

**Electromagnetic compatibility
and Radio spectrum Matters (ERM);
Conformance testing for the Peer-to-Peer
Digital Private Mobile Radio;
Part 2: Test Suite Structure and
Test Purposes (TSS&TP) specification**



Reference

RTS/ERM-TGDMR-269-2

Keywords

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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 2 of a multi-part deliverable covering the Electromagnetic compatibility and Radio spectrum Matters (ERM); Conformance testing for the Peer-to-Peer Digital Private Mobile Radio, as identified below:

- Part 1: "Protocol Implementation Conformance Statement (PICS) proforma";
- Part 2: "Test Suite Structure and Test Purposes (TSS&TP) specification";**
- Part 3: "Requirements catalogue";
- Part 4: "Abstract Test Suite (ATS)";
- Part 5: "Interoperability Test Suite Structure and Test Purposes (TSS&TP) specification";
- Part 6: "Test descriptions (TD)".

1 Scope

The present document specifies the conformance Test Purposes (TPs) for the Peer-to-Peer Digital Private Mobile Radio (dPMR) standard, TS 102 490 [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 102 490 (V1.3.1): "Electromagnetic compatibility and Radio spectrum Matters (ERM); Peer-to-Peer Digital Private Mobile Radio using FDMA with a channel spacing of 6,25 kHz with e.r.p. of up to 500 mW".
- [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".

3 Abbreviations

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

CF	(Test) ConFiguration
CSF	Configured Services and Facilities
dPMR	digital Private Mobile Radio
ISDM	Individual Short Data Message
ISF	Initial Services and Facilities
IUT	Implementation Under Test
MS	Mobile Station
OACSU	Off Air Call Set-Up
PTT	Push To Talk
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 (TS 102 587-3 [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 three groups:

Group 1: Common requirements.

Group 2: CSF requirements.

Group 3: ISF requirements.

The sub-grouping of these three group 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 "ISF CSF Common"
Group 1.1 "All Call"
Group 1.2 "Channel Access"
Group 1.3 "Framing"
Group 1.3.1 "End frame"
Group 1.3.2 "Header frames"
Group 1.3.2.1 "Call information field"
Group 1.3.3 "Packet data frame"
Group 1.3.4 "Superframe"
Group 1.3.4.1 "Type 1 data"
Group 1.3.4.2 "Type 2 data"
Group 1.3.4.3 "Voice"
Group 1.4 "Late Entry"
Group 1.5 "Powersave"
Group 1.6 "Talking Party ID"
Group 2 "CSF"
Group 2.1 "Broadcast Call"
Group 2.2 "Dialling Plan"

```



```

TP id      : TP_PMR_1012_02
summary    : 'Acknowledgement response time'
RQ ref     : RQ_001_1012
TP type    : conformance
Role       : CSF
config     : CF_dPMR_01
TC ref     : TC_PMR_1012_02
with {     : IUT in standby and configured_for_polite_to_own_CC and configured_for_multiple_acks and
           : configured_to_use_Tack
}
ensure that {
  when {   : TESTER sends a continuous Voice_Transmission using 'a signal level of >-102 dBm' and
           : sends a Voice_Transmission using 'a signal level of >-82 dBm'
           : with an End_Frame containing ARQ set to '01b' }
  then {   : IUT sends up to 4 Ack_Frames within T_Ack seconds }
}

-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx

TP id      : TP_PMR_1012_03
summary    : 'Acknowledgement response time'
RQ ref     : RQ_001_1012
TP type    : conformance
Role       : CSF
config     : CF_dPMR_01
TC ref     : TC_PMR_1012_03
with {     : IUT in standby and configured_for_polite_to_own_CC and configured_for_multiple_acks
}
ensure that {
  when {   : TESTER sends a continuous Voice_Transmission using 'a signal level of >-102 dBm' and
           : sends a Voice_Transmission using 'a signal level of >-82 dBm'
           : with an End_Frame containing ARQ set to '01b' }
  then {   : IUT sends up to 4 Ack_Frames after the TESTER terminates the continuous
           : Voice_Transmission }
}

-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx

End group 1.2

```

5.1.3 framing

Group 1.3 'Framing'

```

-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx

TP id      : TP_PMR_0401_01
summary    : 'Payload frame length with voice data'
RQ ref     : RQ_001_0401
TP type    : conformance
Role       : ISF, CSF
config     : CF_dPMR_01
TC ref     : TC_PMR_0401_01
with {     : IUT in standby
}
ensure that {
  when {   : IUT is requested to start a Voice_Transmission }
  then {   : IUT sends Voice_Transmission containing 384 bit Payload_Frames }
}

-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx

TP id      : TP_PMR_0401_02
summary    : 'Payload frame length with Type 1 data'
RQ ref     : RQ_001_0401
TP type    : conformance
Role       : ISF, CSF
config     : CF_dPMR_01
TC ref     : TC_PMR_0401_02
with {     : IUT in standby
}
ensure that {
  when {   : IUT is requested to start a T1_Transmission }
  then {   : IUT sends T1_Transmission containing 384 bit Payload_Frames }
}

-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx

```



```

TP id      : TP_PMR_0407_04
summary    : 'Header and end frame pairs in automatic disconnection request'
RQ ref     : RQ_001_0407
TP type    : conformance
Role       : CSF
config     : CF_dPMR_01
TC ref     : TC_PMR_0407_04
with {     : IUT is 'sending T3_Transmission' to TESTER
}
ensure that {
  when { IUT completes T3_Transmission }
  then { IUT sends a Disconnection_Request }
}

-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx

TP id      : TP_PMR_0408_01
summary    : 'Header frame and End frame pair is used to respond to a status request'
RQ ref     : RQ_001_0408
TP type    : conformance
Role       : CSF
config     : CF_dPMR_01
TC ref     : TC_PMR_0408_01
with {     : IUT in standby
}
ensure that {
  when { IUT receives a Header_Frame
          containing a Header_Type indicating Status_Request
          followed by an End_Frame }
  then { IUT sends a Status_Response }
}

-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx

TP id      : TP_PMR_0811_01
summary    : 'CSF Colour Codes'
RQ ref     : RQ_001_0811
TP type    : conformance
Role       : CSF
config     : CF_dPMR_01
TC ref     : TC_PMR_0811_01
with {     : IUT in standby and 'using channel 446,103125 MHz'
}
ensure that {
  when { IUT is requested to send a Voice_Transmission }
  then { IUT sends a Voice_Transmission with colour_code set to 'F7 57 57h' }
}

-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx

TP id      : TP_PMR_0811_02
summary    : 'CSF Colour Codes'
RQ ref     : RQ_001_0811
TP type    : conformance
Role       : CSF
config     : CF_dPMR_01
TC ref     : TC_PMR_0811_02
with {     : IUT in standby and 'using channel 446,109375 MHz'
}
ensure that {
  when { IUT is requested to send a Voice_Transmission }
  then { IUT sends a Voice_Transmission with colour_code set to 'F7 7D 57h' }
}

-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx

```



```

TP id      : TP_PMR_0812_11
summary    : 'ISF Colour Codes'
RQ ref     : RQ_001_0812
TP type    : conformance
Role       : ISF
config     : CF_dPMR_01
TC ref     : TC_PMR_0812_11
with {     : IUT in standby and 'using channel 446,165625 MHz'
}
ensure that {
  when {   : IUT is requested to send a Voice_Transmission }
  then {   : IUT sends a Voice_Transmission with colour_code set to '5F FD 5Dh' }
}

-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx

TP id      : TP_PMR_0812_12
summary    : 'ISF Colour Codes'
RQ ref     : RQ_001_0812
TP type    : conformance
Role       : ISF
config     : CF_dPMR_01
TC ref     : TC_PMR_0812_12
with {     : IUT in standby and 'using channel 446,171875 MHz'
}
ensure that {
  when {   : IUT is requested to send a Voice_Transmission }
  then {   : IUT sends a Voice_Transmission with colour_code set to '5D 5D 55h' }
}

-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx

TP id      : TP_PMR_0812_13
summary    : 'ISF Colour Codes'
RQ ref     : RQ_001_0812
TP type    : conformance
Role       : ISF
config     : CF_dPMR_01
TC ref     : TC_PMR_0812_13
with {     : IUT in standby and 'using channel 446,178125 MHz'
}
ensure that {

  when {   : IUT is requested to send a Voice_Transmission }
  then {   : IUT sends a Voice_Transmission with colour_code set to '5D 77 55h' }
}

-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx

TP id      : TP_PMR_0812_14
summary    : 'ISF Colour Codes'
RQ ref     : RQ_001_0812
TP type    : conformance
Role       : ISF
config     : CF_dPMR_01
TC ref     : TC_PMR_0812_14
with {     : IUT in standby and 'using channel 446,184375 MHz'
}
ensure that {
  when {   : IUT is requested to send a Voice_Transmission }
  then {   : IUT sends a Voice_Transmission with colour_code set to '5D DF 57h' }
}

-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx

```


5.1.3.4 superframe

Group 1.3.4 'Superframe'

5.1.3.4.1 type 1 data

Group 1.3.4.1 'Type 1 data'

```

TP id      : TP_PMR_0807_01
summary    : 'T1 data transmission'
RQ ref     : RQ_001_0807
TP type    : conformance
Role       : ISF, CSF
config     : CF_dPMR_01
TC ref     : TC_PMR_0807_01
with {     : IUT in standby
}

ensure that {
  when { IUT is requested to send a T1_Transmission }
  then { IUT sends T1_Transmission
        containing a Header_Frame
        containing Communications_Mode
        set to '010b' }
}

-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx

TP id      : TP_PMR_0831_01
summary    : 'Group status message using T1 Data'
RQ ref     : RQ_001_0831
TP type    : conformance
Role       : ISF
config     : CF_dPMR_01
TC ref     : TC_PMR_0831_01
with {     : IUT in standby
}

ensure that {
  when { IUT is requested to send a T1_Status_Message }
  then { IUT sends T1_Transmission
        containing a Header_Frame
        containing CI_information with the format_coding set to '0000b' }
}

-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx

TP id      : TP_PMR_0831_02
summary    : 'Group status message using T1 Data'
RQ ref     : RQ_001_0831
TP type    : conformance
Role       : CSF
config     : CF_dPMR_01
TC ref     : TC_PMR_0831_02
with {     : IUT in standby
}

ensure that {
  when { IUT is requested to send a T1_Status_Message to a wildcard_group_address or
        numeric_group_address }
  then { IUT sends T1_Transmission
        containing a Header_Frame
        containing CI_information with the format_coding set to '0000b' }
}

-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx

```



```

--
TP id    : TP_PMR_1103_01
summary  : 'Powersave preamble'
RQ ref   : RQ_001_1103
TP type  : conformance
Role     : ISF, CSF
config   : CF_dPMR_01
TC ref   : TC_PMR_1103_01
with {
    IUT in standby and powersave_enabled using '15 Extended Headers'
}
ensure that {
  when {
    IUT is requested to send a Voice Transmission to TESTER }
  then {
    IUT sends Voice Transmission with
      Header_Frame 1 containing CI_information set to '0000 1111b'
      Header_Frame 2 containing CI_information set to '0000 1110b'
      Header_Frame 3 containing CI_information set to '0000 1101b'
      Header_Frame 4 containing CI_information set to '0000 1100b'
      Header_Frame 5 containing CI_information set to '0000 1011b'
      Header_Frame 6 containing CI_information set to '0000 1010b'
      Header_Frame 7 containing CI_information set to '0000 1001b'
      Header_Frame 8 containing CI_information set to '0000 1000b'
      Header_Frame 9 containing CI_information set to '0000 0111b'
      Header_Frame 10 containing CI_information set to '0000 0110b'
      Header_Frame 11 containing CI_information set to '0000 0101b'
      Header_Frame 12 containing CI_information set to '0000 0100b'
      Header_Frame 13 containing CI_information set to '0000 0011b'
      Header_Frame 14 containing CI_information set to '0000 0010b'
      Header_Frame 15 containing CI_information set to '0000 0001b'
      Header_Frame 16 containing CI_information set to '0000 0000b' }
}
--
End group 1.5

```

5.1.6 talking party ID

Group 1.6 'Talking Party ID'

```

TP id    : TP_PMR_0803_01
summary  : 'Talking Party ID'
RQ ref   : RQ_001_0803
TP type  : conformance
Role     : ISF, CSF
config   : CF_dPMR_01
TC ref   : TC_PMR_0803_01
with {
    IUT in standby and TPID_is_enabled
}
ensure that {
  when {
    IUT receives a Voice Transmission from TESTER }
  then {
    IUT notifies the Own_Station_ID of the TESTER }
}
--
-- No TP specified for RQ_001_0845
End group 1.6
End group 1

```



```

TP id      : TP_PMR_1418_01
summary    : 'Masked dialling works for individual calls'
RQ ref     : RQ_001_1418
TP type    : conformance
Role       : CSF
config     : CF_dPMR_01
TC ref     : TC_PMR_1418_01
with {     : IUT configured_for_Standard_User_Interface
           : and in standby
           : and 'a dialling string input mask enabled'
}
ensure that {
  when {   : IUT has a valid masked_dialling_string entered or selected -- valid means the exact number
of digits as in mask
           : before IUT hash_key or dedicated_send_key is pressed }
  then {   : IUT sends a Voice_Transmission
           : with Header_Frame
           : containing Called_Station_ID set to the Tx_B2_conversion of the
           : 'address resulting from substituting the masked_dialling_string for
those digits of the IUT individual address that fall within the input mask' }
}

-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx

TP id      : TP_PMR_1418_02
summary    : 'Masked dialling for group'
RQ ref     : RQ_001_1418
TP type    : conformance
Role       : CSF
config     : CF_dPMR_01
TC ref     : TC_PMR_1418_02
with {     : IUT configured_for_Standard_User_Interface
           : and in standby
           : and configured_for_wildcards
           : and 'a dialling string input mask enabled'
}
ensure that {
  when {   : IUT has a valid masked_dialling_string containing a wildcard entered or selected --
valid means the exact number of digits as in mask
           : before IUT hash_key or dedicated_send_key is pressed }
  then {   : IUT sends a Voice_Transmission
           : with Header_Frame
           : containing Called_Station_ID set to the Tx_B2_conversion of the
           : 'address resulting from substituting the masked_dialling_string for
those digits of the IUT individual address that fall within the input mask' }
}

-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx

TP id      : TP_PMR_1418_03
summary    : 'Abbreviated masked dialling works for individual calls'
RQ ref     : RQ_001_1418
TP type    : conformance
Role       : CSF
config     : CF_dPMR_01
TC ref     : TC_PMR_1418_03
with {     : IUT configured_for_Standard_User_Interface
           : and in standby
           : and 'a dialling string input mask enabled'
           : and configured_for_abbreviated_dialling
}
ensure that {
  when {   : IUT has a valid abbreviated_masked_dialling_string entered or selected
           : before IUT hash_key or dedicated_send_key is pressed }
  then {   : IUT sends a Voice_Transmission
           : with Header_Frame
           : containing Called_Station_ID set to the Tx_B2_conversion of the
           : 'address resulting from substituting the
abbreviated_masked_dialling_string for those digits of the IUT individual address that fall within
the least significant digits of the input mask' }
}

-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx

```



```

TP id      : TP_PMR_1420_03
summary    : 'Broadcast with abbreviated masked wildcard group address'
RQ ref    : RQ_001_1420
TP type   : conformance
Role      : CSF
config    : CF_dPMR_01
TC ref    : TC_PMR_1420_03
with {
    IUT configured_for_Standard_User_Interface
        and in standby and
        configured_for_wildcards
        and configured_for_abbreviated_dialling
        and 'a dialling string input mask enabled'
}
ensure that {
    when { IUT has a broadcast_command and a valid abbreviated_masked_dialling_string containing a
wildcard entered or selected
        before IUT hash_key or dedicated_send_key is pressed }
    then { IUT sends a Voice_Transmission
            with Header_Frame
            containing Called_Station_ID set the Tx_B2_conversion of the
            'address resulting from substituting the abbreviated_masked_dialling_string for those
digits of the IUT individual address that fall within the least significant digits of the input
mask' and
            containing Communications_Format set to '0000b' }
}

-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx

TP id      : TP_PMR_1420_04
summary    : 'Broadcast with numeric group address'
RQ ref    : RQ_001_1420
TP type   : conformance
Role      : CSF
config    : CF_dPMR_01
TC ref    : TC_PMR_1420_04
with {
    IUT configured_for_Standard_User_Interface and
        in standby and
        programmed_with_a_numeric_group_address
}
ensure that {
    when { IUT has a broadcast_command and the numeric_group_address entered or selected
        before hash_key or dedicated_send_key is pressed }
    then { IUT sends a Voice_Transmission
            with Header_Frame
            containing Called_Station_ID set to the Tx_B2_conversion of that
numeric_group_address and
            containing Communications_Format set to '0000b' }
}

-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx

TP id      : TP_PMR_1420_05
summary    : 'Broadcast with abbreviated numeric group address'
RQ ref    : RQ_001_1420
TP type   : conformance
Role      : CSF
config    : CF_dPMR_01
TC ref    : TC_PMR_1420_05
with {
    IUT configured_for_Standard_User_Interface and
        in standby and
        programmed_with_a_numeric_group_address and
        configured_for_abbreviated_dialling
}
ensure that {
    when { IUT has a broadcast_command and a valid abbreviated_dialling_string 'for the
numeric_group_address' entered or selected
        before IUT hash_key or dedicated_send_key is pressed }
    then { IUT sends a Voice_Transmission
            with Header_Frame
            containing Called_Station_ID set to the Tx_B2_conversion of that
numeric_group_address and
            containing Communications_Format set to '0000b' }
}

-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx

```

```

TP id : TP_PMR_1420_06
summary : 'Broadcast with abbreviated masked numeric group address'
RQ ref : RQ_001_1420
TP type : conformance
Role : CSF
config : CF_dPMR_01
TC ref : TC_PMR_1420_06
with { IUT configured_for_Standard_User_Interface
        and in standby and
        programmed_with_a_numeric_group_address and
        configured_for_abbreviated_dialling and
        'a dialling string input mask enabled'
      }
ensure that {
  when { IUT has a broadcast_command and a valid abbreviated_masked_dialling_string 'for the
numeric_group_address' entered or selected
        before IUT hash_key or dedicated_send_key is pressed }
  then { IUT sends a Voice_Transmission
        with Header_Frame
        containing Called_Station_ID set to the Tx_B2_conversion of the
numeric_group_address and
        containing Communications_Format set to '0000b' }
}

-- XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

TP id : TP_PMR_1420_07
summary : 'Broadcast with invalid numeric group address'
RQ ref : RQ_001_1420
TP type : conformance
Role : CSF
config : CF_dPMR_01
TC ref : TC_PMR_1420_07
with { IUT configured_for_Standard_User_Interface and
        in standby and
        programmed_with_a_numeric_group_address
      }
ensure that {
  when { IUT has a broadcast_command and a seven_digit_address different from the
numeric_group_address entered or selected
        before hash key or dedicated_send_key is pressed }
  then { IUT notifies Call_Fail }
}

-- XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

TP id : TP_PMR_1421_01
summary : 'Status call with specific address'
RQ ref : RQ_001_1421
TP type : conformance
Role : CSF
config : CF_dPMR_01
TC ref : TC_PMR_1421_01
with { IUT configured_for_Standard_User_Interface and
        in standby
      }
ensure that {
  when { IUT has a status_command, a status_code set to '09' and a valid seven_digit_address
entered or selected
        before IUT hash_key or dedicated_send_key is pressed }
  then { IUT sends a Status_Call
        with Header_Frame
        containing Called_Station_ID set to the Tx_B2_conversion of the
seven_digit_address and
        containing Header_Type set to '0111b'and
        with End_Frame
        containing End_Type set to '01b'and
        containing ARQ set to '00b' and
        containing STAT set to '01001b'}
}

-- XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

```

```

TP id : TP_PMR_1423_01
summary : 'Forced talkgroup call with specific address'
RQ ref : RQ_001_1423
TP type : conformance
Role : CSF
config : CF_dPMR_01
TC ref : TC_PMR_1423_01
with { IUT configured_for_Standard_User_Interface and
       not_programmed_with_a_numeric_group_address and
       in_standby
}
ensure that {
  when { IUT has a talkgroup_command and a seven_digit_address entered or selected
        before IUT hash_key or dedicated_send_key is pressed }
  then { IUT sends a Voice_Transmission
        with a Header_Frame
        containing Called_Station_ID set to the Tx_B2_conversion of the
seven_digit_address }
}

-- XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

TP id : TP_PMR_1424_01
summary : 'Call Cancel'
RQ ref : RQ_001_1424
TP type : conformance
Role : CSF
config : CF_dPMR_01
TC ref : TC_PMR_1424_01
with { IUT configured_for_Standard_User_Interface and
       in_standby and
       configured_for_polite_to_own_CC
}
ensure that {
  when { TESTER sends a continuous Voice_Transmission using 'a signal level of >-102 dBm' and
        IUT is requested to make a Voice_Transmission }
  then { IUT does not transmit }
  when { IUT hash_key is pressed twice -- call only cancelled here!
        before the TESTER terminates the continuous Voice_Transmission }
  then { IUT does not transmit }
}

-- XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

End group 2.2

```

5.2.3 individual short data message

Group 2.3 'Individual Short Data Message'

5.2.3.1 ISDM free text message

Group 2.3.1 'ISDM Free Text Message'

```

-- XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

TP id : TP_PMR_0852_01
summary : 'Individual free text message using T2 Data'
RQ ref : RQ_001_0852
TP type : conformance
Role : CSF
config : CF_dPMR_01
TC ref : TC_PMR_0852_01
with { IUT in standby
}
ensure that {
  when { IUT is requested to send a T2_Freetext_Data_Message to an individual_address }
  then { IUT sends T2_Transmission
        containing Payload_Frames
        containing format_coding set to '0010b' }
}

-- XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

```

```

TP id      : TP_PMR_0853_01
summary    : 'Individual free text message using T1 Data'
RQ ref     : RQ_001_0853
TP type    : conformance
Role       : CSF
config     : CF_dPMR_01
TC ref     : TC_PMR_0853_01
with {     : IUT in standby
}
ensure that {
  when {   : IUT is requested to send a T1_Freetext_Data_Message to an individual_address }
  then {   : IUT sends T1_Transmission
            containing Payload_Frames
            containing format_coding set to '0010b' }
}
-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
End group 2.3.1

```

5.2.3.2 ISDM precoded message

Group 2.3.2 'ISDM Precoded Message'

```

TP id      : TP_PMR_0850_01
summary    : 'Individual precoded message using T1 Data'
RQ ref     : RQ_001_0850
TP type    : conformance
Role       : CSF
config     : CF_dPMR_01
TC ref     : TC_PMR_0850_01
with {     : IUT in standby
}
ensure that {
  when {   : IUT is requested to send a T1_Precoded_Data_Message to an individual_address }
  then {   : IUT sends T1_Transmission
            containing Payload_Frames
            containing format_coding set to '0001b' }
}
-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx

TP id      : TP_PMR_0851_01
summary    : 'Individual precoded message using T2 Data'
RQ ref     : RQ_001_0851
TP type    : conformance
Role       : CSF
config     : CF_dPMR_01
TC ref     : TC_PMR_0851_01
with {     : IUT in standby
}
ensure that {
  when {   : IUT is requested to send a T2_Precoded_Data_Message to an individual_address }
  then {   : IUT sends T2_Transmission
            containing Payload_Frames
            containing format_coding set to '0001b' }
}
-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx

End group 2.3.2

```


5.2.3.4 ISDM status message

```

Group 2.3.4 'ISDM Status Message'
-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx

TP id   : TP_PMR_0846_01
summary : 'Individual status message using T2 Data'
RQ ref  : RQ_001_0846
TP type : conformance
Role    : CSF
config  : CF_dPMR_01
TC ref  : TC_PMR_0846_01
with {   IUT in standby

ensure that {
  when { IUT is requested to send a T2_Status_Message to an individual_address }
  then { IUT sends T2_Transmission
        containing Payload_Frames
        containing format_coding set to '0000b' }
}

-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx

TP id   : TP_PMR_0847_01
summary : 'Individual status message using T1 Data'
RQ ref  : RQ_001_0847
TP type : conformance
Role    : CSF
config  : CF_dPMR_01
TC ref  : TC_PMR_0847_01
with {   IUT in standby

ensure that {
  when { IUT is requested to send a T1_Status_Message to an individual_address }
  then { IUT sends T1_Transmission
        containing Payload_Frames
        containing format_coding set to '0000b' }
}

-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx

End group 2.3.4
End group 2.3

```

5.2.4 OACSU

```

Group 2.4 'OACSU'

TP id   : TP_PMR_0840_01
summary : 'CSF OACSU'
RQ ref  : RQ_001_0840
TP type : conformance
Role    : CSF
config  : CF_dPMR_01
TC ref  : TC_PMR_0840_01
with {   IUT in standby and
        OACSU_enabled

ensure that {
  when { IUT is requested to send a OACSU_Call }
  then { IUT sends a Connection_Request
        containing Header_Frame
        containing Header_Type set to '0001b' and
        containing End_Frame
        containing End_Type set to '00b' and
        containing ARQ set to '01b' }
}

-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx

```



```

TP id      : TP_PMR_0844_01
summary    : 'CSF Appended Data individual calls'
RQ ref     : RQ_001_0844
TP type    : conformance
Role       : CSF
config     : CF_dPMR_01
TC ref     : TC_PMR_0844_01
with {
  IUT is preset_with_AD_test_data
}
ensure that {
  when { IUT is requested to send a Individual_AD_Call }
  then { IUT sends Voice_Transmission
        containing Header_Frame
        containing Communications_Mode set to '101b'}
  when { IUT is requested to terminate the Individual_AD_Call during the first Payload_Frame of a
  Superframe}
  then { IUT sends 'AD_test_data in penultimate and last Payload_Frames'}
}

```

```
-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
```

End group 2.5

5.2.6 slow user data

Group 2.6 'Slow User Data'

```
-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
```

```

TP id      : TP_PMR_0843_01
summary    : 'CSF Slow User Data individual calls'
RQ ref     : RQ_001_0843
TP type    : conformance
Role       : CSF
config     : CF_dPMR_01
TC ref     : TC_PMR_0843_01
with {
  IUT in standby and preset_with_SLD_test_data
}
ensure that {
  when { IUT is requested to make a Individual_SLD_Call }
  then { IUT sends Voice_Transmission
        containing a Header_Frame
        containing Communications_Mode set to '001b' and
        containing first Payload_Frame
        containing CCH_data
        set to first 2 bytes of SLD_test_data and
        containing second Payload_Frame
        containing CCH_data
        set to second 2 bytes of SLD_test_data }
}

```

```
-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
```

End group 2.6

5.2.7 type 3 data

Group 2.7 'Type 3 data'

```

TP id      : TP_PMR_0808_01
summary    : 'T3 data transmission'
RQ ref     : RQ_001_0808
TP type    : conformance
Role       : CSF
config     : CF_dPMR_01
TC ref     : TC_PMR_0808_01
with {     : IUT in standby
}
ensure that {

  when { IUT is requested to send a T3_Transmission }
  then { IUT sends T3_Transmission
        containing a Header_Frame
        containing Communications_Mode
        set to '100b' }
}

-- XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

TP id      : TP_PMR_0817_01
summary    : 'Type 3 Data positive acknowledgement'
RQ ref     : RQ_001_0817
TP type    : conformance
Role       : CSF
config     : CF_dPMR_CSF_01_C -- CSF IUT, TESTER CSF
TC ref     : TC_PMR_0817_01
with {     : IUT in standby
}
ensure that {
  when { IUT receives a T3_Transmission }
  then { IUT sends a Ack_Frame containing Ack_type set to '001b' }
}

-- XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

TP id      : TP_PMR_0818_01
summary    : 'Type 3 Data negative acknowledgement'
RQ ref     : RQ_001_0818
TP type    : conformance
Role       : CSF
config     : CF_dPMR_CSF_01_C -- CSF IUT, TESTER CSF
TC ref     : TC_PMR_0818_01
with {     : IUT in standby
}
ensure that {
  when { IUT receives a T3_Transmission with a packet_data_frame containing a data_checksum set to
an invalid CRC_D value}
  then { IUT sends a Ack_Frame containing Ack_type set to '010b' and
        CI_information set to 'the number of the packet data
frame before the one containing the invalid_CRC' }
}

-- XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

TP id      : TP_PMR_0819_01
summary    : 'Type 3 Data call completion'
RQ ref     : RQ_001_0819
TP type    : conformance
Role       : CSF
config     : CF_dPMR_01
TC ref     : TC_PMR_0819_01
with {     : IUT is 'sending a T3_Transmission'
}
ensure that {
  when { IUT receives a Ack_Frame containing Ack_type set to '001b' }
  then { IUT sends a Disconnection_Request }
}

-- XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

```

```

TP id      : TP_PMR_0820_01
summary    : 'Type 3 Data negative acknowledgement'
RQ ref     : RQ_001_0820
TP type    : conformance
Role       : CSF
config     : CF_dPMR_01
TC ref     : TC_PMR_0820_01
with {     : IUT is 'sending a T3_Transmission'
}
ensure that {
  when { IUT receives a Ack_Frame containing Ack_type set to '010b' and CI_information set to a
packet_data_frame number }
  then { IUT sends 'the previous T3_Transmission starting with the packet_data_frame following that
packet_data_frame number' }
}

-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx

TP id      : TP_PMR_0821_01
summary    : 'Type 3 Data unused bytes'
RQ ref     : RQ_001_0821
TP type    : conformance
Role       : CSF
config     : CF_dPMR_01
TC ref     : TC_PMR_0821_01
with {     : IUT in standby
}
ensure that {
  when { IUT is requested to send a T3_Transmission 'with a payload of 1400 bytes' }
  then { IUT sends T3_Transmission
          with the eighth packet_data_frame
          containing data_length set to 140 and
          last 40 data_bytes set to '00h' }
}

-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx

TP id      : TP_PMR_0822_01
summary    : 'Type 3 Data CRC'
RQ ref     : RQ_001_0822
TP type    : conformance
Role       : CSF
config     : CF_dPMR_01
TC ref     : TC_PMR_0822_01
with {     : IUT in standby
}
ensure that {
  when { IUT is requested to send a T3_Transmission }
  then { IUT sends a T3_Transmission
          with every packet_data_frame
          containing data_checksum set to the valid CRC_D value }
}

-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx

End group 2.7
End group 2

```


Annex A (normative): dPMR conformance test configurations

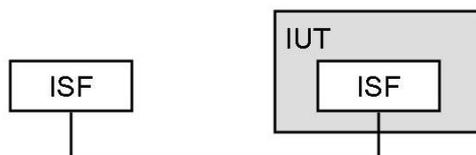


Figure A.1: Configuration CF_dPMR_ISF_01_C

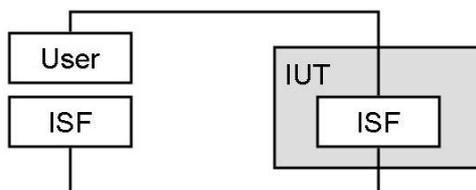


Figure A.2: Configuration CF_dPMR_ISF_02_C

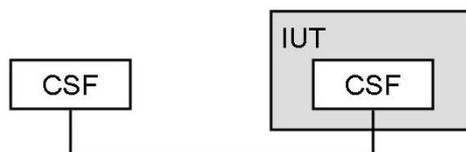


Figure A.3: Configuration CF_dPMR_CSF_01_C

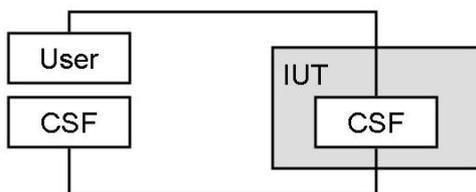


Figure A.4: Configuration CF_dPMR_CSF_02_C

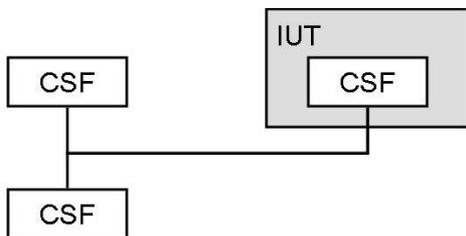


Figure A.5: Configuration CF_dPMR_CSF_03_C

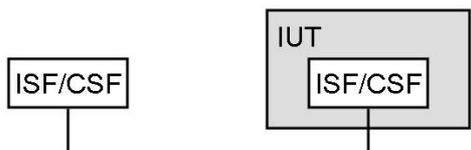


Figure A.6: Configuration CF_dPMR_ISF/CSF_01_C

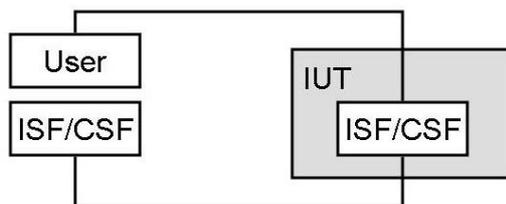


Figure A.7: Configuration CF_dPMR_ISF/CSF_02_C

In the configuration CF_dPMR_ISF/CSF_01_C and CF_dPMR_ISF/CSF_01_C either all entities are ISF or all are CSF.

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

```

---**Cross references**

xref PICS_doc          {DTS/ERM-TGDMR-066-1}

-- Configurations
xref CF_dPMR_01       {DTS-ERM-TGDMR-066-3}

---**Definitions**

def header type      -- as in "TP type"

-- Entities

-- Messages or signals
def event PTT_Call   -- voice transmission directly initiated by the PTT switch
def event Header_Frame {header_type, format_coding } -- alias HF
def event End_Frame  {Ack_Request, ARQ, End_Type} -- alias EF
def event Ack_Frame  {Ack_type}
def event Ack_Frames -- Up to 4 Ack frames repeated with 300-500ms intervals
def event Payload_Frame { CCH_data, ID0, ID1, ID2, ID3 }
def event Payload_Frames
def event Superframe { Payload_Frames }
def event Superframes { Payload_Frames }
def event Voice_Transmission -- directly following sequence of HF, SFs, EF with audible tone as
payload
def event T1_Transmission -- directly following sequence of HF, SFs, EF with Type 1 data in
payload
def event T2_Transmission -- directly following sequence of HF, SFs, EF with Type 2 data in
payload
def event T3_Transmission -- directly following sequence of HF, 8 PDFs, EF with Type 3 data in
payload
def event Connection_Request { HeaderFrame, EndFrame } -- Manually initiated, e.g., PTT double
click,
-- Status request, etc
def event Disconnection_Request { HeaderFrame1, EndFrame1, HeaderFrame2, EndFrame2 }
def event Status_Response { HeaderFrame, EndFrame }
def event T2_Status_Message
def event T2_Precoded_Data_Message
def event T2_Freetext_Data_Message
def event T2_Short_File_Transfer
def event T1_Status_Message
def event T1_Precoded_Data_Message
def event T1_Freetext_Data_Message
def event T1_Short_File_Transfer
def event Individual_SLD_Call
def event Group_SLD_Call
def event Broadcast_Call
def event Individual_AD_Call
def event Group_AD_Call
def event OACSU_Call
def event Status_Call { HeaderFrame, EndFrame}
def event Call_Fail -- non-specified kind of user notification in case of a call failure
def event hash_key
def event dedicated_send_key
def event broadcast_command
def event talkgroup_command

-- Values
def value bit
def value integral_number
def value individual_address
def value Call_Data -- Comms Mode, Comms Format, Caller, Callee IDs, Common ID
-- ... appearing in header well as payload frames of CCH
def value Header_Type { Status_Request }
def value Own_Station_ID
def value Called_Station_ID
def value Communications_Mode
def value Communications_Format
def value format_coding
def value Common_ID

```

```

def value CRC_D
def value colour_code
def value ISF_colour_code
def value CSF_colour_code
def value Frame_Sync
def value Status_Request
def value status_code          -- a value from 0 to 31
def value Ack_Request
def value error
def value packet_data_frame { data_bytes, data_length, data_checksum }
def value CI_type
def value CI_information       -- only the information part of CI (=call information)
def value wildcard_group_address -- a 7 digit group address containing a wildcard in the last four
digits
def value numeric_group_address -- a 7 digit talkgroup address
def value SLD_test_data       -- 4 bytes of data to be buffered in the IUT
def value AD_test_data        -- 40 bytes of data to be buffered in the IUT
def value wildcards
def value STAT
def value preamble
def value Tx_WAIT
def value T_Ack
def value all_call_address    -- ***** (7 wildcard symbols)
def value all_call_within_a_prefix_address -- n***** (6 wildcard symbols)
def value seven_digit_address
def value abbreviated_dialling_string
def value number
def value wildcard
def value masked_dialling_string
def value dialling_string
def value abbreviated_masked_dialling_string

def unit bits
def unit bytes
def unit MHz
def unit seconds

-- Conditions
def condition standby
def condition transmit
def condition OACSU_enabled -- radio configured for Off Air Call Set-up
def condition has_received_an_End_Frame_with_Acknowledge_Request
def condition TPID_is_enabled
def condition has_sent_OACSU_Connection_Request
def condition configured_for_abbreviated_dialling
def condition masked_dialling
def condition configured_for_Standard_User_Interface
def condition preset_with_SLD_test_data
def condition preset_with_AD_test_data
def condition invalid_CRC
def condition configured_for_impolite_channel_access
def condition configured_for_polite_to_own_CC
def condition configured_for_polite_to_own_group
def condition configured_for_multiple_acks
def condition configured_to_use_Tack
def condition powersave_enabled
def condition programmed_with_a_numeric_group_address
def condition not_programmed_with_a_numeric_group_address

-- Keywords - (Pre)conditions
-- Keywords - (Pre)conditions
def word configured
def word entered
def word selected
def word Tx_B2_conversion -- B2 Algorhythm forward conversion
def word Rx_B2_conversion -- B2 Algorhythm reverse conversion

-- Keywords - Stimuli
def word start
def word make
def word requested
def context {is ~requested to}
def word completes
def word cancel
def word terminate
def word terminates
def word pressed

```

```
-- Keywords - Responses
def word outputs
def word output
def word notifies
def word returns
def word send

-- Keywords - other
def word set
def context {~set to}
def word up
def context {~up to}
def word same
def word their
def word upper
def word lower
def word each
def word every
def word first
def word second
def word third
def word fourth
def word eighth
def word last
def word except
def word for
def word followed
def word by
def context {~followed by}
def word using
def word part
def word between
def word twice
def word does
def word has
def word non_zero
def word time
def word during
def word continuous
def word valid
def word invalid
def word different
```

History

Document history		
V1.1.1	April 2007	Publication
V1.2.1	July 2008	Publication