

Question(s): 14/16

Geneva, 26 October - 6 November 2009

TEMPORARY DOCUMENT

Source: Rapporteur Q14/16

Title: Response to received Liaison on Interoperability issues with V.152 [and T.38](#)
gateways

LIAISON STATEMENT

For action to: ETSI TISPAN WG3

For comment to: -

For information to: -

Approval: ITU-T SG 16 meeting (Geneva, 26 October - 6 November 2009)

Deadline: July 2010

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Q14/16 wishes to thank ETSI TISPAN WG3 for its response to our prior request on inter-operability aspects and considerations of equipment supporting ITU-T V.152. [We appreciate the inputs on ITU-T T.38 that you also provided. This response provides our comments to the two Liaison Statements that you sent to us.](#)

V.152 Interoperability

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Q14/16 took note of the following four points (from LS [ITU-T reference T09-SG16-091026-TD-GEN-0120], ETSI TISPAN#20 meeting, 03/2009).

Point 1: ETSI TISPAN requested clarification on the statement in V.152 clause 1; “A V.152 gateway only has the guarantee of inter-working with another gateway if that gateway also supports V.152”.

It was agreed to add a sentence to the above text in ITU-T V.152. We hope that this provides the necessary clarification being requested.

The modified text now becomes; “A V.152 gateway only has the guarantee of inter-working with another gateway if that gateway also supports V.152. This does not preclude the inter-working with non-V.152 gateways, however there are no guarantees of performance and supported functionality with such systems.”

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Point 2: ETSI TISPAN requested that further clarification on the binding of the VBD handling actions and the VBD codec be provided. The group discussed this at length but were unable to unambiguously understand the full nature of the question. Q14/16 respectfully requests that ETSI TISPAN WG3 provide additional information on the issue and perhaps even provide text that they would like to see be included in V.152 on this particular point.

Point 3: ETSI TISPAN noted the inconsistency of not requiring packet side detection of VBD stimuli in V.152 clause 9 and then the stated need in V.152 Clause 8 of being able to detect 2100Hz to control echo cancellers in the gateway. The group discussed this and the following solution is being considered by the group.

[A gateway may provide IP side in-band based detection of VBD stimuli in order to control and manage VBD modes. If a gateway does not support such in-band based detection mechanism it shall at a minimum support the appropriate set of Network Telephony events (NTE) as described by RFC 4733 to allow a remote gateway to provide the necessary information to the peer gateway (via RTP NTE packets).]

This proposal indicates a change in the mandatory behaviour of a gateway and will be subject of review and consideration by the group before being included into any text of the Recommendation. Comments and feedback are welcome.

Point 4: ETSI TISPAN requested the groups comments on a scenario of a call between a V152 compliant MG and a SIP Residential Gateway which supports the VBD media attribute (a=gpmv: vbd=yes) but not a dynamic payload type (thus a non-V.152 compliant SIP gateway). The group agreed to request ETSI TISPAN for more information due to below listed questions and will discuss this scenario and provide feedback at a later time.

Observations/questions to indicated SIP/SDP offer/answer scenario:

1. The H.248 MG is V.152 compliant, but the SDP offer is sent by the SIP server housing the "H.248 MGC function", thus not by the H.248 MG directly as indicated?
2. The H.248 side as SDP offerer must conclude from the received SDP answer that the SIP GW is not V.152 compliant, because the SDP answerer did delete the requested V.152 VBD configuration.
3. However, in the subsequent SDP offer/answer cycle, initiated by the SIP gateway via a SIP re-INVITE, the SIP gateway is using V.152 SDP information elements, which should be confusing for the H.248 side.
4. There are two call phase indicated by the two SDP offer/answer cycles:
 - Phase 1 would be a "audio only" mode with PCMA as (audio) media format, but without any VBD support (due to the reject by the SIP gateway as answerer);
 - Phase 2 would be (under the condition that the H.248 side would accept that SDP offer) a "VBD only" mode with PCMA as (VBD) media format, using static RTP PT value for PCMA as V.152 VBD codec, but without any audio support (because V.152 does not allow to use the same RTP PT value for both audio and VBD mode).

Is this understanding correct? It has to be noted that V.152 defines a two-state model (audio, VBD), whereas call phase would just use one-state model consecutively.

Q14/16 took note of the additional two V.152 requirements as described in the Liaison Statement from ETSI TISPAN [ITU-T reference T09-SG16-091026-TD-GEN-0198], ETSI TISPAN#22 meeting, 09/2009) and in conjunction with Contributions C321 and C322, Q14/16 agreed to incorporate text supporting both SIP/SDP based mid-call negotiations and revised SDP Offer/Answer methods. The intention is to submit revised Recommendation ITU-T V.152 for consent at the next (July 2010) meeting of ITU-T Study Group 16.

T.38 Interoperability

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Q14/16 also reviewed the two T.38 points (from LS [ITU-T reference T09-SG16-091026-TD-GEN-0198], ETSI TISPAN#22 meeting, 09/2009). Also in conjunction Contributions C319 and C320, Q14/16 agreed to add text to support autonomous transitioning of SIP/SDP-controlled T.38 endpoints and revised SDP Offer/Answer methods . The intention is to submit revised Recommendation ITU-T T.38 for consent at the next (July 2010) meeting of ITU-T Study Group 16.

The latest versions of the proposed drafts of Recommendations ITU-T V.152 and T.38 can be obtained at the following URL. [insert valid link here]

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