

**Electromagnetic compatibility
and Radio spectrum Matters (ERM);
Conformance testing for Mode 1 of
the digital Private Mobile Radio (dPMR);
Part 3: Interoperability Test Suite Structure and
Test Purposes (TSS&TP) specification**



Reference

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Keywords

digital, interoperability, mobile, radio, testing,
TSS&TP

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Foreword

This Technical Specification (TS) has been produced by ETSI Technical Committee Electromagnetic compatibility and Radio spectrum Matters (ERM).

The present document is part 3 of a multi-part deliverable. Full details of the entire series can be found in part 1 [i.2].

1 Scope

The present document specifies the interoperability Test Purposes (TPs) for the Digital Private Mobile Radio (dPMR) standard, TS 102 658 [1]. TPs are defined using the TPLan notation described in ES 202 553 [i.1]. Test purposes have been written based on the test specification framework described in TS 102 351 [2] and based on the methodology defined in ISO/IEC 9646-2 [3].

2 References

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2.1 Normative references

The following referenced documents are indispensable for the application of the present document. For dated references, only the edition cited applies. For non-specific references, the latest edition of the referenced document (including any amendments) applies.

- [1] ETSI TS 102 658 (V1.1.1): "Electromagnetic compatibility and Radio spectrum Matters (ERM); Digital Private Mobile Radio (dPMR) using FDMA with a channel spacing of 6,25 kHz".
- [2] ETSI TS 102 351 (V2.1.1): "Methods for Testing and Specification (MTS); Internet Protocol Testing (IPT); IPv6 Testing: Methodology and Framework".
- [3] ISO/IEC 9646-2: "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 2: Abstract Test Suite specification".
- [4] ETSI TS 102 587-3: "Electromagnetic compatibility and Radio spectrum Matters (ERM); Peer-to-Peer Digital Private Mobile Radio; Part 3: Requirements catalogue".

2.2 Informative references

The following referenced documents are not essential to the use of the present document but they assist the user with regard to a particular subject area. For non-specific references, the latest version of the referenced document (including any amendments) applies.

- [i.1] ETSI ES 202 553: "Methods for testing and Specification (MTS); TPLan: A notation for expressing test Purposes".
- [i.2] ETSI TS 102 762-1: "Electromagnetic compatibility and Radio spectrum Matters (ERM); Conformance testing for Mode 1 of the digital Private Mobile Radio (dPMR) Part 1: Protocol Conformance Implementation Statement (PICS) proforma".

3 Abbreviations

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

CF	(Test) ConFfiguration
dPMR	digital Private Mobile Radio
M1	Mode 1
M2	Mode 2
OACSU	Off Air Call Set-Up
RC	Requirements Catalogue
RQ	ReQuirement
TP	Test Purpose
TSS	Test Suite Structure

4 Test Suite Structure (TSS)

The Test Suite Structure is based on the dPMR Requirements Catalogue [4]. It is defined by the groups within the following TPLan specification of test purposes. The numbering is not contiguous so that new TPs can be added at a later date without the need to completely renumber the TSS groups.

The test purposes have been divided into four groups:

Group 1: Common requirements.

Group 2: Services.

Group 3: Channel access.

Group 4: Addressing

The sub-grouping of these three groups follows the structure of the RC. Some of the sub-groups of the RC contained no testable requirement. Headings for those sub-groups are in this test purpose document in the node group to give a full view on the relation between RQ and TSS&TP.

Group 1:	Common requirements
5.1.1	Framing
5.1.1.1	Framing functions
5.1.1.2	Packet data framing format
5.1.2	Coding
5.1.2.1	Message frames
5.1.2.1.1	Message frames, Message Information field
5.1.2.2	End frames
5.1.2.3	Packet data coding
5.1.2.4	Short data delivery
Group 2:	Services
5.2.1	Mode 1
Group 3:	Channel access
5.3.1	Physical layer
5.3.2	Powersave
Group 4:	Addressing
5.4.1	Address defined functions
5.4.2	User defined functions

5 Test Purposes (TP)

The test purposes have been written in the formal notation TPlan. Configurations that are referenced by test purposes are shown in annex A. TPlan user definitions are listed in annex B.

5.1 Common requirements

5.1.1 Framing

Void.

5.1.1.1 Framing functions

```

TP id      : TP_PMR_0502_01
summary    : 'Short data delivery'
RQ ref     : RQ_001_0502
TP type    : interoperability
Role       : M1
config ref: CF_dPMR_01_I -- QE1 and EUT
TD ref     : TBD
with {     ( EUT and QE1 using same Group_ID and
            powersave_disabled ) and
            EUT in standby
          }
ensure that {
  when { QE1_User makes a binary SDD_Call to EUT }
  then { EUT_User receives the binary SDD_Call }
}

-- XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

TP id      : TP_PMR_0502_02
summary    : 'Short data delivery'
RQ ref     : RQ_001_0502
TP type    : interoperability
Role       : M1
config ref: CF_dPMR_01_I -- QE1 and EUT
TD ref     : TBD
with {     (EUT and QE1 using same Group_ID and
            powersave_disabled ) and
            EUT in standby
          }
ensure that {
  when { EUT_User makes a binary SDD_Call }
  then { QE1_User receives the binary SDD_Call }
}

-- XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

TP id      : TP_PMR_0503_01
summary    : 'Short data delivery'
RQ ref     : RQ_001_0503
TP type    : interoperability
Role       : M1
config ref: CF_dPMR_01_I -- QE1 and EUT
TD ref     : TBD
with {     ( EUT and QE1 using same Group_ID and
            powersave_disabled ) and
            EUT in standby
          }
ensure that {
  when { QE1_User makes a bcd SDD_Call to EUT }
  then { EUT_User receives the bcd SDD_Call }
}

-- XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

```

```

TP id      : TP_PMR_0503_02
summary    : 'Short data delivery'
RQ ref     : RQ_001_0503
TP type    : interoperability
Role       : M1
config ref: CF_dPMR_01_I -- QE1 and EUT
TD ref     : TBD
with {     ( EUT and QE1 using same Group_ID and
              powersave_disabled ) and
            EUT in standby
}
ensure that {
  when { EUT_User makes a bcd SDD_Call }
  then { QE1_User receives the bcd SDD_Call }
}

-- XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

TP id      : TP_PMR_0504_01
summary    : 'Short data delivery'
RQ ref     : RQ_001_0504
TP type    : interoperability
Role       : M1
config ref: CF_dPMR_01_I -- QE1 and EUT
TD ref     : TBD
with {     ( EUT and QE1 using same Group_ID and
              powersave_disabled ) and
            EUT in standby
}
ensure that {
  when { QE1_User makes a ISO7 SDD_Call to EUT }
  then { EUT_User receives the ISO7 SDD_Call }
}

-- XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

TP id      : TP_PMR_0504_02
summary    : 'Short data delivery'
RQ ref     : RQ_001_0504
TP type    : interoperability
Role       : M1
config ref: CF_dPMR_01_I -- QE1 and EUT
TD ref     : TBD
with {     ( EUT and QE1 using same Group_ID and
              powersave_disabled ) and
            EUT in standby
}
ensure that {
  when { EUT_User makes a ISO7 SDD_Call }
  then { QE1_User receives the ISO7 SDD_Call }
}

-- XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

TP id      : TP_PMR_0505_01
summary    : 'Short data delivery'
RQ ref     : RQ_001_0505
TP type    : interoperability
Role       : M1
config ref: CF_dPMR_01_I -- QE1 and EUT
TD ref     : TBD
with {     ( EUT and QE1 using same Group_ID and
              powersave_disabled ) and
            EUT in standby
}
ensure that {
  when { QE1_User makes a ISO8 SDD_Call to EUT }
  then { EUT_User receives the ISO8 SDD_Call }
}

-- XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

```



```

TP id      : TP_PMR_0505_02
summary    : 'Short data delivery'
RQ ref     : RQ_001_0505
TP type    : interoperability
Role       : M1
config ref : CF_dPMR_01_I -- QE1 and EUT
TD ref     : TBD
with {     ( EUT and QE1 using same Group_ID and
             powersave_disabled ) and
           EUT in standby
        }
ensure that {
  when { EUT_User makes a ISO8 SDD_Call }
  then { QE1_User receives the ISO8 SDD_Call }
}

-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx

TP id      : TP_PMR_0506_01
summary    : 'Short data delivery'
RQ ref     : RQ_001_0506
TP type    : interoperability
Role       : M1
config ref : CF_dPMR_01_I -- QE1 and EUT
TD ref     : TBD
with {     ( EUT and QE1 using same Group_ID and
             powersave_disabled ) and
           EUT in standby
        }
ensure that {
  when { QE1_User makes a NMEA SDD_Call to EUT }
  then { EUT_User receives the NMEA SDD_Call }
}

-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx

TP id      : TP_PMR_0506_02
summary    : 'Short data delivery'
RQ ref     : RQ_001_0506
TP type    : interoperability
Role       : M1
config ref : CF_dPMR_01_I -- QE1 and EUT
TD ref     : TBD
with {     ( EUT and QE1 using same Group_ID and
             powersave_disabled ) and
           EUT in standby
        }
ensure that {
  when { EUT_User makes a NMEA SDD_Call }
  then { QE1_User receives the NMEA SDD_Call }
}

-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx

```

5.1.1.2 Packet data framing format

Void.

5.1.2 Coding

Void.

5.1.2.1 Message frames

Void.

5.1.2.1.1 Message frames, Message Information field

Void.

5.1.2.2 End frames

Void.

5.1.2.3 Packet data coding

Void.

5.1.2.4 Short data delivery

RQ_001_1011 Short Data

RQ_001_1012 Short Data

RQ_001_1013 Short Data

RQ_001_1014 Short Data

RQ_001_1015 Short Data

5.2 Services

5.2.1 Mode 1

```

TP id      : TP_PMR_0801_01
summary    : 'A radio can be called by another'
RQ ref     : RQ_001_0801
TP type    : interoperability
Role       : M1
config ref: CF_dPMR_01_I -- QE1 and EUT
TD ref     : TBD
with {     ( EUT and QE1 using same Group_ID and
              powersave_disabled and
              using_compatible_vocoders) and
              EUT in standby
            }
ensure that {
  when { QE1_User makes a PTT_Call to EUT }
  then { EUT_User receives the PTT_Call }
}

-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx

TP id      : TP_PMR_0801_02
summary    : 'A radio can call another'
RQ ref     : RQ_001_0801
TP type    : interoperability
Role       : M1
config ref: CF_dPMR_01_I -- QE1 and EUT
TD ref     : TBD
with {     (EUT and QE1 using same Group_ID and
              powersave_disabled and
              using_compatible_vocoders) and
              EUT in standby
            }
ensure that {
  when { EUT_User makes a PTT_Call }
  then { QE1_User receives the PTT_Call }
}

-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx

```

```

TP id   : TP_PMR_0802_02
summary : 'Support of Late Entry with individual address'
RQ ref  : RQ_001_0802
TP type : interoperability
Role    : M1
config ref: CF_dPMR_01_I -- QE1 and EUT
TD ref  : TBD
with {   (EUT and QE1 powersave_disabled and
           using_compatible_vocoders) and
          EUT switched_off and
          QE1 is transmitting an Individual_Call addressed to the EUT
        }
ensure that {
  when { EUT is switched_on }
  then { EUT_User receives the remainder of the Individual_Call after a 'short delay' }
}

-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx

TP id   : TP_PMR_0802_03
summary : 'Support of Late Entry with wildcard address'
RQ ref  : RQ_001_0802
TP type : interoperability
Role    : M1
config ref: CF_dPMR_01_I -- QE1 and EUT
TD ref  : TBD
with {   (EUT and QE1 powersave_disabled and
           using_compatible_vocoders) and
          EUT switched_off and
          QE1 is transmitting a Group_Call addressed to the EUT
        }
ensure that {
  when { EUT is switched_on }
  then { EUT_User receives the remainder of the Group_Call after a 'short delay' }
}

-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx

TP id   : TP_PMR_0802_04
summary : 'Support of Late Entry with Talk Group address'
RQ ref  : RQ_001_0802
TP type : interoperability
Role    : M1
config ref: CF_dPMR_01_I -- QE1 and EUT
TD ref  : TBD
with {   (EUT and QE1 with powersave_disabled and
           using_compatible_vocoders) and
          EUT switched_off and
          QE1 is transmitting a TalkGroup_Call addressed to the EUT
        }
ensure that {
  when { EUT is switched_on }
  then { EUT_User receives the remainder of the TalkGroup_Call after a 'short delay' }
}

-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx

TP id   : TP_PMR_0803_01
summary : 'Support of Talking Party ID'
RQ ref  : RQ_001_0803
TP type : interoperability
Role    : M1
config ref: CF_dPMR_01_I -- QE1 and EUT
TD ref  : TBD
with {   (EUT and QE1 with powersave_disabled) and
          EUT in standby
        }
ensure that {
  when { QE1_User makes an Individual_Call to EUT }
  then { EUT indicates the address of QE1 }
}

-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx

```

```

TP id      : TP_PMR_0803_02
summary    : 'Support of Talking Party ID'
RQ ref     : RQ_001_0803
TP type    : interoperability
Role       : M1
config ref: CF_dPMR_01_I -- QE1 and EUT
TD ref     : TBD
with {     (EUT and QE1 with powersave_disabled) and
           EUT in standby
}
ensure that {
  when { QE1_User makes a Group_Call to EUT }
  then { EUT indicates the address of QE1 }
}

-- XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

TP id      : TP_PMR_0804_01
summary    : 'Support receiving of type 2 group short data messages'
RQ ref     : RQ_001_0804
TP type    : interoperability
Role       : M1
config ref: CF_dPMR_01_I -- QE1 and EUT
TD ref     : TBD
with {     (EUT and QE1 using same Group_ID and
           powersave_disabled) and
           EUT in standby
}
ensure that {
  when { QE1_User sends a T2_Transmission to EUT }
  then { EUT_User receives the T2_Transmission }
}

-- XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

TP id      : TP_PMR_0804_02
summary    : 'Support sending of type 2 group short data messages'
RQ ref     : RQ_001_0804
TP type    : interoperability
Role       : M1
config ref: CF_dPMR_01_I -- QE1 and EUT
TD ref     : TBD
with {     (EUT and QE1 using same Group_ID and
           powersave_disabled) and
           QE1 in standby
}
ensure that {
  when { EUT_User sends a T2_Transmission to QE1 }
  then { QE1_User receives the T2_Transmission }
}

-- XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

TP id      : TP_PMR_0805_01
summary    : 'Support receiving of type 1 group short data messages'
RQ ref     : RQ_001_0805
TP type    : interoperability
Role       : M1
config ref: CF_dPMR_01_I -- QE1 and EUT
TD ref     : TBD
with {     (EUT and QE1 using same Group_ID and
           powersave_disabled) and
           EUT in standby
}
ensure that {
  when { QE1_User sends a T1_Transmission to EUT }
  then { EUT_User receives the T1_Transmission }
}

-- XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

```

```

TP id : TP_PMR_0805_02
summary : 'Support sending of type 1 group short data messages'
RQ ref : RQ_001_0805
TP type : interoperability
Role : M1
config ref: CF_dPMR_01_I -- QE1 and EUT
TD ref : TBD
with { (EUT and QE1 using same Group_ID and
       powersave_disabled) and
       QE1 in standby
}
ensure that {
  when { EUT_User sends a T1_Transmission to QE1 }
  then { QE1_User receives the T1_Transmission }
}

-- XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

TP id : TP_PMR_0806_01
summary : 'Support receiving of type 3 short data messages'
RQ ref : RQ_001_0806
TP type : interoperability
Role : M1
config ref: CF_dPMR_01_I -- QE1 and EUT
TD ref : TBD
with { (EUT and QE1 with powersave_disabled) and
       EUT in standby
}
ensure that {
  when { QE1_User sends a T3_Transmission addressed to EUT }
  then { EUT_User receives the T3_Transmission }
}

-- XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

TP id : TP_PMR_0806_02
summary : 'Support sending of type 3 short data messages'
RQ ref : RQ_001_0806
TP type : interoperability
Role : M1
config ref: CF_dPMR_01_I -- QE1 and EUT
TD ref : TBD
with { (EUT and QE1 with powersave_disabled) and
       QE1 in standby
}
ensure that {
  when { EUT_User sends a T3_Transmission addressed to QE1 }
  then { QE1_User receives the T3_Transmission }
}

-- XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

TP id : TP_PMR_0807_01
summary : 'Support receiving of type 2 individual short data messages'
RQ ref : RQ_001_0807
TP type : interoperability
Role : M1
config ref: CF_dPMR_01_I -- QE1 and EUT
TD ref : TBD
with { (EUT and QE1 with powersave_disabled) and
       EUT in standby
}
ensure that {
  when { QE1_User sends a T2_Transmission addressed to EUT }
  then { EUT_User receives the T2_Transmission }
}

-- XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

```

```

TP id      : TP_PMR_0807_02
summary    : 'Support sending of type 2 individual short data messages'
RQ ref     : RQ_001_0807
TP type    : interoperability
Role       : M1
config ref: CF_dPMR_01_I -- QE1 and EUT
TD ref     : TBD
with {     (EUT and QE1 with powersave_disabled) and
           QE1 in standby
        }
ensure that {
  when {   EUT_User sends a T2_Transmission addressed to QE1 }
  then {   QE1_User receives the T2_Transmission }
}

-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx

TP id      : TP_PMR_0808_01
summary    : 'Support of type 1 individual short data messages'
RQ ref     : RQ_001_0808
TP type    : interoperability
Role       : M1
config ref: CF_dPMR_01_I -- QE1 and EUT
TD ref     : TBD
with {     (EUT and QE1 powersave_disabled) and
           EUT in standby
        }
ensure that {
  when {   QE1_User sends a T1_Transmission addressed to EUT }
  then {   EUT_User receives the T1_Transmission }
}

-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx

TP id      : TP_PMR_0808_02
summary    : 'Support sending of type 1 individual short data messages'
RQ ref     : RQ_001_0808
TP type    : interoperability
Role       : M1
config ref: CF_dPMR_01_I -- QE1 and EUT
TD ref     : TBD
with {     (EUT and QE1 with powersave_disabled) and
           QE1 in standby
        }
ensure that {
  when {   EUT_User sends a T1_Transmission addressed to QE1 }
  then {   QE1_User receives the T1_Transmission }
}

-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx

TP id      : TP_PMR_0809_01
summary    : 'Support receiving of slow user data'
RQ ref     : RQ_001_0809
TP type    : interoperability
Role       : M1
config ref: CF_dPMR_01_I -- QE1 and EUT
TD ref     : TBD
with {     (EUT and QE1 using same Group_ID and
           powersave_disabled and
           using_compatible_vocoders) and
           QE1 preset_with_SLD_test_data and
           EUT in standby
        }
ensure that {
  when {   QE1_User makes a Group_SLD_Call to EUT }
  then {   EUT_User receives the Group_Call and the SLD_test_data }
}

-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx

```

```
TP id      : TP_PMR_0809_02
summary    : 'Support sending of slow user data'
RQ ref     : RQ_001_0809
TP type    : interoperability
Role       : M1
config ref: CF_dPMR_01_I -- QE1 and EUT
TD ref     : TBD
with {     (EUT and QE1 using same Group_ID and
            powersave_disabled and
            using_compatible_vocoders) and
          (EUT preset_with_SLD_test_data and
           QE1 in standby
          )
}
ensure that {
  when { EUT_User makes a Group_SLD_Call to QE1 }
  then { QE1_User receives the Group_Call and the SLD_test_data }
}

-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx

TP id      : TP_PMR_0810_01
summary    : 'Support receiving of short attached data'
RQ ref     : RQ_001_0810
TP type    : interoperability
Role       : M1
config ref: CF_dPMR_01_I -- QE1 and EUT
TD ref     : TBD
with {     (EUT and QE1 using same Group_ID and
            powersave_disabled and
            using_compatible_vocoders) and
          (QE1 preset_with_AD_test_data and
           EUT in standby
          )
}
ensure that {
  when { QE1_User makes a Group_AD_Call to EUT }
  then { EUT_User receives the Group_Call and the AD_test_data }
}

-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx

TP id      : TP_PMR_0810_02
summary    : 'Support sending of short attached data'
RQ ref     : RQ_001_0810
TP type    : interoperability
Role       : M1
config ref: CF_dPMR_01_I -- QE1 and EUT
TD ref     : TBD
with {     (EUT and QE1 using same Group_ID and
            powersave_disabled and
            using_compatible_vocoders) and
          (EUT preset_with_AD_test_data and
           QE1 in standby
          )
}
ensure that {
  when { EUT_User makes a Group_AD_Call to QE1 }
  then { QE1_User receives the Group_Call and the AD_test_data }
}

-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
```

```

TP id      : TP_PMR_0811_01
summary    : 'Support receiving of OACSU call'
RQ ref     : RQ_001_0811
TP type    : interoperability
Role       : M1, M2
config ref : CF_dPMR_01_I -- QE1 and EUT
TD ref     : TBD
with {     (EUT and QE1 powersave_disabled and
           using_compatible_vocoders and
           OACSU_enabled) and
          EUT in standby
}
ensure that {
  when { QE1_User makes an OACSU_Call addressed to the EUT }
  then { EUT_User receives the OACSU_Call }
}

-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx

TP id      : TP_PMR_0811_02
summary    : 'Support sending of OACSU call'
RQ ref     : RQ_001_0811
TP type    : interoperability
Role       : M1, M2
config ref : CF_dPMR_01_I -- QE1 and EUT
TD ref     : TBD
with {     (EUT and QE1 powersave_disabled and
           using_compatible_vocoders and
           OACSU_enabled) and
          QE1 in standby
}
ensure that {
  when { EUT_User makes an OACSU_Call addressed to QE1 }
  then { QE1_User receives the OACSU_Call }
}

-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx

TP id      : TP_PMR_0812_01
summary    : 'Support of cancel call set-up'
RQ ref     : RQ_001_0812
TP type    : interoperability
Role       : M1, M2
config ref : CF_dPMR_02_I -- QE1, QE2 and EUT
TD ref     : TBD
with {     (EUT OACSU_enabled and
           powersave_disabled and
           polite_to_own_CC) and
          QE1 is transmitting to QE2
}
ensure that {
  when { QE1 stops transmitting after EUT_User cancels an OACSU_Call addressed to QE2 }
  then { QE2_User does not receive the OACSU_Call }
}

-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx

TP id      : TP_PMR_0813_01
summary    : 'Support receiving of slow user data'
RQ ref     : RQ_001_0813
TP type    : interoperability
Role       : M1
config ref : CF_dPMR_01_I -- QE1 and EUT
TD ref     : TBD
with {     (EUT and QE1 powersave_disabled and
           using_compatible_vocoders) and
          QE1 preset_with_SLD_test_data and
          EUT in standby
}
ensure that {
  when { QE1_User sends an Individual_SLD_Call addressed to EUT }
  then { EUT_User receives the Individual_Call and the SLD_test_data }
}

-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx

```



```

TP id   : TP_PMR_0813_02
summary : 'Support sending of slow user data'
RQ ref  : RQ_001_0813
TP type : interoperability
Role    : M1
config ref: CF_dPMR_01_I -- QE1 and EUT
TD ref  : TBD
with {   (EUT and QE1 powersave_disabled and
          using_compatible_vocoders) and
          EUT preset_with_SLD_test_data and
          QE1 in standby
        }
ensure that {
  when { EUT_User sends an Individual_SLD_Call addressed to QE1 }
  then { QE1_User receives the Individual_Call and the SLD_test_data }
}

```

```
-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
```

```

TP id   : TP_PMR_0814_01
summary : 'Support receiving of short attached data'
RQ ref  : RQ_001_0814
TP type : interoperability
Role    : M1
config ref: CF_dPMR_01_I -- QE1 and EUT
TD ref  : TBD
with {   (EUT and QE1 powersave_disabled and
          using_compatible_vocoders) and
          QE1 preset_with_AD_test_data and
          EUT in standby
        }
ensure that {
  when { QE1_User sends a Individual_AD_Call addressed to EUT }
  then { EUT_User receives the Individual_Call and the AD_test_data }
}

```

```
-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
```

```

TP id   : TP_PMR_0814_02
summary : 'Support sending of short attached data'
RQ ref  : RQ_001_0814
TP type : interoperability
Role    : M1
config ref: CF_dPMR_01_I -- QE1 and EUT
TD ref  : TBD
with {   (EUT and QE1 powersave_disabled and
          using_compatible_vocoders) and
          EUT preset_with_AD_test_data and
          QE1 in standby
        }
ensure that {
  when { EUT_User sends a Individual_AD_Call addressed to QE1 }
  then { QE1_User receives the Individual_Call and the AD_test_data }
}

```

```
-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
```

5.3 Channel access

5.3.1 Physical layer

```

TP id       : TP_PMR_1206_01
summary    : 'Automatic voice call termination by timeout timer '
RQ ref     : RQ_001_1206
TP type    : interoperability
Role       : M1
config ref : CF_dPMR_01_I -- QE1 and EUT
TD ref     : TBD
with {
    (EUT and QE1 powersave_disabled and
     using_compatible_vocoders)
    QE1 in standby and EUT configured with a valid TOT_value
}
ensure that {
    when { EUT_User makes a Voice Transmission addressed to QE1 and
          PTT_Key is not released }
    then { QE1_User receives Voice Transmission and
          EUT terminates the Voice_Transmission after TOT_value seconds }
}

-- XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

TP id       : TP_PMR_1206_02
summary    : 'Automatic voice call termination by timeout timer and call resume'
RQ ref     : RQ_001_1206
TP type    : interoperability
Role       : M1
config ref : CF_dPMR_01_I -- QE1 and EUT
TD ref     : TBD
with {
    (EUT and QE1 powersave_disabled) and EUT configured with a valid TOT_value and
    EUT in call_timeout_terminated
}
ensure that {
    when { EUT_User releases and presses the PTT Key again }
    then { QE1_User receives Voice_Transmission }
}

-- XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

TP id       : TP_PMR_1208_01
summary    : 'Channel access in own call '
RQ ref     : RQ_001_1208
TP type    : interoperability
Role       : M1
config ref : CF_dPMR_02_I -- QE1, QE2 and EUT
TD ref     : TBD
with {
    ((EUT and QE1 and QE2) using the same Group_ID and
     using_compatible_vocoders) and
    QE1 is transmitting
}
ensure that {
    when { EUT_User makes PTT_Call }
    then { QE2_User receives the PTT_Call from EUT }
}

-- XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

```

```

TP id   : TP_PMR_1208_02
summary : 'Channel access in own call '
RQ ref  : RQ_001_1208
TP type : interoperability
Role    : M1
config ref: CF_dPMR_02_I -- QE1, QE2 and EUT
TD ref  : TBD
with {   ((EUT and QE1 and QE2) using the same call_group and
          using_compatible_vocoders) and
          QE1 is transmitting Voice_Transmission to EUT
        }
ensure that {
  when { EUT_User makes a Voice_Transmission to QE2 }
  then { QE2_User receives the Voice_Transmission from EUT }
}

-- XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

TP id   : TP_PMR_1209_01
summary : 'Channel access when polite to own colour code'
RQ ref  : RQ_001_1209
TP type : interoperability
Role    : M1
config ref: CF_dPMR_02_I -- QE1, QE2 and EUT
TD ref  : TBD
with {   ((EUT and QE1 and QE2) using same Group_ID and
          using_compatible_vocoders) and
          and using same colour_code ) and
          EUT is polite_to_own_CC and
          QE1 is transmitting to QE2
        }
ensure that {
  when { EUT_User makes PTT_Call }
  then { QE2_User does not receive PTT_Call from EUT }
}

-- XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

TP id   : TP_PMR_1210_01
summary : 'Channel access when impolite'
RQ ref  : RQ_001_1210
TP type : interoperability
Role    : M1
config ref: CF_dPMR_02_I -- QE1, QE2 and EUT
TD ref  : TBD
with {   ((EUT and QE1 and QE2) using_compatible_vocoders) and
          (EUT and QE2 using the same Group_ID) and
          (EUT and QE1 not using the same Group_ID) and
          EUT is impolite and
          QE1 is transmitting
        }
ensure that {
  when { EUT_User makes PTT_Call }
  then { QE2_User receives PTT_Call from EUT }
}

-- XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

```

```

TP id      : TP_PMR_1211_01
summary    : 'Channel access when polite to own group and channel occupied by members of own group'
RQ ref     : RQ_001_1211
TP type    : interoperability
Role       : M1
config ref: CF_dPMR_02_I -- QE1, QE2 and EUT
TD ref     : TBD
with {
  ((EUT and QE1 and QE2) using same colour_code ) and
  ((EUT and QE1 and QE2) are 'member of same talkgroup') and
  EUT is polite_to_own_group and
  QE1 is transmitting to QE2
}
ensure that {
  when { EUT_User makes a Voice_Transmission to QE2 }
  then { QE2_User receives Voice_Transmission from QE1 } -- Indicating EUT does NOT transmit
}

```

```
-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
```

```

TP id      : TP_PMR_1212_01
summary    : 'Repeated acknowledgements when RF channel is busy'
RQ ref     : RQ_001_1212
TP type    : interoperability
Role       : M1
config ref: CF_dPMR_02_I -- QE1, QE2 and EUT
TD ref     : TBD
with {
  ((EUT and QE1 and QE2) using same colour_code ) and
  ((EUT and QE2) are 'member of same talkgroup') and
  QE1 is transmitting
}
ensure that {
  when { QE2_User makes a connect_request to EUT }
  then { QE2_User receives 'no more than four' acknowledgement from EUT }
}

```

```
-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
```

```

TP id      : TP_PMR_1213_01
summary    : 'Automatic data call termination by timeout timer '
RQ ref     : RQ_001_1213
TP type    : interoperability
Role       : M1
config ref: CF_dPMR_01_I -- QE1 and EUT
TD ref     : TBD
with {
  (EUT and QE1 powersave_disabled)
  QE1 in standby and EUT configured with a valid TD_item_value
}
ensure that {
  when { EUT_User makes a continuous T1_Transmission addressed to QE1 }
  then { QE1_User receives T1_Transmission and
        EUT terminates the T1_Transmission after TD_item_value seconds }
}

```

```
-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
```

```

TP id      : TP_PMR_1213_02
summary    : 'Automatic data call termination by timeout timer '
RQ ref     : RQ_001_1213
TP type    : interoperability
Role       : M1
config ref: CF_dPMR_01_I -- QE1 and EUT
TD ref     : TBD
with {
  (EUT and QE1 powersave_disabled)
  QE1 in standby and EUT configured with a valid TD_item_value
}
ensure that {
  when { EUT_User makes a continuous T2_Transmission addressed to QE1 }
  then { QE1_User receives T2_Transmission and
        EUT terminates the T2_Transmission after TD_item_value seconds }
}

```

```
-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
```

5.3.2 Powersave

Void.

5.4 Addressing

5.4.1 Address defined functions

Void.

5.4.2 User defined functions

```

TP id   : TP_PMR_1403_01
summary : 'The user should enter or select a string of digits and then press a button to initiate
the call'
RQ ref  : RQ_001_1403
TP type : interoperability
Role    : M1
config ref: CF_dPMR_01_I -- QE1 and EUT
TD ref  : TBD
with {
    QE1 and EUT in standby and
    EUT Complies_with_Standard_User_Interface
}
ensure that {
    when { EUT_User enters or selects an address of QE1 }
    then { QE1_User does not receive the Call }
}

-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx

TP id   : TP_PMR_1403_02
summary : 'The user should enter a string of digits and then press a button to initiate the call'
RQ ref  : RQ_001_1403
TP type : interoperability
Role    : M1
config ref: CF_dPMR_01_I -- QE1 and EUT
TD ref  : TBD
with {
    QE1 and EUT in standby and
    EUT Complies_with_Standard_User_Interface
}
ensure that {
    when { EUT_User enters or selects an address of QE1 before EUT_User
           presses the hash_key or dedicated_send_key }
    then { QE1_User receives the Call }
}

-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx

TP id   : TP_PMR_1412_01
summary : 'Some numeric address are not permitted'
RQ ref  : RQ_001_1409
TP type : interoperability
Role    : M1
config ref: CF_dPMR_01_I -- QE1 and EUT
TD ref  : TBD
with {
    EUT Complies_with_Standard_User_Interface and
    QE1 and EUT in standby
}
ensure that {
    when { EUT_User enters or selects a non_dialable_address and
           presses dedicated_send_key }
    then { EUT indicates an error} -- audible or visible prompt
}

-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx

```



```

TP id    : TP_PMR_1417_02
summary  : 'Abbreviated dialling string with wildcard and no match'
RQ ref   : RQ_001_1417
TP type  : interoperability
Role     : M1
config ref: CF_dPMR_01_I -- QE1 and EUT
TD ref   : TBD
with {
    (EUT Complies_with_Standard_User_Interface_and_abbreviated_dialling_available)
    EUT and QE1 'addresses are same except for last two or more digits'
    EUT and QE1 in standby
}
ensure that {
    when { EUT_User enters or selects the asterisk_symbol and
           presses the hash_key or dedicated_send_key }
    then { QE1_User does not receive the Call }
}

-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx

TP id    : TP_PMR_1417_03
summary  : 'Abbreviated dialling string with wildcard'
RQ ref   : RQ_001_1417
TP type  : interoperability
Role     : M1
config ref: CF_dPMR_01_I -- QE1 and EUT
TD ref   : TBD
with {
    (EUT Complies_with_Standard_User_Interface_and_abbreviated_dialling_available)
    EUT and QE1 'addresses are same except for the last digit'
    EUT and QE1 in standby
}
ensure that {
    when { EUT_User enters or selects the asterisk_symbol and
           presses the dedicated_send_key }
    then { QE1_User receives the Call }
}

-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx

TP id    : TP_PMR_1418_01
summary  : 'Talkgroup call'
RQ ref   : RQ_001_1418
TP type  : interoperability
Role     : M1
config ref: CF_dPMR_01_I -- QE1 and EUT
TD ref   : TBD
with {
    (EUT Complies_with_Standard_User_Interface_and_abbreviated_dialling_available)
    'an address input mask enabled covering at least one of the last four digits') and
    (EUT and QE1 'addresses having the same digits outside of the mask' and
     in standby)
}
ensure that {
    when { EUT_User enters or selects a masked_dialling_string of QE1
           containing an asterisk_symbol 'as the last digit' and
           presses the hash_key or dedicated_send_key }
    then { QE1_User receives the TalkGroup_Call }
}

-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx

```

```

TP id : TP_PMR_1418_02
summary : 'Talkgroup call'
RQ ref : RQ_001_1418
TP type : interoperability
Role : M1
config ref: CF_dPMR_01_I -- QE1 and EUT
TD ref : TBD
with {
  (EUT Complies_with_Standard_User_Interface and
   abbreviated_dialling_available and
   'an address input mask is enabled covering at least one of the last four digits') and
  (EUT and QE1 'addresses having the same digits outside of the mask' and
   in standby)
}
ensure that {
  when { EUT_User enters or selects an abbreviated_masked_dialling_string of QE1
         containing an asterisk_symbol 'as the last digit' and
         presses the hash_key or dedicated_send_key }
  then { QE1_User receives the TalkGroup_Call }
}

```

```
-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
```

```

TP id : TP_PMR_1419_01
summary : 'Broadcast plan'
RQ ref : RQ_001_1419
TP type : interoperability
Role : M1
config ref: CF_dPMR_01_I -- QE1 and EUT
TD ref : TBD
with {
  EUT Complies_with_Standard_User_Interface and
  QE1 'programmed with a talkgroup address'
  QE1 and EUT in standby
}
ensure that {
  when { EUT_User enters a broadcast_command
         containing a talkgroup_address of QE1 and
         presses dedicated_send_key }
  then { QE1_User receives the Broadcast_Call }
}

```

```
-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
```

```

TP id : TP_PMR_1419_02
summary : 'Broadcast call - abbreviated dialling'
RQ ref : RQ_001_1419
TP type : interoperability
Role : M1
config ref: CF_dPMR_01_I -- QE1 and EUT
TD ref : TBD
with {
  (EUT Complies_with_Standard_User_Interface and
   abbreviated_dialling_available) and
  EUT and QE1 'addresses differing in one or more of the last digits'
  QE1 and EUT in standby
}
ensure that {
  when { EUT_User enters a broadcast_command
         containing a valid abbreviated_dialling_string of QE1
         containing 'one or more asterisk symbols' and
         presses the hash_key or dedicated_send_key }
  then { QE1_User receives the Broadcast_Call }
}

```

```
-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
```



```
TP id : TP_PMR_1420_01
summary : 'Status call'
RQ ref : RQ_001_1420
TP type : interoperability
Role : M1
config ref: CF_dPMR_01_I -- QE1 and EUT
TD ref : TBD
with {
    EUT Complies with Standard User Interface and
    QE1 and EUT in standby
}
ensure that {
    when { EUT_User enters a status_command
            containing a code between 0 and 31 and
            containing the address of QE1 and
            presses the hash_key or dedicated_send_key }
    then { QE1_User receives the Status_Call indicating the selected code }
}
```

```
-- XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
```

```
TP id : TP_PMR_1420_02
summary : 'Status call - wrong status code entered'
RQ ref : RQ_001_1420
TP type : interoperability
Role : M1
config ref: CF_dPMR_01_I -- QE1 and EUT
TD ref : TBD
with {
    EUT Complies with Standard User Interface
    QE1 and EUT in standby
}
ensure that {
    when { EUT_User enters a status_command
            containing a code 'greater than' 31 and
            containing the address of QE1 and
            presses the dedicated_send_key }
    then { EUT indicates an error }
}
```

```
-- XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
```

```
TP id : TP_PMR_1421_01
summary : 'Force talkgroup service'
RQ ref : RQ_001_1421
TP type : interoperability
Role : M1
config ref: CF_dPMR_01_I -- QE1 and EUT
TD ref : TBD
with {
    EUT Complies with Standard User Interface and
    QE1 and EUT in standby
}
ensure that {
    when { EUT_User enters a talkgroup_command
            containing the address of QE1 and
            presses the dedicated_send_key }
    then { QE1_User receives the TalkGroup_Call }
}
```

```
-- XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
```

```

TP id    : TP_PMR_1421_02
summary  : 'Force talkgroup service - abbreviated dialling'
RQ ref   : RQ_001_1421
TP type  : interoperability
Role     : M1
config ref: CF_dPMR_01_I -- QE1 and EUT
TD ref   : TBD
with {
    (EUT Complies_with_Standard_User_Interface_and
     abbreviated_dialling_available) and
    EUT and QE1 'addresses differing in one or more of the last digits'
    QE1 and EUT in standby
}
ensure that {
    when { EUT_User enters a talkgroup_command
            containing a valid abbreviated_dialling_string of QE1 and
            presses hash_key or dedicated_send_key }
    then { QE1_User receives the TalkGroup_Call }
}
-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx

```

Annex A (normative): dPMR interoperability test configurations

Void.

Annex B (normative): dPMR TPLan interoperability testing user definitions

```

---**Cross references**

xref PICS_doc          {DTS/ERM-TGDMR-279-1}

-- Configurations
xref CF_dPMR_01_I {dPMR_IOT_Configurations.ppt} -- QE1, EUT
xref CF_dPMR_02_I {dPMR_IOT_Configurations.ppt} -- QE1, QE2, EUT

---**Definitions**

def header type -- TP type

-- Entities
def entity EUT
def entity QE1
def entity QE2
-- Note: user could be a human user, machine, or program
def entity QE1_User -- the user operating QE1
def entity QE2_User -- the user operating QE2
def entity EUT_User -- the user operating EUT

-- Messages or signals
def event PTT_Call -- user presses PTT button and payload transmisson starts immediately
def event Individual_Call
def event Group_Call -- call with wildcard(s)
def event TalkGroup_Call -- call with only numeric address
def event Call -- any dialled call
def event Voice_Transmission -- Group or individual call
def event PTT_Key
def event T1_Transmission -- Type 1 data message call
def event T2_Transmission -- Type 2 data message call
def event T3_Transmission -- Type 3 data message call
def event Individual_SLD_Call -- Individual call including slow user data
def event Group_SLD_Call -- Group call including slow user data
def event Individual_AD_Call -- Individual call including appended data
def event Group_AD_Call -- Group call including appended data
def event Broadcast_Call
def event OACSU_Call -- Individual call using off air call set up
def event acknowledgement
def event connect_request -- call set up request
def event Status_Call
def event dedicated_send_key
def event hash_key
def event broadcast_command -- same as #1*
def event status_command { code } -- same as #0ss*
def event talkgroup_command -- same as #6*
def event error

-- Values

def value Group_ID
def value RF_Channel
def value channel
def value binary -- binary format short data
def value bcd -- bcd format short data
def value ISO7 -- 7 bit ISO format short data
def value ISO8 -- 8 bit ISO format short data
def value NMEA -- NMEA sentence format data
def value remainder
def value colour_code
def value call_group -- "call group" means "group" in dPMR sense but needed since "group"
is already predefined TPLan keyword
def value SLD_test_data
def value AD_test_data
def value TOT_value
def value asterisk_symbol
def value dialling_string -- keypad entry
def value addresses { address }
def value non_dialable_address -- '0000000', '1000000', '2000000', '3000000', '4000000', '5000000',

```

```

'6000000', '7000000', '8000000', '9000000'
def value abbreviated_dialling_string      -- address where some of the most signifant digits are
omitted
def value talkgroup_address                -- Group or Talk group address
def value masked_dialling_string          -- digits of an address that are covered by an input
mask
def value abbreviated_masked_dialling_string -- digits of an address that are covered by an input
mask where some of the most significant digits have been omitted

def unit seconds

def condition standby
def condition switched_on
def condition switched_off
def condition powersave_enabled
def condition powersave_disabled
def condition call_timeout_terminated      -- State if radio is that call got terminated by timeout
(after 180 sec)
def condition polite_to_own_CC             -- Channel access policy is "Polite to own Colour Code"
def condition polite_to_own_group         -- Channel access policy is "Polite to own group or
talkgroup"
def condition impolite                    -- Channel access policy is "Impolite"
def condition abbreviated_dialling_available
def condition Complies_with_Standard_User_Interface
def condition OACSU_enabled               -- radio configured for Off Air Call Set-up
def condition preset_with_SLD_test_data   -- buffering of slow data etc in the radio
def condition preset_with_AD_test_data    -- buffering of appended data etc in the radio
def condition using_compatible_vocoders

-- Keywords - (Pre)conditions
def word addressed
def word using
def word transmitting

-- Keywords - Stimuli
def word uses
def word makes
def word requested
def context {is ~requested to}
def word selects
def word terminates
def word releases
def word released
def context {is ~released}
def word presses
def word enters
def word cancels
def word stops

-- Keywords - Responses
def word receive
def word indicates

-- Keywords - Glue
def word on
def word for
def word both
def word between
def word same
def word being
def word are
def word another
def word valid
def word selected
def word does
def word again

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History

Document history		
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