

Suppliers' Information Note

For The Openreach Network

Protocol Implementation Conformance Statements (PICS) for ISDN 2e: Digital Select Services - HOLD TECHNICAL INFORMATION FOR SUPPLIERS

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1. Introduction

This document states the capabilities and options of the DSS1 Layer 3 protocol for Terminal Portability (TP) Digital Select Service on the basic access interface which has been implemented in the ISDN 2e network.

The ETSI protocol specification used as a basis for this PICS proforma is ETS 300 141-1 [1].

The ETSI PICS proforma used as a basis for this PICS is ETS 300 141-2 [2].

2. References

- 1 ETS 300 141-1 (1992) Integrated Services Digital Network (ISDN); Call Hold (HOLD) supplementary service; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification
- 2 ETS 300 141-2 (1996) Integrated Services Digital Network (ISDN); Call Hold (HOLD) supplementary service; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 2: Protocol Implementation Conformance Statement (PICS) proforma specification

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3. Protocol Implementation Conformance Statement (PICS)

Using the relevant standard (see ref. 2), the PICS is given below. The section and table numbering as used in the ETSI standard has been maintained. Only those parts of the standard relevant to the network implementation are given. For guidance on the abbreviations and meaning of the completed PICS tables, see SIN 370, Part A.

Unless stated otherwise, the standard referred to in the **reference** column is the ETS given in reference 1. For glossary of terms used, see the referenced standards [1, 2].

A.4 Identification of the protocol

This PICS proforma applies to the following standard:

ETS 300 141-1 (1992): "Integrated Services Digital Network (ISDN); Call Hold (HOLD) supplementary service; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification".

NOTE: ETS 300 141-1 (1992) was initially published as ETS 300 141 (1992).

A.5 Global statement of conformance

The implementation described in this PICS meets all the mandatory requirements of the referenced standard?

Yes

No

NOTE: Answering "No" to this question indicates non-conformance to the protocol specification. Non-supported mandatory capabilities are to be identified in the PICS, with an explanation of why the implementation is non-conforming. Explanations may be entered in the comments field at the bottom of each table or on attached pages.

In the tabulations which follow, all references are to ETS 300 141-1 [2] unless another numbered reference is explicitly indicated.

A.6 Roles

Table A.1: Type of implementation

| Item | Major role: Does the implementation... | Conditions for status | Status | Reference | Support |
|-------------------------------|--|---|------------|-----------|--|
| Type of implementation | | | | | |
| R 1 | support the HOLD supplementary service? (note 1) | R 2.1 R 2.2 | M O | 5 | [<input checked="" type="checkbox"/>]Yes []No |
| R 2.1 | support user requirements? | | O.1 | 9 | []Yes [<input checked="" type="checkbox"/>]No |
| R 2.2 | support network requirements? | | O.1 | 9 | [<input checked="" type="checkbox"/>]Yes []No |
| R 3.1 | support requirements at the coincident S and T reference point | R 2.1 R 2.2 | O.2 O.3 | 9 | [<input checked="" type="checkbox"/>]Yes []No |
| R 3.2 | support requirements for interworking with private ISDNs (note 2) | R 2.1 R 2.2 | O.2 O.3 | 10 | [<input checked="" type="checkbox"/>]Yes []No |
| R 4.1 | support user requirements at the interface of the served user? | R 2.1 AND R 3.1 NOT (R 2.1 AND R 3.1) | M N/A | 9.1, 9.3 | []Yes []No [<input checked="" type="checkbox"/>]N/A |
| R 4.2 | support user requirements at the interface of the remote user? | | N/A | | N/A |
| R 4.3 | support network requirements at the interface of the served user? | R 2.2 NOT R 2.2 | M N/A | 9.1, 9.3 | [<input checked="" type="checkbox"/>]Yes []No []N/A |
| R 4.4 | support network requirements at the interface of the remote user? | R 2.2 NOT R 2.2 | M N/A | 9.2, 9.4 | [<input checked="" type="checkbox"/>]Yes []No []N/A |
| O.1 | Support of one and only one of these options is required. | | | | |
| O.2 | Support of one and only one of these options is required. | | | | |
| O.3 | Support at least one of these options is required. | | | | |
| NOTE 1: | ETS 300 141-1 [2] contains requirements for the network that can be implemented independently of support of the supplementary service. | | | | |
| NOTE 2: | For a user this role has significance only when the implementation is the service provider. | | | | |
| Comments: | | | | | |

A.7 User

The tables provided in this clause need only to be completed for user implementations, where item R 2.1 above is supported.

A.8 Network

The tables provided in this clause need only to be completed for network implementation where item R 2.2 above is supported.

A.8.1 Major capabilities

Table A.4: Major capabilities - network

| Item | Major capability: Does the implementation support... | Conditions for status | Status | Reference | Support |
|-----------|---|-----------------------|----------|-----------|--|
| MC 3 | General capabilities | | | | |
| MC 3.1 | holding a call in the Active state N10? | R 4.3 NOT R 4.3 | M N/A | 9.1 | [<input checked="" type="checkbox"/>]Yes []No []N/A |
| MC 3.2 | holding a call in the Call Delivered state N4 (outgoing call only)? | R 4.3 NOT R 4.3 | O N/A | 9.1 | [<input checked="" type="checkbox"/>]Yes []No []N/A |
| MC 3.3 | retrieving a held call? | R 4.3 NOT R 4.3 | M N/A | 9.3 | [<input checked="" type="checkbox"/>]Yes []No []N/A |
| MC 3.4 | delivery of notifications to remote users in the Active state N10? | R 4.4 NOT R 4.4 | M N/A | 9.4 | [<input checked="" type="checkbox"/>]Yes []No []N/A |
| MC 3.5 | generation of notifications related to the holding of a call in the Call Delivered state N4? | MC 3.2 NOT MC 3.2 | M N/A | 9.4 | [<input checked="" type="checkbox"/>]Yes []No []N/A |
| MC 4 | Additional procedures for interworking with private ISDNs | | | | |
| MC 4.1 | acceptance of notifications to be delivered to remote users (when the service provider is on a private ISDN)? | R 3.2 NOT R 3.2 | M N/A | 10.1 | [<input checked="" type="checkbox"/>]Yes []No []N/A |
| Comments: | | | | | |

A.8.2 Subsidiary capabilities

No items requiring response.

A.8.3 Protocol data units

No items requiring response.

A.8.4 Protocol data unit parameters

Table A.5: Notification indicator information element values received by the network

| Item | Notification indicator information element values: Does the implementation support... | Conditions for status | Status | Reference | Support |
|-----------|--|-----------------------|----------|-----------|--|
| P 2.1 | Remote hold? | MC 4.1 NOT MC 4.1 | M N/A | 10.1 | [<input checked="" type="checkbox"/>]Yes []No []N/A |
| P 2.2 | Remote retrieval? | MC 4.1 NOT MC 4.1 | M N/A | 10.1 | [<input checked="" type="checkbox"/>]Yes []No []N/A |
| Comments: | | | | | |

Table A.6: Notification indicator information element values transmitted by the network

| Item | Notification indicator information element values: Does the implementation support... | Conditions for status | Status | Reference | Support |
|-----------|--|-----------------------|----------|--------------|--|
| P 2.3 | Remote hold? | MC 3.4 NOT MC 3.4 | M N/A | 7, 9.2, 10.1 | [<input checked="" type="checkbox"/>]Yes []No []N/A |
| P 2.4 | Remote retrieval? | MC 3.4 NOT MC 3.4 | M N/A | 7, 9.2, 10.1 | [<input checked="" type="checkbox"/>]Yes []No []N/A |
| Comments: | | | | | |

A.8.5 Timers

No items requiring response.

A.8.6 Call states

No items requiring response.

4. History

| | | |
|-----------|---|--|
| Issue 1 | Error! Reference source not found. | First Issue |
| Issue 1.1 | June 2014 | Change SINet site references from http://www.sinet.bt.com to http://www.btplc.com/sinet/ |
| Issue 1.2 | August 2020 | Changes to branding, from BT to Openreach including changes to reflect new Openreach SIN site and Openreach SIN email address. |
| Issue 1.2 | August 2021 | Annual Review – no changes required – issue remains unchanged. |