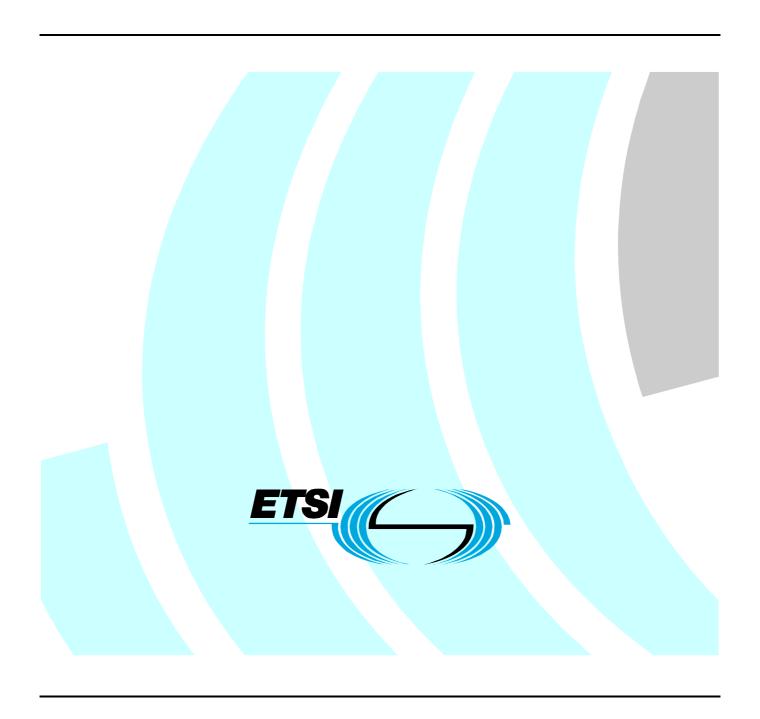
ETSITS 102 726-3 V2.1.1 (2011-06)

Technical Specification

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

RTS/ERM-TGDMR-290-3

Keywords

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Contents

Intelle	ectual Property Rights	4
Forev	word	4
1	Scope	5
	•	
2	References	
2.1 2.2	Normative references	
2.2	miormative references	
3	Abbreviations	6
4	Test Suite Structure (TSS)	6
5	Test Purposes (TP)	7
5.1	Framing	7
5.1.1	Addressing	7
5.1.1.1		
5.1.1.2	2 Dialling Plan	
5.1.1.3	3 Talking Party ID	12
5.1.2	Base Station framing	13
5.1.3	Channel Access	15
5.1.3.		
5.1.3.2		
5.1.4	END frame	
5.1.5	Message frame	
5.1.5.		
5.1.6	Payload	
5.1.6.		
5.1.6.2		
5.1.6.3		
5.1.6.4		
5.1.6.5	5 Voice	24
5.1.6.5		
5.1.6.5	- · · · · · · · · · · · · · · · · · · ·	25
5.1.6.5		
5.1.7	Power save	
5.1.8	Superframe	
5.1.8.1		
5.1.8.2	2 Voice TCH	27
Anne	ex A (normative): dPMR interoperability test configurations	28
Anne	ex B (normative): dPMR TPLan interoperability testing user definitions	29
Histor	ary	31

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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

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 reference document (including any amendments) applies.

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2.1 Normative references

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

- [1] ETSI TS 102 658 (V2.1.1): "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 necessary for the application of the present document but they assist the user with regard to a particular subject area.

- [i.1] ETSI ES 202 553: "Methods for testing and Specification (MTS); TPLan: A notation for expressing test Purposes".
- [i.2] ETSI TS 102 726-1: "Electromagnetic compatibility and Radio spectrum Matters (ERM); Conformance testing for Mode 1 of the digital Private Mobile Radio (dPMR); Part 1: Protocol Implementation Conformance Statement (PICS) proforma".

3 Abbreviations

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

BS2 Mode 2 Repeater
CF (Test) ConFiguration
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.

```
5.1
            Framing
5.1.1
            Addressing
5.1.1.1
            All Call
            Dialling Plan
5.1.1.2
5.1.1.3
            Talking Party ID
5.1.2
            Base Station framing
5.1.3
            Channel Access
5.1.3.1
           OACSU
5.1.3.2
           PTT Call
           END frame
5.1.4
5.1.5
           Message frame
5.1.5.1
           Message Information field
5.1.6
            Payload
            Packet data
5.1.6.1
5.1.6.2
            Short data
5.1.6.3
            T1 data
5.1.6.4
            T2 data
5.1.6.5
            Voice
5.1.6.5.1
           Voice and attached data
5.1.6.5.2
            Late entry
5.1.6.5.3
           Slow user data
5.1.7
            Power save
            Superframe
5.1.8
5.1.8.1
            Traffic channel
            Voice TCH
5.1.8.2
```

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 Framing

5.1.1 Addressing

5.1.1.1 All Call

Void.

5.1.1.2 Dialling Plan

```
: TP PMR 1403 01
TP id
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
       : M1, M2
Role
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 }
         QE1 User does not receive the Call
  then
: TP_PMR_1403_02
TP id
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, M2
config ref: CF_dPMR_01_I -- QE1 and EUT
       : TBD
TD ref
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
       { QE1 User receives the Call }
TP id
      : TP PMR 1412 01
summary : 'Some numeric address are not permitted'
RQ ref : RQ_001_1409
TP type : interoperability
       : M1, M2
config ref: CF dPMR 01 I -- QE1 and EUT
       : TBD
TD ref
          EUT Complies_with_Standard_User_Interface and
with {
          QE1 and EUT in standby
ensure that
  when { EUT_User enters or selects a non_dialable_address and
                 presses dedicated send key
      { EUT indicates an error} -- audible or visible prompt
```

```
TP id : TP PMR 1415 01
summary : 'Radio receiving a talkgroup call - using wildcard'
RQ ref : RQ_001_1415
TP type : interoperability
Role : M1, M2
config ref: CF_dPMR_01_I -- QE1 and EUT
TD ref : TBD
with {
         QE1 and EUT in standby and
         QE1 Complies_with_Standard_User_Interface
ensure that {
 when { QE1 User enters or selects an EUT address
                     containing an asterisk_symbol 'in one of the last four digits' and
                presses the hash_key or dedicated_send_key }
 then { EUT_User receives a TalkGroup_Call }
TP id : TP_PMR_1415_02
summary : 'Radio receiving a talkgroup call'
RQ ref : RQ_001_1415
TP type : interoperability
Role
      : M1, M2
config ref: CF_dPMR_01_I -- QE1 and EUT
TD ref : TBD
with {
        (EUT 'programmed with a talkgroup address') and
         QE1 Complies with Standard User Interface and
         QE1 and EUT in standby
ensure that {
 when \{ QE1_User enters or selects the talkgroup_address of the EUT and
                presses the hash_key or dedicated_send_key }
 then { EUT User receives the TalkGroup Call }
TP id : TP PMR 1417 01
summary : 'Abbreviated dialled digit to address mapping'
RQ ref : RQ_001_1417
TP type : interoperability
Role
      : M1, M2
config ref: CF_dPMR_01_I -- QE1 and EUT
TD ref : TBD
with {
        (EUT Complies_with_Standard_User_Interface and
            abbreviated_dialling_available) and
         QE1 in standby
ensure that {
 when { EUT_User enters or selects an abbreviated dialling string of QE1 and
                presses the hash_key or dedicated_send_key }
 then { QE1_User receives the Call }
```

```
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, M2
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 }
: TP_PMR_1417_03
TP id
summary : 'Abbreviated dialling string with wildcard'
RQ ref : RQ_001_1417
TP type : interoperability
       : M1, M2
Role
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 }
TP id : TP PMR 1418 01
summary : 'Talkgroup call'
RQ ref : RQ_001_1418
TP type : interoperability
Role
       : M1, M2
config ref: CF_dPMR_01_I -- QE1 and EUT
TD ref : TBD
with {
          (EUT Complies_with_Standard_User_Interface and
              '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 }
```

```
TP id : TP_PMR_1418_02
summary : 'Talkgroup call'
RQ ref : RQ_001_1418
TP type : interoperability
Role
      : M1, M2
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 }
: TP PMR 1420 01
summary : 'Broadcast plan'
RQ ref : RQ_001_1420
TP type : interoperability
       : M1, M2
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 }
TP id : TP_PMR_1420_02
summary : 'Broadcast call - abbreviated dialling'
RQ ref : RQ_001_1420
TP type : interoperability
Role
       : M1, M2
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 }
```

```
TP id : TP_PMR_1421_01
summary : 'Status call'
RQ ref : RQ_001_1421
TP type : interoperability
Role
      : M1, M2
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 }
TP id : TP PMR 1421 02
summary : 'Status call - wrong status code entered'
RQ ref : RQ_001_1421
TP type : interoperability
      : M1, M2
Role
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}
TP id : TP_PMR_1423_01
summary : 'Force talkgroup service'
RQ ref : RQ_001_1423
TP type : interoperability
Role : M1, M2
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 }
```

```
TP id : TP_PMR_1423_02
summary : 'Force talkgroup service - abbreviated dialling'
RQ ref : RQ_001_1423
TP type : interoperability
Role
       : M1, M2
config ref: CF dPMR 01 I -- QE1 and EUT
TD ref : TBD
with {
         (EUT Complies_with_Standard_User_Interface and
             {\tt abbreviated\_dialling\_available}) \ \ {\tt 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 }
5.1.1.3
              Talking Party ID
      : TP_PMR_0803_01
       : M1, M2
```

TP id summary : 'Support of Talking Party ID' RQ ref : RQ_001_0803 TP type : interoperability Role config ref: CF dPMR 01 I -- QE1 and EUT TD ref : TBD (EUT and QE1 with powersave_disabled) and with { EUT in standby ensure that QE1 User makes an Individual Call to EUT } when { EUT indicates the address of QE1 } then TP id : TP PMR 0803 02 summary : 'Support of Talking Party ID' RQ ref : RQ_001_0803 TP type : interoperability Role : M1, M2 config ref: CF_dPMR_01_I -- QE1 and EUT TD ref : TBD (EUT and QE1 with powersave disabled) and with { EUT in standby ensure that

when { QE1 User makes a Group Call to EUT }

{ EUT indicates the address of QE1 }

then

5.1.2 Base Station framing

```
TP id : TP PMR 0409 01
summary : 'Mode 2 BS'
RQ ref : RQ_001_0409
TP type : interoperability
Role
       : BS2
config ref: CF dPMR 02 I -- QE1, QE2 and EUT
TD ref : TBD
        ( QE1 using a valid address and
with {
         EUT in standby
ensure that {
 when \{ QE1_User makes a Connection_Request addressed to QE2 to EUT \}
 then
       { EUT transmits the Connection Request on the downlink and
         QE2 receives the Connection Request}
TP id : TP PMR 0409 02
summary : 'Mode 2 BS'
RQ ref : RQ_001_0409
TP type : interoperability
       : BS2
config ref: CF dPMR 02 I -- QE1, QE2 and EUT
TD ref : TBD
        ( QE1 not using a valid address and
with {
         EUT in standby
ensure that
        QE1_User makes a Connection_Request to EUT }
 when
 then
       { EUT does not transmit the Connection Request on the downlink }
: TP PMR 0410 01
summary : 'Mode 2 BS'
RQ ref : RQ 001 0410
TP type : interoperability
Role : BS2
config ref: CF_dPMR_02_I -- QE1, QE2 and EUT
TD ref : TBD
with {
        ( QE1 and QE2 in standby and configured polite_to_own_CC
          and EUT transmits a Connection_Request addressed to QE2 on the downlink
ensure that
 when { QE2 makes an acknowledgement }
 then
      { EUT transmits the acknowledgement on the downlink and QE1 receives the acknowledgement}
TP id : TP_PMR_0411_01
summary : 'Mode 2 BS'
RQ ref : RQ 001 0411
TP type : interoperability
Role
       : BS2
config ref: CF dPMR 02 I -- QE1, QE2 and EUT
TD ref : TBD
with {
        ( QE1 using a valid address and
         EUT in standby
ensure that {
 when { QE1_User makes a PTT_Call to QE2 to EUT }
      { EUT transmits the PTT_Call on the downlink and QE2 receives the PTT_Call}
 then
```

```
TP id : TP_PMR_0413_01
summary : 'Mode 2 BS'
RQ ref : RQ_001_0413
TP type : interoperability
Role
       : BS2
config ref: CF dPMR 02 I -- QE1, QE2 and EUT
TD ref : TBD
with {
       ( QE1 using a valid address and
         EUT in standby
ensure that {
 when { QE1_User makes a Disconnection_Request to EUT } then { EUT transmits the Disconnection_Request to QE2 on the downlink and returns to idle }
TP id : TP_PMR_0414_01
summary : 'Mode 2 BS'
RQ ref : RQ_001_0414
TP type : interoperability
Role
      : BS2
config ref: CF_dPMR_02_I -- QE1, QE2 and EUT
TD ref : TBD
with {
        ( QE1 and QE2 using valid addresses and
         EUT in standby
ensure that
 when { QE1 User makes a Status Request to QE2 to EUT }
       { EUT transmits the Status_Request on the downlink and QE2 receives the Status Request}
  then
TP id : TP_PMR_0415_01
summary : 'Mode 2 BS'
RQ ref : RQ_001_0415
TP type : interoperability
Role
       : BS2
config ref: CF_dPMR_02_I -- QE1, QE2 and EUT
      : TBD
TD ref
         ( QE1 and QE2 using valid addresses and
with {
          EUT in standby
ensure that
  when
      { QE2 User makes a Status Response to QE1 to EUT }
       { EUT transmits the Status_Response to QE1 on the downlink and returns to idle}
  then
TP id : TP_PMR 0417 01
summary : 'Mode 2 BS'
RQ ref : RQ_001_0417
TP type : interoperability
Role
       : BS2
config ref: CF_dPMR_02_I -- QE1, QE2 and EUT
TD ref : TBD
with {
         ( QE1 and QE2 using valid addresses and
           QE3 configured with Divert Address
          EUT in standby and QE1_User makes a Call_Divert to EUT
ensure that {
  when
       { QE2_User makes a Call to QE1 }
       EUT transmits the Call to the Divert Address on the downlink
  then
         and QE3 receives the Call then returns to idle}
```

```
TP id : TP_PMR_0418_01
summary : 'Mode 2 BS'
RQ ref : RQ_001_0418
TP type : interoperability
Role
       : BS2
config ref: CF dPMR 02 I -- QE1, QE2, QE3 and EUT
TD ref : TBD
with {
        ( QE1 and QE2 using valid addresses and
          QE3 configured with Divert_Address
          EUT in standby and QE1 User makes a Call Divert to EUT
          and QE2 User makes a Call Divert cancel to EUT
ensure that
 when { QE2_User makes a Call to QE1 }
  then
       { EUT transmits the Call to the Divert_Address on the downlink and QE3 receives the Call
then returns to idle
TP id : TP PMR 0418 02
summary : 'Mode 2 BS'
RQ ref : RQ_001_0418
TP type : interoperability
     : BS2
Role
config ref: CF_dPMR_02_I -- QE1, QE2, QE3 and EUT
TD ref : TBD
with {
        ( QE1 and QE2 using valid addresses and
          QE3 configured with Divert Address
          EUT in standby and QE1 User makes a Call Divert to EUT
          and QE1 User makes a Call Divert cancel to EUT
ensure that {
 when { QE2 User makes a Call to QE1 }
 then { EUT transmits the Call to the Divert_Address on the downlink and QE1 receives the Call
then returns to idle}
5.1.3
          Channel Access
TP id : TP PMR 1008 01
       : M1, M2
        ((EUT and QE1 and QE2) using the same Group ID and
```

```
summary : 'Channel access in own call '
RQ ref : RQ_001_1008
TP type : interoperability
Role
config ref: CF_dPMR_02_I -- QE1, QE2 and EUT
TD ref : TBD
with {
                                using compatible vocoders) and
          QE1 is transmitting
ensure that {
 when
       { EUT_User makes PTT Call }
  then { QE2 User receives the PTT Call from EUT}
TP id : TP PMR 1008 02
summary : 'Channel access in own call '
RQ ref : RQ_001_1008
TP type : interoperability
       : M1, M2
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}
```

```
TP id : TP PMR 1009 01
summary : 'Channel access when polite to own colour code'
RQ ref : RQ_001_1009
TP type : interoperability
     : M1, M2
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 }
      { QE2_User does not receive PTT_Call from EUT }
 then
TP id : TP_PMR_1010_01
summary : 'Channel access when impolite'
RQ ref : RQ_001_1010
TP type : interoperability
Role
      : M1, M2
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
      { EUT_User makes PTT Call }
 when
      QE2 User receives PTT Call from EUT }
 then
TP id : TP PMR 1011 01
summary : 'Channel access when polite to own group and channel occupied by members of own group'
RQ ref : RQ_001_1011
TP type : interoperability
Role
      : M1, M2
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
: TP_PMR_1012_01
TP id
summary : 'Repeated acknowledgements when RF channel is busy'
RQ ref : RQ 001 1012
TP type : interoperability
       : M1, M2
Role
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}
      { QE2_User receives 'no more than four' acknowledgement from EUT}
 then
```

```
TP id : TP_PMR_1024_01
summary : 'Automatic call termination by timeout timer '
RQ ref : RQ_001_1024
TP type : interoperability
Role
      : M1, M2
config ref: CF_dPMR_02_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
       { EUT_User makes a Voice_Transmission addressed to QE1 and
 when
         PTT Key is not released
        QE1_User receives Voice_Transmission and
         EUT terminates the Voice Transmission after TOT_value seconds }
TP id : TP PMR 1024 02
{\color{red} \textbf{summary}} \ : \ \textbf{'Automatic call termination by timeout timer and call resume'}
RQ ref : RQ_001_1024
TP type : interoperability
Role
      : M1, M2
config ref: CF_dPMR_01_I -- QE1 and EUT
TD ref : TBD
         (EUT and QE1 powersave_disabled) and EUT configured with a valid TOT_value and
with {
         EUT in call timeout terminated
ensure that {
 when { EUT_User releases and presses the PTT_Key again }
       { QE1 User receives Voice Transmission }
OACSU
5.1.3.1
      : TP_PMR_0840_01
TP id
summary : 'Support receiving of OACSU call'
RQ ref : RQ_001_0840
TP type : interoperability
       : M1, M2
Role
config ref: CF_dPMR_01_I -- QE1 and EUT
TD ref : TBD
with {
         (EUT and QE1 powersave disabled and
                    \overset{-}{\text{using\_compatible\_vocoders}} \ \operatorname{\texttt{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 }
TP id : TP_PMR_0840_02
summary : 'Support sending of OACSU call'
RQ ref : RQ 001 0840
TP type : interoperability
Role
      : M1, M2
config ref: CF dPMR 01 I -- QE1 and EUT
TD ref : TBD
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 }
```

```
TP id : TP_PMR_1424_01
summary : 'Support of cancel call set-up'
RQ ref : RQ_001_1424
TP type : interoperability
Role
      : M1, M2
config ref: CF_dPMR_01_I -- QE1, QE2 and EUT
TD ref : TBD
        (EUT OACSU enabled and
with {
             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 }
```

5.1.3.2 PTT Call

```
TP id : TP_PMR_0801_01
summary : 'A radio can be called by another'
RQ ref : RQ_001_0801
TP type : interoperability
Role
     : M1, M2
config ref: CF_dPMR_01_I -- QE1 and EUT
powersave disabled and
                     {\tt using\_compatible\_vocoders}) \ \ {\tt and}
          EUT in standby
ensure that
         QE1_User makes a PTT_Call to EUT }
 when
       EUT_User receives the PTT_Call }
  then
: TP PMR 0801 02
summary : 'A radio can call another'
RQ ref : RQ_001_0801
TP type : interoperability
Role
       : M1, M2
config ref: CF_dPMR_01_I -- QE1 and EUT
TD ref : TBD
         (EUT and QE1 using same Group_ID and
with {
                    powersave_disabled and
                    using_compatible_vocoders) and
          EUT in standby
ensure that
       { EUT User makes a PTT Call }
 when
       { QE1 User receives the PTT Call }
```

5.1.4 END frame

Void.

5.1.5 Message frame

5.1.5.1 Message Information field

Void.

5.1.6 Payload

5.1.6.1 Packet data

```
: TP PMR 0808 01
summary : 'Support receiving of type 3 short data messages'
RQ ref : RQ_001_0808
TP type : interoperability
     : M1, M2
config ref: CF_dPMR_01_I -- QE1 and EUT
TD ref : TBD
       (EUT and QE1 with powersave_disabled) and
with {
         EUT in standby
ensure that
 when { QE1_User sends a T3_Transmission addressed to EUT }
 then { EUT User receives the T3 Transmission }
: TP PMR 0808 02
summary : 'Support sending of type 3 short data messages'
RQ ref : RQ_001_0808
TP type : interoperability
Role
      : M1, M2
config ref: CF dPMR 01 I -- QE1 and EUT
TD ref : TBD
        (EUT and QE1 with powersave_disabled) and
with {
         QE1 in standby
ensure that {
 when { EUT User sends a T3 Transmission addressed to QE1 }
 then { QE1 User receives the T3 Transmission }
```

5.1.6.2 Short data

```
TP id : TP_PMR_0502_01
summary : 'Short data delivery'
RQ ref : RQ_001_0502
TP type : interoperability
    : M1, M2
config ref: CF_dPMR_01_I -- QE1 and EUT
TD ref : TBD
       ( EUT and QE1 using same Group_ID and
with {
                   powersave_disabled ) and
         EUT in standby
ensure that
 when { QE1_User makes a binary SDD_Call to EUT }
      EUT_User receives the binary SDD_Call }
 then
: TP PMR 0502 02
summary : 'Short data delivery'
RQ ref : RQ_001_0502
TP type : interoperability
      : M1, M2
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 }
      { QE1 User receives the binary SDD Call }
```

```
TP id : TP PMR 0503 01
summary : 'Short data delivery'
RQ ref : RQ_001_0503
TP type : interoperability
Role : M1, M2
config ref: CF_dPMR_01_I -- QE1 and EUT
TD ref : TBD
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 }
TP id
      : TP PMR 0503 02
summary : 'Short data delivery'
RQ ref : RQ_001_0503
TP type : interoperability
Role : M1, M2
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 }
TP id : TP_PMR_0504_01
summary : 'Short data delivery'
RQ ref : RQ_001_0504
TP type : interoperability
Role : M1, M2
config ref: CF_dPMR_01_I -- QE1 and EUT
TD ref : TBD
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 }
TP id : TP_PMR 0504 02
summary : 'Short data delivery'
RQ ref : RQ_001_0504
TP type : interoperability
    : M1, M2
Role
config ref: CF_dPMR_01_I -- QE1 and EUT
TD ref : TBD
       (EUT and QE1 using same Group ID and
with {
                  powersave disabled ) and
        EUT in standby
ensure that {
 when { EUT User makes a ISO7 SDD Call }
 then { QE1_User receives the ISO7 SDD_Call }
```

```
TP id : TP_PMR_0505_01
summary : 'Short data delivery'
RQ ref : RQ_001_0505
TP type : interoperability
Role
      : M1, M2
config ref: CF_dPMR_01_I -- QE1 and EUT
powersave_disabled ) and
         EUT in standby
ensure that {
 when { QEI_User makes a ISO8 SDD_Call to EUT }
then { EUT_User receives the ISO8 SDD_Call }
TP id
     : TP PMR 0505 02
summary : 'Short data delivery'
RQ ref : RQ_001_0505
TP type : interoperability
Role
      : M1, M2
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 }
TP id : TP PMR 0506 01
summary : 'Short data delivery'
RQ ref : RQ_001_0506
TP type : interoperability
      : M1, M2
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 {
      { QE1_User makes a NMEA SDD_Call to EUT }
 when
 then { EUT_User receives the NMEA SDD_Call }
TP id : TP PMR 0506 02
summary : 'Short data delivery'
RQ ref : RQ_001_0506
TP type : interoperability
Role
      : M1, M2
config ref: CF_dPMR_01_I -- QE1 and EUT
TD ref : TBD
powersave disabled ) and
         EUT in standby
ensure that {
 when { EUT_User makes a NMEA SDD_Call }
 then { QE1 User receives the NMEA SDD Call }
```

5.1.6.3 T1 data

```
TP id
      : TP_PMR_0807_01
summary : 'Support receiving of type 1 group short data messages'
RQ ref : RQ_001_0807
TP type : interoperability
Role
       : M1, M2
config ref: CF_dPMR_01_I -- QE1 and EUT
TD ref : TBD
       (EUT and QE1 using same Group_ID and
with {
                    powersave_disabled) and
         EUT in standby
ensure that {
 when { QE1_User sends a T1_Transmission to EUT }
       { EUT User receives the T1 Transmission }
 then
: TP PMR 0807 02
summary : 'Support sending of type 1 group short data messages'
RQ ref : RQ_001_0807
TP type : interoperability
       : M1, M2
config ref: CF_dPMR_01_I -- QE1 and EUT
TD ref : TBD
        (EUT and QE1 using same Group ID and
with {
                    powersave_disabled) and
         QE1 in standby
ensure that
 when
      { EUT_User sends a T1_Transmission to QE1 }
      QE1 User receives the T1 Transmission
TP id : TP PMR 0810 01
summary : 'Support of type 1 individual short data messages'
RQ ref : RQ_001_0810
TP type : interoperability
      : M1, M2
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 \}
       { EUT User receives the T1 Transmission }
 then
: TP PMR 0810 02
summary : 'Support sending of type 1 individual short data messages'
RQ ref : RQ_001_0810
TP type : interoperability
Role
     : M1, M2
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 }
      { QE1 User receives the T1 Transmission }
  then
```

5.1.6.4 T2 data

```
TP id
     : TP_PMR_0806_01
summary : 'Support receiving of type 2 group short data messages'
RQ ref : RQ_001_0806
TP type : interoperability
Role
      : M1, M2
config ref: CF_dPMR_01_I -- QE1 and EUT
TD ref : TBD
      (EUT and QE1 using same Group_ID and
with {
                  powersave_disabled) and
         EUT in standby
ensure that {
 when { QE1_User sends a T2_Transmission to EUT }
      { EUT User receives the T2 Transmission }
 then
: TP PMR 0806 02
summary : 'Support sending of type 2 group short data messages'
RQ ref : RQ_001_0806
TP type : interoperability
      : M1, M2
config ref: CF_dPMR_01_I -- QE1 and EUT
TD ref : TBD
       (EUT and QE1 using same Group ID and
with {
                   powersave_disabled) and
         QE1 in standby
ensure that
 when
      { EUT_User sends a T2_Transmission to QE1 }
      QE1 User receives the T2 Transmission
TP id : TP PMR 0809 01
TP type : interoperability
      : M1, M2
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 \}
      { EUT User receives the T2 Transmission }
 then
: TP PMR 0809 02
summary : 'Support sending of type 2 individual short data messages'
RQ ref : RQ_001_0809
TP type : interoperability
Role
     : M1, M2
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 }
      { QE1 User receives the T2 Transmission }
 then
```

5.1.6.5 Voice

5.1.6.5.1 Voice and attached data

```
: TP_PMR_0837_01
TP id
summary : 'Support receiving of short attached data'
RQ ref : RQ 001 0837
TP type : interoperability
Role
       : M1, M2
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 {
      { QE1_User makes a Group_AD_Call to EUT }
       { EUT User receives the Group Call and the AD test data }
 then
TP id : TP PMR 0837 02
summary : 'Support sending of short attached data'
RQ ref : RQ_001_0837
TP type : interoperability
Role : M1, M2
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 \{\ \mbox{EUT\_User makes a Group\_AD\_Call to QE1}\ \}
 then
       { QE1_User receives the Group_Call and the AD_test_data }
TP id : TP PMR 0844 01
summary : 'Support receiving of short attached data'
RQ ref : RQ_001_0844
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
          QE1 preset with AD test data and
          EUT in standby
ensure that
 when
         QE1_User sends a Individual_AD_Call addressed to EUT }
       { EUT_User receives the Individual_Call and the AD_test_data }
 then
```

```
TP id : TP_PMR_0844_02
summary : 'Support sending of short attached data'
RQ ref : RQ_001_0844
TP type : interoperability
Role
       : M1, M2
config ref: CF_dPMR_01_I -- QE1 and EUT
TD ref : TBD with { (EU)
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 }
5.1.6.5.2
                Late entry
TP id : TP PMR 0802 01
summary : 'Support of Late Entry with individual address'
RQ ref : RQ 001 0802
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
          EUT switched_off and
          QE1 is transmitting an Individual_Call addressed to the EUT
ensure that {
  when
         EUT is switched on }
       { EUT User receives the remainder of the Individual Call after a 'short delay' }
  then
TP id : TP PMR 0802 02
summary : 'Support of Late Entry with wildcard address'
RQ ref : RQ_001_0802
TP type : interoperability
      : M1, M2
Role
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' }
TP id
      : TP PMR 0802 03
summary : 'Support of Late Entry with Talk Group address'
RQ ref : RQ_001_0802
{f TP} type : interoperability
Role
       : M1, M2
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 }
       { EUT_User receives the remainder of the TalkGroup_Call after a 'short delay' }
  then
```

5.1.6.5.3 Slow user data

```
TP id : TP_PMR_0836 01
summary : 'Support receiving of slow user data'
RQ ref : RQ_001_0836
TP type : interoperability
Role
      : M1, M2
config ref: CF dPMR 01 I -- QE1 and EUT
TD ref : TBD
         (EUT and QE1 using same Group_ID and
with {
                    powersave disabled and
                    using compatible vocoders) and
         QE1 preset with SLD test data and
         EUT in standby
ensure that {
       { QE1 User makes a Group SLD Call to EUT }
 when
       { EUT User receives the Group Call and the SLD test data }
 then
: TP_PMR_0836 02
TP id
summary : 'Support sending of slow user data'
RQ ref : RQ_001_0836
TP type : interoperability
Role
      : M1, M2
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 }
       { QE1_User receives the Group_Call and the SLD_test_data }
TP id : TP PMR 0843 01
summary : 'Support receiving of slow user data'
RQ ref : RQ_001_0843
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
          QE1 preset with SLD test data and
          EUT in standby
ensure that {
 when { QE1 User sends an Individual SLD Call addressed to EUT }
       { EUT User receives the Individual Call and the SLD test data }
 then
```

5.1.7 Power save

Void.

5.1.8 Superframe

5.1.8.1 Traffic channel

Void.

5.1.8.2 Voice TCH

Void.

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-nnn-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
def entity BS2
-- 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)
                              -- call with only numeric address
def event TalkGroup_Call
                              -- any dialled call
def event Call
                                         -- Group or individual call
def event Voice Transmission
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 sld def event Group_SLD_Call -- Group call including sld def event Individual_AD_Call -- Individual call including sld def event Group AD_Call
                                         -- Individual call including slow user data
                                        -- Group call including slow user data
                                         -- Individual call including appended data
def event Group_AD_Call
                                         -- Group call including appended data
                                         -- Short data delivery call
def event SDD Call
def event Broadcast_Call
def event OACSU Call
                                          -- Individual call using off air call set up
def event acknowledgement
def event Connection Request
                                             -- call set up request
def event Disconnection_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
def event preservation frames
def event Call_Divert
def event idle frames
-- 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
                                          -- NMEA sentence format data
def value NMEA
def value remainder
def value colour code
                                -- "call group" means "group" in dPMR sense but needed since "group"
def value call 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 signifact 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 value downlink
def value Divert Address
def unit seconds
def condition standby
def condition switched on
def condition switched off
def condition powersave enabled
def condition powersave_disabled
                                          -- State if radio is that call got terminated by timeout
def condition call_timeout_terminated
(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 transmit
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
                 -- valid for BS2 implies an address that is permitted to access
def word valid
def word selected
def word does
def word again
```

History

Document history			
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