



OMANTEL

REFERENCE

INTERCONNECTION

OFFER

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ANNEX D

INTERFACE TESTING PROCEDURES



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1 Introduction

- 1.1 The following tests are in addition to any interoperability tests which may be required to ensure the basic interoperability of the generic software used by each party.
- 1.2 The following tests are performed each time a new Point Of Interconnection is established or additional capacity added to an existing route.

2 Tests on Digital 2 Mbps circuits

2.1 Below are described all tests on digital 2 Mbps circuits that are dynamic and out of service

Error performance measurements accordingly to G.826 ITU-T.

2.2 Error Performance measurements will be performed end to end for E1 circuits provided over transmission systems in order to comply with ITU-T Recommendations: G.826.

2.3 End-to-end error performance objectives for a 27 500 km international digital HRP at or above the primary rate are:

2.3.1 Rate 2.048Mbps

2.3.2 Bits/block 2048

2.3.3 Errored Second Ratio - ESR 0.04

2.3.4 Severely Errored Second Ratio- SESR 0.002

2.3.5 Background Block Error Ratio- BBER 2×10^{-4} (Note 1)

NOTE 1 – For systems designed prior to 1996, the BBER objective 3×10^{-4} .

2.4 The allocation for the error performance objectives to the national portion of the end-to-end path will be done according to G.826 Recommendation.

2.5 The duration of the above test is at least 24 consecutive hours.



3 Call Completion Tests

Signalling SS7

- 3.1 All of the following tests will be performed with test calls from Omantel's network to the Operator's network, and vice versa, according to the services provided by the two networks.
- 3.2 The following tests will be performed in respect of all types of digital exchanges which are operated by Omantel and which are available for the establishment of interconnection and in respect of all exchanges and equipment of the Operator which will be used for the purposes of interconnection.

Call Routing

- 3.3 The correct data routing configuration of digital exchanges is checked by performing relevant test calls, as it described below:
 - 3.3.1 Calls originating in the Operator network and terminating in Omantel's network for single transit, double transit, through all covered regions and the respective interconnection exchanges.
 - 3.3.2 Calls originating in the Operator network, which transit through Omantel's network and terminate in a third party network
 - 3.3.3 Calls from each party to the other, in order to check the validity of the calling number at the terminating point according to National Numbering Plan.
 - 3.3.4 Calls originating from the Operator to all 3-4 digits services supplied by Omantel or a third party, according to the agreement
 - 3.3.5 Calls originating from the Operator to IN services, according to the agreement
 - 3.3.6 Calls originating from the Operator to Premium Rate Services, according to the Agreement between the parties in respect of such services.



4 Charging Tests

- 4.1 In order to ensure accurate charging of the services provided, according to the agreements the following tests will be performed:
- 4.2 For all interconnect call cases included in paragraph 4.3 of this Annex D the transmission/ reception of the charging parameters will be checked bilaterally.
- 4.3 The error-free charging registration in files (Volume of calls and total duration in min.) per service for all charging periods (peak and off-peak time) will be checked.
- 4.4 The comparison of charging files between both parties in order to ensure the matching of record.
- 4.5 The accuracy of the information provided by each party regarding the total volume of interconnect traffic during the billing period which is exchanged periodically between the parties in order to settle payments.



5 Confidence Testing

- 5.1 The confidence tests shall start after the common technical test for interconnection has been completed. During one month starting from the time interconnection becomes operational the parties shall monitor the signalling traffic and the services traffic in order to see that the standards in this Annex are being met.
- 5.2 For SS7 the parties shall verify the messages are sent only for the agreed destinations and for the agreed services and meet the resilience criteria.