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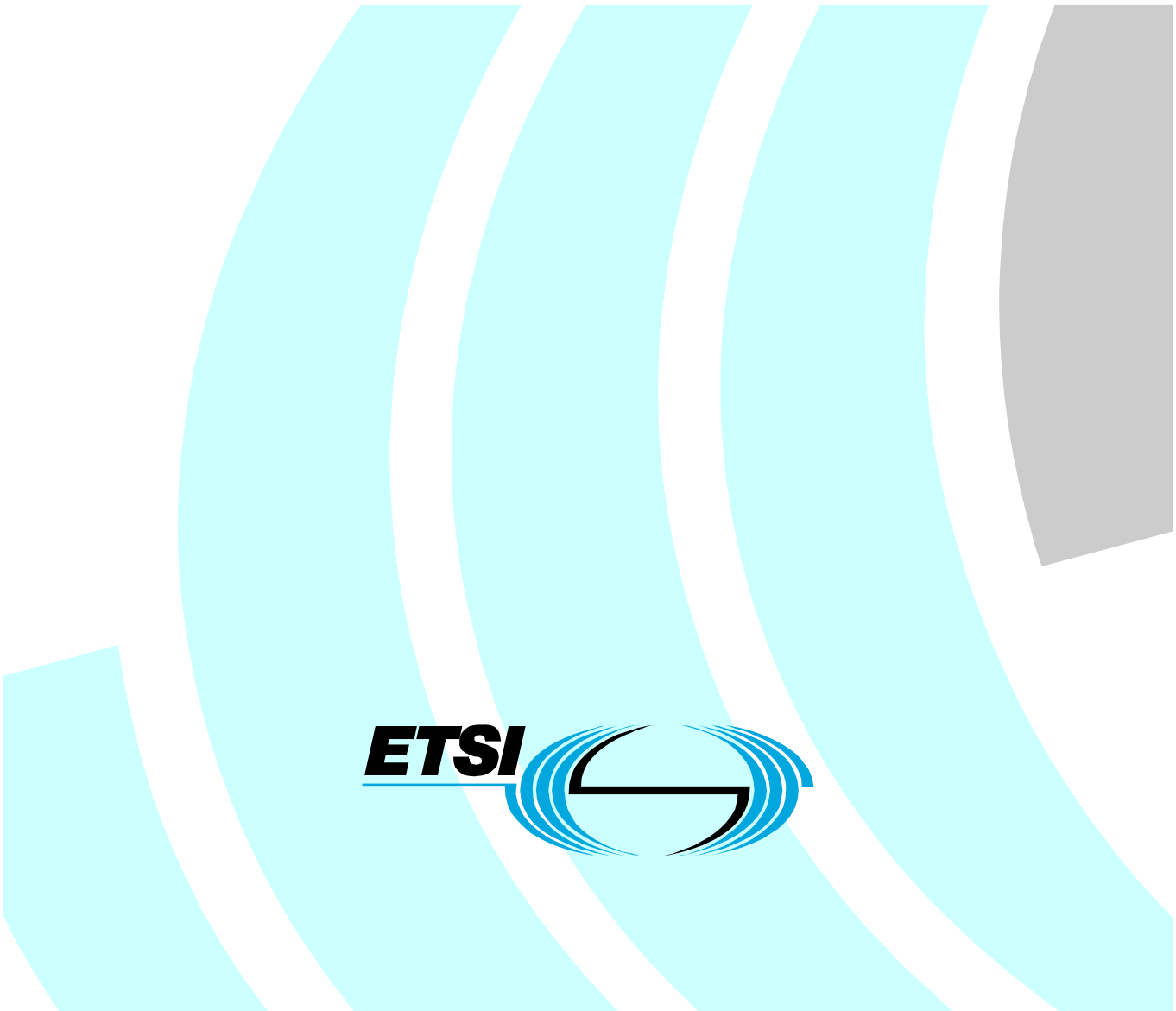
Technical Specification

Electromagnetic compatibility and Radio spectrum Matters (ERM); Interoperability testing for the Peer-to-Peer Digital Private Mobile Radio; Part 6: Test Descriptions (TD)



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ETSI

650 Route des Lucioles
F-06921 Sophia Antipolis Cedex - FRANCE

Tel.: +33 4 92 94 42 00 Fax: +33 4 93 65 47 16

Siret N° 348 623 562 00017 - NAF 742 C
Association à but non lucratif enregistrée à la
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Contents

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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 6 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 contains the Test Descriptions (TD) for interoperability testing of the 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 as defined in TS 102 490 [1]. The objective of this test specification is to provide a basis for interoperability tests for ERM Peer-to-Peer Digital Private Mobile Radio equipment giving a high probability of inter-operability between different manufacturer's ERM DMR equipment.

2 References

References are either specific (identified by date of publication and/or edition number or version number) or non-specific.

- For a specific reference, subsequent revisions do not apply.
- Non-specific reference may be made only to a complete document or a part thereof and only in the following cases:
  - if it is accepted that it will be possible to use all future changes of the referenced document for the purposes of the referring document;
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NOTE: While any hyperlinks included in this clause were valid at the time of publication ETSI cannot guarantee their long term validity.

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] Void.

[3] Void.

[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.

Not applicable.

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
OACSU	Off Air Call Set-Up
PTT	Push To Talk
RC	Requirements Catalogue
RQ	ReQuirement
TD	Test Description
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 specification of test descriptions. The numbering is not contiguous so that new TDs can be added at a later date without the need to completely renumber the TSS groups.

The test descriptions 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 TD.

```
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"
Group 2.3 "Individual Short Data Message"
Group 2.3.1 "ISDM Free Text Message"
Group 2.3.2 "ISDM Precoded Message"
```

```
Group 2.3.3 "ISDM Short File Transfer"
Group 2.3.4 "ISDM Status Message"
Group 2.4 "OACSU"
Group 2.5 "Short Appended Data"
Group 2.6 "Slow User Data"
Group 2.7 "Type 3 data"
Group 3 "ISF"
```

5 Test Descriptions (TD)

Configurations that are referenced by test descriptions are shown in annex A.

5.1 ISF CSF Common

```
Group 1 'ISF CSF Common'
```

5.1.1 All Call

```
Group 1.1 'All Call'
```

Test Description			
Identifier:	TD_PMR_0824_01	**Test Purpose:**	TP_PMR_0824_01
Summary:	'Support of all call with any specific callee ID'		
Roles:	ISF	**Configuration:**	CF_IDPMRISF_01
References:	RQ_001_0824, RQ_001_0824		

```
-- ISF QE1 and EUT
with {   QE1 and EUT in standby and
                    using_compatible_vocoders
     }
ensure that {
  when  { QE1 uses Common_ID 255 and
          EUT uses another Common_ID and
          QE1_User makes a Call to EUT  }
  then  { EUT_User receives the Call }
}

-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
```

Pre-test conditions:	Select same RF channel for both QE1 and EUT Select 255 as Common ID on QE1 Select a different Common ID on EUT		
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	Cause QE1 to make a call		
2	Check that EUT receives the call	yes	no
Observations:			

Test Description			
Identifier:	TD_PMR_0824_02	**Test Purpose:**	TP_PMR_0824_02
Summary:	'All call with all call callee ID'		
Roles:	ISF	**Configuration:**	CF_IDPMRISF_01
References:	RQ_001_0824, RQ_001_0824		

```
-- ISF QE1 and EUT
with {   QE1 and EUT in standby and
                    using_compatible_vocoders
     }
ensure that {
  when  { QE1 and EUT using Common_ID 255 and
          QE1_User makes a Call to EUT  }
  then  { EUT_User receives the Call }
}

-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
```

Pre-test conditions:	Select same RF channel for both QE1 and EUT Select 255 as Common ID on both QE1 and EUT

Step	Test Sequence	Verdict	
		Pass	**Fail**
1	Cause QE1 to make a call		
2	Check that EUT receives the call	Yes	No
Observations:			

Test Description			
Identifier:	TD_PMR_0824_03	**Test Purpose:**	TP_PMR_0824_03
Summary:	'All call with all call callee ID'		
Roles:	ISF	**Configuration:**	CF_IDPMRISF_01
References:	RQ_001_0824, RQ_001_0824		

```
-- ISF QE1 and EUT
with {   QE1 and EUT in standby and
                    using_compatible_vocoders

     }
ensure that {
  when  { EUT uses Common_ID 255 and
          QE1 uses another Common_ID and
          QE1_User makes a Call  }
  then  { EUT_User does not receive the Call }
}

-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
```

Pre-test conditions:	Select same RF channel for both QE1 and EUT Select 255 as Common ID on EUT Select a different value of Common ID on QE1

Step	Test Sequence	Verdict	
		Pass	**Fail**
1	Cause QE1 to make a call		
2	Check if EUT receives the call	No	Yes
Observations:			

Test Description			
Identifier:	TD_PMR_0858_01	**Test Purpose:**	TP_PMR_0858_01
Summary:	All call with all call callee ID		
Roles:	ISF	**Configuration:**	CF_IDPMRISF_01
References:	RQ_001_0858, RQ_001_0858		

```
-- ISF QE1 and EUT
with {   QE1 and EUT in standby and
                    using_compatible_vocoders

     }
ensure that {
  when  { EUT uses Common_ID 255 and
          QE1 uses another Common_ID and
          QE1_User makes a Call  }
  then  { EUT_User does not receive the Call }
}

-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
```

Pre-test conditions:	Select same RF channel for both QE1 and EUT Select 255 as Common ID on EUT and QE1

Step	Test Sequence	Verdict	
		Pass	Fail
1	Cause QE1 to make a call		
2	Check if EUT receives the call	Yes	No
Observations:			

Test Description			
Identifier:	TD_PMR_0858_02	**Test Purpose:**	TP_PMR_0858_02
Summary:	All call with all call callee ID		
Roles:	ISF	**Configuration:**	CF_IDPMRISF_01
References:	RQ_001_0858, RQ_001_0858		

```
-- ISF QE1 and EUT
with {   QE1 and EUT in standby and
                    using_compatible_vocoders

     }
ensure that {
  when  { EUT uses Common_ID 255 and
          QE1 uses Common_ID 255 and
          QE1_User makes a Call  }
  then  { EUT_User does receive the Call }
}

-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
```

Pre-test conditions:	Select same RF channel for both QE1 and EUT Select 255 as Common ID on EUT Select a different value of Common ID on QE1

Step	Test Sequence	Verdict	
		Pass	Fail
1	Cause QE1 to make a call		
2	Check if EUT receives the call	No	Yes
Observations:			

```
End group 1.1
```

5.1.2 channel access

```
Group 1.2 'Channel Access'
```

Test Description			
Identifier:	TD_PMR_1006_01	**Test Purpose:**	TP_PMR_1006_01
Summary:	'Automatic call termination within 180 seconds '		
Roles:	ISF	**Configuration:**	CF_IDPMRISF_01
References:	RQ_001_1006		

```
-- ISF QE1 and EUT
with {     (EUT and QE1 using same Common_ID and
                        powersave_disabled and
                        using_compatible_vocoders) and
            QE1 and EUT in standby
     }
ensure that {
  when  { EUT_User makes a PTT_Call and
          PTT_Key is not released }
  then  { QE1_User receives PTT_Call and
          EUT terminates the PTT_Call after 180 seconds}
}

-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
```

Pre-test conditions:	Select same RF channel for both QE1 and EUT Select same Common ID for both QE1 and EUT		
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	Cause EUT to make a voice call to QE1 and start timer		
2	Keep EUT transmitting until QE1 stops receiving the voice call		
3	Stop timer when QE1 stops receiving		
4	Check that timer value is 180 seconds or less	Yes	No
Observations:			

Test Description			
Identifier:	TD_PMR_1006_02	**Test Purpose:**	TP_PMR_1006_02
Summary:	'Automatic call termination within 180 seconds '		
Roles:	CSF	**Configuration:**	CF_IDPMRCSF_01
References:	RQ_001_1006		

```
-- CSF QE1 and EUT
with {     (EUT and QE1 powersave_disabled and
                        using_compatible_vocoders)
           QE1 in standby
     }
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 180 seconds }
}

-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
```

Pre-test conditions:	Select same RF channel for both QE1 and EUT Select or enter a talkgroup address for QE1 on EUT		
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	Cause EUT to make a voice call to QE1 and start timer		
2	Keep EUT transmitting until QE1 stops receiving the voice call		
3	Stop timer when QE1 stops receiving		
4	Check that timer value is 180 seconds or less	Yes	No
Observations:			

Test Description			
Identifier:	TD_PMR_1006_03	**Test Purpose:**	TP_PMR_1006_03
Summary:	'Automatic call termination within 180 seconds and call resume'		
Roles:	ISF	**Configuration:**	CF_IDPMRISF_01
References:	RQ_001_1006		

```
-- ISF QE1 and EUT
with {     (EUT and QE1 using same Common_ID and
                        powersave_disabled and
                        using_compatible_vocoders) and
           EUT in call_timeout_terminated
     }
ensure that {
  when  { EUT_User releases and presses PTT_Key again }
  then  { QE1_User receives PTT_Call }
}


-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
```

Pre-test conditions:	Select same RF channel for both QE1 and EUT Select same Common ID for both QE1 and EUT		
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	Cause EUT to transmit until QE1 stops receiving the call		
2	De-key the transmitter of the EUT		
3	Re-key the transmitter of the EUT		
4	Check if QE1 starts to receive the call from EUT	Yes	No
Observations:			

Test Description			
Identifier:	TD_PMR_1006_04	**Test Purpose:**	TP_PMR_1006_04
Summary:	'Automatic call termination within 180 seconds and call resume'		
Roles:	CSF	**Configuration:**	CF_IDPMRCSF_01
References:	RQ_001_1006		

```
-- CSF QE1 and EUT
with {     (EUT and QE1 powersave_disabled) and
           EUT in call_timeout_terminated
     }
ensure that {
  when  { EUT_User releases and presses the PTT_Key again }
  then  { QE1_User receives Voice_Transmission }
}


-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
```

Pre-test conditions:	Select same RF channel for both QE1 and EUT Select or enter a talkgroup address for QE1 on EUT		
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	Cause EUT to transmit until QE1 stops receiving the call		
2	De-key the transmitter of the EUT		
3	Re-key the transmitter of the EUT		
4	Check if QE1 starts to receive the call from EUT	Yes	No
Observations:			

Test Description			
Identifier:	TD_PMR_1008_01	**Test Purpose:**	TP_PMR_1008_01
Summary:	'Channel access in own call '		
Roles:	ISF	**Configuration:**	CF_IDPMRISF_02
References:	RQ_001_1008, RQ_001_1008		

```
-- ISF QE1, QE2 and EUT
with {     ((EUT and QE1 and QE2) using the same Common_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}
}

-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
```

Pre-test conditions:	Select same RF channel for QE1, QE2 and EUT Select same Common ID for QE1, QE2 and EUT		
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	Cause QE1 to make a voice call to QE2		
2	Cause EUT to make a voice call to QE2 while QE1 is still transmitting		
3	Check if QE2 receives the voice call from EUT	Yes	No
Observations:			

Test Description			
Identifier:	TD_PMR_1008_02	**Test Purpose:**	TP_PMR_1008_02
Summary:	'Channel access in own call '		
Roles:	CSF	**Configuration:**	CF_IDPMRCSF_02
References:	RQ_001_1008		

```
-- CSF QE1, QE2 and EUT
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}
}

-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
```

Pre-test conditions:	Select same RF channel for QE1, QE2 and EUT Select same Talkgroup address for QE1, QE2 and EUT		
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	Cause QE1 to make a voice call to QE2		
2	Cause EUT to make a voice call to QE2 while QE1 is still transmitting		
3	Check if QE2 receives the voice call from EUT	Yes	No
Observations:			

Test Description			
Identifier:	TD_PMR_1009_01	**Test Purpose:**	TP_PMR_1009_01
Summary:	'Channel access when ISF polite to own colour code'		
Roles:	ISF	**Configuration:**	CF_IDPMRISF_02
References:	RQ_001_1009, RQ_001_1009		

```
-- ISF QE1, QE2 and EUT
with {    ((EUT and QE1 and QE2) using same Common_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 }
}

-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
```

Pre-test conditions:	Select same RF channel for QE1, QE2 and EUT Select same Common ID for QE1, QE2 and EUT EUT configured to be polite to own colour code		
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	Cause QE1 to make a voice call to QE2		
2	Cause EUT to make a voice call to QE2 while QE1 is still transmitting		
3	Check if QE2 receives the voice call from EUT	No	Yes
Observations:			

Test Description			
Identifier:	TD_PMR_1010_01	**Test Purpose:**	TP_PMR_1010_01
Summary:	'Channel access when ISF impolite'		
Roles:	ISF	**Configuration:**	CF_IDPMRISF_02
References:	RQ_001_1010, RQ_001_1010		

```
-- ISF QE1, QE2 and EUT
with {    ((EUT and QE1 and QE2) using_compatible_vocoders) and
           (EUT and QE2 using the same Common_ID) and
           (EUT and QE1 not using the same Common_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 }
}

-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
```

Pre-test conditions:	Select same RF channel for QE1, QE2 and EUT Select same Common ID for QE1, QE2 and EUT EUT configured to be impolite		
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	Cause QE1 to make a voice call to QE2		
2	Cause EUT to make a voice call to QE2 while QE1 is still transmitting		
3	Check if QE2 receives the voice call from EUT	Yes	No
Observations:			

Test Description			
Identifier:	TD_PMR_1011_01	**Test Purpose:**	TP_PMR_1011_01
Summary:	'Channel access when polite to own group and channel occupied by members of own group'		
Roles:	CSF	**Configuration:**	CF_IDPMRCSF_02
References:	RQ_001_1011, RQ_001_1011		

```
-- CSF QE1, QE2 and EUT
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
}

-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
```

Pre-test conditions:	Select same RF channel for QE1, QE2 and EUT QE1, QE2 and EUT are all members of the same talkgroup EUT is configured to be polite to own talkgroup		
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	Cause QE1 to make a voice call to QE2		
2	Cause EUT to make a voice call to QE2 while QE1 is still transmitting		
3	Check if QE2 receives the voice call from EUT	No	Yes
Observations:			

Test Description			
Identifier:	TD_PMR_1012_01	**Test Purpose:**	TP_PMR_1012_01
Summary:	'Repeated acknowledgements when RF channel is busy'		
Roles:	CSF	**Configuration:**	CF_IDPMRCSF_01
References:	RQ_001_1012, RQ_001_1012		

```
-- CSF QE1, QE2 and EUT
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}
}

-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
```

Pre-test conditions:	Select same RF channel for QE1, QE2 and EUT QE1, QE2 and EUT are programmed with the same talkgroup address		
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	Cause QE1 to make a voice call to QE2		
2	Cause QE2 to make a connection request to EUT		
3	QE2 user receives no more than four acknowledgement from EUT	Yes	No
4	QE2 receives all acknowledgements within 3 seconds	Yes	No
Observations:			

Test Description			
Identifier:	TD_PMR_1013_01	**Test Purpose:**	TP_PMR_1013_01
Summary:	'Channel access when CSF polite to own colour code'		
Roles:	CSF	**Configuration:**	CF_IDPMRCSF_02
References:	RQ_001_1013		

```
-- CSF QE1, QE2 and EUT
with {    ((EUT and QE1 and QE2) using the same colour_code and
                                 using_compatible_vocoders) and
            QE1 is transmitting Voice_Transmission to QE2
            EUT is polite_to_own_CC
     }
ensure that {
  when  { EUT_User makes Voice_Transmission addressed to QE2}
  then  { QE2_User does not receive Voice_Transmission from EUT }
}

-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
```

Pre-test conditions:	Select same RF channel for QE1, QE2 and EUT EUT is programmed with polite to own CC channel access Start a voice call between QE1 and QE2		
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	Cause EUT to make a voice call to QE2		
2	QE2 does not receive the voice call from EUT	Yes	No
Observations:			

Test Description			
Identifier:	TD_PMR_1014_01	**Test Purpose:**	TP_PMR_1014_01
Summary:	'Channel access when CSF impolite'		
Roles:	CSF	**Configuration:**	CF_IDPMRCSF_02
References:	RQ_001_1014		

```
-- CSF QE1, QE2 and EUT
with {    ((EUT and QE1 and QE2) using_compatible_vocoders) and
            QE1 is transmitting Voice_Transmission to QE2 and
            EUT is impolite
     }
ensure that {
  when  { EUT_User makes Voice_Transmission addressed to QE2}
  then  { QE2_User receives Voice_Transmission from EUT }
}

-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
```

Pre-test conditions:	Select same RF channel for QE1, QE2 and EUT EUT is programmed with impolite channel access Select or enter a talkgroup address of QE2 on EUT Start a voice call between QE1 and QE2		
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	Cause EUT to make a voice call to QE2		
2	QE2 receives the voice call from EUT	Yes	No
Observations:			

```
End group 1.2
```

5.1.3 framing

```
Group 1.3 'Framing'
```

5.1.3.1 end frame

```
Group 1.3.1 'End frame'
 -- No TP specified
End group 1.3.1
```

5.1.3.2 header frames

```
Group 1.3.2 'Header frames'
```

5.1.3.2.1 call information field

```
Group 1.3.2.1 'Call information field'
 -- No TP specified
End group 1.3.2.1
End group 1.3.2
```

5.1.3.3 packet data frame

```
Group 1.3.3 'Packet data frame'
 -- No TP specified
End group 1.3.3
```

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'
```

Test Description			
Identifier:	TD_PMR_0807_01	**Test Purpose:**	TP_PMR_0807_01
Summary:	'Support receiving of type 1 ISF group short data messages'		
Roles:	ISF	**Configuration:**	CF_IDPMRISF_01
References:	RQ_001_0807, RQ_001_0807		

```
-- ISF QE1 and EUT
with {    (EUT and QE1 using same Common_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 }
}

-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
```

Pre-test conditions:	Select same RF channel for both QE1 and EUT Select same Common ID on both QE1 and EUT

Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	Cause QE1 to send a Type 1 data message to EUT		
2	Check that EUT receives the data message	Yes	No
Observations:			

Test Description			
Identifier:	TD_PMR_0807_02	**Test Purpose:**	TP_PMR_0807_02
Summary:	'Support sending of type 1 ISF group short data messages'		
Roles:	ISF	**Configuration:**	CF_IDPMRISF_01
References:	RQ_001_0807		

```
-- ISF QE1 and EUT
with {     (EUT and QE1 using same Common_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 }
}

-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
```

Pre-test conditions:	Select same RF channel for both QE1 and EUT Select same Common ID on both QE1 and EUT		
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	Cause EUT to send a Type 1 data message to QE1		
2	Check that QE1 receives the data message	Yes	No
Observations:			

Test Description			
Identifier:	TD_PMR_0807_03	**Test Purpose:**	TP_PMR_0807_03
Summary:	'Support receiving of type 1 CSF group short data messages'		
Roles:	CSF	**Configuration:**	CF_IDPMRCSF_01
References:	RQ_001_0807		

```
-- CSF QE1 and EUT
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 }
}

-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
```

Pre-test conditions:	Select same RF channel for both QE1 and EUT Select or enter EUT address on QE1		
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	Cause QE1 to send a Type 1 data message to EUT		
2	Check that EUT receives the data message	Yes	No
Observations:			

Test Description			
Identifier:	TD_PMR_0807_04	**Test Purpose:**	TP_PMR_0807_04
Summary:	'Support sending of type 1 CSF group short data messages'		
Roles:	CSF	**Configuration:**	CF_IDPMRCSF_01
References:	RQ_001_0807		

```
-- CSF QE1 and EUT
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 }
}

-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
```

Pre-test conditions:	Select same RF channel for both QE1 and EUT Select or enter QE1 address on EUT		
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	Cause EUT to send a Type 1 data message to QE1		
2	Check that QE1 receives the data message	Yes	No
Observations:			

Test Description			
Identifier:	TD_PMR_0810_01	**Test Purpose:**	TP_PMR_0810_01
Summary:	'Support of type 1 individual short data messages'		
Roles:	CSF	**Configuration:**	CF_IDPMRCSF_01
References:	RQ_001_0810		

```
-- CSF QE1 and EUT
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 }
}

-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
```

Pre-test conditions:	Select same RF channel for both QE1 and EUT Select or enter EUT address on QE1		
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	Cause QE1 to send a Type 1 data message to EUT		
2	Check that EUT receives the data message	Yes	No
Observations:			

Test Description			
Identifier:	TD_PMR_0810_02	**Test Purpose:**	TP_PMR_0810_02
Summary:	'Support sending of type 1 CSF individual short data messages'		
Roles:	CSF	**Configuration:**	CF_IDPMRCSF_01
References:	RQ_001_0810		

```
-- CSF QE1 and EUT
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 }
}

-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
```

Pre-test conditions:	Select same RF channel for both QE1 and EUT Select or enter QE1 address on EUT

Step	Test Sequence	Verdict	
		Pass	**Fail**
1	Cause EUT to send a Type 1 data message to QE1		
2	Check that QE1 receives the data message	Yes	No
Observations:			

Test Description			
Identifier:	TD_PMR_0831_01	**Test Purpose:**	TP_PMR_0831_01
Summary:	'Support receiving of type 1 ISF group data status messages'		
Roles:	ISF	**Configuration:**	CF_IDPMRISF_01
References:	RQ_001_0831, RQ_001_0831		

```
-- ISF QE1 and EUT
with {     (EUT and QE1 using same Common_ID and
                       powersave_disabled) and
             EUT in standby
     }
ensure that {
  when  { QE1_User sends a T1_Status_Message to EUT }
  then  { EUT_User receives the T1_Status_Message }
}

-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
```

Pre-test conditions:	Select same RF channel for both QE1 and EUT Select same Common ID for both QE1 and EUT

Step	Test Sequence	Verdict	
		Pass	**Fail**
1	Cause QE1 to send a Type 1 data status message to EUT		
2	Check that EUT receives the data status message	Yes	No
Observations:			

Test Description			
Identifier:	TD_PMR_0831_02	**Test Purpose:**	TP_PMR_0831_02
Summary:	'Support sending of type 1 ISF group data status messages'		
Roles:	ISF	**Configuration:**	CF_IDPMRISF_01
References:	RQ_001_0831, RQ_001_0831		

```
-- ISF QE1 and EUT
with {     (EUT and QE1 using same Common_ID and
                        powersave_disabled) and
            QE1 in standby
     }
ensure that {
  when  { EUT_User sends a T1_Status_Message to QE1 }
  then  { QE1_User receives the T1_Status_Message }
}

-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
```

Pre-test conditions:	Select same RF channel for both QE1 and EUT Select same Common ID for both QE1 and EUT		
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	Cause EUT to send a Type 1 data status message to QE1		
2	Check that QE1 receives the data status message	Yes	No
Observations:			

Test Description			
Identifier:	TD_PMR_0831_03	**Test Purpose:**	TP_PMR_0831_03
Summary:	'Support receiving of type 1 CSF group data status messages'		
Roles:	CSF	**Configuration:**	CF_IDPMRCSF_01
References:	RQ_001_0831		

```
-- CSF QE1 and EUT
with {     (EUT and QE1 using same Group_ID and
                        powersave_disabled) and
            EUT in standby
     }
ensure that {
  when  { QE1_User sends a T1_Status_Message to EUT }
  then  { EUT_User receives the T1_Status_Message }
}

-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
```

Pre-test conditions:	Select same RF channel for both QE1 and EUT Select or enter a talkgroup address of EUT on QE1		
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	Cause QE1 to send a Type 1 data status message to EUT		
2	Check that EUT receives the data status message	Yes	No
Observations:			

Test Description			
Identifier:	TD_PMR_0831_04	**Test Purpose:**	TP_PMR_0831_04
Summary:	'Support sending of type 1 CSF group data status messages'		
Roles:	CSF	**Configuration:**	CF_IDPMRCSF_01
References:	RQ_001_0831		

```
-- CSF QE1 and EUT
with {     (EUT and QE1 using same Group_ID and
                        powersave_disabled) and
            QE1 in standby
     }
ensure that {
  when  { EUT_User sends a T1_Status_Message to QE1 }
  then  { QE1_User receives the T1_Status_Message }
}

-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
```

Pre-test conditions:	Select same RF channel for both QE1 and EUT Select or enter a talkgroup address of QE1 on EUT		
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	Cause EUT to make a Type 1 data status message to QE1		
2	Check that QE1 receives the data status message	Yes	No
Observations:			

Test Description			
Identifier:	TD_PMR_0832_01	**Test Purpose:**	TP_PMR_0832_01
Summary:	'Support receiving of type 1 ISF group data precoded messages'		
Roles:	ISF	**Configuration:**	CF_IDPMRISF_01
References:	RQ_001_0832, RQ_001_0832		

```
-- ISF QE1 and EUT
with {     (EUT and QE1 using same Common_ID and
                        powersave_disabled) and
            EUT in standby
     }
ensure that {
  when  { QE1_User sends a T1_Precoded_Data_Message to EUT }
  then  { EUT_User receives the T1_Precoded_Data_Message }
}

-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
```

Pre-test conditions:	Select same RF channel for both QE1 and EUT Select same Common ID on both QE1 and EUT Select a precoded message on QE1		
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	Cause QE1 to send a Type 1 data precoded message to EUT		
2	Check that EUT receives the precoded data message	Yes	No
Observations:			

Test Description			
Identifier:	TD_PMR_0832_02	**Test Purpose:**	TP_PMR_0832_02
Summary:	'Support sending of type 1 ISF group data precoded messages'		
Roles:	ISF	**Configuration:**	CF_IDPMRISF_01
References:	RQ_001_0832, RQ_001_0832		

```
-- ISF QE1 and EUT
with {     (EUT and QE1 using same Common_ID and
                        powersave_disabled) and
            QE1 in standby
      }
ensure that {
  when  { EUT_User sends a T1_Precoded_Data_Message to QE1 }
  then  { QE1_User receives the T1_Precoded_Data_Message }
}

-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
```

Pre-test conditions:	Select same RF channel for both QE1 and EUT Select same Common ID on both QE1 and EUT Select a precoded message on EUT

Step	Test Sequence	Verdict	
		Pass	**Fail**
1	Cause EUT to send a Type 1 data precoded message to EUT		
2	Check that QE1 receives the precoded data message	Yes	No
Observations:			

Test Description			
Identifier:	TD_PMR_0832_03	**Test Purpose:**	TP_PMR_0832_03
Summary:	'Support receiving of type 1 CSF group data precoded messages'		
Roles:	CSF	**Configuration:**	CF_IDPMRCSF_01
References:	RQ_001_0832		

```
-- CSF QE1 and EUT
with {     (EUT and QE1 using same Group_ID and
                        powersave_disabled) and
            EUT in standby
      }
ensure that {
  when  { QE1_User sends a T1_Precoded_Data_Message to EUT }
  then  { EUT_User receives the T1_Precoded_Data_Message }
}

-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
```

Pre-test conditions:	Select same RF channel for both QE1 and EUT Select or enter a talkgroup address of EUT on QE1 Select a precoded message on QE1

Step	Test Sequence	Verdict	
		Pass	**Fail**
1	Cause QE1 to send a Type 1 data precoded message to EUT		
2	Check that EUT receives the precoded data message	Yes	No
Observations:			

Test Description			
Identifier:	TD_PMR_0832_04	**Test Purpose:**	TP_PMR_0832_04
Summary:	'Support sending of type 1 CSF group data precoded messages'		
Roles:	CSF	**Configuration:**	CF_IDPMRCSF_01
References:	RQ_001_0832		

```
-- CSF QE1 and EUT
with {    (EUT and QE1 using same Group_ID and
                      powersave_disabled) and
           QE1 in standby
     }
ensure that {
  when  { EUT_User sends a T1_Precoded_Data_Message to QE1 }
  then  { QE1_User receives the T1_Precoded_Data_Message }
}

-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
```

Pre-test conditions:	Select same RF channel for both QE1 and EUT Select or enter a talkgroup address of QE1 on EUT Select a precoded message on EUT

Step	Test Sequence	Verdict	
		Pass	Fail
1	Cause EUT to send a Type 1 data precoded message to QE1		
2	Check that QE1 receives the precoded data message	Yes	No
Observations:			

Test Description			
Identifier:	TD_PMR_0833_01	**Test Purpose:**	TP_PMR_0833_01
Summary:	'Support receiving of type 1 ISF group data free text messages'		
Roles:	ISF	**Configuration:**	CF_IDPMRISF_01
References:	RQ_001_0833, RQ_001_0833		

```
-- ISF QE1 and EUT
with {    (EUT and QE1 using same Common_ID and
                      powersave_disabled) and
           EUT in standby
     }
ensure that {
  when  { QE1_User sends a T1_Freetext_Data_Message to EUT }
  then  { EUT_User receives the T1_Freetext_Data_Message }
}

-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
```

Pre-test conditions:	Select same RF channel for both QE1 and EUT Select same Common ID for both QE1 and EUT Enter a free text message on QE1

Step	Test Sequence	Verdict	
		Pass	Fail
1	Cause QE1 to send a Type 1 data free text message to EUT		
2	Check that EUT receives the free text message	Yes	No
Observations:			

Test Description			
Identifier:	TD_PMR_0833_02	**Test Purpose:**	TP_PMR_0833_02
Summary:	'Support sending of type 1 ISF group data free text messages'		
Roles:	ISF	**Configuration:**	CF_IDPMRISF_01
References:	RQ_001_0833, RQ_001_0833		

```
-- ISF QE1 and EUT
with {    (EUT and QE1 using same Common_ID and
                     powersave_disabled) and
           QE1 in standby
     }
ensure that {
  when  { EUT_User sends a T1_Freetext_Data_Message to QE1 }
  then  { QE1_User receives the T1_Freetext_Data_Message }
}

-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
```

Pre-test conditions:	Select same RF channel for both QE1 and EUT Select same Common ID for both QE1 and EUT Enter a free text message on EUT		
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	Cause EUT to send a Type 1 data free text message to QE1		
2	Check that QE1 receives the free text message	Yes	No
Observations:			

Test Description			
Identifier:	TD_PMR_0833_03	**Test Purpose:**	TP_PMR_0833_03
Summary:	'Support receiving of type 1 CSF group data free text messages'		
Roles:	CSF	**Configuration:**	CF_IDPMRCSF_01
References:	RQ_001_0833		

```
-- CSF QE1 and EUT
with {    (EUT and QE1 using same Group_ID and
                     powersave_disabled) and
           EUT in standby
     }
ensure that {
  when  { QE1_User sends a T1_Freetext_Data_Message to EUT }
  then  { EUT_User receives the T1_Freetext_Data_Message }
}

-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
```

Pre-test conditions:	Select same RF channel for both QE1 and EUT Select or select a talkgroup address of EUT on QE1 Enter a free text message on QE1		
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	Cause QE1 to send a Type 1 data free text message to EUT		
2	Check that EUT receives the free text message	Yes	No
Observations:			

Test Description			
Identifier:	TD_PMR_0833_04	**Test Purpose:**	TP_PMR_0833_04
Summary:	'Support sending of type 1 CSF group data free text messages'		
Roles:	CSF	**Configuration:**	CF_IDPMRCSF_01
References:	RQ_001_0833		

```
-- CSF QE1 and EUT
with {     (EUT and QE1 using same Group_ID and
                        powersave_disabled) and
            QE1 in standby
      }
ensure that {
  when  { EUT_User sends a T1_Freetext_Data_Message to QE1 }
  then  { QE1_User receives the T1_Freetext_Data_Message }
}

-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
```

Pre-test conditions:	Select same RF channel for both QE1 and EUT Select or enter a talkgroup address of QE1 on EUT Enter a free text message on EUT

Step	Test Sequence	Verdict	
		Pass	**Fail**
1	Cause EUT to send a Type 1 data free text message to QE1		
2	Check that QE1 receives the free text message	Yes	No
Observations:			

Test Description			
Identifier:	TD_PMR_0834_01	**Test Purpose:**	TP_PMR_0834_01
Summary:	'Support receiving of type 1 ISF group data short file transfer'		
Roles:	ISF	**Configuration:**	CF_IDPMRISF_01
References:	RQ_001_0834, RQ_001_0834		

```
-- ISF QE1 and EUT
with {     (EUT and QE1 using same Common_ID and
                        powersave_disabled) and
            EUT in standby
      }
ensure that {
  when  { QE1_User makes a T1_Short_File_Transfer to EUT }
  then  { EUT_User receives the T1_Short_File_Transfer }
}

-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
```

Pre-test conditions:	Select same RF channel for both QE1 and EUT Select same Common ID for both QE1 and EUT Interface QE1 to the data file source equipment Interface EUT to the data file receiving equipment

Step	Test Sequence	Verdict	
		Pass	**Fail**
1	Cause QE1 to make a Type 1 data short file transfer to EUT		
2	Check that EUT receives and outputs the data file to the receiving equipment	Yes	No
Observations:			

Test Description			
Identifier:	TD_PMR_0834_02	**Test Purpose:**	TP_PMR_0834_02
Summary:	'Support sending of type 1 ISF group data short file transfer'		
Roles:	ISF	**Configuration:**	CF_IDPMRISF_01
References:	RQ_001_0834, RQ_001_0834		

```
-- ISF QE1 and EUT
with {    (EUT and QE1 using same Common_ID and
                      powersave_disabled) and
           QE1 in standby
     }
ensure that {
  when  { EUT_User makes a T1_Short_File_Transfer to QE1 }
  then  { QE1_User receives the T1_Short_File_Transfer }
}

-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
```

Pre-test conditions:	Select same RF channel for both QE1 and EUT Select same Common ID for both QE1 and EUT Interface EUT to the data file source equipment Interface QE1 to the data file receiving equipment

Step	Test Sequence	Verdict	
		Pass	Fail
1	Cause EUT to make a Type 1 data short file transfer to QE1		
2	Check that QE1 receives and outputs the data file to the receiving equipment	Yes	No
Observations:			

Test Description			
Identifier:	TD_PMR_0834_03	**Test Purpose:**	TP_PMR_0834_03
Summary:	'Support receiving of type 1 CSF group data short file transfer'		
Roles:	CSF	**Configuration:**	CF_IDPMRCSF_01
References:	RQ_001_0834		

```
-- CSF QE1 and EUT
with {    (EUT and QE1 using same Group_ID and
                      powersave_disabled) and
           EUT in standby
     }
ensure that {
  when  { QE1_User makes a T1_Short_File_Transfer to EUT }
  then  { EUT_User receives the T1_Short_File_Transfer }
}

-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
```

Pre-test conditions:	Select same RF channel for both QE1 and EUT Select or enter a talkgroup address of EUT on QE1 Interface QE1 to the data file source equipment Interface EUT to the data file receiving equipment

Step	Test Sequence	Verdict	
		Pass	Fail
1	Cause QE1 to make a Type 1 data short file transfer to EUT		
2	Check that EUT receives and outputs the data file to the receiving equipment	Yes	No
Observations:			

Test Description			
Identifier:	TD_PMR_0834_04	**Test Purpose:**	TP_PMR_0834_04
Summary:	'Support sending of type 1 CSF group data short file transfer'		
Roles:	CSF	**Configuration:**	CF_IDPMRCSF_01
References:	RQ_001_0834		

```
-- CSF QE1 and EUT
with {     (EUT and QE1 using same Group_ID and
                      powersave_disabled) and
            QE1 in standby
     }
ensure that {
  when  { EUT_User makes a T1_Short_File_Transfer to QE1 }
  then  { QE1_User receives the T1_Short_File_Transfer }
}

-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
```

Pre-test conditions:	Select same RF channel for both QE1 and EUT Select or enter a talkgroup address of QE1 on EUT Interface EUT to the data file source equipment Interface QE1 to the data file receiving equipment		
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	Cause EUT to make a Type 1 data short file transfer to QE1		
2	Check that QE1 receives and outputs the data file to the receiving equipment	Yes	No
Observations:			

End group 1.3.4.1

5.1.3.4.2 type 2 data

Group 1.3.4.2 'Type 2 data'

Test Description			
Identifier:	TD_PMR_0806_01	**Test Purpose:**	TP_PMR_0806_01
Summary:	'Support receiving of type 2 group short data messages'		
Roles:	ISF	**Configuration:**	CF_IDPMRISF_01
References:	RQ_001_0806, RQ_001_0806		

```
-- ISF QE1 and EUT
with {     (EUT and QE1 using same Common_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 }
}

-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
```

Pre-test conditions:	Select same RF channel for both QE1 and EUT Select same Common ID on both QE1 and EUT		
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	Cause QE1 to send a Type 2 data message to EUT		
2	Check that EUT receives the data message	Yes	No
Observations:			

Test Description			
Identifier:	TD_PMR_0806_02	**Test Purpose:**	TP_PMR_0806_02
Summary:	'Support sending of type 2 group short data messages'		
Roles:	ISF	**Configuration:**	CF_IDPMRISF_01
References:	RQ_001_0806		

```
-- ISF QE1 and EUT
with {    (EUT and QE1 using same Common_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 }
}

-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
```

Pre-test conditions:	Select same RF channel for both QE1 and EUT Select same Common ID on both QE1 and EUT

Step	Test Sequence	Verdict	
		Pass	**Fail**
1	Cause EUT to send a Type 2 data message to QE1		
2	Check that QE1 receives the data message	Yes	No
Observations:			

Test Description			
Identifier:	TD_PMR_0806_03	**Test Purpose:**	TP_PMR_0806_03
Summary:	'Support receiving of type 2 CSF group short data messages'		
Roles:	CSF	**Configuration:**	CF_IDPMRCSF_01
References:	RQ_001_0806		

```
-- CSF QE1 and EUT
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 }
}

-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
```

Pre-test conditions:	Select same RF channel for both QE1 and EUT Select or enter EUT address on QE1

Step	Test Sequence	Verdict	
		Pass	**Fail**
1	Cause QE1 to send a Type 2 data message to EUT		
2	Check that EUT receives the data message	Yes	No
Observations:			

Test Description			
Identifier:	TD_PMR_0806_04	**Test Purpose:**	TP_PMR_0806_04
Summary:	'Support sending of type 2 CSF group short data messages'		
Roles:	CSF	**Configuration:**	CF_IDPMRCSF_01
References:	RQ_001_0806		

```
-- CSF QE1 and EUT
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 }
}


-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
```

Pre-test conditions:	Select same RF channel for both QE1 and EUT Select or enter address for QE1 on EUT

Step	Test Sequence	Verdict	
		Pass	**Fail**
1	Cause EUT to send a Type 2 data message to QE1		
2	Check QE1 receives the data message	Yes	No
Observations:			

Test Description			
Identifier:	TD_PMR_0809_01	**Test Purpose:**	TP_PMR_0809_01
Summary:	'Support receiving of type 2 CSF individual short data messages'		
Roles:	CSF	**Configuration:**	CF_IDPMRCSF_01
References:	RQ_001_0809		

```
-- CSF QE1 and EUT
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 }
}

-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
```

Pre-test conditions:	Select same RF channel for both QE1 and EUT Select or enter EUT address on QE1

Step	Test Sequence	Verdict	
		Pass	**Fail**
1	Cause QE1 to send a Type 2 data message to EUT		
2	Check that EUT receives the data message	Yes	No
Observations:			

Test Description			
Identifier:	TD_PMR_0809_02	**Test Purpose:**	TP_PMR_0809_02
Summary:	'Support sending of type 2 CSF individual short data messages'		
Roles:	CSF	**Configuration:**	CF_IDPMRCSF_01
References:	RQ_001_0809		

```
-- CSF QE1 and EUT
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 }
}

-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
```

Pre-test conditions:	Select same RF channel for both QE1 and EUT Select or enter QE1 address on EUT		
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	Cause EUT to send a Type 2 data message to QE1		
2	Check that QE1 receives the data message	Yes	No
Observations:			

Test Description			
Identifier:	TD_PMR_0825_01	**Test Purpose:**	TP_PMR_0825_01
Summary:	'Support receiving of type 2 ISF group data status messages'		
Roles:	ISF	**Configuration:**	CF_IDPMRISF_01
References:	RQ_001_0825, RQ_001_0825		

```
-- ISF QE1 and EUT
with {     (EUT and QE1 using same Common_ID and
            powersave_disabled) and
            EUT in standby
     }
ensure that {
  when  { QE1_User sends a T2_Status_Message to EUT }
  then  { EUT_User receives the T2_Status_Message }
}

-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
```

Pre-test conditions:	Select same RF channel for both QE1 and EUT Select same Common ID on both QE1 and EUT		
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	Cause QE1 to send a Type 2 data status message to EUT		
2	Check that EUT receives the data status message	Yes	No
Observations:			

Test Description			
Identifier:	TD_PMR_0825_02	**Test Purpose:**	TP_PMR_0825_02
Summary:	'Support sending of type 2 ISF group data status messages'		
Roles:	ISF	**Configuration:**	CF_IDPMRISF_01
References:	RQ_001_0825, RQ_001_0825		

```
-- ISF QE1 and EUT
with {     (EUT and QE1 using same Common_ID and
           powersave_disabled) and
            QE1 in standby
     }
ensure that {
  when  { EUT_User sends a T2_Status_Message to QE1 }
  then  { QE1_User receives the T2_Status_Message }
}

-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
```

Pre-test conditions:	Select same RF channel for both QE1 and EUT Select same Common ID on both QE1 and EUT

Step	Test Sequence	Verdict	
		Pass	**Fail**
1	Cause EUT to send a Type 2 data status message to QE1		
2	Check that QE1 receives the data status message	Yes	No
Observations:			

Test Description			
Identifier:	TD_PMR_0825_03	**Test Purpose:**	TP_PMR_0825_03
Summary:	'Support receiving of type 2 CSF group data status messages'		
Roles:	CSF	**Configuration:**	CF_IDPMRCSF_01
References:	RQ_001_0825		

```
-- CSF QE1 and EUT
with {     (EUT and QE1 using same Group_ID and
            powersave_disabled) and
            EUT in standby
     }
ensure that {
  when  { QE1_User sends a T2_Status_Message to EUT }
  then  { EUT_User receives the T2_Status_Message }
}

-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
```

Pre-test conditions:	Select same RF channel for both QE1 and EUT Select or enter a talkgroup address of EUT on QE1

Step	Test Sequence	Verdict	
		Pass	**Fail**
1	Cause QE1 to send a Type 2 data status message to EUT		
2	Check that EUT receives the data status message	Yes	No
Observations:			

Test Description			
Identifier:	TD_PMR_0825_04	**Test Purpose:**	TP_PMR_0825_04
Summary:	'Support sending of type 2 CSF group data status messages'		
Roles:	CSF	**Configuration:**	CF_IDPMRCSF_01
References:	RQ_001_0825		

```
-- CSF QE1 and EUT
with {     (EUT and QE1 using same Group_ID and
            powersave_disabled) and
            QE1 in standby
     }
ensure that {
  when  { EUT_User sends a T2_Status_Message to QE1 }
  then  { QE1_User receives the T2_Status_Message }
}

-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
```

Pre-test conditions:	Select same RF channel for both QE1 and EUT Select or enter a talkgroup address of QE1 on EUT

Step	Test Sequence	Verdict	
		Pass	Fail
1	Cause EUT to send a Type 2 data status message to QE1		
2	Check that QE1 receives the data status message	Yes	No
Observations:			

Test Description			
Identifier:	TD_PMR_0827_01	**Test Purpose:**	TP_PMR_0827_01
Summary:	'Support receiving of type 2 ISF group data precoded messages'		
Roles:	ISF	**Configuration:**	CF_IDPMRISF_01
References:	RQ_001_0827, RQ_001_0827		

```
-- ISF QE1 and EUT
with {     (EUT and QE1 using same Common_ID and
            powersave_disabled) and
            EUT in standby
     }
ensure that {
  when  { QE1_User sends a T2_Precoded_Data_Message to EUT }
  then  { EUT_User receives the T2_Precoded_Data_Message }
}

-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
```

Pre-test conditions:	Select same RF channel for both QE1 and EUT Select same Common ID on both QE1 and EUT Select a precoded message on QE1

Step	Test Sequence	Verdict	
		Pass	Fail
1	Cause QE1 to send a Type 2 precoded data message to EUT		
2	Check that EUT receives the precoded data message	Yes	No
Observations:			

Test Description			
Identifier:	TD_PMR_0827_02	**Test Purpose:**	TP_PMR_0827_02
Summary:	'Support sending of type 2 ISF group data precoded messages'		
Roles:	ISF	**Configuration:**	CF_IDPMRISF_01
References:	RQ_001_0827, RQ_001_0827		

```
-- ISF QE1 and EUT
with {     (EUT and QE1 using same Common_ID and
            powersave_disabled) and
            QE1 in standby
     }
ensure that {
  when  { EUT_User sends a T2_Precoded_Data_Message to QE1 }
  then  { QE1_User receives the T2_Precoded_Data_Message }
}

-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
```

Pre-test conditions:	Select same RF channel for both QE1 and EUT Select same Common ID on both QE1 and EUT Select a precoded data message on EUT

Step	Test Sequence	Verdict	
		Pass	Fail
1	Cause EUT to send a Type 2 precoded data message to QE1		
2	Check that QE1 receives the precoded data message	Yes	No
Observations:			

Test Description			
Identifier:	TD_PMR_0827_03	**Test Purpose:**	TP_PMR_0827_03
Summary:	'Support receiving of type 2 CSF group data precoded messages'		
Roles:	CSF	**Configuration:**	CF_IDPMRCSF_01
References:	RQ_001_0827		

```
-- CSF QE1 and EUT
with {     (EUT and QE1 using same Group_ID and
                      powersave_disabled) and
             EUT in standby
     }
ensure that {
  when  { QE1_User sends a T2_Precoded_Data_Message to EUT }
  then  { EUT_User receives the T2_Precoded_Data_Message }
}

-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
```

Pre-test conditions:	Select same RF channel for both QE1 and EUT Select or enter a talkgroup address for EUT on QE1 Select a precoded message on QE1

Step	Test Sequence	Verdict	
		Pass	Fail
1	Cause QE1 to send a Type 2 precoded data message to EUT		
2	Check that EUT receives the precoded data message	Yes	No
Observations:			

Test Description			
Identifier:	TD_PMR_0827_04	**Test Purpose:**	TP_PMR_0827_04
Summary:	'Support sending of type 2 CSF group data precoded messages'		
Roles:	CSF	**Configuration:**	CF_IDPMRCSF_01
References:	RQ_001_0827		

```
-- CSF QE1 and EUT
with {     (EUT and QE1 using same Group_ID and
                      powersave_disabled) and
            QE1 in standby
     }
ensure that {
  when  { EUT_User sends a T2_Precoded_Data_Message to QE1 }
  then  { QE1_User receives the T2_Precoded_Data_Message }
}

-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
```

Pre-test conditions:	Select same RF channel for both QE1 and EUT Select or enter a talkgroup address for QE1 on EUT Select a precoded message on EUT

Step	Test Sequence	Verdict	
		Pass	Fail
1	Cause EUT to send a Type 2 precoded data message to QE1		
2	Check that QE1 receives the precoded data message	Yes	No
Observations:			

Test Description			
Identifier:	TD_PMR_0829_01	**Test Purpose:**	TP_PMR_0829_01
Summary:	'Support receiving of type 2 ISF group data free text messages'		
Roles:	ISF	**Configuration:**	CF_IDPMRISF_01
References:	RQ_001_0829, RQ_001_0829		

```
-- ISF QE1 and EUT
with {     (EUT and QE1 using same Common_ID and
                      powersave_disabled) and
            EUT in standby
     }
ensure that {
  when  { QE1_User sends a T2_Freetext_Data_Message to EUT }
  then  { EUT_User receives the T2_Freetext_Data_Message }
}

-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
```

Pre-test conditions:	Select same RF channel for both QE1 and EUT Select same Common ID for both QE1 and EUT Enter a free text message on QE1

Step	Test Sequence	Verdict	
		Pass	Fail
1	Cause QE1 to send a Type 2 data free text message to EUT		
2	Check that EUT receives the data text message	Yes	No
Observations:			

Test Description			
Identifier:	TD_PMR_0829_02	**Test Purpose:**	TP_PMR_0829_02
Summary:	'Support sending of type ISF 2 group data free text messages'		
Roles:	ISF	**Configuration:**	CF_IDPMRISF_01
References:	RQ_001_0829, RQ_001_0829		

```
-- ISF QE1 and EUT
with {    (EUT and QE1 using same Common_ID and
                     powersave_disabled) and
           QE1 in standby
     }
ensure that {
  when  { EUT_User sends a T2_Freetext_Data_Message to QE1 }
  then  { QE1_User receives the T2_Freetext_Data_Message }
}

-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
```

Pre-test conditions:	Select same RF channel for both QE1 and EUT Select same Common ID for both QE1 and EUT Enter a free text message on EUT

Step	Test Sequence	Verdict	
		Pass	Fail
1	Cause EUT to send a Type 2 data free text message to QE1		
2	Check that QE1 receives the data text message	Yes	No
Observations:			

Test Description			
Identifier:	TD_PMR_0829_03	**Test Purpose:**	TP_PMR_0829_03
Summary:	'Support receiving of type 2 CSF group data free text messages'		
Roles:	CSF	**Configuration:**	CF_IDPMRCSF_01
References:	RQ_001_0829		

```
-- CSF QE1 and EUT
with {    (EUT and QE1 using same Group_ID and
                     powersave_disabled) and
           EUT in standby
     }
ensure that {
  when  { QE1_User sends a T2_Freetext_Data_Message to EUT }
  then  { EUT_User receives the T2_Freetext_Data_Message }
}

-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
```

Pre-test conditions:	Select same RF channel for both QE1 and EUT Select or enter a talkgroup address for EUT on QE1 Enter a free text message on QE1

Step	Test Sequence	Verdict	
		Pass	Fail
1	Cause QE1 to send a Type 2 data free text message to EUT		
2	Check that EUT receives the data text message	Yes	No
Observations:			

Test Description			
Identifier:	TD_PMR_0829_04	**Test Purpose:**	TP_PMR_0829_04
Summary:	'Support sending of type 2 CSF group data free text messages'		
Roles:	CSF	**Configuration:**	CF_IDPMRCSF_01
References:	RQ_001_0829		

```
-- CSF QE1 and EUT
with {     (EUT and QE1 using same Group_ID and
                      powersave_disabled) and
            QE1 in standby
     }
ensure that {
  when  { EUT_User sends a T2_Freetext_Data_Message to QE1 }
  then  { QE1_User receives the T2_Freetext_Data_Message }
}

-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
```

Pre-test conditions:	Select same RF channel for both QE1 and EUT Select or enter a talkgroup address for QE1 on EUT Enter a free text message on EUT		
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	Cause EUT to send a Type 2 data free text message to QE1		
2	Check that QE1 receives the data text message	Yes	No
Observations:			

Test Description			
Identifier:	TD_PMR_0830_01	**Test Purpose:**	TP_PMR_0830_01
Summary:	'Support receiving of type 2 ISF group data short file transfer'		
Roles:	ISF	**Configuration:**	CF_IDPMRISF_01
References:	RQ_001_0830, RQ_001_0830		

```
-- ISF QE1 and EUT
with {     (EUT and QE1 using same Common_ID and
                      powersave_disabled) and
            EUT in standby
     }
ensure that {
  when  { QE1_User makes a T2_Short_File_Transfer to EUT }
  then  { EUT_User receives the T2_Short_File_Transfer }
}

-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
```

Pre-test conditions:	Select same RF channel for both QE1 and EUT Select same Common ID for both QE1 and EUT Interface QE1 to the data file source equipment Interface EUT to the data file receiving equipment		
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	Cause QE1 to make a Type 2 data short file transfer to EUT		
2	Check that EUT receives and outputs the data file to the receiving equipment	Yes	NO
Observations:			

Test Description			
Identifier:	TD_PMR_0830_02	**Test Purpose:**	TP_PMR_0830_02
Summary:	'Support sending of type 2 ISF group data short file transfer'		
Roles:	ISF	**Configuration:**	CF_IDPMRISF_01
References:	RQ_001_0830, RQ_001_0830		

```
-- ISF QE1 and EUT
with {    (EUT and QE1 using same Common_ID and
                    powersave_disabled) and
           QE1 in standby
     }
ensure that {
  when  { EUT_User makes a T2_Short_File_Transfer to QE1 }
  then  { QE1_User receives the T2_Short_File_Transfer }
}

-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
```

Pre-test conditions:	Select same RF channel for both QE1 and EUT Select same Common ID for both QE1 and EUT Interface EUT to the data file source equipment Interface QE1 to the data file receiving equipment

Step	Test Sequence	Verdict	
		Pass	**Fail**
1	Cause EUT to make a Type 2 data short file transfer to QE1		
2	Check that QE1 receives and outputs the data file to the receiving equipment	Yes	No
Observations:			

Test Description			
Identifier:	TD_PMR_0830_03	**Test Purpose:**	TP_PMR_0830_03
Summary:	'Support receiving of type 2 CSF group data short file transfer'		
Roles:	CSF	**Configuration:**	CF_IDPMRCSF_01
References:	RQ_001_0830		

```
-- CSF QE1 and EUT
with {    (EUT and QE1 using same Group_ID and
                    powersave_disabled) and
           EUT in standby
     }
ensure that {
  when  { QE1_User makes a T2_Short_File_Transfer to EUT }
  then  { EUT_User receives the T2_Short_File_Transfer }
}

-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
```

Pre-test conditions:	Select same RF channel for both QE1 and EUT Select or enter a talkgroup address for EUT on QE1 Interface QE1 to the data file source equipment Interface EUT to the data file receiving equipment

Step	Test Sequence	Verdict	
		Pass	**Fail**
1	Cause QE1 to make a Type 2 short data file transfer to EUT		
2	Check that EUT receives and outputs the data file to the receiving equipment	Yes	No
Observations:			

Test Description			
Identifier:	TD_PMR_0830_04	**Test Purpose:**	TP_PMR_0830_04
Summary:	'Support sending of type 2 CSF group data short file transfer'		
Roles:	CSF	**Configuration:**	CF_IDPMRCSF_01
References:	RQ_001_0830		

```
-- CSF QE1 and EUT
with {     (EUT and QE1 using same Group_ID and
                        powersave_disabled) and
             QE1 in standby
     }
ensure that {
  when  { EUT_User makes a T2_Short_File_Transfer to QE1 }
  then  { QE1_User receives the T2_Short_File_Transfer }
}

-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
```

Pre-test conditions:	Select same RF channel for both QE1 and EUT Select or enter a talkgroup address of QE1 on EUT Interface EUT to the data file source equipment Interface QE1 to the data file receiving equipment

Step	Test Sequence	Verdict	
		Pass	Fail
1	Cause EUT to make a Type 2 data short file transfer to QE1		
2	Check that QE1 receives and outputs the data file to the receiving equipment	Yes	No
Observations:			

```
End group 1.3.4.2
```

5.1.3.4.3 voice

```
Group 1.3.4.3 'Voice'
```

Test Description			
Identifier:	TD_PMR_0801_01	**Test Purpose:**	TP_PMR_0801_01
Summary:	'A radio can be called by another'		
Roles:	ISF	**Configuration:**	CF_IDPMRISF_01
References:	RQ_001_0801, RQ_001_0801		

```
-- ISF QE1 and EUT
with {     ( EUT and QE1 using same Common_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 }
}

-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
```

Pre-test conditions:	Select same RF channel and Common ID for both QE1 and EUT

Step	Test Sequence	Verdict	
		Pass	Fail
1	Cause QE1 to make a PTT call to EUT		
2	EUT receives the PTT call	Yes	No
Observations:			

Test Description			
Identifier:	TD_PMR_0801_02	**Test Purpose:**	TP_PMR_0801_02
Summary:	'A radio can call another'		
Roles:	ISF	**Configuration:**	CF_IDPMRISF_02
References:	RQ_001_0801		

```
-- ISF QE1 and EUT
with {     (EUT and QE1 using same Common_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 }
}

-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
```

Pre-test conditions:	Select same RF channel and Common ID for both QE1 and EUT		
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	Cause EUT to make a PTT call to QE1		
2	QE1 receives the PTT call	Yes	No
Observations:			

```
End group 1.3.4.3
End group 1.3.4
End group 1.3
```

5.1.4 late entry

```
Group 1.4 'Late Entry'
```

Test Description			
Identifier:	TD_PMR_0802_01	**Test Purpose:**	TP_PMR_0802_01
Summary:	'Support of Late Entry for ISF'		
Roles:	ISF	**Configuration:**	CF_IDPMRISF_01
References:	RQ_001_0802, RQ_001_0802		

```
-- ISF QE1 and EUT
with {     (EUT and QE1 using the same Common_ID and
                        powersave_disabled and
                        using_compatible_vocoders) and
            EUT switched_off and
            QE1 is transmitting a PTT_Call addressed to the EUT
     }
ensure that {
  when  { EUT is switched_on }
  then  { EUT_User receives the remainder of the PTT_Call after a 'short delay' }
}

-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
```

Pre-test conditions:	Select same RF channel and Common ID for both QE1 and EUT		
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	Switch off EUT		
2	Cause QE1 to make a PTT call to EUT		
3	Switch on EUT		
4	Check that EUT starts to receive the PTT call after a short delay	Yes	No
Observations:			

Test Description			
Identifier:	TD_PMR_0802_02	**Test Purpose:**	TP_PMR_0802_02
Summary:	'Support of Late Entry by CSF with individual address'		
Roles:	CSF	**Configuration:**	CF_IDPMRCSF_01
References:	RQ_001_0802, RQ_001_0802		

```
-- CSF QE1 and EUT
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' }
}

-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
```

Pre-test conditions:	Select same RF channel for both QE1 and EUT Select or enter the individual address of EUT on QE1		
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	Switch off EUT		
2	Cause QE1 to make an individual call to EUT		
3	Switch on EUT		
4	Check that EUT starts to receive the call after a short delay	Yes	No
Observations:			

Test Description			
Identifier:	TD_PMR_0802_03	**Test Purpose:**	TP_PMR_0802_03
Summary:	'Support of Late Entry by CSF with wildcard address'		
Roles:	CSF	**Configuration:**	CF_IDPMRCSF_01
References:	RQ_001_0802, RQ_001_0802		

```
-- CSF QE1 and EUT
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' }
}

-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
```

Pre-test conditions:	Select same RF channel for both QE1 and EUT Select or enter a wildcard group address for EUT on QE1		
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	Switch off EUT		
2	Cause QE1 to make a wildcard group call to EUT		
3	Switch on EUT		
4	Check that EUT starts to receive the call after a short delay	Yes	No
Observations:			

Test Description			
Identifier:	TD_PMR_0802_04	**Test Purpose:**	TP_PMR_0802_04
Summary:	'Support of Late Entry by CSF with Talk Group address'		
Roles:	CSF	**Configuration:**	CF_IDPMRCSF_01
References:	RQ_001_0802, RQ_001_0802		

```
-- CSF QE1 and EUT
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' }
}

-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
```

Pre-test conditions:	Select same RF channel for both QE1 and EUT Select or enter a talkgroup address for EUT on QE1		
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	Switch off EUT		
2	Cause QE1 to make a talkgroup call to EUT		
3	Switch on EUT		
4	Check that EUT starts to receive the call after a short delay	Yes	No
Observations:			

```
End group 1.4
```

5.1.5 powersave

```
Group 1.5 'Powersave'
End group 1.5
```

5.1.6 talking party ID

```
Group 1.6 'Talking Party ID'
```

Test Description			
Identifier:	TD_PMR_0803_01	**Test Purpose:**	TP_PMR_0803_01
Summary:	'Support of Talking Party ID'		
Roles:	CSF	**Configuration:**	CF_IDPMRCSF_01
References:	RQ_001_0803, RQ_001_0803		

```
-- CSF QE1 and EUT
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 }
}

-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
```

Pre-test conditions:	Select same RF channel for both QE1 and EUT Select or enter the address for EUT on QE		
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	Cause QE1 to make an individual call to EUT		
2	Check that EUT displays the address (ID) of QE1	Yes	No
Observations:			

Test Description			
Identifier:	TD_PMR_0803_02	**Test Purpose:**	TP_PMR_0803_02
Summary:	'Support of Talking Party ID'		
Roles:	CSF	**Configuration:**	CF_IDPMRCSF_01
References:	RQ_001_0803		

```
-- CSF QE1 and EUT
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 }
}

-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
```

Pre-test conditions:	Select same RF channel for both QE1 and EUT Select or enter a group address for EUT on QE		
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	Cause QE1 to make a group call to EUT		
2	Check that EUT displays the address (ID) of QE1	Yes	No
Observations:			

```
End group 1.6
End group 1
```

5.1.7 Slow User Data

```
Group 1.7 'Slow User Data'
```

Test Description			
Identifier:	TD_PMR_0836_01	**Test Purpose:**	TP_PMR_0836_01
Summary:	'Support receiving of CSF slow user data'		
Roles:	CSF	**Configuration:**	CF_IDPMRCSF_01
References:	RQ_001_0836, RQ_001_0836		

```
-- CSF QE1 and EUT
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 }
}

-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
```

Pre-test conditions:	Select same RF channel for both QE1 and EUT Select or enter a talkgroup address of EUT on QE1 Preset QE1 with 4 bytes of Slow User Data		
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	Cause QE1 to make a voice call to EUT		
2	Check that EUT receives the voice call	Yes	No
3	Check that EUT receives the 4 bytes of slow user data	Yes	No
Observations:			

Test Description			
Identifier:	TD_PMR_0836_02	**Test Purpose:**	TP_PMR_0836_02
Summary:	'Support sending of CSF slow user data'		
Roles:	CSF	**Configuration:**	CF_IDPMRCSF_01
References:	RQ_001_0836, RQ_001_0836		

```
-- CSF QE1 and EUT
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 }
}

-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
```

Pre-test conditions:	Select same RF channel for both QE1 and EUT Select or enter a talkgroup address of QE1 on EUT Preset EUT with 4 bytes of Slow User Data

Step	Test Sequence	Verdict	
		Pass	**Fail**
1	Cause EUT to make a voice call to QE1		
2	Check that QE1 receives the voice call	Yes	No
3	Check that QE1 receives the 4 bytes of slow user data	Yes	No
Observations:			

Test Description			
Identifier:	TD_PMR_0836_03	**Test Purpose:**	TP_PMR_0836_03
Summary:	Support receiving of ISF slow user data		
Roles:	ISF	**Configuration:**	CF_IDPMRISF_01
References:	RQ_001_0836		

```
-- ISF QE1 and EUT
with {    (EUT and QE1 using same Common_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 PTT_Call to EUT }
  then  { EUT_User receives the PTT_Call and the SLD_test_data }
}

-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
```

Pre-test conditions:	Select same RF channel for both QE1 and EUT Select or enter Common ID of QE1 on EUT Preset QE1 with 4 bytes of Slow User Data

Step	Test Sequence	Verdict	
		Pass	**Fail**
1	Cause QE1 to make a voice call to EUT		
2	Check that EUT receives the voice call	Yes	No
3	Check that EUT receives the 4 bytes of slow user data	Yes	No
Observations:			

Test Description			
Identifier:	TD_PMR_0836_04	**Test Purpose:**	TP_PMR_0836_04
Summary:	Support sending of ISF slow user data		
Roles:	ISF	**Configuration:**	CF_IDPMRISF_01
References:	RQ_001_0836		

```
-- ISF QE1 and EUT
with {     (EUT and QE1 using same Common_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 PTT_Call to QE1 }
  then  { QE1_User receives the PTT_Call and the SLD_test_data }
}

-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
```

Pre-test conditions:	Select same RF channel for both QE1 and EUT Select or enter Common ID of QE1 on EUT Preset EUT with 4 bytes of Slow User Data		
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	Cause EUT to make a voice call to QE1		
2	Check that QE1 receives the voice call	Yes	No
3	Check that QE1 receives the 4 bytes of slow user data	Yes	No
Observations:			

5.2 CSF

```
Group 2 'CSF'
```

5.2.1 broadcast call

```
Group 2.1 'Broadcast Call'
End group 2.1
```

5.2.2 dialling plan

```
Group 2.2 'Dialling Plan'
```

Test Description			
Identifier:	TD_PMR_1403_01	**Test Purpose:**	TP_PMR_1403_01
Summary:	'The user should enter or select a string of digits and then press a button to initiate the call'		
Roles:	CSF	**Configuration:**	CF_IDPMRCSF_01
References:	RQ_001_1403, RQ_001_1403		

```
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 }
}

-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
```

Pre-test conditions:	Select same RF channel for both QE1 and EUT EUT has Standard User Interface EUT has an individual address of 1123456 QE1 has an individual address of 1123457		
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	EUT user enters 1123457		
2	QE1 user does not receive the call	Yes	No
Observations:			

Test Description			
Identifier:	TD_PMR_1403_02	**Test Purpose:**	TP_PMR_1403_02
Summary:	'The user should enter a string of digits and then press a button to initiate the call'		
Roles:	CSF	**Configuration:**	CF_IDPMRCSF_01
References:	RQ_001_1403, RQ_001_1403		

```
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 }
}

-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
```

Pre-test conditions:	Select same RF channel for both QE1 and EUT EUT has Standard User Interface EUT has an individual address of 1123456 QE1 has an individual address of 1123457

Step	Test Sequence	Verdict	
		Pass	Fail
1	EUT user enters 1123457		
2	EUT user presses the dedicated send key		
3	QE1 user receives the call	Yes	Not
Observations:			

Test Description			
Identifier:	TD_PMR_1412_01	**Test Purpose:**	TP_PMR_1412_01
Summary:	'Some numeric address are not permitted'		
Roles:	CSF	**Configuration:**	CF_IDPMRCSF_01
References:	RQ_001_1412		

```
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
}

-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
```

Pre-test conditions:	Select same RF channel for both QE1 and EUT EUT has Standard User Interface

Step	Test Sequence	Verdict	
		Pass	Fail
1	EUT user enters 0000000		
2	EUT user presses the dedicated send key		
3	EUT indicates an audible and / or visible error indication	Yes	No
Observations:			

Test Description			
Identifier:	TD_PMR_1415_01	**Test Purpose:**	TP_PMR_1415_01
Summary:	'Radio receiving a talkgroup call - using wildcard'		
Roles:	CSF	**Configuration:**	CF_IDPMRCSF_01
References:	RQ_001_1415		

```
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 }
}

-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
```

Pre-test conditions:	Select same RF channel for both QE1 and EUT EUT has Standard User Interface EUT is programmed with a 1123456 individual address

Step	Test Sequence	Verdict	
		Pass	**Fail**
1	QE1 user enters 112345*		
2	QE1 user presses the dedicated send key		
3	EUT user receives the Talkgroup call	Yes	No
Observations:			

Test Description			
Identifier:	TD_PMR_1415_02	**Test Purpose:**	TP_PMR_1415_02
Summary:	'Radio receiving a talkgroup call'		
Roles:	CSF	**Configuration:**	CF_IDPMRCSF_01
References:	RQ_001_1415		

```
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 }
}

-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
```

Pre-test conditions:	Select same RF channel for both QE1 and EUT EUT has Standard User Interface EUT is programmed with a 1123456 talkgroup address

Step	Test Sequence	Verdict	
		Pass	**Fail**
1	QE1 user enters 1123456		
2	QE1 user presses the dedicated send key		
3	EUT user receives the Talkgroup call	Yes	No
Observations:			

Test Description			
Identifier:	TD_PMR_1417_01	**Test Purpose:**	TP_PMR_1417_01
Summary:	'Abbreviated dialled digit to address mapping'		
Roles:	CSF	**Configuration:**	CF_IDPMRCSF_01
References:	RQ_001_1417, RQ_001_1417		

```
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 }
}

-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
```

Pre-test conditions:	Select same RF channel for both QE1 and EUT EUT has Standard User Interface EUTis configured for abbreviated dialling		
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	Enter or select an abbreviated dialling string for QE1 on EUT		
2	Press the hash key or dedicated send key on EUT		
3	Check that QE1 receives the individual call	Yes	No
Observations:			

Test Description			
Identifier:	TD_PMR_1417_02	**Test Purpose:**	TP_PMR_1417_02
Summary:	'Abbreviated dialling string with wildcard and no match'		
Roles:	CSF	**Configuration:**	CF_IDPMRCSF_01
References:	RQ_001_1417, RQ_001_1417		

```
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 }
}

-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
```

Pre-test conditions:	Select same RF channel for both QE1 and EUT EUT has Standard User Interface EUTis configured for abbreviated dialling EUT and QE1 addresses are same except for last two or more digits		
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	Enter or select * key on EUT		
2	Press the hash key or dedicated send key on EUT		
3	Check if QE1 receives the talkgroup call	No	Yes
Observations:			

Test Description			
Identifier:	TD_PMR_1417_03	**Test Purpose:**	TP_PMR_1417_03
Summary:	'Abbreviated dialling string with wildcard'		
Roles:	CSF	**Configuration:**	CF_IDPMRCSF_01
References:	RQ_001_1417		

```
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 }
}

-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
```

Pre-test conditions:	Select same RF channel for both QE1 and EUT EUT has Standard User Interface EUTis configured for abbreviated dialling EUT and QE1 addresses are same except for last digit		
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	Enter or select * key on EUT		
2	Press the hash key or dedicated send key on EUT		
3	Check if QE1 receives the talkgroup call	Yes	No
Observations:			

Test Description			
Identifier:	TD_PMR_1418_01	**Test Purpose:**	TP_PMR_1418_01
Summary:	'Talkgroup call'		
Roles:	CSF	**Configuration:**	CF_IDPMRCSF_01
References:	RQ_001_1418, RQ_001_1418		

```
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 }
}

-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
```

Pre-test conditions:	Select same RF channel for both QE1 and EUT EUT has Standard User Interface EUT is configured for masked dialling EUT address digits outside the dialling mask are same as QE1		
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	Enter or select an masked dialling string for QE1 on EUT with * as the last digit		
2	Press the hash key or dedicated send key on EUT		
3	Check that QE1 receives the talkgroup call	Yes	No
Observations:			

Test Description			
Identifier:	TD_PMR_1418_02	**Test Purpose:**	TP_PMR_1418_02
Summary:	'Talkgroup call'		
Roles:	CSF	**Configuration:**	CF_IDPMRCSF_01
References:	RQ_001_1418, RQ_001_1418		

```
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 }
}

-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
```

Pre-test conditions:	Select same RF channel for both QE1 and EUT EUT has Standard User Interface EUTis configured for abbreviated dialling EUT is configured for masked dialling EUT address digits outside the dialling mask are same as QE1

Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	Enter or select an abbreviated masked dialling string for QE1 on EUT with * as the last digit		
2	Press the hash key or dedicated send key on EUT		
3	Check that QE1 receives the talkgroup call	Yes	No
Observations:			

Test Description			
Identifier:	TD_PMR_1420_01	**Test Purpose:**	TP_PMR_1420_01
Summary:	'Broadcast plan'		
Roles:	CSF	**Configuration:**	CF_IDPMRCSF_01
References:	RQ_001_1420, RQ_001_1420		

```
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 }
}

-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
```

Pre-test conditions:	Select same RF channel for both QE1 and EUT EUT has Standard User Interface EUT has an individual address of 1123457 QE1 has an individual address of 1123456

Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	EUT user enters #1*1123456		
2	EUT user presses the dedicated send key		
3	QE1 user receives the Broadcast call	Yes	No
Observations:			

Test Description			
Identifier:	TD_PMR_1420_02	**Test Purpose:**	TP_PMR_1420_02
Summary:	'Broadcast call - abbreviated dialling'		
Roles:	CSF	**Configuration:**	CF_IDPMRCSF_01
References:	RQ_001_1420, RQ_001_1420		

```
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 }
}

-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
```

Pre-test conditions:	Select same RF channel for both QE1 and EUT EUT has Standard User Interface EUT has abbreviated dialling available EUT has an individual address of 1123457 QE1 has an individual address of 1123456

Step	Test Sequence	Verdict	
		Pass	**Fail**
1	EUT user enters #1*112345*		
2	EUT user presses the dedicated send key		
3	QE1 user receives the Broadcast call	Yes	No
Observations:			

Test Description			
Identifier:	TD_PMR_1421_01	**Test Purpose:**	TP_PMR_1421_01
Summary:	'Status call'		
Roles:	CSF	**Configuration:**	CF_IDPMRCSF_01
References:	RQ_001_1421, RQ_001_1421		

```
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 }
}

-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
```

Pre-test conditions:	Select same RF channel for both QE1 and EUT EUT has an individual address of 1234500 EUT has Standard User Interface QE1 has an individual address of 1234567

Step	Test Sequence	Verdict	
		Pass	**Fail**
1	EUT user enters #001*1234567		
2	EUT user presses the dedicated send key		
3	QE1 user receives the Status call indicating 01	Yes	No
Observations:			

Test Description			
Identifier:	TD_PMR_1421_02	**Test Purpose:**	TP_PMR_1421_02
Summary:	'Status call - wrong status code entered'		
Roles:	CSF	**Configuration:**	CF_IDPMRCSF_01
References:	RQ_001_1421		

```
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}
}

-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
```

Pre-test conditions:	Select same RF channel for both QE1 and EUT EUT has an individual address of 1234500 EUT has Standard User Interface		
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	EUT user enters #032*1234567		
2	EUT user presses the dedicated send key		
3	EUT indicates an error	Yes	No
Observations:			

Test Description			
Identifier:	TD_PMR_1423_01	**Test Purpose:**	TP_PMR_1423_01
Summary:	'Force talkgroup service'		
Roles:	CSF	**Configuration:**	CF_IDPMRCSF_01
References:	RQ_001_1423, RQ_001_1423		

```
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 }
}

-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
```

Pre-test conditions:	Select same RF channel for both QE1 and EUT EUT has Standard User Interface EUT has abbreviated dialling available EUT has an individual address of 1122345 QE1 has an individual address of 1122356		
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	EUT user enters #6*1122356		
2	EUT user presses the dedicated send key		
3	QE1 user receives the Talkgroup Call	Yes	No
Observations:			

Test Description			
Identifier:	TD_PMR_1423_02	**Test Purpose:**	TP_PMR_1423_02
Summary:	'Force talkgroup service - abbreviated dialling'		
Roles:	CSF	**Configuration:**	CF_IDPMRCSF_01
References:	RQ_001_1423		

```
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 }
}
-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
```

Pre-test conditions:	Select same RF channel for both QE1 and EUT EUT has Standard User Interface EUT has abbreviated dialling available EUT has an individual address of 1122345 QE1 has an individual address of 1122356

Step	Test Sequence	Verdict	
		Pass	Fail
1	EUT user enters #6*56		
2	EUT user presses dedicated send key		
3	QE1 user receives the Talkgroup Call	Yes	No
Observations:			

Test Description			
Identifier:	TD_PMR_1424_01	**Test Purpose:**	TP_PMR_1424_01
Summary:	'Support of cancel call set-up'		
Roles:	CSF	**Configuration:**	CF_DPMR_01
References:	RQ_001_1424, RQ_001_1424		

```
-- ISF QE1, QE2 and EUT
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 }
}
```

Pre-test conditions:	Select same RF channel for both QE1 and EUT EUT has Standard User Interface EUT has OACSU_enabled EUT has powersave disabled EUT is configured to be Polite to own Colour Code

Step	Test Sequence	Verdict	
		Pass	Fail
1	Cause QE1 to make a continuous PTT call to QE2		
2	Cause EUT to set up an OACSU call to QE2		
3	Does QE2 receive the OACSU call?	No	Yes
4	Cause EUT to cancel the OACSU call		
5	Cause QE1 to stop the PTT call to QE2		
6	Does QE2 receive the OACSU call	No	Yes
Observations:			

```
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'
```

Test Description			
Identifier:	TD_PMR_0852_01	**Test Purpose:**	TP_PMR_0852_01
Summary:	'Support receiving of type 2 CSF individual data free text messages'		
Roles:	CSF	**Configuration:**	CF_IDPMRCSF_01
References:	RQ_001_0852, RQ_001_0852		

```
-- CSF QE1 and EUT
with {     (EUT and QE1 powersave_disabled) and
            EUT in standby
     }
ensure that {
  when  { QE1_User sends a T2_Freetext_Data_Message addressed to EUT }
  then  { EUT_User receives the T2_Freetext_Data_Message }
}

-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
```

Pre-test conditions:	Select same RF channel for both QE1 and EUT QE1 and EUT configured for type 2 data Select or enter address of EUT on QE1		
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	Enter a free text message on QE1		
2	Cause QE1 to send the free text message to EUT using T2 data		
3	Check that EUT receives the free text message	Yes	No
Observations:			

Test Description			
Identifier:	TD_PMR_0852_02	**Test Purpose:**	TP_PMR_0852_02
Summary:	'Support sending of type 2 CSF individual data free text messages'		
Roles:	CSF	**Configuration:**	CF_IDPMRCSF_01
References:	RQ_001_0852		

```
-- CSF QE1 and EUT
with {     (EUT and QE1 powersave_disabled) and
            QE1 in standby
     }
ensure that {
  when  { EUT_User sends a T2_Freetext_Data_Message addressed to QE1 }
  then  { QE1_User receives the T2_Freetext_Data_Message }
}

-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
```

Pre-test conditions:	Select same RF channel for both QE1 and EUT QE1 and EUT configured for type 2 data Select or enter address of QE1 on EUT		
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	Enter a free text message on EUT		
2	Cause EUT to send the free text message to EUT using T2 data		
3	Check that QE1 receives the free text message	Yes	No
Observations:			

Test Description			
Identifier:	TD_PMR_0853_01	**Test Purpose:**	TP_PMR_0853_01
Summary:	'Support receiving of type 1 CSF individual data free text messages'		
Roles:	CSF	**Configuration:**	CF_IDPMRCSF_01
References:	RQ_001_0853, RQ_001_0853		

```
-- CSF QE1 and EUT
with {   (EUT and QE1 powersave_disabled) and
          EUT in standby
     }
ensure that {
  when  { QE1_User sends a T1_Freetext_Data_Message addressed to EUT }
  then  { EUT_User receives the T1_Freetext_Data_Message }
}

-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
```

Pre-test conditions:	Select same RF channel for both QE1 and EUT QE1 and EUT configured for type 1 data Select or enter address of EUT on QE1		
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	Enter a free text message on QE1		
2	Cause QE1 to send the free text message to EUT using T1 data		
3	Check that EUT receives the free text message	Yes	No
Observations:			

Test Description			
Identifier:	TD_PMR_0853_02	**Test Purpose:**	TP_PMR_0853_02
Summary:	'Support sending of type 1 CSF individual data free text messages'		
Roles:	CSF	**Configuration:**	CF_IDPMRCSF_01
References:	RQ_001_0853		

```
-- CSF QE1 and EUT
with {    (EUT and QE1 powersave_disabled) and
           QE1 in standby
     }
ensure that {
  when  { EUT_User sends a T1_Freetext_Data_Message addressed to QE1 }
  then  { QE1_User receives the T1_Freetext_Data_Message }
}

-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
```

Pre-test conditions:	Select same RF channel for both QE1 and EUT QE1 and EUT configured for type 1 data Select or enter address of QE1 on EUT		
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	Enter a free text message on EUT		
2	Cause EUT to send the free text message to QE1 using T1 data		
3	Check that QE1 receives the free text message	Yes	No
Observations:			

```
End group 2.3.1
```

5.2.3.2 ISDM precoded message

```
Group 2.3.2 'ISDM Precoded Message'
```

Test Description			
Identifier:	TD_PMR_0850_01	**Test Purpose:**	TP_PMR_0850_01
Summary:	'Support receiving of type 1 CSF individual data precoded messages'		
Roles:	CSF	**Configuration:**	CF_IDPMRCSF_01
References:	RQ_001_0850, RQ_001_0850		

```
-- CSF QE1 and EUT
with {     (EUT and QE1 powersave_disabled) and
            EUT in standby
     }
ensure that {
  when  { QE1_User sends a T1_Precoded_Data_Message addressed to EUT }
  then  { EUT_User receives the T1_Precoded_Data_Message }
}

-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
```

Pre-test conditions:	Select same RF channel for both QE1 and EUT QE1 and EUT configured for type 1 data Select or enter address of EUT on QE1		
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	Select a precoded message on QE1		
2	Cause QE1 to send the precoded message to EUT using T1 data		
3	Check that EUT receives the precoded message	Yes	No
Observations:			

Test Description			
Identifier:	TD_PMR_0850_02	**Test Purpose:**	TP_PMR_0850_02
Summary:	'Support sending of type 1 CSF individual data precoded messages'		
Roles:	CSF	**Configuration:**	CF_IDPMRCSF_01
References:	RQ_001_0850		

```
-- CSF QE1 and EUT
with {     (EUT and QE1 powersave_disabled) and
            QE1 in standby
     }
ensure that {
  when  { EUT_User sends a T1_Precoded_Data_Message addressed to QE1 }
  then  { QE1_User receives the T1_Precoded_Data_Message }
}

-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
```

Pre-test conditions:	Select same RF channel for both QE1 and EUT QE1 and EUT configured for type 1 data Select or enter address of QE1 on EUT		
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	Select a precoded message on EUT		
2	Cause EUT to send the precoded message to QE1 using T1 data		
3	Check that QE1 receives the precoded message	Yes	No
Observations:			

Test Description			
Identifier:	TD_PMR_0851_01	**Test Purpose:**	TP_PMR_0851_01
Summary:	'Support receiving of type 2 CSF individual data precoded messages'		
Roles:	CSF	**Configuration:**	CF_IDPMRCSF_01
References:	RQ_001_0851, RQ_001_0851		

```
-- CSF QE1 and EUT
with {     (EUT and QE1 powersave_disabled) and
            EUT in standby
     }
ensure that {
  when  { QE1_User sends a T2_Precoded_Data_Message addressed to EUT }
  then  { EUT_User receives the T2_Precoded_Data_Message }
}

-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
```

Pre-test conditions:	Select same RF channel for both QE1 and EUT QE1 and EUT configured for type 2 data Select or enter address of EUT on QE1		
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	Select a precoded message on QE1		
2	Cause QE1 to send the precoded message to EUT using T2 data		
3	Check that EUT receives the precoded message	Yes	No
Observations:			

Test Description			
Identifier:	TD_PMR_0851_02	**Test Purpose:**	TP_PMR_0851_02
Summary:	'Support sending of type 2 CSF individual data precoded messages'		
Roles:	CSF	**Configuration:**	CF_IDPMRCSF_01
References:	RQ_001_0851		

```
-- CSF QE1 and EUT
with {     (EUT and QE1 powersave_disabled) and
            QE1 in standby
     }
ensure that {
  when  { EUT_User sends a T2_Precoded_Data_Message addressed to QE1 }
  then  { QE1_User receives the T2_Precoded_Data_Message }
}

-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
```

Pre-test conditions:	Select same RF channel for both QE1 and EUT QE1 and EUT configured for type 2 data Select or enter address of QE1 on EUT		
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	Select a precoded message on EUT		
2	Cause EUT to send the precoded message to QE1 using T2 data		
3	Check that QE1 receives the precoded message	Yes	No
Observations:			

```
End group 2.3.2
```

5.2.3.3 ISDM short file transfer

```
Group 2.3.3 'ISDM Short File Transfer'
```

Test Description			
Identifier:	TD_PMR_0855_01	**Test Purpose:**	TP_PMR_0855_01
Summary:	'Support receiving of type 3 CSF individual data short file transfer'		
Roles:	CSF	**Configuration:**	CF_IDPMRCSF_01
References:	RQ_001_0855, RQ_001_0855		

```
-- CSF QE1 and EUT
with {     (EUT and QE1 powersave_disabled) and
            EUT in standby
     }
ensure that {
  when  { QE1_User makes a T3_Transmission addressed to EUT }
  then  { EUT_User receives the T3_Transmission }
}

-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
```

Pre-test conditions:	Select same RF channel for both QE1 and EUT QE1 and EUT configured for type 3 data Select or enter address of EUT on QE1 Interface QE1 to the data file source equipment Interface EUT to the data file receiving equipment

Step	Test Sequence	Verdict	
		Pass	Fail
1	Input data file for transfer into QE1		
2	Cause QE1 to transfer the data file to EUT using T3 data		
3	Check that EUT receives and outputs the data file	Yes	No
Observations:			

Test Description			
Identifier:	TD_PMR_0855_02	**Test Purpose:**	TP_PMR_0855_02
Summary:	'Support sending of type 3 CSF individual data short file transfer'		
Roles:	CSF	**Configuration:**	CF_IDPMRCSF_01
References:	RQ_001_0855		

```
-- CSF QE1 and EUT
with {     (EUT and QE1 powersave_disabled) and
            QE1 in standby
     }
ensure that {
  when  { EUT_User makes a T3_Transmission addressed to QE1 }
  then  { QE1_User receives the T3_Transmission }
}

-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
```

Pre-test conditions:	Select same RF channel for both QE1 and EUT QE1 and EUT configured for type 3 data Select or enter address of QE1 on EUT Interface EUT to the data file source equipment Interface QE1 to the data file receiving equipment

Step	Test Sequence	Verdict	
		Pass	Fail
1	Input data file for transfer into EUT		
2	Cause EUT to transfer the data file to QE1 using T3 data		
3	Check that QE1 receives and outputs the data file	Yes	No
Observations:			

Test Description			
Identifier:	TD_PMR_0856_01	**Test Purpose:**	TP_PMR_0856_01
Summary:	'Support receiving of type 2 CSF individual data short file transfer'		
Roles:	CSF	**Configuration:**	CF_IDPMRCSF_01
References:	RQ_001_0856, RQ_001_0856		

```
-- CSF QE1 and EUT
with {     (EUT and QE1 powersave_disabled) and
            EUT in standby
     }
ensure that {
  when  { QE1_User makes a T2_Short_File_Transfer addressed to EUT }
  then  { EUT_User receives the T2_Short_File_Transfer }
}

-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
```

Pre-test conditions:	Select same RF channel for both QE1 and EUT QE1 and EUT configured for type 2 data Select or enter address of EUT on QE1 Interface QE1 to the data file source equipment Interface EUT to the data file receiving equipment

Step	Test Sequence	Verdict	
		Pass	Fail
1	Input data file for transfer into QE1		
2	Cause QE1 to transfer the data file to EUT using T2 data		
3	Check that EUT receives and outputs the data file	Yes	No
Observations:			

Test Description			
Identifier:	TD_PMR_0856_02	**Test Purpose:**	TP_PMR_0856_02
Summary:	'Support sending of type 2 CSF individual data short file transfer'		
Roles:	CSF	**Configuration:**	CF_IDPMRCSF_01
References:	RQ_001_0856		

```
-- CSF QE1 and EUT
with {     (EUT and QE1 powersave_disabled) and
            QE1 in standby
     }
ensure that {
  when  { EUT_User makes a T2_Short_File_Transfer addressed to QE1 }
  then  { QE1_User receives the T2_Short_File_Transfer }
}

-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
```

Pre-test conditions:	Select same RF channel for both QE1 and EUT QE1 and EUT configured for type 2 data Select or enter address of QE1 on EUT Interface EUT to the data file source equipment Interface QE1 to the data file receiving equipment

Step	Test Sequence	Verdict	
		Pass	Fail
1	Input data file for transfer into EUT		
2	Cause EUT to transfer the data file to QE1 using T2 data		
3	Check that QE1 receives and outputs the data file	Yes	No
Observations:			

Test Description			
Identifier:	TD_PMR_0857_01	**Test Purpose:**	TP_PMR_0857_01
Summary:	'Support receiving of type 1 CSF individual data short file transfer'		
Roles:	CSF	**Configuration:**	CF_IDPMRCSF_01
References:	RQ_001_0857, RQ_001_0857		

```
-- CSF QE1 and EUT
with {     (EUT and QE1 powersave_disabled) and
            EUT in standby
     }
ensure that {
  when  { QE1_User makes a T1_Short_File_Transfer addressed to EUT }
  then  { EUT_User receives the T1_Short_File_Transfer }
}

-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
```

Pre-test conditions:	Select same RF channel for both QE1 and EUT QE1 and EUT configured for type 1 data Select or enter address of EUT on QE1 Interface QE1 to the data file source equipment Interface EUT to the data file receiving equipment		
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	Input data file for transfer into QE1		
2	Cause QE1 to transfer the data file to EUT using T1 data		
3	Check that EUT receives and outputs the data file	Yes	No
Observations:			

Test Description			
Identifier:	TD_PMR_0857_02	**Test Purpose:**	TP_PMR_0857_02
Summary:	'Support sending of type 1 CSF individual data short file transfer'		
Roles:	CSF	**Configuration:**	CF_IDPMRCSF_01
References:	RQ_001_0857		

```
-- CSF QE1 and EUT
with {     (EUT and QE1 powersave_disabled) and
            QE1 in standby
     }
ensure that {
  when  { EUT_User makes a T1_Short_File_Transfer addressed to QE1 }
  then  { QE1_User receives the T1_Short_File_Transfer }
}

-- ***** IOP TPs for requirements from chapter 10  ***** --
```

Pre-test conditions:	Select same RF channel for both QE1 and EUT QE1 and EUT configured for type 1 data Select or enter address of QE1 on EUT Interface EUT to the data file source equipment Interface QE1 to the data file receiving equipment		
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	Input data file for transfer into EUT		
2	Cause EUT to transfer the data file to QE1 using T1 data		
3	Check that QE1 receives and outputs the data file	Yes	No
Observations:			

```
End group 2.3.3
```

5.2.3.4 ISDM status message

```
Group 2.3.4 'ISDM Status Message'
```

Test Description			
Identifier:	TD_PMR_0846_01	**Test Purpose:**	TP_PMR_0846_01
Summary:	'Support receiving of type 2 CSF individual data status messages'		
Roles:	CSF	**Configuration:**	CF_IDPMRCSF_01
References:	RQ_001_0846, RQ_001_0846		

```
-- CSF QE1 and EUT
with {     (EUT and QE1 powersave_disabled) and
            EUT in standby
     }
ensure that {
  when  { QE1_User sends a T2_Status_Message addressed to EUT }
  then  { EUT_User receives the T2_Status_Message }
}

-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
```

Pre-test conditions:	Select same RF channel for both QE1 and EUT QE1 and EUT configured for type 2 data Select or enter address of EUT on QE1

Step	Test Sequence	Verdict	
		Pass	Fail
1	Input or select a status message on QE1		
2	Cause QE1 to send the status message to EUT using T2 data		
3	Check that EUT receives the status message	Yes	No
Observations:			

Test Description			
Identifier:	TD_PMR_0846_02	**Test Purpose:**	TP_PMR_0846_02
Summary:	'Support sending of type 2 CSF individual data status messages'		
Roles:	CSF	**Configuration:**	CF_IDPMRCSF_01
References:	RQ_001_0846		

```
-- CSF QE1 and EUT
with {     (EUT and QE1 powersave_disabled) and
            QE1 in standby
     }
ensure that {
  when  { EUT_User sends a T2_Status_Message addressed to QE1 }
  then  { QE1_User receives the T2_Status_Message }
}

-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
```

Pre-test conditions:	Select same RF channel for both QE1 and EUT QE1 and EUT configured for type 2 data Select or enter address of QE1 on EUT

Step	Test Sequence	Verdict	
		Pass	Fail
1	Input or select a status message on EUT		
2	Cause EUT to send the status message to QE1 using T2 data		
3	Check that QE1 receives the status message	Yes	No
Observations:			

Test Description			
Identifier:	TD_PMR_0847_01	**Test Purpose:**	TP_PMR_0847_01
Summary:	'Support receiving of type 1 CSF individual data status messages'		
Roles:	CSF	**Configuration:**	CF_IDPMRCSF_01
References:	RQ_001_0847, RQ_001_0847		

```
-- CSF QE1 and EUT
with {     (EUT and QE1 powersave_disabled) and
            EUT in standby
      }
ensure that {
  when  { QE1_User sends a T1_Status_Message addressed to EUT }
  then  { EUT_User receives the T1_Status_Message }
}

-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
```

Pre-test conditions:	Select same RF channel for both QE1 and EUT QE1 and EUT configured for type 1 data Select or enter address of EUT on QE1		
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	Input or select a status message on QE1		
2	Cause QE1 to send the status message to EUT using T1 data		
3	Check that EUT receives the status message	Yes	No
Observations:			

Test Description			
Identifier:	TD_PMR_0847_02	**Test Purpose:**	TP_PMR_0847_02
Summary:	'Support sending of type 1 CSF individual data status messages'		
Roles:	CSF	**Configuration:**	CF_IDPMRCSF_01
References:	RQ_001_0847		

```
-- CSF QE1 and EUT
with {     (EUT and QE1 powersave_disabled) and
            QE1 in standby
      }
ensure that {
  when  { EUT_User sends a T1_Status_Message addressed to QE1 }
  then  { QE1_User receives the T1_Status_Message }
}

-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
```

Pre-test conditions:	Select same RF channel for both QE1 and EUT QE1 and EUT configured for type 1 data Select or enter address of QE1 on EUT		
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	Input or select a status message on EUT		
2	Cause EUT to send the status message to QE1 using T1 data		
3	Check that QE1 receives the status message	Yes	No
Observations:			

```
End group 2.3.4
End group 2.3
```

5.2.4 OACSU

```
Group 2.4 'OACSU'
```

Test Description			
Identifier:	TD_PMR_0840_01	**Test Purpose:**	TP_PMR_0840_01
Summary:	'Support receiving of OACSU call'		
Roles:	CSF	**Configuration:**	CF_IDPMRCSF_01
References:	RQ_001_0840, RQ_001_0840		

```
-- CSF QE1 and EUT
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 }
}

-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
```

Pre-test conditions:	Select same RF channel for both QE1 and EUT OACSU is enabled for both QE1 and EUT Select or enter address of EUT on QE1		
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	Cause QE1 to set up a voice call with EUT		
2	Check that EUT makes an audible or visual alert of the call set-up request	Yes	No
3	Cause EUT to acknowledge the call set-up request		
4	Check that QE1 makes an audible or visual alert of the call accepted acknowledgement	Yes	No
5	Cause QE1 to transmit voice payload		
6	Check that EUT receives the voice call	Yes	No
Observations:			

Test Description			
Identifier:	TD_PMR_0840_02	**Test Purpose:**	TP_PMR_0840_02
Summary:	'Support sending of OACSU call'		
Roles:	CSF	**Configuration:**	CF_IDPMRCSF_01
References:	RQ_001_0840, RQ_001_0840		

```
-- CSF QE1 and EUT
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 }
}


-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
```

Pre-test conditions:	Select same RF channel for both QE1 and EUT OACSU is enabled for both QE1 and EUT Select or enter address of QE1 on EUT		
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	Cause EUT to set up a voice call with QE1		
2	Check that QE1 makes an audible or visual alert of the call set-up request	Yes	No
3	Cause QE1 to acknowledge the call set-up request		
4	Check that EUT makes an audible or visual alert of the call accepted acknowledgement	Yes	No
5	Cause EUT to transmit voice payload		
6	Check that QE1 receives the voice call	Yes	No
Observations:			

```
End group 2.4
```

5.2.5 short appended data

```
Group 2.5 'Short Appended Data'
```

Test Description			
Identifier:	TD_PMR_0837_01	**Test Purpose:**	TP_PMR_0837_01
Summary:	'Support receiving of CSF appended data'		
Roles:	CSF	**Configuration:**	CF_IDPMRCSF_01
References:	RQ_001_0837, RQ_001_0837		

```
-- CSF QE1 and EUT
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 }
}

-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
```

Pre-test conditions:	Select same RF channel for both QE1 and EUT Select or enter a talkgroup address of EUT on QE1 Preset QE1 with 40 bytes of Data to be appended		
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	Cause QE1 to make a voice call to EUT		
2	Check that EUT receives voice call	Yes	No
3	Cause QE1 to terminate the voice call		
4	Check that EUT receives the 40 byte of appended data		
Observations:	The test data maybe output from the EUT to some data receiving equipment		

Test Description			
Identifier:	TD_PMR_0837_02	**Test Purpose:**	TP_PMR_0837_02
Summary:	'Support sending of CSF appended data'		
Roles:	CSF	**Configuration:**	CF_IDPMRCSF_01
References:	RQ_001_0837		

```
-- CSF QE1 and EUT
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 }
}

-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
```

Pre-test conditions:	Select same RF channel for both QE1 and EUT Select or enter a talkgroup address of QE1 on EUT Preset EUT with 40 bytes of Data to be appended		
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	Cause EUT to make a voice call to QE1		
2	Check that QE1 receives the voice call	Yes	No
3	Cause EUT to terminate the voice call		
4	Check that QE1 receives the 40 bytes of appended data	Yes	No
Observations:	The test data maybe output from the QE1 to some data receiving equipment		

Test Description			
Identifier:	TD_PMR_0844_01	**Test Purpose:**	TP_PMR_0844_01
Summary:	'Support receiving of appended data'		
Roles:	CSF	**Configuration:**	CF_IDPMRCSF_01
References:	RQ_001_0844, RQ_001_0844		

```
-- CSF QE1 and EUT
```

```
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 }
}

-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
```

Pre-test conditions:	Select same RF channel for both QE1 and EUT Select or enter address of EUT on QE1 Preset QE1 with 40 bytes of appended test data		
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	Cause QE1 to make an individual appended data call to EUT		
2	Check that EUT receives the 40 bytes of test data	Yes	No
Observations:			

Test Description			
Identifier:	TD_PMR_0844_02	**Test Purpose:**	TP_PMR_0844_02
Summary:	'Support sending of appended data'		
Roles:	CSF	**Configuration:**	CF_IDPMRCSF_01
References:	RQ_001_0844		

```
-- CSF QE1 and EUT
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 }
}

-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
```

Pre-test conditions:	Select same RF channel for both QE1 and EUT Select or enter address of QE1 on EUT Preset EUT with 40 bytes of appended test data		
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	Cause EUT to make an individual appended data call to QE1		
2	Check that QE1 receives the 40 bytes of test data	Yes	No
Observations:			

```
End group 2.5
```

5.2.6 slow user data

```
Group 2.6 'Slow User Data'

-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
```

Test Description			
Identifier:	TD_PMR_0843_01	**Test Purpose:**	TP_PMR_0843_01
Summary:	'Support receiving of CSF slow user data'		
Roles:	CSF	**Configuration:**	CF_IDPMRCSF_01
References:	RQ_001_0843, RQ_001_0843		

```
-- CSF QE1 and EUT
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 }
}

-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
```

Pre-test conditions:	Select same RF channel for both QE1 and EUT Select or enter address of EUT on QE1 Preset QE1 with 4 bytes of SLD test data		
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	Cause QE1 to make an individual SLD call to EUT		
2	Check that EUT receives the 4 bytes of SLD test data	Yes	No
Observations:			

Test Description			
Identifier:	TD_PMR_0843_02	**Test Purpose:**	TP_PMR_0843_02
Summary:	'Support sending of slow user data'		
Roles:	CSF	**Configuration:**	CF_IDPMRCSF_01
References:	RQ_001_0843		

```
-- CSF QE1 and EUT
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 }
}

-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
```

Pre-test conditions:	Select same RF channel for both QE1 and EUT Select or enter address of QE1 on EUT Preset EUT with 4 bytes of SLD test data		
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	Cause EUT to make an individual SLD call to QE1		
2	Check that QE1 receives the 4 bytes of SLD test data	Yes	No
Observations:			

```
End group 2.6
```

5.2.7 type 3 data

```
Group 2.7 'Type 3 data'
```

Test Description			
Identifier:	TD_PMR_0808_01	**Test Purpose:**	TP_PMR_0808_01
Summary:	'Support receiving of type 3 CSF short data messages'		
Roles:	CSF	**Configuration:**	CF_IDPMRCSF_01
References:	RQ_001_0808, RQ_001_0808		

```
-- CSF QE1 and EUT
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 }
}

-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
```

Pre-test conditions:	Select same RF channel for both QE1 and EUT Select or enter EUT address on QE1		
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	Cause QE1 to send a Type 3 data message to EUT		
2	Check that EUT receives the data message	Yes	No
Observations:			

Test Description			
Identifier:	TD_PMR_0808_02	**Test Purpose:**	TP_PMR_0808_02
Summary:	'Support sending of type 3 CSF short data messages'		
Roles:	CSF	**Configuration:**	CF_IDPMRCSF_01
References:	RQ_001_0808		

```
-- CSF QE1 and EUT
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 }
}

-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
```

Pre-test conditions:	Select same RF channel for both QE1 and EUT Select or enter QE1 address on EUT		
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	Cause EUT to send a Type 3 data message to QE1		
2	Check that QE1 receives the data message	Yes	No
Observations:			

```
End group 2.7
End group 2
```

5.3 ISF

```
Group 3 'ISF'
```

Test Description			
Identifier:	TD_PMR_0804_01	**Test Purpose:**	TP_PMR_0804_01
Summary:	'Support of 255 Common IDs'		
Roles:	ISF	**Configuration:**	CF_IDPMRISF_01
References:	RQ_001_0804, RQ_001_0804		

```
-- ISF QE1 and EUT
with {   QE1 and EUT in standby and
                  using_compatible_vocoders
     }
ensure that {
  when  { QE1 uses a Common_ID between 1 and 254 and
          EUT uses same Common_ID and
          QE1_User makes a Call to EUT  }
  then  { EUT_User receives the Call }
}

-- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
```

Pre-test conditions:	Select same RF channel for both QE1 and EUT Select Common ID of 1 to 254 on QE1 Select same Common ID on EUT		
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	Cause QE1 to make a call		
2	Check that EUT receives the call	Yes	No
Observations:			

```
End group 3
```

Annex A (normative): dPMR TD test configurations

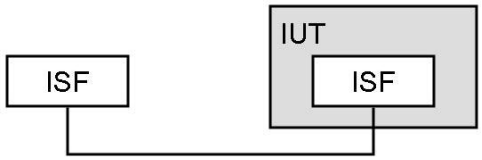

Figure A.1

Annex B (informative): Bibliography

- ETSI ES 202 553: "Methods for testing and Specification (MTS); TPLan: A notation for expressing test Purposes".
- ETSI TS 102 351 (V2.1.1): "Methods for Testing and Specification (MTS); Internet Protocol Testing (IPT); IPv6 Testing: Methodology and Framework".
- ISO/IEC 9646-2: "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 2: Abstract Test Suite specification".

History

Document history		
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