International Telecommunication Union

ITU-T

TELECOMMUNICATION
STANDARDIZATION SECTOR
OF ITU

V.75

Corrigendum 1

(01/2005)

SERIES V: DATA COMMUNICATION OVER THE TELEPHONE NETWORK

Simultaneous transmission of data and other signals

DSVD terminal control procedures

Corrigendum 1

ITU-T Recommendation V.75 (1996) – Corrigendum 1

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ITU-T Recommendation V.75

DSVD terminal control procedures

Corrigendum 1

Summary

This corrigendum addresses corrections and clarifications in ITU-T Rec. V.75 (1996) concerning errors and omissions in Tables 3 and 6, positioning of segmentation/reassembly header, negotiation of suspend/resume option, usage of H.245 "portNumber", normative references, and update of the ASN.1 regarding N401 Value Range, H.245 codepoints for V.42 *bis* on an ERM channel, and codepoint for G.729 Annex B.

Source

Corrigendum 1 to ITU-T Recommendation V.75 (1996) was approved on 8 January 2005 by ITU-T Study Group 16 (2005-2008) under the ITU-T Recommendation A.8 procedure.

FOREWORD

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ITU-T Recommendation V.75

DSVD terminal control procedures

1) Corrections to Table 3/V.75

Amend Table 3/V.75 as indicated by the underlined:

Table 3/V.75 – L-ESTABLISH user-data parameters

L-ESTABLISH			
MF primitives	**Applicable H.245 parameters**	**CE reference**	**Comments**
– request	– OpenLogicalChannel.forwardLogicalChannel Number.LogicalChannelNumber	1a.1	
– indication	– OpenLogicalChannel.forwardLogicalChannel Parameters.portNumber	1a.9	– required to be present for DSVD and shall identify a logical channel user.
	– OpenLogicalChannel.forwardLogicalChannel Parameters.multiplexParameters.v76Logical ChannelParameters	1a.4 – 1a.8	– shall be present for DSVD
	– OpenLogicalChannel.reverseLogicalChannel Parameters.multiplexParameters.v76Logical ChannelParameters	1a.4 – 1a.8	– shall be present for DSVD
	– OpenLogicalChannel.forwardLogicalChannel Parameters.v76Parameters.v75Parameters	1a.3	– shall be present for DSVD
	– OpenLogicalChannel.forwardLogicalChannel Parameters.dataType.AudioData	1a.10	
	– OpenLogicalChannel.forwardLogicalChannel Parameters.dataType.dataDataApplication Capability	1a.10	
	– OpenLogicalChannel.reverseLogicalChannel Parameters	1a.11	– shall be present for DSVD
	– OpenLogicalChannel.reverseLogicalChannel Parameters.v76Parameters.v75Parameters	1a.3	– shall be present for DSVD
	– OpenLogicalChannel.reverseLogicalChannel Parameters.dataType	1a.11	– identical to forward datatype parameters with the exception of the AudioCapability INTEGER
– response – confirm	– OpenLogicalChannelAck.forwardLogical ChannelNumber	1a.12	
	– OpenLogicalChannelAck.portNumber	1a.12	– shall be present for DSVD

2) Missing H.245 message specifications in Table 6/V.75

Implement the following two changes:

- *Add "– TerminalCapabilitySet.sequenceNumber" as first entry in 2nd column of Table 6/V.75.*
- *Add "– RequestMode.ModeDescription.ModeElement.V76ModeParameters" below " – Endsession" entry in 2nd column of Table 6/V.75.*

Table 6/V.75 – L-DATA user-data parameters

L-DATA			
MF primitives	**Valid H.245 parameters**	**CE reference**	**Comments**
– request	– TerminalCapabilitySet.sequenceNumber		
– indication	– TerminalCapabilitySet.OBJECTIDENTIFIER	N/A	= {0 0 8 245 0 1}
	– TerminalCapabilitySet.MultiplexCapability. VGMUX Capability	1a.17, 1a.18	– required to be present for DSVD, all subparameters apply
	– TerminalCapabilitySet.capabilityTable	N/A	– required to be present for DSVD
	– TerminalCapabilitySet.capabilityTable.capability	N/A	– required to be present for DSVD
	– TerminalCapabilitySet.capabilityTable.capability. receiveandTransmitAudioCapability	1a.20	– all subparameters apply
	– TerminalCapabilitySet.capabilityTable.capability. receiveandTransmitDataApplicationCapability	1a.20	– all subparameters apply
	– TerminalCapabilitySet.capabilityDescriptors. CapabilityDescriptorNumber	N/A	
	– TerminalCapabilitySet.capabilityDescriptors. simultaneousCapabilities	1a.22	– required to be present for DSVD
	– TerminalCapabilitySet.capabilityDescriptors. simultaneousCapabilities. AlternativeCapabilitySet	1a.23	
	– EndSessionCommand	1a.22	– all subparameters apply
	– RequestMode.ModeDescription.ModeElement. V76ModeParameters		
– response – confirm (acknow-ledgement)	– TerminalCapabilitySetAck.sequenceNumber	N/A	= 0 for DSVD
– response – confirm (reject)	– TerminalCapabilitySetReject.cause.unspecified	1a.21	– all subparameters apply

3) Clarification on usage of H.245 "portNumber"

Add the following text to the end of clause 8.1:

"NOTE – The portNumber parameter shall have a default value of "0", which indicates an "unspecified" input or output association. Use of other values of this parameter is for further study."

4) Addition of codepoint for G.729 Annex B

Implement the following two changes:

- *Add G.729 Annex B to clause 2 (References):*

  ITU-T Recommendation G.729 Annex B (1996), *A silence compression scheme for G.729 optimized for terminals conforming to Recommendation V.70.*

- *In Annex A (H.245 version 1 syntax additions for V.75 control functions), replace the definition of AudioCapability with the following:*

```
AudioCapability                          ::=CHOICE
{
     nonStandard                         nonStandardParameter,
     g711Alaw64k                         INTEGER(1..256),
     g711Alaw56k                         INTEGER(1..256),
     g711Ulaw64k                         INTEGER(1..256),
     g711Ulaw56k                         INTEGER(1..256),
     g722-64k                            INTEGER(1..256),
     g722-56k                            INTEGER(1..256),
     g722-48k                            INTEGER(1..256),

     g7231                               SEQUENCE
     {
          maxAI-sduAudioFrames           INTEGER(1..256),
          silenceSuppression             BOOLEAN
     },

     g728                                INTEGER(1..256),
     g729                                INTEGER(1..256),
     g729AnnexA                          INTEGER(1..256),
     is11172AudioCapability              is11172AudioCapability,
     is13818AudioCapability              is13818AudioCapability,
     …,
     g729wAnnexB                         INTEGER(1..256),
     g729AnnexAwAnnexB                   INTEGER(1..256)
}
```

5) Reference to ISO 13239

- *Add reference to ISO 13239 (formerly ISO 3309) in clause 8.3.1:*

  "For the purposes of DSVD sessions, data link parameters associated with the "parameter negotiation" and "private parameter negotiation" subfield shall be included as user-data in the H.245 **TerminalCapabilitySet** message within an L-SETPARM primitive. The user-data of an L-SETPARM primitive shall be contained within an ISO 13239 FI field encoded as "133_D"."

- *Insert in clause 2, References:*

  ISO/IEC 13239:2002, *Information technology – Telecommunications and information exchange between systems – High-level data link control (HDLC) procedures.*

6) Correction positioning of segmentation/reassembly header

Amend the first paragraph of clause 11.1 to read:

"An H-header octet shall be ~~is~~ added as the first octet in the information ~~before the address~~ field of every ~~the~~ frame to be transmitted on the DLC. The format of the H octet is shown in Figure 2. "

7) N401 Value Range

In Annex A, change the following data structure in the annex of V.75 as in the underlined:

```
V76HDLCParameters                ::=SEQUENCE
{
     crcLength                   CRCLength,
     n401                        INTEGER (1..127)(1..4095),
     loopbackTestProcedure       BOOLEAN,
          …
}
```

8) Negotiation of suspend/resume option

In Annex A, replace the definition of V76LogicalChannelParameters with the following:

```
V76LogicalChannelParameters      ::=SEQUENCE
{
  hdlcParameters                 V76HDLCParameters,
  suspendResume                  CHOICE
  {
     noSuspendResume             NULL,
     suspendResumewAddress       NULL,
     suspendResumewoAddress      NULL,
        …
  },
  uIH                            BOOLEAN,
  mode                           CHOICE
  {
        eRM                      SEQUENCE
        {
             windowSize          INTEGER (1..127),
             recovery            CHOICE
             {
                  rej            NULL,
                  sREJ           NULL,
                  mSREJ          NULL,
                  …
             },
             …
        },
        uNERM                    NULL,
        …
  },
  v75Parameters                  V75Parameters,
  …
}
```

9) Addition of H.245 codepoints for V.42 *bis* on an ERM channel

In Annex A, replace the definition of DataProtocolCapability, CompressionType, and V42bis with the following:

```
DataProtocolCapability  :=  CHOICE
{
     nonStandard                            NonStandardParameter,
     v14buffered                            NULL,
     v42lapm                                NULL,
     hdlcFrameTunnelling                    NULL,
     h310SeparateVCStack                    NULL,
     h310SingleVCStack                      NULL,
     transparent                            NULL,
     …,
     segmentationAndReassembly              NULL,
     hdlcFrameTunnellingwSAR                NULL,
     v120                                   NULL,  -- as in ITU-T Rec. H.230
     separateLANStack                       NULL,
     v76wCompression                        CHOICE
     {
          transmitCompression               CompressionType,  -- P0=1
          receiveCompression                CompressionType,  -- P0=2
          transmitAndReceiveCompression     CompressionType,  -- P0=3
          …
     }
}

CompressionType ::=CHOICE                   -- Newly added structure
{
     v42bis             V42bis,             -- Future methods of compression will
     …                                      -- have to be added after the ext.
                                            -- marker
}

V42bis       ::=SEQUENCE                    -- Newly added structure
{
     numberOfCodewords            INTEGER (1..65536),   -- P1
     maximumStringLength          INTEGER (1..256),     -- P2
     …
}
```

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