

# ETSI TS 104 200 V1.1.1 (2025-11)



## **Data Solutions (DATA); Proof of Concept Framework**

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**Keywords**

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# Contents

Intellectual Property Rights .....	5
Foreword.....	5
Modal verbs terminology.....	5
Executive summary .....	5
Introduction .....	5
1 Scope .....	6
2 References .....	6
2.1 Normative references .....	6
2.2 Informative references.....	6
3 Definition of terms, symbols and abbreviations.....	6
3.1 Terms.....	6
3.2 Symbols.....	7
3.3 Abbreviations .....	7
4 TC DATA PoC Framework .....	7
4.1 Rationale.....	7
4.2 Call for PoCs .....	7
4.3 TC DATA PoC Proposal Submission .....	8
4.4 TC DATA PoC Proposal Review.....	8
4.4.1 General.....	8
4.4.2 Accepted TC DATA PoC Proposals.....	8
4.4.3 Rejected TC DATA PoC Proposals.....	8
4.5 TC DATA PoC Proposal Acceptance Criteria .....	9
4.6 TC DATA PoC Report .....	10
5 Overall Roles and Activities within PoCs .....	11
5.1 General .....	11
5.2 ETSI CTI Role .....	11
5.3 Other roles and responsibilities .....	11
5.4 PoC activity process .....	12
<b>Annex A (normative): TC DATA - PoC Proposal Template.....</b>	<b>13</b>
A.1 PoC Project Details .....	13
A.1.1 PoC Project.....	13
A.1.2 PoC Team Members.....	13
A.1.3 PoC Project Scope.....	13
A.1.3.1 PoC Goals .....	13
A.1.3.2 PoC Topics.....	13
A.1.3.3 Other topics in scope.....	14
A.1.4 PoC Project Stages/Milestones.....	14
A.1.5 Additional Details.....	14
A.2 PoC Technical Details .....	14
A.2.1 PoC Overview .....	14
A.2.2 PoC Architecture .....	14
A.2.3 PoC Success Criteria .....	15
A.2.4 Additional information .....	15
<b>Annex B (normative): TC DATA PoC Report Template .....</b>	<b>16</b>
B.1 General .....	16
B.2 TC DATA PoC Report.....	16
B.2.1 PoC Project Completion Status .....	16
B.2.2 TC DATA PoC Project Participants .....	16

B.2.3	Confirmation of PoC Event Occurrence.....	16
B.2.4	PoC Goals Status Report .....	17
B.2.5	PoC Feedback Received from Third Parties (Optional) .....	17
B.3	TC DATA PoC Technical Report (Optional).....	17
B.3.1	General .....	17
B.3.2	PoC Contribution to TC DATA .....	17
B.3.3	Gaps identified in the TC DATA standardization .....	17
B.3.4	PoC Suggested Action Items .....	18
B.3.5	Additional messages to TC DATA.....	18
B.3.6	Additional messages to Network Operators and Service Providers .....	18
History	.....	19

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# Foreword

This Technical Specification (TS) has been produced by ETSI Technical Committee Data Solutions (DATA).

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# 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).

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# Executive summary

The present document says how to progress a Proof of Concept project. The IPR of Proof of Concept project team is within the team and not required by ETSI or ETSI members.

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# Introduction

The present document specifies how to propose, report progress and finalize a Proof of Concept project. The Clauses detail the process and when to send emails to whom. Clause 4 is the TC DATA PoC Framework. Clause 5 specifies the roles and responsibilities. The Annexes provide templates of the proposal and the final report that are to be used when reporting the start and completion.

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# 1 Scope

The present document specifies a framework for use within ETSI TC DATA to coordinate and promote public demonstrations of Proof of Concept (PoC) validating key technical components developed in TC DATA.

The objective for the PoCs is to build commercial awareness and confidence and encourage development of an open ecosystem by integrating components from different players.

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## 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 in the [ETSI docbox](#).

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Not applicable.

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The following referenced documents may be useful in implementing an ETSI deliverable or add to the reader's understanding, but are not required for conformance to the present document.

[i.1] [ETSI Directives Version 51 \(June 2025\)](#).

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## 3 Definition of terms, symbols and abbreviations

### 3.1 Terms

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

**DATA PoC proposal:** initial description of a PoC Project, submitted as a contribution for review and acceptance by the TC DATA before the PoC Project starts

NOTE: See annex A.

**DATA PoC report:** detailed description of the results and findings of a PoC project, submitted once the PoC Project has finished

**PoC demo objective:** detailed description of one particular aspect that the PoC Team intends to demonstrate and how it will be achieved

**PoC project:** activity oriented to perform a PoC according to the framework described in the present document

**PoC review team:** entity in charge of administering the PoC activity process

**PoC scenario report:** collection of PoC Demo Objectives

NOTE: See annex B.

**PoC team:** organizations participating in the PoC Project

## 3.2 Symbols

Void.

## 3.3 Abbreviations

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

AI	Artificial Intelligence
API	Application Programming Interface
CTI	Centre for Testing and Interoperability
EU	European Union
F2F	Face to Face
ICT	Information Computing Technology
IoT	Internet of Things
LD	Low Delay
NGSI	Next Generation Service Interface
PoC	Proof of Concept
SAREF	Smart Appliance Reference ontology
SDG	Software Development Group
TG	Technical Group
ToR	Terms of Reference
vMME	virtual Mobility Management Entity

---

# 4 TC DATA PoC Framework

## 4.1 Rationale

The distributed solutions considered by TC DATA include data infrastructures, data products, data access services, and Application Interfaces (APIs) in the ICT domain, to be used by machines and human beings, and their virtual representations. These solutions address the three dimensions of distributed data processing, i.e. Connectivity (data in transit), Storage (data at rest) and Compute (data in process).

Proof of Concepts (PoCs) are an important tool to demonstrate DATA Solutions as a viable technology. Results from PoCs may guide the work in the TC DATA by providing feedback on interoperability and other technical challenges. The public demonstration of these DATA Solutions concepts will help build commercial awareness and confidence in this DATA solutions approach, and develop a diverse, open DATA solutions ecosystem. A single PoC demonstration will impact its immediate audience, but a cumulative set of successful PoCs will provide industry momentum for DATA solutions concepts.

The PoCs shall adopt the DATA solutions use cases as a working baseline and address the technical challenges and approaches therein using [i.1].

## 4.2 Call for PoCs

The ETSI TC DATA calls for PoC proposals during the life of the TC. Details will be made publicly available on the ETSI TC DATA portal.

## 4.3 TC DATA PoC Proposal Submission

PoC Team formation is beyond the scope of the TC DATA. The PoC Team shall prepare a TC DATA PoC Proposal according to the TC DATA PoC Proposal template in clause A.1, and the TC DATA PoC Review Team may be consulted in support of this effort. The PoC Proposal shall be submitted to the TC DATA as a contribution uploaded on the ETSI Portal and a link to the contribution shall be sent by the DATA solutions PoC Review Team to the dedicated e-mail distribution list 'DATA@LIST.ETSI.ORG' with [TC DATA PoC Proposal] in the subject line.

## 4.4 TC DATA PoC Proposal Review

### 4.4.1 General

The TC DATA solutions PoC Review Team is responsible for administering this TC DATA PoC process. The TC DATA solutions PoC Review Team shall collect and distribute the TC DATA PoC Proposals and announce the accepted TC DATA PoC Proposal based on the review against the TC DATA PoC acceptance criteria of clause 4.5. The ETSI Centre for Testing and Interoperability (CTI) will further evaluate the PoC according to the criteria acceptance and principles and provide the DATA solutions PoC Review team with confirmation of meeting the acceptance criteria (as in clause 5.1) as required by clause 4.5.

The PoC Review process timeline follows:

- 1) The DATA solutions PoC Review Team will provide a response to the PoC Team within 30 days after receipt of the TC DATA PoC proposal.
- 2) If required, additional technical and clarification questions may be presented by the DATA solutions PoC Review committee at the end of the first review term:
  - a) The PoC approval decision will be placed on hold, pending additional review.
  - b) The TC DATA solutions committee's questions should be answered in written format.
  - c) Once these answers are submitted to the TC DATA solutions PoC review committee, a second review period of 15 days will commence.
  - d) A final decision will be issued within the 15 days of the TC DATA solutions committee's receipt of the response.

### 4.4.2 Accepted TC DATA PoC Proposals

The DATA solutions PoC Review Team will send an email to the PoC Team to confirm the acceptance of the TC DATA PoC Proposal.

The DATA solutions PoC Review Team will send an email to the 'DATA@LIST.ETSI.ORG' list to announce each accepted TC DATA PoC Proposal to the TC DATA community. Keep a "List of Accepted Proposals" on the ETSI DATA solutions Wiki page.

The DATA solutions PoC Review Team will post accepted TC DATA PoC Proposals on a publicly accessible ETSI TC DATA portal page.

Accepted TC DATA PoC Proposals are expected to be executed by the PoC Team, and a PoC Report is also expected to be submitted by the PoC Team at completion.

### 4.4.3 Rejected TC DATA PoC Proposals

The DATA solutions PoC Review Team will send an email to the PoC Team to notify them that the TC DATA PoC Proposal has been rejected with the reason based on the criteria of clause 4.5.

No further action will be taken by the TC DATA on rejected proposals. PoC Teams may submit revised TC DATA PoC Proposals for future consideration.

NOTE: This should be reported to the DATA solutions management list and informally to the next meeting.



## 4.5 TC DATA PoC Proposal Acceptance Criteria

The criteria for acceptance of TC DATA PoC Proposals are:

- 1) The TC DATA PoC Proposal shall contain the information requested in the format of the TC DATA PoC Proposal Template of clause A.1, referred to as the PoC Team. This will be checked by ETSI CTI and the PoC Review Team.
- 2) The organizations participating in a PoC Team shall include at least three ICT organizations to prove interworking and to assure correctness of the specifications (for example: providers of technology, users of technology, Universities, Research Organization, etc.), where at least one of the participating organizations is an ETSI member registered to the mailing list of TC DATA.
- 3) The TC DATA PoC Team proposal shall address at least one goal relevant to DATA solutions related with the DATA solutions Use Case, and/or a TC DATA Solutions requirement (refer to clause A.1.3.1).
- 4) The output of the PoC shall provide feedback to TC DATA in order to support the improvement of the output of the existing Work-items. Alignment with existing activities is required.
- 5) All proposed TC DATA PoC solutions shall allow manual intervention (triage and control) capability at all stages of test and deployment. This is considered a critical requirement, given uptime considerations and the emerging regulatory environment for DATA Solutions.
- 6) The TC DATA PoC shall provide definitions and illustrations of the underlying DATA infrastructure and protocols and utilize common/accessible programming languages. This will guarantee the level of transparency required for quick identification and resolution of technical issues.
- 7) The TC DATA PoC Team proposal shall indicate the venue where the PoC will be demonstrated (e.g. PoC Team member lab, industry trade show, etc.) (refer to clause A.1.5).
- 8) A PoC Team project timeline shall be provided (refer to clause A.1.4).
- 9) Description of testing methods, how they are performed, and concrete measurement processes with expected measures should be indicated.

**NOTE:** This last requirement/guideline should be particularly considered by PoC Teams. Each set of measurements depend on the context and on the scenarios described for each PoC proposal.

Any TC DATA PoC Proposal which meets these required elements will be accepted.

A summary table of are of competence of TC DATA Solutions are is shown in Table 1, see the link to the TC Data Terms of Reference (ToR) [DATA Terms of Reference](#).

**Table 1: Summary of the DATA solutions Terms of Reference**

	Level 1	Level 2
<b>TC Data Scope</b>	Focus Areas	TC DATA develops deliverables to support the deployment and operation of distributed solutions for data collection, integration, sharing and management, including security and testing aspects.
		The distributed solutions considered by TC DATA include data infrastructures, data products, data access services, and application interfaces (APIs) in the ICT domain, to be used by machines and human beings, and their virtual representations. These solutions address the three dimensions of distributed data processing, i.e. Connectivity (data in transit), Storage (data at rest) and Compute (data in process).
		TC DATA is also committed to addressing European policy and regulatory requirements, including standardization needs in the area of data interoperability, semantic interoperability, ontologies, and data governance.
		TC DATA also engages with other regulatory bodies to ensure that the output supports relevant global, regional, and national requirements.

	Level 1	Level 2
		<p>TC DATA is responsible for providing input on technical aspects of the ETSI responses to EU Standardization Requests and other government requests regarding data solutions.</p> <p>TC DATA also provides relevant technical content for ETSI deliverables related to the European Data Act and to the data-related aspects of the European AI Act.</p> <p>TC DATA cooperates with open-source initiatives relevant for the data domain standardization, including (but not limited to) relevant existing and future ETSI SDGs providing relevant reference implementations and interoperability testing specifications.</p> <p>TC DATA cooperates with other European and international standards organizations in the data solutions domain to avoid duplication of work and promote harmonization, through the use of partnership agreements.</p> <p>... this needs to be extensible within the scope of TC Data.</p>
<b>TC Data Activities</b>	The activities of TC DATA include the following:	<ul style="list-style-type: none"> <li>• Providing a centre of expertise in the area of data infrastructures, services and applications for ETSI, in coordination with the other ETSI activities in this context.</li> </ul> <p>This includes data solutions targeting services for IoT, human beings, telecommunication systems and networks, and other industries.</p> <ul style="list-style-type: none"> <li>• Developing technical standards to support data interoperability and semantic interoperability.</li> <li>• Maintaining and evolving specifications related to data solutions and published by other ETSI TGs, upon agreement with them.</li> <li>• Supporting the development and the maintenance of semantic and data models, such as SAREF (including the SAREF open portal) and NGSI-LD.</li> <li>• Supporting the transposition in ETSI of the outputs of oneM2M.</li> <li>• Supporting the maintenance and evolution of relevant industry data standards, such as the data model in the maritime domain.</li> </ul> <p>... this needs to be extensible within the scope of TC Data.</p>

## 4.6 TC DATA PoC Report

Once an TC DATA PoC Team project is concluded, a TC DATA PoC Report with the PoC results is expected to be provided to TC DATA as a contribution to a plenary of TC DATA physical meeting or be announced on the 'DATA@list.etsi.org' mailing list. A PoC Wiki section of the ETSI portal via a link on the TC DATA home page will also indicate this report.

An TC DATA PoC Report should contain the information requested in the TC DATA PoC Report Template of clause B.1 to notify the TC DATA that the PoC Team has completed their PoC Project. PoC Teams are encouraged to provide additional technical details on the results of their PoC Project using the report format provided in clause B.2.

In addition, PoC Team members are also encouraged to bring technical proposals based on PoC results to TC DATA Work Item streams as regular contributions according to what was settled in the PoC submitted proposal.

The TC DATA PoC Review Team will present a list of all the TC DATA PoC Reports to the TC Plenary after proper evaluation of contents.

---

## 5 Overall Roles and Activities within PoCs

### 5.1 General

TC DATA participants activities when forming PoC Teams and executing PoC Projects are outside the scope of the TC DATA. The TC DATA shall not manage individual PoC Projects nor get involved in forming PoC Teams or executing TC DATA PoC Proposals.

### 5.2 ETSI CTI Role

The ETSI Centre for Testing and Interoperability (CTI) has experience in supporting the organization of technology evaluations and interoperability events (in many ways similar to PoCs). This experience may be useful in assisting the PoC Teams with administration and project management support including:

- Formation of the PoC Team.
- Preparation of the TC DATA PoC proposal.
- Development of the TC DATA PoC Scenario Report.
- Collecting and reporting results in a PoC Report.
- Providing feedback to the TC.
- Administration, logistics.
- Etc.

CTI is not a test lab. CTI assistance is free of charge for TC members. TC members may request CTI assistance by contacting [CTI\\_Support@etsi.org](mailto:CTI_Support@etsi.org) by email where the subject should include [TC DATA PoC].

PoC Team members are not required to make use of CTI support. Other TC members or commercial entities may provide additional or similar services.

### 5.3 Other roles and responsibilities

**TC DATA:** The TC DATA is interested in the outcome of the PoC projects. In the context of the PoC framework, it is in charge of:

- Identifying PoC topics.
- Identifying expected contributions and timelines for PoC topics.
- Processing the contributions made by the PoC teams on those topics.

**PoC Review Team:** Entity in charge of administering the PoC activity process. It is in charge of:

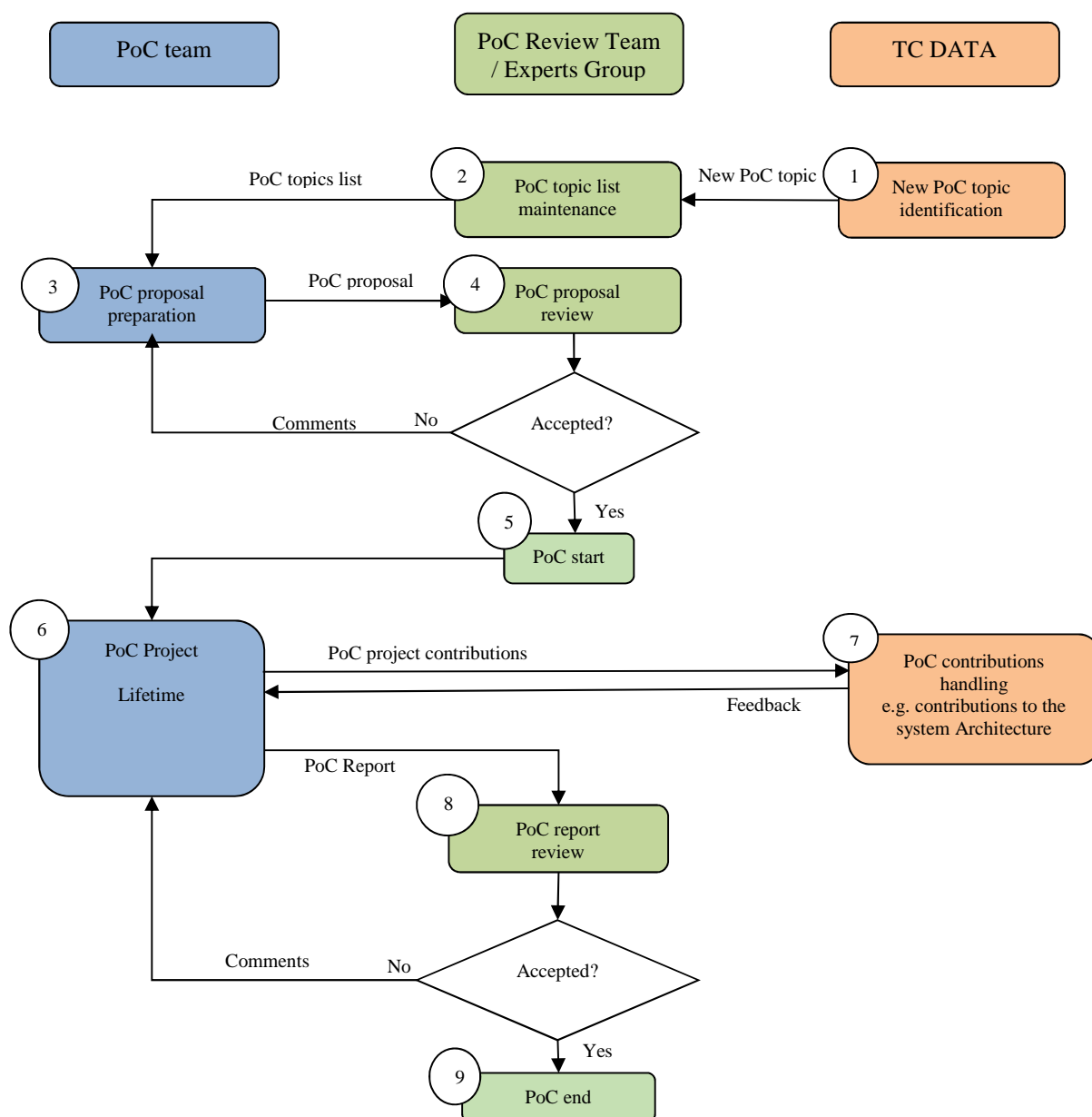
- Maintaining and making available the PoC topics.
- Providing guidance and support during the creation of PoC proposals.
- Reviewing PoC proposals and PoC reports against the acceptance criteria.
- Declaring the acceptance/refusal of each PoC.
- Notifying acceptance/refusal of each PoC in the 'DATA@list.etsi.org' mailing list.
- Compiling the accepted PoC Proposals and Reports and making them available to the TC DATA.
- Monitoring the PoC project timelines and sending the appropriate reminders to the PoC teams (for expected contributions, PoC report, etc.).

**PoC Team:** Group of organizations participating in one PoC project. The PoC Team is in charge of:

- Writing the PoC proposal.
- Executing the PoC and collecting the relevant data.
- Writing the PoC report.
- Submitting the expected contributions to the TC DATA.

## 5.4 PoC activity process

Figure 1 provides a description of the PoC activity process.



**Figure 1: PoC Activity Process**

## Annex A (normative): TC DATA - PoC Proposal Template

### A.1 PoC Project Details

#### A.1.1 PoC Project

PoC Number (assigned by ETSI): .....

PoC Project Name: .....

PoC Project Host: .....

Short Description: .....

#### A.1.2 PoC Team Members

**Table A.1**

	Organization name	TC DATA participant (yes/no)	Contact (Email)	PoC Point of Contact (see note 1)	Role (see note 2)	PoC Components
1						
2						
3						
...						
NOTE 1: Identify the PoC Point of Contact with an X.						
NOTE 2: The Role will be network operator/service provider, infrastructure provider, application provider or other as given in the Definitions of ETSI Classes of membership.						

All the PoC Team members listed above declare that the information in this proposal is conformant to their plans at this date and commit to inform ETSI timely in case of changes in the PoC Team, scope or timeline.

#### A.1.3 PoC Project Scope

##### A.1.3.1 PoC Goals

The PoC will demonstrate at least one use-case in clause 4.5 and/or requirement in clause 4.5 and report on the suitability of the PoC outcome as described in in clause 4.5 and clause A.1 containing a template of the PoC proposal.

##### A.1.3.2 PoC Topics

PoC Topics identified in this clause need to be taken for the PoC Topic List identified by TC DATA and publicly available, i.e. the three topics identified in clause 4.5 of the TCDATA PoC Framework. PoC Teams addressing these topics commit to submit the expected contributions in a timely manner.

Table A.2

PoC Topic Description (see note)	Related WI	Expected Contribution	Target Date

NOTE: This column should be filled according to the contents of Table A.1.

### A.1.3.3 Other topics in scope

List here any additional topic for which the PoC plans to provide input/feedback to TC DATA.

Table A.3

PoC Topic Description	Related WI	Expected Contribution	Target Date

### A.1.4 PoC Project Stages/Milestones

Table A.4

PoC Milestone	Stages/Milestone description	Target Date	Additional Info
P.S	PoC Project Start		
P.D1	PoC Demo 1		Venue, F2F / Webinar
P.D1	PoC Demo 1		Venue, F2F / Webinar
...	...		
P.C1	PoC Expected Contribution 1		
P.C2	PoC Expected Contribution 2		
...	...		
P.R	PoC Report		
P.E	PoC Project End		

NOTE: Milestones need to be entered in chronological order.

### A.1.5 Additional Details

For example, URL, planned publications, conferences, etc.

---

## A.2 PoC Technical Details

### A.2.1 PoC Overview

Describe the PoC here.

### A.2.2 PoC Architecture

Include a schema outlining how the different PoC components fit in the PoC architecture.

### A.2.3 PoC Success Criteria

Explain how the proposal intends to verify that the goals are presented in clause A.1.2 have been met.

EXAMPLE: Functional (it worked, it did not work), Performance (transactions per second, throughput, processing per second, packet per second, etc.), Scalability, Availability, Service Quality.

### A.2.4 Additional information

Include additional information as useful.

---

## Annex B (normative): TC DATA PoC Report Template

### B.1 General

The following normative disclaimer shall be included on the front page of a PoC report:

*"Submission of this TC DATA PoC Report as a contribution to the TC DATA does not imply any endorsement by the TC DATA of the contents of this report, or of any aspect of the PoC activity to which it refers."*

---

### B.2 TC DATA PoC Report

#### B.2.1 PoC Project Completion Status

Indicate the PoC Project Status. Can the PoC be considered completed? If this is a multi-stage PoC project, indicate the Reported Stage status and plans for future Project Stages/Milestones:

- Overall PoC Project Completion Status: \_\_\_\_\_
- PoC Stage Completion Status (Optional - for Multistage projects only): \_\_\_\_\_

#### B.2.2 TC DATA PoC Project Participants

Specify PoC Team; indicate any changes from the TC DATA PoC Proposal:

- PoC Project Name: \_\_\_\_\_
- PoC Member A: \_\_\_\_\_ Contact: \_\_\_\_\_
- PoC Member B: \_\_\_\_\_ Contact: \_\_\_\_\_
- Additional Members: \_\_\_\_\_ Contact: \_\_\_\_\_

#### B.2.3 Confirmation of PoC Event Occurrence

To be considered as complete, the PoC should have been physically demonstrated with evidences extracted from the demonstration, i.e. the following information should be provided:

- details on venue and content of PoC demonstration event;
- pictures and supporting literature where available;
- details about the target measures that have been met;
- identification about who was present at the demonstration event (optional);
- PoC Demonstration Event Details.



## B.2.4 PoC Goals Status Report

Specify PoC Goals from TC DATA PoC Proposal (clause A.1.2). Identify any changes from the original TC DATA PoC Proposal with an explanation as to why the changes were made. Indicate the extent that each goal was met. Provide sufficient information for those not familiar with the PoC goals to understand what has been achieved and/or learned:

- PoC Project Goal #1: \_\_\_\_\_
- Goal Status (Demonstrated/Met?) \_\_\_\_\_

List additional (optional) PoC Project Goals (follow the same format).

## B.2.5 PoC Feedback Received from Third Parties (Optional)

Where applicable, provide in a free text, feedback received from potential customers, Ecosystem partners, event audience and/or general public.

---

## B.3 TC DATA PoC Technical Report (Optional)

### B.3.1 General

PoC Teams are encouraged to provide technical details on the results of their PoC using the PoC Scenario Report template below.

### B.3.2 PoC Contribution to TC DATA

Use table B.1 to list any contributions to the TC DATA resulting from this PoC Project.

**Table B.1**

Contribution	WG	WI/Document Ref	Comments
Xxxxxx		ETSI TS 10x xxx	i.e. "New test proposal covering a different type of workload and proposing additional parameters for the portability templates"
Yyyyy			i.e. "New WI proposal addressing ...."
...			

### B.3.3 Gaps identified in the TC DATA standardization

Use table B.2 to indicate Gaps in standardization identified by this PoC Team including which forum(s) would be most relevant to work on closing the gap(s). Where applicable, outline any action(s) the TC DATA should take.

**Table B.2**

Gap Identified	Forum (TC DATA, Other)	Affected WG	WI/Document Ref	Gap details and Status
Xxxxxx	TC DATA		ETSI TS 10x xxx	i.e. "The PoC demonstrated that Dynamic reconfiguration of Service Chain as defined in xxx does not address the needs of vMME implementation. Gap is addressed by Mano WG"
Yyyyy				
...				

### **B.3.4 PoC Suggested Action Items**

Provide suggested Action Items and/or further work required from the TC DATA and/or external forums.

### **B.3.5 Additional messages to TC DATA**

Provide any feedback in a free text format to the TC DATA. Indicate if the PoC team wishes any specific message to be published or publicly quoted.

### **B.3.6 Additional messages to Network Operators and Service Providers**

If applicable, provide any specific requests/messages that the team would like to convey to Network Operators and Service Providers.

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## History

Document history		
V1.1.1	November 2025	Publication