

I n t e r n a t i o n a l   T e l e c o m m u n i c a t i o n   U n i o n

**ITU-T**

TELECOMMUNICATION  
STANDARDIZATION SECTOR  
OF ITU

**V.152**

**Corrigendum 1**  
(09/2005)

SERIES V: DATA COMMUNICATION OVER THE  
TELEPHONE NETWORK

Interworking with other networks

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Procedures for supporting voice-band data over  
IP networks

**Corrigendum 1**

ITU-T Recommendation V.152 (2005) – Corrigendum 1



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# **ITU-T Recommendation V.152**

## **Procedures for supporting voice-band data over IP networks**

### **Corrigendum 1**

#### **Summary**

This corrigendum contains clarification to clauses 7.1 and 7.1.1.

#### **Source**

Corrigendum 1 to ITU-T Recommendation V.152 (2005) was approved on 13 September 2005 by ITU-T Study Group 16 (2005-2008) under the ITU-T Recommendation A.8 procedure.

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# ITU-T Recommendation V.152

## Procedures for supporting voice-band data over IP networks

### Corrigendum 1

#### 1) Clarification to clause 7.1

##### Description:

The meaning of the parameter setting "vbd=no" is clarified.

##### Change:

*Replace the text of clause 7.1 with the following:*

#### 7.1 Negotiation using Session Description Protocol (SDP)

For implementations that use the Session Description Protocol the 'gpmd' (general-purpose media descriptor) attribute shall be used to associate payload types in a media information ('m') line with VBD mode. The general form of this attribute line is:

```
a=gpmd:<format> <parameter list>
```

In the context of VBD declaration, the <format> must be an RTP/AVP payload type. The <parameter list> is a semicolon-separated list of "parameter=value" pairs. For RTP/AVP formats, these pairs address parameters that are not part of their standard MIME definition. For sessions supporting this Recommendation, the parameter of interest is the Boolean 'vbd' that may have the value of 'yes' or 'no'. When set to 'yes' the attribute indicates that the implementation supports VBD mode as described in this Recommendation.

Omission of the 'gpmd' attribute with a "vbd=yes" attribute/value pair for any codec in the SDP session description shall be construed as non-support of VBD mode operation as defined in this Recommendation.

Setting vbd=no is an explicit indication that the payload type will not be used for vbd.

Note that this is not the same as omitting the gpmd attribute with vbd.

#### 2) Clarification to clause 7.1.1

##### Description:

Clarification is added on the Reserve Properties Mechanism for H.248-controlled VBD over IP.

##### Change:

*Amend clause 7.1.1 as marked in the following:*

#### 7.1.1 Mechanism for indicating support of V.152 using H.248/Megaco

Under H.248, the Media Gateway Controller (MGC) uses Local and Remote descriptors to reserve and commit MG resources for media decoding and encoding for the given Stream(s) and Termination to which they apply. The MG includes these descriptors in its response to indicate what it is actually prepared to support. When text encoding the protocol, the descriptors consist of SDP session descriptions that describe the call capabilities.

Support of V.152 shall only be applied on Ephemeral terminations, via the Local and/or Remote descriptors.

For an MG to reserve and commit resources for more than one call capability alternative, the MGC must set the ReserveGroup and ReserveValue properties of the LocalControlDescriptor to 'True'.

Thus, if a list of payload types is offered in a Local and/or Remote descriptor, such as the following example 3 of a Add ephemeral termination command illustrates (note similar applies if the command was a Modify or Move), the media gateway will select from the list only those payloads for which it can reserve and commit resources and shall send a reply to the MGC containing the alternatives for the Local and/or Remote descriptor that it selected, as described in ITU-T Rec. H.248.1:

### Example 3a

```
MGC to MG:
MEGACO/1.0 [123.123.123.4]:55555
Transaction = 11 {
  Context = $ {
    Add = $ {
      Media {
        Stream = 1 {
          LocalControl { Mode = ReceiveOnly, ReserveGroup = True,
                        ReserveValue = True},
          Local {
v=0
c=IN IP4 $
m=audio $ RTP/AVP 18 0 98 99
a=rtpmap:98 PCMU/8000
a=gpmid:98 vbd=yes
a=rtpmap:99 G726-32/8000
a=gpmid:99 vbd=yes

          }; IP termination for audio and VBD
        }
      }
    }
  }
}
```

Alternatively, a MGC may leave it up to the MG whether it wants to indicate that it supports VBD as per this Recommendation and to select its dynamic payload type for VBD mode of operation, by including CHOOSE (i.e., \$) in the payload type list field as example 3a illustrates:

### Example 3b

```
MGC to MG:
MEGACO/1.0 [123.123.123.4]:55555
Transaction = 11 {
  Context = $ {
    Add = $ {
      Media {
        Stream = 1 {
          LocalControl { Mode = ReceiveOnly, ReserveGroup = True,
                        ReserveValue = True},
          Local {
v=0
c=IN IP4 $
m=audio $ RTP/AVP 18 0 $
```









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