



AMENDMENT

ETS 300 267-1

A1

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**This amendment A1 modifies
the European Telecommunication Standard ETS 300 267-1 (1994)**

**Integrated Services Digital Network (ISDN);
Telephony 7 kHz and videotelephony teleservices;
Digital Subscriber Signalling System No. one (DSS1) protocol;
Part 1: Protocol specification**

ETSI

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Foreword

This amendment to ETS 300 267-1 (1994) has been produced by the Signalling Protocols and Switching (SPS) Technical Committee of the European Telecommunications Standards Institute (ETSI).

The Repeat indicator information element is not defined in ETS 300 102-1 and therefore it should not be mentioned in subclause 5.3, items a) and b). Further editorial changes have been identified.

The name of the field within the High layer compatibility information element is corrected in subclause 5.3, item 3).

The name of the information element in subclause 5.5.1.2, item c) is corrected. Further editorial changes have been identified for items d) and e).

The last paragraph of subclause 5.5.5.1 is amended to deal with the circumstances where reduced subscription exists at the destination network. In this case, the highest supported alternative basic service is offered. The cause value returned back across the network is removed. An editorial correction for the first paragraph of subclause 5.5.5.1 has also been identified.

Subclause 5.6.2.2, item f), and subclause 5.6.5.1 are editorially corrected.

In subclause 6.2.1, the reference within ETS 300 263 is corrected.

In subclause 6.3, the name of the high layer characteristics information field is corrected.

The references to ETS 300 281 in subclause 6.5.1 item 3) and item e), subclause 6.5.2 item 2) and item d), subclause 6.5.3 second paragraph, and subclause 6.5.6 first and second paragraphs are corrected. The correct reference should be to clause 7.

The situations under which tones and announcements can be provided are clarified. Tones and announcements during the establishment phase and during the active phase are provided in subclause 6.5.4 and 7.5.4, whereas tones and announcements on call clearing are covered in subclause 6.5.3 and 7.5.3, despite what is indicated by the subclause titles.

The references in subclause 6.6 item c) and item d) are made more specific.

The reference in subclause 6.7 to a subclause of ETS 300 102-1 is corrected.

The reference in subclause 7.2.1 to ETS 300 264 is corrected.

The name of one of the fields in subclause 7.3, item d) and the name of the high layer characteristics information field are corrected.

In subclause 7.5.1 item 2) and item f) "in-band signalling procedures" is confusing and is amended to "in-band procedures". In item c) the name of the high layer characteristics information field is corrected. The interpretation of the resultant teleservice in the event of the absence of the High layer compatibility information element is improved. Two minor editorial changes have also been identified.

In subclause 7.5.2, item c) the name of the field is corrected. The text referring to the extended audiovisual characteristics identification field is also applied to videotelephony. The closing sentences are made clearer. In item e) "in-band signalling procedures" is amended to "in-band procedures".

In subclause 7.6, item c) and item d) the name of the high layer characteristics information field is incorrectly applied. The interpretation of the resultant teleservice in the event of the absence of the High layer compatibility information element is improved. In addition, in item d), the first "network" is changed to "private ISDN". Text is added for alignment with subclause 7.5.1 item d).

In subclause 7.7, first paragraph, the reference is corrected, and some text to align with subclause 6.7 is added.

Transposition dates	
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Date of latest publication or endorsement of this amendment (dop/e):	31 December 1996
Date of withdrawal of any conflicting National Standard (dow):	31 December 1996

Amendments

Page 12, subclause 5.3, items a) and b)

Replace subclause 5.3, items a) and b) (including notes), with:

- "a) the Bearer capability information element may be repeated in the SETUP message in support of the fallback procedures. Where the Bearer capability information element is repeated in the SETUP message for these procedures, the inclusion of the Low layer compatibility information element shall not occur;

NOTE 1: DSS1, as specified by ITU-T, defines a Repeat indicator information element. This information element is not defined in DSS1 defined for the pan European ISDN, and is not used to indicate this repetition.

- b) the High layer compatibility information element may be repeated in the SETUP message in support of the fallback procedures;"

NOTE 2: DSS1, as specified by ITU-T, defines a Repeat indicator information element. This information element is not defined in DSS1 defined for the pan European ISDN, and is not used to indicate this repetition."

Page 13, subclause 5.3, item 3)

Replace subclause 5.3, item 3) with:

- "3) in the High layer compatibility information element, a value of the high layer characteristics identification field of "110 0000 - videotelephony (Recommendation F.721)" is also defined. This applies only to octet 4;"

Page 15, subclause 5.5.1.2, items c) to e)

Replace subclause 5.5.1.2, item c), item d) and item e) with:

- "c) if the calling user includes a Low layer compatibility information element in a SETUP message containing a repeated Bearer capability information element, even though this is an error condition, the network shall continue normal call handling, i.e. transport the Low layer compatibility information element transparently across the network;
- d) if the calling user receives a call control message other than the CONNECT message containing a Bearer capability information element but without a Progress indicator information element, with progress description #5 "interworking has occurred and has resulted in a telecommunications service change", the calling user shall handle the call in the normal manner;"
- e) if the calling user receives no Bearer capability information element in a call control message other than CONNECT but the Progress indicator information element, with progress description #5 "interworking has occurred and has resulted in a telecommunications service change" present, the calling user shall assume that the bearer service or teleservice corresponds to the first Bearer capability information element that was included in the SETUP message."

Page 18, subclause 5.5.5.1, second paragraph

Replace subclause 5.5.5.1, second paragraph with:

"Each basic telecommunications service has the required Bearer capability information element encodings, and if applicable the required High layer compatibility information element encodings, defined for that service (e.g., see clauses 6 and 7)."

Page 18, subclause 5.5.5.1, last paragraph

Replace subclause 5.5.5.1, last paragraph with:

"The destination network shall optionally perform subscription checks for all valid combinations in the order defined for the particular service (e.g. see clauses 6 and 7). If the user has not subscribed to the prime service, the network shall check for the next following basic service and so on. If a fallback results from these checks, it shall be indicated towards the calling user in the next message to be sent, and the call shall be offered to the called user containing the service information of the highest subscribed basic service. The destination network shall check the applicability of supplementary services for the highest basic service resulting from the subscription checks."

Page 21, subclause 5.6.2.2, item f)

Replace subclause 5.6.2.2, item f) with:

"f) if the network receives a call control message other than the CONNECT message containing a Bearer capability information element, but without a Progress indicator information element with progress description #5 "interworking has occurred and has resulted in a telecommunications service change", the network shall act as if the Progress indicator information element, with progress description #5 "interworking has occurred and has resulted in a telecommunications service change", was present and handle the call in the normal manner;"

Page 22, subclause 5.6.5.1, second paragraph

Replace subclause 5.6.5.1, second paragraph with:

"Each basic telecommunications service has the required Bearer capability information element encodings, and if applicable the required High layer compatibility information element encodings, defined for that service (e.g. see clauses 6 and 7)."

Page 24, subclause 6.2.1, third paragraph

Replace subclause 6.2.1, third paragraph with:

"Various optional subscription arrangements are defined in subclause 6.1 of ETS 300 263 [15]."

Page 24, subclause 6.3, last paragraph

Replace subclause 6.3, last paragraph with:

"The High layer compatibility information element shall use the coding of "telephony" in the high layer characteristics identification field."

Page 25, subclause 6.5.1, item 3)

Replace subclause 6.5.1, item 3) with:

"3) when a CONNECT message is received the in-band protocol entity associated with the user shall initiate the in-band signalling procedures as specified in I-ETS 300 281 [17], clause 7."

Page 26, subclause 6.5.1, item e)

Replace subclause 6.5.1, item e) (excluding the note) with:

"e) if fallback does not occur, when a CONNECT message is received the in-band protocol entity associated with the user shall initiate the in-band signalling procedures as specified in I-ETS 300 281 [17], clause 7;"

Page 26, subclause 6.5.2, item 2)

Replace subclause 6.5.2, item 2) with:

- "2) when a CONNECT ACKNOWLEDGE message is received the in-band protocol entity associated with the user shall initiate the in-band signalling procedures as specified in I-ETS 300 281 [17], clause 7."

Page 27, subclause 6.5.2, item d)

Replace subclause 6.5.2, item d) (excluding the note) with:

- "d) if fallback does not occur, when a CONNECT ACKNOWLEDGE message is received the in-band protocol entity associated with the user shall initiate the in-band signalling procedures as specified in I-ETS 300 281 [17], clause 7;"

Page 27, subclause 6.5.3, second paragraph

Replace subclause 6.5.3, second paragraph with:

"For presenting tones and announcements on clearing, the procedures of ETS 300 102-1 [9] subclause 5.3.4.1, as modified by subclause 5.5.7 of this ETS, shall be used. When a call of the telephony 7 kHz teleservice is in progress in a 7 kHz mode, the tone or announcement shall be presented in a 3,1 kHz mode, encoded according to CCITT Recommendation G.711 [1] A-law. The in-band protocol entity associated with the user shall switch to A-law as specified in I-ETS 300 281 [17], clause 7."

Page 27, subclause 6.5.4, first paragraph

Insert at the end of the first paragraph (preceding the note):

"In-band tones and announcements on call clearing are provided in accordance with subclause 6.5.3."

Page 27, subclause 6.5.6, first and second paragraphs

Replace subclause 6.5.6, first and second paragraphs (preceding the note) with:

"The procedures of ETS 300 102-1 [9] subclause 5.6 shall be used. Prior to these procedures the in-band protocol entity associated with the user shall switch to mode 0U (unframed), A-law as specified in I-ETS 300 281 [17], clause 7.

On receipt of the RESUME ACKNOWLEDGE message, the in-band protocol entity associated with the user shall initiate the in-band signalling procedures as specified in I-ETS 300 281 [17], clause 7."

Page 29, subclause 6.6, items c) and d)

Replace subclause 6.6, item c) and item d) with:

- "c) the destination user shall, except where fallback occurs in the private ISDN, indicate, according to the procedures of subclause 5.6.2, the resultant basic telecommunications service of the call by including a Bearer capability information element in the CONNECT message with the information transfer capability field set to "unrestricted digital information with tones/announcements" or "speech" in which case an ordinary telephony 3,1 kHz teleservice call exists. Where the Bearer capability information element is not present in the CONNECT message, fallback to the telephony 3,1 kHz teleservice shall be assumed to have occurred;
- d) the destination user shall, where fallback occurs in the private ISDN, indicate, according to the procedures of subclause 5.6.2, the resultant basic telecommunications service of the call by including a Bearer capability information element, in the same message as the relevant Progress indicator information element, with the information transfer capability field set to "speech" in which case an ordinary telephony 3,1 kHz teleservice call exists. Where the Bearer capability information element is not present in the same message as the related Progress indicator information element, fallback to the telephony 3,1 kHz teleservice shall be assumed to have occurred."

Page 29, subclause 6.7, first paragraph

Replace subclause 6.7, first paragraph with:

"Where the calling user has indicated that fallback is allowed, interworking with the PSTN shall occur according to the procedures of subclause 5.1.6 and subclause 5.2.6 of ETS 300 102-1 [9], and a Progress indicator information element with a progress description #1 "call is not end-to-end ISDN, further call progress information may be available in-band" shall be sent to the calling user. If interworking does occur to the PSTN, when a CONNECT message is received the in-band protocol entity associated with the user shall initiate the in-band procedures as specified in ETS 300 082 [6], clause 6;"

Page 30, subclause 7.2.1, third paragraph

Replace subclause 7.2.1, third paragraph with:

"Various optional subscription arrangements are defined in subclause 6.1 of ETS 300 264 [16]."

Page 31, subclause 7.3, item d)

Replace subclause 7.3, item d) (excluding the note) with:

"d) where the establishment of an additional channel is required, and the information transfer capability field is set to "unrestricted digital information", for the user information layer one protocol, "Recommendations H.221 and H.242" as described in subclause 5.3 of this ETS."

Page 31, subclause 7.3, second paragraph

Replace subclause 7.3, second paragraph with:

"The High layer compatibility information element shall use the codings of "telephony" and "videotelephony" in the high layer characteristics identification field."

Page 31, subclause 7.5.1, item 2)

Replace subclause 7.5.1, item 2) with:

"2) where ETS 300 102-1 [9], as modified by subclause 5.5.7 of this standard, specifies that tones or announcements should be provided, the in-band protocol entity associated with the user shall initiate the in-band procedures as specified in ETS 300 082 [6], clause 6 in order to provide the tones and announcements;"

Pages 32 and 33, subclause 7.5.1, item c)

Replace subclause 7.5.1, item c) (excluding the subsequent note 2) with:

"c) the network shall, except where fallback occurs in the network, indicate, according to the procedures of subclauses 5.5.1 and 5.5.3, the resultant basic telecommunications service of the call by including in the CONNECT message a Bearer capability information element with the information transfer capability field set to "unrestricted digital information with tones/announcements" or "speech" in which case an ordinary telephony 3,1 kHz teleservice call exists, and, if received, a High layer compatibility information element with the received value, i.e. a high layer characteristics identification field set to "videotelephony" or "telephony" and, for the high layer characteristics identification field set to "videotelephony", an extended audiovisual characteristics identification field set to "capability set of initial channel of Recommendation H.221". Where neither the Bearer capability information element nor the High layer compatibility information element is present in the CONNECT message, fallback to the telephony 3,1 kHz teleservice shall be assumed to have occurred. Where the High layer compatibility information element is not present in the CONNECT message, and the information transfer capability field of the Bearer capability information element is set to "speech", the resultant teleservice is telephony 3,1 kHz. Where the High layer compatibility information element is not present in the CONNECT message, and the information transfer capability field of the Bearer capability information element is set to "unrestricted digital information with tones/announcements" the resultant teleservice is unknown;"

Page 33, subclause 7.5.1, item d)

Replace subclause 7.5.1, item d) (excluding the subsequent note 3) with:

- "d) the network shall, where fallback occurs in the network, indicate, according to the procedures of subclauses 5.5.1 and 5.5.3, the resultant basic telecommunications service of the call by including, in the same message as the relevant Progress indicator information element, a Bearer capability information element with the information transfer capability field set to "speech" in which case an ordinary telephony 3,1 kHz teleservice call exists, and, if such information has been received, a High layer compatibility information element with a high layer characteristics identification field set to "videotelephony" or "telephony". If the High layer characteristics field is set to "videotelephony", and if an extended audiovisual characteristics identification field is included, the network shall set it to the received value, i.e. "capability set of initial channel of Recommendation H.221". Where neither the Bearer capability information element nor the High layer compatibility information element is present in the same message as the related Progress indicator information element, fallback to the telephony 3,1 kHz teleservice shall be assumed to have occurred. Where the High layer compatibility information element is not present in the same message as the related Progress indicator information element, and the information transfer capability field of the Bearer capability information element is set to "speech", the resultant teleservice is telephony 3,1 kHz. Where the High layer compatibility information element is not present in the same message as the related Progress indicator information element, and the information transfer capability field of the Bearer capability information element is set to "unrestricted digital information with tones/announcements", the resultant teleservice is unknown."

Page 33, subclause 7.5.1, item f)

Replace subclause 7.5.1, item f) with:

- "f) if fallback does occur to the telephony 3,1 kHz teleservice, when a CONNECT message is received the in-band protocol entity associated with the user shall initiate the in-band procedures as specified in ETS 300 082 [6], clause 6;"

Page 33, subclause 7.5.1, item h)

In subclause 7.5.1, item h) replace the reference to "subclause 5.6.7 of this ETS" with "subclause 5.5.7 of this ETS".

Page 34, subclause 7.5.2, item c)

Replace subclause 7.5.2, item c) with:

- "c) the destination user may indicate the resultant basic telecommunications service of the call by including in the CONNECT message a Bearer capability information element with the information transfer capability field set to "unrestricted digital information with tones/announcements" or "speech" in which case an ordinary telephony 3,1 kHz teleservice call exists, and a High layer compatibility information element with a high layer characteristics identification field set to "videotelephony" or "telephony". Where the high layer characteristics identification field is set to "videotelephony", and, if the extended audiovisual characteristics identification field was included in the received High layer compatibility information element, the destination user shall set the extended audiovisual characteristics identification field to the value included by the network in the SETUP message (i.e. "capability set of initial channel of Recommendation H.221). Where the Bearer capability information element is not present in the CONNECT message, fallback to the telephony 3,1 kHz teleservice shall be assumed to have occurred, irrespective of the coding of the High layer compatibility information element, if included. Where the Bearer capability information element is present in the CONNECT message, and the High layer compatibility information element is not present, fallback shall be determined by the coding of the Bearer capability information element; if its information transfer capability field is set to "unrestricted digital information with tones/announcements", then fallback to the telephony 7 kHz teleservice shall be assumed to have occurred, and, if it is set to "speech", then fallback to the telephony 3,1 kHz teleservice shall be assumed to have occurred."

Page 34, subclause 7.5.2

Replace subclause 7.5.2, item e) with:

- "e) if fallback does occur to the telephony 3,1 kHz teleservice, when a CONNECT ACKNOWLEDGE message is received the in-band protocol entity associated with the user shall initiate the in-band procedures as specified in ETS 300 082 [6], clause 6;"

Page 35, subclause 7.5.3, second paragraph, first sentence

Replace subclause 7.5.3, second paragraph, first sentence with:

"For presenting tones and announcements on clearing, the procedures of ETS 300 102-1 [9] subclause 5.3.4.1, as modified by subclause 5.5.7 of this ETS, shall be used.

Page 35, subclause 7.5.4, first paragraph

Insert at the end of the first paragraph (preceding the note):

"In-band tones and announcements on call clearing are provided in subclause 7.5.3."

Page 37, subclause 7.6, item c)

Replace subclause 7.6, item c) (excluding the subsequent note 2) with:

- "c) the destination user shall, except where fallback occurs in the private ISDN, indicate, according to the procedures of subclauses 5.6.2 and 5.6.4, the resultant basic telecommunications service of the call by including in the CONNECT message a Bearer capability information element with the information transfer capability field set to "unrestricted digital information with tones/announcements" or "speech" in which case an ordinary telephony 3,1 kHz teleservice call exists, and a High layer compatibility information element with a high layer characteristics identification field set to "videotelephony" or "telephony". Where neither the Bearer capability information element nor the High layer compatibility information element is present in the CONNECT message, fallback to the telephony 3,1 kHz teleservice shall be assumed to have occurred. Where the High layer compatibility information element is not present in the CONNECT message, and the information transfer capability field of the Bearer capability information element is set to "speech", the resultant teleservice is telephony 3,1 kHz. Where the High layer compatibility information element is not present in the CONNECT message, and the information transfer capability field of the Bearer capability information element is set to "unrestricted digital information with tones/announcements" the resultant teleservice is unknown;"

Page 37, subclause 7.6, item d)

Replace subclause 7.6, item d) (excluding the subsequent note 3) with:

- "d) the destination user shall, where fallback occurs in the private ISDN, indicate, according to the procedures of subclauses 5.6.2 and 5.6.4, the resultant basic telecommunications service of the call by including, in the same message as the relevant Progress indicator information element, a Bearer capability information element with the information transfer capability field set to "speech" in which case an ordinary telephony 3,1 kHz teleservice call exists, and, if received from the destination private network, a High layer compatibility information element with a high layer characteristics identification field set to "videotelephony" or "telephony". If the High layer characteristics field is set to "videotelephony", and if an extended audiovisual characteristics identification field is included, the network shall set it to the received value, i.e. "capability set of initial channel of Recommendation H.221". Where neither the Bearer capability information element nor the High layer compatibility information element is present in the same message as the related Progress indicator information element, fallback to the telephony 3,1 kHz teleservice shall be assumed to have occurred. Where the High layer compatibility information element is not present in the same message as the related Progress indicator information element, and the information transfer capability field of the Bearer capability information element is set to "speech", the resultant teleservice is telephony 3,1 kHz. Where the High layer compatibility information element is not present in the same message as the related Progress indicator information element, and the

information transfer capability field of the Bearer capability information element is set to "unrestricted digital information with tones/announcements", the resultant teleservice is unknown."

Page 38, subclause 7.7, first paragraph

Replace subclause 7.7, first paragraph with:

"Where the calling user has indicated that fallback is allowed, interworking with the PSTN shall occur according to the procedures of subclauses 5.1.6 and 5.2.6 of ETS 300 102-1 [9], and a Progress indicator information element with a progress description #1 "call is not end-to-end ISDN, further call progress information may be available in-band" shall be sent to the calling user. If interworking does occur to the PSTN, when a CONNECT message is received the in-band protocol entity associated with the user shall initiate the in-band procedures as specified in ETS 300 082 [6], clause 6."

History

Document history	
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March 1996	Amendment 1 to First Edition