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## **STUDY GROUP 11 – REPORT R 111**

SOURCE\*: STUDY GROUP 11

TITLE: IMPLEMENTORS' GUIDE (05/98) FOR RECOMMENDATION Q.753 (06/97)

### **Summary**

This document contains the enhancements to MRVT parameter values to give additional diagnostics when a loop is detected in the MTP routing tables during an MTP Routing Verification Test.

## **1 Introduction**

### **1.1 References**

- [1] ITU-T Recommendation Q.753 (06/97): Signalling System No. 7 management functions MRVT, SRVT and CVT, and definition of the OMASE-User.

### **1.2 Background**

This guide is a compilation of a minor upgrade to the 1997 edition of the ITU-T Recommendation Q.753. There are no corrections identified. The guide is intended to be an additional authoritative source of information for implementors to be read in conjunction with the Recommendation itself.

### **1.3 Scope of the guide**

This guide records minor enhancements to the Recommendation in the following category:

- increased interoperability.

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## 1.4 Contacts

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## 1.5 Document history

Version	Summary
05/98	New Implementors' Guide

## 2 Q.753 changes

Section 2.2.2.3 should be changed to:

### "2.2.2.3 The MTP Routing Verification Result (MRVR) message

There are two types of MRVR message, one with and one without optional parameters. The type containing optional parameters (routeTraceNew) may only be used if the MRVT or MRVA message triggering it contained the optional infoRequest parameter or copyData parameter, respectively.

The MRVR message is sent from an SP to the initiator of the MTP routing verification test, and also on receipt in the MTP of a message for an unknown destination (see 2.3.3/Q.704). It contains:

- a) information indicating an MRVR message;
- b) the Point Code of the tested destination;
- c) the result of the test;
- d) the information field.

The content of this information field depends on the result of the test. It contains:

- i) if the result of the test is "success":
  - the pointCodesTraversed parameter contained in the MRVT message;
  - optionally, the route priority list contained in the MRVT message;
- ii) if the result of the test is "detected loop":
  - the pointCodesTraversed parameter contained in the received MRVT message augmented in order by the point code of the SP detecting the loop and the point code of the SP completing the loop (i.e. the PC in list "A" mentioned in clause 2.2.4.2.1 e) 3) iv) [a] ).;
  - optionally, the route priority list contained in the MRVT message augmented by the priority of the route to the test destination via the SP completing the loop;
- iii) if the result of the test is "detected excessive length route":
  - the pointCodesTraversed parameter contained in the MRVT message;
  - optionally, the route priority list contained in the MRVT message;

- iv) if the result of the test is "unknown Destination Point Code":
  - either no additional information, or:
  - optionally, but only if the prompting MRVT message contained the infoRequest parameter requesting them, the routePriorityList and pointCodesTraversed parameters of the MRVT;
- v) if the result of the test is "MRVT not sent due to inaccessibility":
  - the Point Code of the inaccessible SP;
  - optionally, but only if the prompting MRVT message requested it with the infoRequest parameter, if more than one SP were inaccessible, a list of all the inaccessible SPs;
- vi) if the result of the test is "MRVA not received":
  - the identity of the SP(s) from which an MRVA was not received when expected;
- vii) if the result of the test is "unknown initiator Point Code":
  - the Point Code of the SP returning an MRVA that caused the MRVR to be sent;
  - optionally, any information from the MRVA message that it requested to be sent (in the copyData parameter);
- viii) if the result of the test is "test cannot be run due to local conditions" (i.e. "processingFailure"):
  - either no additional information, or:
  - optionally, but only if the prompting MRVT message requested it with the infoRequest parameter, the Point Code of the SP where the test could not be run;
- ix) if the result of the test is "intermediate SP does not have the MTP transfer function":
  - the pointCodesTraversed parameter;
  - optionally, the route priority list contained in the MRVT message;
- x) if the result of the test is "indirect route":
  - the point code of the SP from which the prompting MRVT was sent, through which no direct return route is available (the OPC in the MTP label of the MRVR message indicates the SP which does not contain the direct route);
- xi) if the result of the test is "maximum number of MRV Tests already running at the SP":
  - either no additional information, or:
  - optionally, but only if the prompting MRVT message requested it with the infoRequest parameter, the Point Code of the SP where the test could not be run;
- e) optionally, if the MRVR message was prompted by an MRVT message, if the SP receiving the MRVT did not understand some of the parameters in it, and the returnUnknownParams parameter was in the MRVT and indicated a selection of these unrecognized MRVT parameters, a copyData parameter containing the selection is put into the MRVR. Each such selected parameter is copied completely (i.e. its tag, length and value is put into the copyData parameter).

Note that the SCCP class 1 service should be used, with the sequence information the same as that of any other associated MRVR messages and the MRVA message to be sent."