.5 Type: PredictedQos ensure that { when { the IUT receives a vPOST containing uri indicating value "vis/v1/provide_predicted_qos" body containing predictedQos containing locationGranularity indicating value PREDICTED_LOCATION_GRANULARITY, routes indicating value PREDICTED_ROUTES from the MEC_APP entity } then { // MEC 030 Clause 7.6.3.4 the IUT sends a HTTP_RESPONSE containing status_code set to "200 OK" body containing predictedQos containing locationGranularity set to any_value, routes set to any_value to the MEC_APP entity } }</pre>

Table 6.12.1-14: TP_MEC_MEC030_SRV_V2X_004_BR

TP Id	"TP_MEC_MEC030_SRV_V2X_004_BR"
Test Objective	Check that the IUT responds with an error when a request with incorrect parameters is sent by a MEC Application
Reference	ETSI GS MEC 030 (V2.1.1) [13], clause 7.6.3.4 https://forge.etsi.org/rep/mec/g3030-vis-api/-/blob/v2.1.1/MEC030_V2XInformationService.yaml
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	
<pre>with { the IUT being_in idle_state and the MEC_APP having a predictedQos }</pre>	
Expected Behaviour	
<pre>// MEC 030 Clause 6.2.5 Type: PredictedQos ensure that { when { the IUT receives a vPOST containing uri indicating value "vis/v1/provide_predicted_qos" // Wrong parameter name should trigger an error response. body containing predictedQos containing locationGranularity indicating value PREDICTED_LOCATION_GRANULARITY, routes indicating value PREDICTED_ROUTES from the MEC_APP entity } then { // MEC 030 Clause 7.6.3.4 the IUT sends a HTTP_RESPONSE containing status_code set to "400 Bad Request" to the MEC_APP entity } }</pre>	

Table 6.12.1-15: TP_MEC_MEC030_SRV_V2X_004_NF

TP Id	"TP_MEC_MEC030_SRV_V2X_004_NF"
Test Objective	Check that the IUT responds with an error when a request with incorrect parameters is sent by a MEC Application
Reference	ETSI GS MEC 030 (V2.1.1) [13], clause 7.6.3.4 https://forge.etsi.org/rep/mec/gs030-vis-api/-/blob/v2.1.1/MEC030_V2XInformationService.yaml
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	
with { the IUT being_in idle_state and the MEC_APP not having a predictedQos }	
Expected Behaviour	
<pre>// MEC 030 Clause 6.2.5 Type: PredictedQos ensure that { when { the IUT receives a vPOST containing uri indicating value "vis/v1/provide_predicted_qos" body containing predictedQos containing locationGranularity indicating value PREDICTED_LOCATION_GRANULARITY, routes indicating value PREDICTED_UNKNOWN_ROUTES from the MEC_APP entity } then { // MEC 030 Clause 7.6.3.4 the IUT sends a HTTP_RESPONSE containing status_code set to "404 Not Found" to the MEC_APP entity } }</pre>	

Table 6.12.1-16: TP_MEC_MEC030_SRV_V2X_005_OK

TP Id	"TP_MEC_MEC030_SRV_V2X_005_OK"
Test Objective	Check that the IUT processes properly a request to publish a V2X message
Reference	ETSI GS MEC 030 (V2.1.1) [13], clause 7.7.3.4 https://forge.etsi.org/rep/mec/gs030-vis-api/-/blob/v2.1.1/MEC030_V2XInformationService.yaml
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	
with { the IUT being_in idle_state }	
Expected Behaviour	
<pre>// MEC 030 Clause 6.2.6 Type: V2xMsgPublication ensure that { when { the IUT receives a vPOST containing uri indicating value "vis/v1/publish_v2x_message" body containing V2xMsgPublication containing stdOrganization indicating value "ETSI", msgType indicating value 2, // ETSI ITS CAM, See ETSI TS 102 894-2 msgEncodeFormat indicating value "base64", msgContent indicating value CAM_VALUE_BASE_64 from the MEC_APP entity } then { // MEC 030 Clause 7.7.3.4 the IUT sends a HTTP_RESPONSE containing status_code set to "204 No Content" to the MEC_APP entity } }</pre>	

```
}
}
```

Table 6.12.1-17: TP_MEC_MEC030_SRV_V2X_005_BR

TP Id	"TP_MEC_MEC030_SRV_V2X_005_BR"
Test Objective	Check that the IUT responds with an error when a request with incorrect parameters is sent by a MEC Application
Reference	ETSI GS MEC 030 (V2.1.1) [13], clause 7.7.3.4 https://forge.etsi.org/rep/mec/g3030-vis-api/-/blob/v2.1.1/MEC030_V2XInformationService.yaml
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	
with { the IUT being_in idle_state }	
Expected Behaviour	
<pre>// MEC 030 Clause 6.2.6 Type: V2xMsgPublication ensure that { when { the IUT receives a vPOST containing uri indicating value "vis/v1/publish_v2x_message", body containing V2xMsgPublication containing stdOrganization indicating value "UNKNOWN_ORG" from the MEC_APP entity } then { // MEC 030 Clause 7.7.3.4 the IUT sends a HTTP_RESPONSE containing status_code set to "400 Bad Request" to the MEC_APP entity } }</pre>	

Table 6.12.1-18: TP_MEC_MEC030_SRV_V2X_006_OK_01

TP Id	"TP_MEC_MEC030_SRV_V2X_006_OK_01"
Test Objective	Check that the IUT responds with the requested list of subscription when queried by a MEC Application
Reference	ETSI GS MEC 030 (V2.1.1) [13], clause 7.8.3.1 https://forge.etsi.org/rep/mec/g3030-vis-api/-/blob/v2.1.1/MEC030_V2XInformationService.yaml
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	
with { the IUT being_in idle_state and the IUT having a provChgUuUniSubscription containing _links containing self indicating value HREF_UU_UNI_SUBSCRIPTION }	
Expected Behaviour	
<pre>// MEC 030 Clause 6.3.2 Type: ProvChgUuUniSubscription ensure that { when { the IUT receives a vGET containing uri indicating value "vis/v1/subscriptions/prov_chg_uu_uni" from the MEC_APP entity } then { // MEC 030 Clause 7.8.3.1 the IUT sends a HTTP_RESPONSE containing status_code set to "200 OK" containing body containing</pre>	

```

        subscriptionLinkList containing
            subscriptions containing
                href indicating value HREF_UU_UNI_SUBSCRIPTION,
                subscriptionType indicating value "ProvChgUuUniSubscription"

        to the MEC_APP entity
    }
}

```

Table 6.12.1-19: TP_MEC_MEC030_SRV_V2X_006_OK_02

TP Id	"TP_MEC_MEC030_SRV_V2X_006_OK_02"
Test Objective	Check that the IUT responds with the requested list of subscription when queried by a MEC Application
Reference	ETSI GS MEC 030 (V2.1.1) [13], clause 7.8.3.1 https://forge.etsi.org/rep/mec/qs030-vis-api/-/blob/v2.1.1/MEC030_V2XInformationService.yaml
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	
<pre> with { the IUT being_in idle_state and the IUT having a provChgUuMbmsSubscription containing _links containing self indicating value HREF_UU_MBMS_SUBSCRIPTION } </pre>	
Expected Behaviour	
<pre> // MEC 030 Clause 6.3.3 Type: ProvChgUuMbmsSubscription ensure that { when { the IUT receives a vGET containing uri indicating value "vis/v1/subscriptions/prov_chg_uu_mbms" from the MEC_APP entity } then { // MEC 030 Clause 7.8.3.1 the IUT sends a HTTP_RESPONSE containing status_code set to "200 OK" containing body containing subscriptionLinkList containing subscriptions containing href indicating value HREF_UU_MBMS_SUBSCRIPTION, subscriptionType indicating value "ProvChgUuMbmsSubscription" to the MEC_APP entity } } </pre>	

Table 6.12.1-20: TP_MEC_MEC030_SRV_V2X_006_OK_03

TP Id	"TP_MEC_MEC030_SRV_V2X_006_OK_03"
Test Objective	Check that the IUT responds with the requested list of subscription when queried by a MEC Application
Reference	ETSI GS MEC 030 (V2.1.1) [13], clause 7.8.3.1 https://forge.etsi.org/rep/mec/qs030-vis-api/-/blob/v2.1.1/MEC030_V2XInformationService.yaml
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	
<pre> with { the IUT being_in idle_state and the IUT having a pc5ProvisioningInfo containing _links containing self indicating value HREF_PC5_SUBSCRIPTION } </pre>	

Expected Behaviour
<pre> } // MEC 030 Clause 6.3.3 Type: ProvChgUuMbmsSubscription ensure that { when { the IUT receives a vGET containing uri indicating value "vis/v1/subscriptions/prov_chg_pc5" from the MEC_APP entity } then { // MEC 030 Clause 7.8.3.1 the IUT sends a HTTP_RESPONSE containing status_code set to "200 OK" containing body containing subscriptionLinkList containing subscriptions containing href indicating value HREF_PC5_SUBSCRIPTION, subscriptionType indicating value "ProvChgPc5Subscription" to the MEC_APP entity } } </pre>

Table 6.12.1-21: TP_MEC_MEC030_SRV_V2X_006_OK_04

TP Id	"TP_MEC_MEC030_SRV_V2X_006_OK_04"
Test Objective	Check that the IUT responds with the requested list of subscription when queried by a MEC Application
Reference	ETSI GS MEC 030 (V2.1.1) [13], clause 7.8.3.1 https://forge.etsi.org/rep/mec/gs030-vis-api/-/blob/v2.1.1/MEC030_V2XInformationService.yaml
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	
<pre> with { the IUT being_in idle_state and the IUT having a v2xMsgSubscription containing _links containing self indicating value HREF_V2X_MSG_SUBSCRIPTION } </pre>	
Expected Behaviour	
<pre> // MEC 030 Clause 6.3.5 Type: V2xMsgSubscription ensure that { when { the IUT receives a vGET containing uri indicating value "vis/v1/subscriptions/v2x_msg" from the MEC_APP entity } then { // MEC 030 Clause 7.8.3.1 the IUT sends a HTTP_RESPONSE containing status_code set to "200 OK" containing body containing subscriptionLinkList containing subscriptions containing href indicating value HREF_V2X_MSG_SUBSCRIPTION, subscriptionType indicating value "V2xMsgSubscription" to the MEC_APP entity } } </pre>	

Table 6.12.1-22: TP_MEC_MEC030_SRV_V2X_006_BR

TP Id	"TP_MEC_MEC030_SRV_V2X_006_BR"
Test Objective	Check that the IUT responds with an error when a request with incorrect parameters is sent by a MEC Application
Reference	ETSI GS MEC 030 (V2.1.1) [13], clause 7.8.3.1 https://forge.etsi.org/rep/mec/gs030-vis-api/-/blob/v2.1.1/MEC030_V2XInformationService.yaml
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	
<pre>with { the IUT being_in idle_state and the IUT having a provChgUuUniSubscription containing _links containing self indicating value HREF_UU_UNI_SUBSCRIPTION }</pre>	
Expected Behaviour	
<pre>// MEC 030 Clause 6.3.2 Type: ProvChgUuUniSubscription ensure that { when { the IUT receives a vGET containing uri indicating value "vis/v1/subscriptions/{subscriptionType}", query_parameters containing // Wrong parameter name should trigger an error response. subscriptionType indicating value ANY from the MEC_APP entity } then { // MEC 030 Clause 7.8.3.1 the IUT sends a HTTP_RESPONSE containing status_code set to "400 Bad Request" to the MEC_APP entity } }</pre>	

Table 6.12.1-23: TP_MEC_MEC030_SRV_V2X_007_OK_01

TP Id	"TP_MEC_MEC030_SRV_V2X_007_OK_01"
Test Objective	Check that the IUT responds with the requested to create a subscription
Reference	ETSI GS MEC 030 (V2.1.1) [13], clause 7.8.3.4 https://forge.etsi.org/rep/mec/gs030-vis-api/-/blob/v2.1.1/MEC030_V2XInformationService.yaml
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	
<pre>with { the IUT being_in idle_state }</pre>	
Expected Behaviour	
<pre>// MEC 030 Clause 6.3.2 Type: ProvChgUuUniSubscription ensure that { when { the IUT receives a vPOST containing uri indicating value "vis/v1/subscriptions", body containing provChgUuUniSubscription containing subscriptionType indicating value "ProvChgUuUniSubscription", callbackReference indicating value CALLBACK_UU_UNI_SUBSCRIPTION, filterCriteria indicating value FILTER_UU_UNI_CRITERIA from the MEC_APP entity } then { // MEC 030 Clause 7.8.3.4 the IUT sends a HTTP_RESPONSE containing status_code set to "201 Created" containing body containing</pre>	


```

        provChgUuUniSubscription containing
            subscriptionType indicating value "ProvChgUuUniSubscription",
            callbackReference indicating value CALLBACK_UU_UNI_SUBSCRIPTION,
            filterCriteria indicating value FILTER_UU_UNI_CRITERIA,
            _links indicating value HREF_UU_UNI_SUBSCRIPTION

    to the MEC_APP entity
}
}

```

Table 6.12.1-24: TP_MEC_MEC030_SRV_V2X_007_OK_02

TP Id	"TP_MEC_MEC030_SRV_V2X_007_OK_02"
Test Objective	Check that the IUT responds with the requested to create a subscription
Reference	ETSI GS MEC 030 (V2.1.1) [13], clause 7.8.3.4 https://forge.etsi.org/rep/mec/g3030-vis-api/-/blob/v2.1.1/MEC030_V2XInformationService.yaml
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	
with { the IUT being_in idle_state }	
Expected Behaviour	
<pre> // MEC 030 Clause 6.3.3 Type: ProvChgUuMbmsSubscription ensure that { when { the IUT receives a vPOST containing uri indicating value "vis/v1/subscriptions", body containing provChgUuMbmsSubscription containing subscriptionType indicating value "ProvChgUuMbmsSubscription", callbackReference indicating value CALLBACK_UU_MBMS_SUBSCRIPTION, filterCriteria indicating value FILTER_UU_MBMS_CRITERIA from the MEC_APP entity } then { // MEC 030 Clause 7.8.3.4 the IUT sends a HTTP_RESPONSE containing status_code set to "201 Created" containing body containing provChgUuMbmsSubscription containing subscriptionType indicating value "ProvChgUuMbmsSubscription", callbackReference indicating value CALLBACK_UU_MBMS_SUBSCRIPTION, filterCriteria indicating value FILTER_UU_MBMS_CRITERIA, _links indicating value HREF_UU_MBMS_SUBSCRIPTION to the MEC_APP entity } } </pre>	

Table 6.12.1-25: TP_MEC_MEC030_SRV_V2X_007_OK_03

TP Id	"TP_MEC_MEC030_SRV_V2X_007_OK_03"
Test Objective	Check that the IUT responds with the requested to create a subscription
Reference	ETSI GS MEC 030 (V2.1.1) [13], clause 7.8.3.4 https://forge.etsi.org/rep/mec/g3030-vis-api/-/blob/v2.1.1/MEC030_V2XInformationService.yaml
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	
with { the IUT being_in idle_state }	

Expected Behaviour
<pre>// MEC 030 Clause 6.3.4 Type: ProvChgPc5Subscription ensure that { when { the IUT receives a vPOST containing uri indicating value "vis/v1/subscriptions" body containing provChgPc5Subscription containing subscriptionType indicating value "ProvChgPc5Subscription", callbackReference indicating value CALLBACK_PC5_SUBSCRIPTION, filterCriteria indicating value FILTER_PC5_CRITERIA from the MEC_APP entity } then { // MEC 030 Clause 7.8.3.4 the IUT sends a HTTP_RESPONSE containing status_code set to "201 Created" containing body containing provChgPc5Subscription containing subscriptionType indicating value "ProvChgUuMbmsSubscription", callbackReference indicating value CALLBACK_PC5_SUBSCRIPTION, filterCriteria indicating value FILTER_PC5_CRITERIA, _links indicating value HREF_PC5_SUBSCRIPTION to the MEC_APP entity } }</pre>

Table 6.12.1-26: TP_MEC_MEC030_SRV_V2X_007_OK_04

TP Id	"TP_MEC_MEC030_SRV_V2X_007_OK_04"
Test Objective	Check that the IUT responds with the requested to create a subscription
Reference	ETSI GS MEC 030 (V2.1.1) [13], clause 7.8.3.4 https://forge.etsi.org/rep/mec/gs030-vis-api/-/blob/v2.1.1/MEC030_V2XInformationService.yaml
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	
with { the IUT being_in idle_state }	
Expected Behaviour	
<pre>// MEC 030 Clause 6.3.5 Type: V2xMsgSubscription ensure that { when { the IUT receives a vPOST containing uri indicating value "vis/v1/subscriptions" body containing v2xMsgSubscription containing subscriptionType indicating value "V2xMsgSubscription", callbackReference indicating value CALLBACK_PC5_SUBSCRIPTION, filterCriteria indicating value FILTER_V2XMSG_CRITERIA from the MEC_APP entity } then { // MEC 030 Clause 7.8.3.4 the IUT sends a HTTP_RESPONSE containing status_code set to "201 Created" containing body containing v2xMsgSubscription containing subscriptionType indicating value "V2xMsgSubscription", callbackReference indicating value CALLBACK_V2XMSG_SUBSCRIPTION, filterCriteria indicating value FILTER_V2XMSG_CRITERIA, _links indicating value HREF_V2XMSG_SUBSCRIPTION } }</pre>	

```

    to the MEC_APP entity
  }
}

```

Table 6.12.1-27: TP_MEC_MEC030_SRV_V2X_007_BR

TP Id	"TP_MEC_MEC030_SRV_V2X_007_BR"
Test Objective	Check that the IUT responds with the requested to create a subscription
Reference	ETSI GS MEC 030 (V2.1.1) [13], clause 7.8.3.4 https://forge.etsi.org/rep/mec/g3030-vis-api/-/blob/v2.1.1/MEC030_V2XInformationService.yaml
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	
with { the IUT being_in idle_state }	
Expected Behaviour	
<pre> // MEC 030 Clause 6.3.3 Type: ProvChgUuMbmsSubscription ensure that { when { the IUT receives a vPOST containing uri indicating value "vis/v1/subscriptions" body containing provChgUuMbmsSubscription containing subscriptionType indicating value "InvalidProvChgUuMbmsSubscription", // Invalid SubscriptionType callbackReference indicating value CALLBACK_UU_MBMS_SUBSCRIPTION, filterCriteria indicating value FILTER_UU_MBMS_CRITERIA from the MEC_APP entity } then { // MEC 030 Clause 7.8.3.4 the IUT sends a HTTP_RESPONSE containing status_code set to "400 Bad Request" to the MEC_APP entity } } </pre>	

Table 6.12.1-28: TP_MEC_MEC030_SRV_V2X_008_OK_01

TP Id	"TP_MEC_MEC030_SRV_V2X_008_OK_01"
Test Objective	Check that the IUT responds with the requested of subscription information when queried by a MEC Application
Reference	ETSI GS MEC 030 (V2.1.1) [13], clause 7.9.3.1 https://forge.etsi.org/rep/mec/g3030-vis-api/-/blob/v2.1.1/MEC030_V2XInformationService.yaml
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	
with { the IUT being_in idle_state and the IUT having a provChgUuUniSubscription containing _links containing self indicating value HREF_UU_UNI_SUBSCRIPTION }	
Expected Behaviour	
<pre> // MEC 030 Clause 6.3.2 Type: ProvChgUuUniSubscription ensure that { when { the IUT receives a vGET containing uri indicating value "vis/v1/subscriptions/{subscriptionId}", query_parameters containing subscriptionId indicating value HREF_UU_UNI_SUBSCRIPTION from the MEC_APP entity } } </pre>	

```

}
then {
  // MEC 030 Clause 7.9.3.1
  the IUT sends a HTTP_RESPONSE containing
  status_code set to "200 OK" containing
  body containing
  provChgUuUniSubscription containing
    subscriptionType indicating value "ProvChgUuUniSubscription",
    callbackReference indicating value CALLBACK_UU_UNI_SUBSCRIPTION,
    filterCriteria indicating value FILTER_UU_UNI_CRITERIA,
    _links indicating value HREF_UU_UNI_SUBSCRIPTION

  to the MEC_APP entity
}
}

```

Table 6.12.1-29: TP_MEC_MEC030_SRV_V2X_008_OK_02

TP Id	"TP_MEC_MEC030_SRV_V2X_008_OK_02"
Test Objective	Check that the IUT responds with the requested of subscription information when queried by a MEC Application
Reference	ETSI GS MEC 030 (V2.1.1) [13], clause 7.9.3.1 https://forge.etsi.org/rep/mec/g3030-vis-api/-/blob/v2.1.1/MEC030_V2XInformationService.yaml
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	
<pre> with { the IUT being_in idle_state and the IUT having a provChgUuMbmsSubscription containing _links containing self indicating value HREF_UU_MBMS_SUBSCRIPTION } </pre>	
Expected Behaviour	
<pre> // MEC 030 Clause 6.3.3 Type: ProvChgUuMbmsSubscription ensure that { when { the IUT receives a vGET containing uri indicating value "vis/v1/subscriptions/{subscriptionId}", query_parameters containing subscriptionId indicating value HREF_UU_MBMS_SUBSCRIPTION from the MEC_APP entity } then { // MEC 030 Clause 7.9.3.1 the IUT sends a HTTP_RESPONSE containing status_code set to "200 OK" containing body containing provChgUuMbmsSubscription containing subscriptionType indicating value "ProvChgUuMbmsSubscription", callbackReference indicating value CALLBACK_UU_MBMS_SUBSCRIPTION, filterCriteria indicating value FILTER_UU_MBMS_CRITERIA, _links indicating value HREF_UU_MBMS_SUBSCRIPTION to the MEC_APP entity } } </pre>	

Table 6.12.1-30: TP_MEC_MEC030_SRV_V2X_008_OK_03

TP Id	"TP_MEC_MEC030_SRV_V2X_008_OK_03"
Test Objective	Check that the IUT responds with the requested of subscription information when queried by a MEC Application
Reference	ETSI GS MEC 030 (V2.1.1) [13], clause 7.9.3.1 https://forge.etsi.org/rep/mec/qs030-vis-api/-/blob/v2.1.1/MEC030_V2XInformationService.yaml
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	
<pre>with { the IUT being_in idle_state and the IUT having a provChgPc5Subscription containing _links containing self indicating value HREF_PC5_SUBSCRIPTION }</pre>	
Expected Behaviour	
<pre>// MEC 030 Clause 6.3.4 Type: ProvChgPc5Subscription ensure that { when { the IUT receives a vGET containing uri indicating value "vis/v1/subscriptions/{subscriptionId}", query_parameters containing subscriptionId indicating value HREF_PC5_SUBSCRIPTION from the MEC_APP entity } then { // MEC 030 Clause 7.9.3.1 the IUT sends a HTTP_RESPONSE containing status_code set to "200 OK" containing body containing provChgPc5Subscription containing subscriptionType indicating value "ProvChgPc5Subscription", callbackReference indicating value CALLBACK_PC5_SUBSCRIPTION, filterCriteria indicating value FILTER_PC5_CRITERIA, _links indicating value HREF_PC5_SUBSCRIPTION to the MEC_APP entity } }</pre>	

Table 6.12.1-31: TP_MEC_MEC030_SRV_V2X_008_OK_04

TP Id	"TP_MEC_MEC030_SRV_V2X_008_OK_04"
Test Objective	Check that the IUT responds with the requested of subscription information when queried by a MEC Application
Reference	ETSI GS MEC 030 (V2.1.1) [13], clause 7.9.3.1 https://forge.etsi.org/rep/mec/qs030-vis-api/-/blob/v2.1.1/MEC030_V2XInformationService.yaml
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	
<pre>with { the IUT being_in idle_state and the IUT having a v2xMsgSubscription containing _links containing self indicating value HREF_V2XMSG_SUBSCRIPTION }</pre>	
Expected Behaviour	
<pre>// MEC 030 Clause 6.3.5 Type: V2xMsgSubscription ensure that { when { the IUT receives a vGET containing uri indicating value "vis/v1/subscriptions/{subscriptionId}", query_parameters containing subscriptionId indicating value HREF_V2XMSG_SUBSCRIPTION</pre>	

```

    from the MEC_APP entity
  }
  then {
    // MEC 030 Clause 7.9.3.1
    the IUT sends a HTTP_RESPONSE containing
      status_code set to "200 OK" containing
      body containing
        v2xMsgSubscription containing
          subscriptionType indicating value "V2xMsgSubscription",
          callbackReference indicating value CALLBACK_V2XMSG_SUBSCRIPTION,
          filterCriteria indicating value FILTER_V2XMSG_CRITERIA,
          _links indicating value HREF_V2XMSG_SUBSCRIPTION

    to the MEC_APP entity
  }
}

```

Table 6.12.1-32: TP_MEC_MEC030_SRV_V2X_008_OK_BR

TP Id	"TP_MEC_MEC030_SRV_V2X_008_BR"
Test Objective	Check that the IUT responds with an error when a request with incorrect parameters is sent by a MEC Application
Reference	ETSI GS MEC 030 (V2.1.1) [13], clause 7.9.3.1 https://forge.etsi.org/rep/mec/g3030-vis-api/-/blob/v2.1.1/MEC030_V2XInformationService.yaml
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	
<pre> with { the IUT being_in idle_state and the IUT having a v2xMsgSubscription containing _links containing self indicating value HREF_V2XMSG_SUBSCRIPTION } </pre>	
Expected Behaviour	
<pre> // MEC 030 Clause 6.3.5 Type: V2xMsgSubscription ensure that { when { the IUT receives a vGET containing uri indicating value "vis/v1/subscriptions/{subscriptionId}", query_parameters containing // Wrong parameter name should trigger an error response. subscriptionId indicating value HREF_V2XMSG_SUBSCRIPTION from the MEC_APP entity } then { // MEC 030 Clause 7.9.3.1 the IUT sends a HTTP_RESPONSE containing status_code set to "400 Bad Request" to the MEC_APP entity } } </pre>	

Table 6.12.1-33: TP_MEC_MEC030_SRV_V2X_008_NF

TP Id	"TP_MEC_MEC030_SRV_V2X_008_NF"
Test Objective	Check that the IUT responds with an error when a request with incorrect parameters is sent by a MEC Application
Reference	ETSI GS MEC 030 (V2.1.1) [13], clause 7.9.3.1 https://forge.etsi.org/rep/mec/qs030-vis-api/-/blob/v2.1.1/MEC030_V2XInformationService.yaml
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	
<pre>with { the IUT being_in idle_state and the IUT having a v2xMsgSubscription containing _links containing self indicating value HREF_V2XMSG_SUBSCRIPTION }</pre>	
Expected Behaviour	
<pre>// MEC 030 Clause 6.3.5 Type: V2xMsgSubscription ensure that { when { the IUT receives a vGET containing uri indicating value "vis/v1/subscriptions/{subscriptionId}", query_parameters containing subscriptionId indicating value HREF_V2XMSG_UNKNOWN_SUBSCRIPTION from the MEC_APP entity } then { // MEC 030 Clause 7.9.3.1 the IUT sends a HTTP_RESPONSE containing status_code set to "404 Not Found" to the MEC_APP entity } }</pre>	

Table 6.12.1-34: TP_MEC_MEC030_SRV_V2X_009_OK_01

TP Id	"TP_MEC_MEC030_SRV_V2X_009_OK_01"
Test Objective	Check that the IUT responds with the requested of updating subscription when queried by a MEC Application
Reference	ETSI GS MEC 030 (V2.1.1) [13], clause 7.9.3.2 https://forge.etsi.org/rep/mec/qs030-vis-api/-/blob/v2.1.1/MEC030_V2XInformationService.yaml
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	
<pre>with { the IUT being_in idle_state and the IUT having a provChgUuUniSubscription containing _links containing self indicating value HREF_UU_UNI_SUBSCRIPTION }</pre>	
Expected Behaviour	
<pre>// MEC 030 Clause 6.3.2 Type: ProvChgUuUniSubscription ensure that { when { the IUT receives a vPUT containing uri indicating value "vis/v1/subscriptions/{subscriptionId}", query_parameters containing subscriptionId indicating value HREF_UU_UNI_SUBSCRIPTION, body containing provChgUuUniSubscription containing subscriptionType indicating value "ProvChgUuUniSubscription", callbackReference indicating value CALLBACK_UU_UNI_SUBSCRIPTION, filterCriteria indicating value FILTER_UU_UNI_CRITERIA_1, _links indicating value HREF_UU_UNI_SUBSCRIPTION } }</pre>	

```

    from the MEC_APP entity
  }
  then {
    // MEC 030 Clause 7.9.3.2
    the IUT sends a HTTP_RESPONSE containing
      status_code set to "200 OK" containing
      body containing
        provChgUuUniSubscription containing
          subscriptionType indicating value "ProvChgUuUniSubscription",
          callbackReference indicating value CALLBACK_UU_UNI_SUBSCRIPTION,
          filterCriteria indicating value FILTER_UU_UNI_CRITERIA_1,
          _links indicating value HREF_UU_UNI_SUBSCRIPTION

    to the MEC_APP entity
  }
}

```

Table 6.12.1-35: TP_MEC_MEC030_SRV_V2X_009_OK_02

TP Id	"TP_MEC_MEC030_SRV_V2X_009_OK_02"
Test Objective	Check that the IUT responds with the requested of updating subscription when queried by a MEC Application
Reference	ETSI GS MEC 030 (V2.1.1) [13], clause 7.9.3.2 https://forge.etsi.org/rep/mec/g030-vis-api/-/blob/v2.1.1/MEC030_V2XInformationService.yaml
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	
<pre> with { the IUT being_in idle_state and the IUT having a provChgUuMbmsSubscription containing _links containing self indicating value HREF_UU_MBMS_SUBSCRIPTION } </pre>	
Expected Behaviour	
<pre> // MEC 030 Clause 6.3.3 Type: ProvChgUuMbmsSubscription ensure that { when { the IUT receives a vPUT containing uri indicating value "vis/v1/subscriptions/{subscriptionId}", query_parameters containing subscriptionId indicating value HREF_UU_MBMS_SUBSCRIPTION, body containing provChgUuMbmsSubscription containing subscriptionType indicating value "ProvChgUuMbmsSubscription", callbackReference indicating value CALLBACK_UU_MBMS_SUBSCRIPTION, filterCriteria indicating value FILTER_UU_MBMS_CRITERIA_1, _links indicating value HREF_UU_MBMS_SUBSCRIPTION from the MEC_APP entity } then { // MEC 030 Clause 7.9.3.2 the IUT sends a HTTP_RESPONSE containing status_code set to "200 OK" containing body containing provChgUuMbmsSubscription containing subscriptionType indicating value "ProvChgUuMbmsSubscription", callbackReference indicating value CALLBACK_UU_MBMS_SUBSCRIPTION, filterCriteria indicating value FILTER_UU_MBMS_CRITERIA_1, _links indicating value HREF_UU_MBMS_SUBSCRIPTION to the MEC_APP entity } } </pre>	

Table 6.12.1-36: TP_MEC_MEC030_SRV_V2X_009_OK_03

TP Id	"TP_MEC_MEC030_SRV_V2X_009_OK_03"
Test Objective	Check that the IUT responds with the requested of updating subscription when queried by a MEC Application
Reference	ETSI GS MEC 030 (V2.1.1) [13], clause 7.9.3.2 https://forge.etsi.org/rep/mec/qs030-vis-api/-/blob/v2.1.1/MEC030_V2XInformationService.yaml
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	
<pre>with { the IUT being_in idle_state and the IUT having a provChgPc5Subscription containing _links containing self indicating value HREF_PC5_SUBSCRIPTION }</pre>	
Expected Behaviour	
<pre>// MEC 030 Clause 6.3.4 Type: ProvChgPc5Subscription ensure that { when { the IUT receives a vPUT containing uri indicating value "vis/v1/subscriptions/{subscriptionId}", query_parameters containing subscriptionId indicating value HREF_PC5_SUBSCRIPTION, body containing provChgPc5Subscription containing subscriptionType indicating value "ProvChgPc5Subscription", callbackReference indicating value CALLBACK_PC5_SUBSCRIPTION, filterCriteria indicating value FILTER_PC5_CRITERIA_1, _links indicating value HREF_PC5_SUBSCRIPTION from the MEC_APP entity } then { // MEC 030 Clause 7.9.3.2 the IUT sends a HTTP_RESPONSE containing status_code set to "200 OK" containing body containing provChgPc5Subscription containing subscriptionType indicating value "ProvChgPc5Subscription", callbackReference indicating value CALLBACK_PC5_SUBSCRIPTION, filterCriteria indicating value FILTER_PC5_CRITERIA_1, _links indicating value HREF_PC5_SUBSCRIPTION to the MEC_APP entity } }</pre>	

Table 6.12.1-37: TP_MEC_MEC030_SRV_V2X_009_OK_04

TP Id	"TP_MEC_MEC030_SRV_V2X_009_OK_04"
Test Objective	Check that the IUT responds with the requested of updating subscription when queried by a MEC Application
Reference	ETSI GS MEC 030 (V2.1.1) [13], clause 7.9.3.2 https://forge.etsi.org/rep/mec/qs030-vis-api/-/blob/v2.1.1/MEC030_V2XInformationService.yaml
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	
<pre>with { the IUT being_in idle_state and the IUT having a v2xMsgSubscription containing _links containing self indicating value HREF_V2XMSG_SUBSCRIPTION }</pre>	

Expected Behaviour
<pre>// MEC 030 Clause 6.3.5 Type: V2xMsgSubscription ensure that { when { the IUT receives a vPUT containing uri indicating value "vis/v1/subscriptions/{subscriptionId}", query_parameters containing subscriptionId indicating value HREF_V2XMSG_SUBSCRIPTION, body containing v2xMsgSubscription containing subscriptionType indicating value "ProvChgPc5Subscription", callbackReference indicating value CALLBACK_V2XMSG_SUBSCRIPTION, filterCriteria indicating value FILTER_V2XMSG_CRITERIA_1, _links indicating value HREF_V2XMSG_SUBSCRIPTION from the MEC_APP entity } then { // MEC 030 Clause 7.9.3.2 the IUT sends a HTTP_RESPONSE containing status_code set to "200 OK" containing body containing v2xMsgSubscription containing subscriptionType indicating value "V2xMsgSubscription", callbackReference indicating value CALLBACK_V2XMSG_SUBSCRIPTION, filterCriteria indicating value FILTER_V2XMSG_CRITERIA_1, _links indicating value HREF_V2XMSG_SUBSCRIPTION to the MEC_APP entity } }</pre>

Table 6.12.1-38: TP_MEC_MEC030_SRV_V2X_009_BR

TP Id	"TP_MEC_MEC030_SRV_V2X_009_BR"
Test Objective	Check that the IUT responds with the requested of updating subscription when queried by a MEC Application
Reference	ETSI GS MEC 030 (V2.1.1) [13], clause 7.9.3.2 https://forge.etsi.org/rep/mec/g3030-vis-api/-/blob/v2.1.1/MEC030_V2XInformationService.yaml
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	
<pre>with { the IUT being_in idle_state and the IUT having a provChgUuUniSubscription containing _links containing self indicating value HREF_UU_UNI_SUBSCRIPTION }</pre>	
Expected Behaviour	
<pre>// MEC 030 Clause 6.3.2 Type: ProvChgUuUniSubscription ensure that { when { the IUT receives a vPUT containing uri indicating value "vis/v1/subscriptions/{subscriptionId}", query_parameters containing subscriptionId indicating value HREF_UU_UNI_SUBSCRIPTION, body containing provChgUuUniSubscription containing subscriptionType indicating value "InvalidProvChgUuUniSubscription", // Invalid SubscriptionType callbackReference indicating value CALLBACK_UU_UNI_SUBSCRIPTION, filterCriteria indicating value FILTER_UU_UNI_CRITERIA_1, _links indicating value HREF_UU_UNI_SUBSCRIPTION from the MEC_APP entity } }</pre>	

```

then {
  // MEC 030 Clause 7.9.3.2
  the IUT sends a HTTP_RESPONSE containing
    status_code set to "400 Bad Request"

  to the MEC_APP entity
}
}

```

Table 6.12.1-39: TP_MEC_MEC030_SRV_V2X_009_NF

TP Id	"TP_MEC_MEC030_SRV_V2X_009_NF"
Test Objective	Check that the IUT responds with the requested of updating subscription when queried by a MEC Application
Reference	ETSI GS MEC 030 (V2.1.1) [13], clause 7.9.3.2 https://forge.etsi.org/rep/mec/g3030-vis-api/-/blob/v2.1.1/MEC030_V2XInformationService.yaml
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	
<pre> with { the IUT being_in idle_state and the IUT having a provChgUuUniSubscription containing _links containing self indicating value HREF_UU_UNI_SUBSCRIPTION } </pre>	
Expected Behaviour	
<pre> // MEC 030 Clause 6.3.2 Type: ProvChgUuUniSubscription ensure that { when { the IUT receives a vPUT containing uri indicating value "vis/v1/subscriptions/{subscriptionId}", query_parameters containing subscriptionId indicating value HREF_UU_UNI_UNKNOWN_SUBSCRIPTION, body containing provChgUuUniSubscription containing subscriptionType indicating value "ProvChgUuUniSubscription", callbackReference indicating value CALLBACK_UU_UNI_SUBSCRIPTION, filterCriteria indicating value FILTER_UU_UNI_CRITERIA_1, _links indicating value HREF_UU_UNI_SUBSCRIPTION from the MEC_APP entity } then { // MEC 030 Clause 7.9.3.2 the IUT sends a HTTP_RESPONSE containing status_code set to "404 Not Found" to the MEC_APP entity } } </pre>	

Table 6.12.1-40: TP_MEC_MEC030_SRV_V2X_010_OK_01

TP Id	"TP_MEC_MEC030_SRV_V2X_010_OK_01"
Test Objective	Check that the IUT responds with the requested of updating subscription when queried by a MEC Application
Reference	ETSI GS MEC 030 (V2.1.1) [13], clause 7.9.3.2 https://forge.etsi.org/rep/mec/g3030-vis-api/-/blob/v2.1.1/MEC030_V2XInformationService.yaml
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	
<pre> with { the IUT being_in idle_state and the IUT having a provChgUuUniSubscription containing _links containing self indicating value HREF_UU_UNI_SUBSCRIPTION } </pre>	

Expected Behaviour
<pre> } // MEC 030 Clause 6.3.2 Type: ProvChgUuUniSubscription ensure that { when { the IUT receives a vDELETE containing uri indicating value "vis/v1/subscriptions/{subscriptionId}", query_parameters containing subscriptionId indicating value HREF_UU_UNI_SUBSCRIPTION from the MEC_APP entity } then { // MEC 030 Clause 7.9.3.2 the IUT sends a HTTP_RESPONSE containing status_code set to "204 No Content" to the MEC_APP entity } } </pre>

Table 6.12.1-41: TP_MEC_MEC030_SRV_V2X_010_OK_02

TP Id	"TP_MEC_MEC030_SRV_V2X_010_OK_02"
Test Objective	Check that the IUT responds with the requested of updating subscription when queried by a MEC Application
Reference	ETSI GS MEC 030 (V2.1.1) [13], clause 7.9.3.2 https://forge.etsi.org/rep/mec/qs030-vis-api/-/blob/v2.1.1/MEC030_V2XInformationService.yaml
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	
<pre> with { the IUT being_in idle_state and the IUT having a provChgUuMbmsSubscription containing _links containing self indicating value HREF_UU_MBMS_SUBSCRIPTION } </pre>	
Expected Behaviour	
<pre> // MEC 030 Clause 6.3.3 Type: ProvChgUuMbmsSubscription ensure that { when { the IUT receives a vDELETE containing uri indicating value "vis/v1/subscriptions/{subscriptionId}", query_parameters containing subscriptionId indicating value HREF_UU_MBMS_SUBSCRIPTION from the MEC_APP entity } then { // MEC 030 Clause 7.9.3.2 the IUT sends a HTTP_RESPONSE containing status_code set to "204 No Content" to the MEC_APP entity } } </pre>	

Table 6.12.1-42: TP_MEC_MEC030_SRV_V2X_010_OK_03

TP Id	"TP_MEC_MEC030_SRV_V2X_010_OK_03"
Test Objective	Check that the IUT responds with the requested of updating subscription when queried by a MEC Application
Reference	ETSI GS MEC 030 (V2.1.1) [13], clause 7.9.3.2 https://forge.etsi.org/rep/mec/qs030-vis-api/-/blob/v2.1.1/MEC030_V2XInformationService.yaml
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	
<pre>with { the IUT being_in idle_state and the IUT having a provChgPc5Subscription containing _links containing self indicating value HREF_PC5_SUBSCRIPTION }</pre>	
Expected Behaviour	
<pre>// MEC 030 Clause 6.3.4 Type: ProvChgPc5Subscription ensure that { when { the IUT receives a vDELETE containing uri indicating value "vis/v1/subscriptions/{subscriptionId}", query_parameters containing subscriptionId indicating value HREF_PC5_SUBSCRIPTION from the MEC_APP entity } then { // MEC 030 Clause 7.9.3.2 the IUT sends a HTTP_RESPONSE containing status_code set to "204 No Content" to the MEC_APP entity } }</pre>	

Table 6.12.1-43: TP_MEC_MEC030_SRV_V2X_010_OK_04

TP Id	"TP_MEC_MEC030_SRV_V2X_010_OK_04"
Test Objective	Check that the IUT responds with the requested of updating subscription when queried by a MEC Application
Reference	ETSI GS MEC 030 (V2.1.1) [13], clause 7.9.3.2 https://forge.etsi.org/rep/mec/qs030-vis-api/-/blob/v2.1.1/MEC030_V2XInformationService.yaml
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	
<pre>with { the IUT being_in idle_state and the IUT having a v2xMsgSubscription containing _links containing self indicating value HREF_V2XMSG_SUBSCRIPTION }</pre>	
Expected Behaviour	
<pre>// MEC 030 Clause 6.3.5 Type: V2xMsgSubscription ensure that { when { the IUT receives a vDELETE containing uri indicating value "vis/v1/subscriptions/{subscriptionId}", query_parameters containing subscriptionId indicating value HREF_V2XMSG_SUBSCRIPTION from the MEC_APP entity } then { // MEC 030 Clause 7.9.3.2 the IUT sends a HTTP_RESPONSE containing status_code set to "204 No Content" } }</pre>	

```

    to the MEC_APP entity
  }
}

```

Table 6.12.1-44: TP_MEC_MEC030_SRV_V2X_010_NF

TP Id	"TP_MEC_MEC030_SRV_V2X_010_NF"
Test Objective	Check that the IUT responds with the requested of updating subscription when queried by a MEC Application
Reference	ETSI GS MEC 030 (V2.1.1) [13], clause 7.9.3.2 https://forge.etsi.org/rep/mec/g3030-vis-api/-/blob/v2.1.1/MEC030_V2XInformationService.yaml
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	
<pre> with { the IUT being_in idle_state and the IUT having a provChgUuUniSubscription containing _links containing self indicating value HREF_UU_UNI_SUBSCRIPTION } </pre>	
Expected Behaviour	
<pre> // MEC 030 Clause 6.3.2 Type: ProvChgUuUniSubscription ensure that { when { the IUT receives a vDELETE containing uri indicating value "vis/v1/subscriptions/{subscriptionId}", query_parameters containing subscriptionId indicating value HREF_UU_UNI_SUBSCRIPTION from the MEC_APP entity } then { // MEC 030 Clause 7.9.3.2 the IUT sends a HTTP_RESPONSE containing status_code set to "404 Not Found" to the MEC_APP entity } } </pre>	

Annex A (informative): Information on the tools to generate the present document

The Test Purposes have been first developed in textual syntax of TDL-TO, following recommendation and process reported in ETSI GR MEC-DEC 025 [i.8].

The sources are available at <https://forge.etsi.org/rep/mec/g032p2-test-purposes/-/tree/3.1.1> via web access or using the Git versioning system.

The reader may make use of the IDE available as part of the TDL Open Source project (TOP), freely available at <https://top.etsi.org>.

Annex B (informative): Change History

Date	Version	Information about changes
June 2019	0.0.1	First proposal.
August 2019	0.0.2	Included changes approved in the following contributions: - MECDECODE(19)000030 - MECDECODE(19)000033 - MECDECODE(19)000034 - MECDECODE(19)000035 - MECDECODE(19)000036 - MECDECODE(19)000037 - MECDECODE(19)000038r1 - MECDECODE(19)000039 - MECDECODE(19)000040 - MECDECODE(19)000041 - MECDECODE(19)000042 - MECDECODE(19)000043 - MECDECODE(19)000044 - MECDECODE(19)000045 - MECDECODE(19)000047 - MECDECODE(19)000048 - MECDECODE(19)000049 - MECDECODE(19)000050 - MECDECODE(19)000051 - MECDECODE(19)000052 - MECDECODE(19)000053 - MECDECODE(19)000054 - MECDECODE(19)000055 - MECDECODE(19)000056 - MECDECODE(19)000057 - MECDECODE(19)000058 - MECDECODE(19)000059 - MECDECODE(19)000060 - MECDECODE(19)000061
August 2019	0.0.3	Incorporated changes proposed by editHelp
October 2020	0.0.4	Included changes approved in the following contributions: - MECDECODE(20)000050 - MECDECODE(20)000051 - MECDECODE(20)000052r1 - MECDECODE(20)000054 - MECDECODE(20)000055
May 2021	3.0.1	Updated TPs definitions according to tag v3.0.1 on the source repository and updated to the new TSS.
July 2021	3.0.2	Updated TPs definitions according to tag v3.0.2 on the source repository and updated to the new TSS: - MECDECODE(21)000060r2
February 2022	3.0.4	Updated MEC-010-2 V2.2.1 TPs definitions and updated to the new TSS: - MECDECODE(22)000004

History

Document history		
V2.1.1	December 2020	Publication
V3.1.1	April 2022	Publication