

Test Report of Certification

innovaphone

IP400 V3.0 (01-3200)

IP3000 V3.0 (01-3200)

with

SIEMENS

Hicom 150E OfficePro V2.2

**Interworking Test
QSIG ECMA V1**

Test Status: Certified
Release Date: January 26, 2001

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History of Change

<u>Date</u>	<u>Description</u>	<u>Name</u>
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1 Overview

1.1 Test Object

1.1.1 Basis Equipment

Test Equipment: Hicom 150E OfficePro Extended

Software Release: V2.2 APS320

1.1.2 IP400 / IP3000

Certification: Interconnection test based on the network protocols ECMA QSIG V1

Test Equipment: Gateway IP400
Gateway IP3000

Software Release: IP400 V3.0 [01-3200]
IP3000 V3.0 [01-3200]

Manufacturer: innovaphone GmbH
Böblinger Str. 76
71065 Sindelfingen
info@innovaphone.com

Discription: Gateway for VoIP for small and middle traffic volume: IP400
Gateway for VoIP for middle and large traffic volume: IP3000

More information you will find under
<http://www.innovaphone.com/Webneu/produkte/de-gateways.shtml>

Test Configuration: see 2.3 Configuration Block Diagram

1.2 Test Strategy

1.2.1 Test Intensity

Interconnection test based on the network protocol ECMA QSIG V1

- Test A:
The test has been done with ECMA V2 over a LAN connection
- Test B:
The test has been done with ECMA V2 over S0-WAN

Note:

The testing of the product with regard to compliance to requirements for Product Safety, EMV, Network Access Interfaces and Radiation Protection were not performed.
Siemens AG therefore assumes no responsibility for the compliance to these requirements.

1.2.2 Measuring / Test Instruments

None

1.3 Realization Data

Test Preparation:

Test Duration: November 27 to December 07, 2000

Test Location: ITSC Vienna

Test Personnel: *Test team:*
Innovaphone:
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1.4 Test Result Summary

1.4.1 Test A and B

- Layers 1 and 2:	OK
- Internal Basic Call:	OK
- External Basic Call:	OK
- Name Identification:	OK
- Diversion:	OK
- Call Transfer:	OK
- Call Offer:	OK
- Call Completion on Busy Subscriber:	OK
- Call Completion on No Reply:	OK
- Call Diversion in rerouting condition:	OK
- Path Replacement:	OK
- Conference:	OK
- Advice of Charge:	NOK
- Centralized attendant:	OK

1.4.2 Restrictions

Test A and B: - If Layer 2 connection between Hicom and IP3000/400 re-established during active call, all connections were lost.

1.4.3 Problems

Call Charging - No charges possible between both Hicom 150E OfficePro.
- The feature "Do not Disturb Override" between both Hicom 150E OfficePro is not implemented combined with QSIG protocol.

2 Configuration

2.1 HW and SW Requirements

Hicom 150E OfficePro

System A:

Hicom 150E OfficePro Extended V2.2 APS 320

- Optiset
- Anate
- FAX (Fritzcard)
- Modem (Fritzcard)
- EDSS1 Trunk
- TMS2M
- SLMO / SLMA16N / TMS2M / STMD

System B:

Hicom 150E OfficePro Extended V2.2 APS 320

- Optiset
- Anate
- FAX (Fritzcard)
- Modem (Fritzcard)
- SLMO / SLMA16N / TMS2M / STMD

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Gateway:

IP400	V3.0 [01-3200]
IP3000	V3.0 [01-3200]

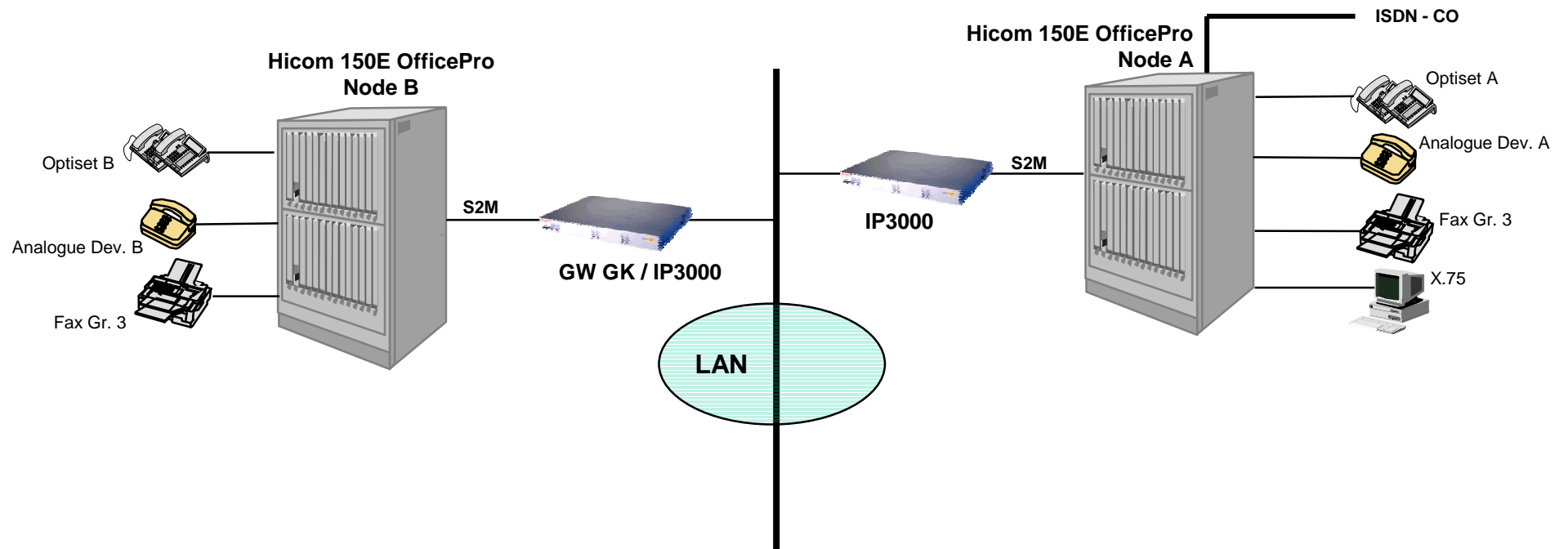
2.2 Numbering Plan

Test A / B

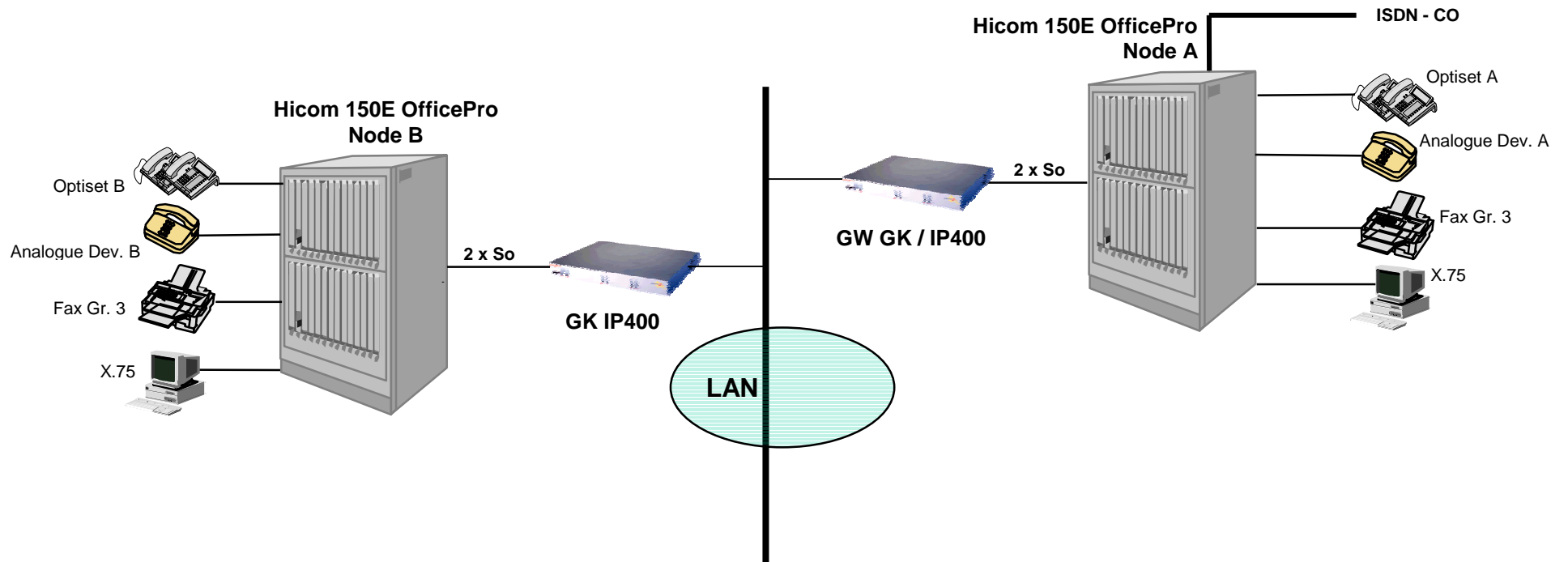
Hicom A:	100 - 103
Hicom B:	100 - 103
CO Line:	CD = 0; 81
Attendant	CD = 9

2.3 Configuration Block Diagram

2.3.1 Test A: Hicom 150E OfficePro → Hicom 150E OfficePro over LAN



2.3.2 Test B: Hicom 150E OfficePro → Hicom 150E OfficePro over ISDN WAN



3 Test Results in Detail

The following tests and their sequence numbers are based on the Test Specification.

3 Test Results Test A and B

Test variant A:

Interconnection test between Hicom 150E OfficePro systems via IP3000 based on the network protocol

QSIG ECMA V1 with ECMA V1 over LAN

(see Configuration Block Diagram

2.3.1 Test A: Hicom 150E OfficePro → Hicom 150E OfficePro over LAN)

Test variant B:

Interconnection test between Hicom 150E OfficePro systems via IP400 based on the network protocol

QSIG ECMA V1 with ECMA V1 over S0-WAN

(see Configuration Block Diagram

2.3.2 Test B: Hicom 150E OfficePro → Hicom 150E OfficePro over ISDN WAN)

Note:

The following test results, if not other stated, are valid for

Test variant A

- S₀ via IP400
and

Test variant B

- S_{2M} via IP3000

3.1 Basic Call

3.1.1 Internal Basic Call

3.1.1.1 Successful call, dialling in en-bloc mode, originating side clears

Results: OK

3.1.1.2 Successful call, dialling in en-bloc mode, terminating side clears

Results: OK

3.1.1.3 Successful call, dialling in overlap mode, originating side clears

Results: OK

3.1.1.4 Successful call, dialling in overlap mode, terminating side clears

Results: OK

3.1.1.5 Clear before answer

Results: OK

3.1.1.6 Analogue voice terminal

Results: OK

3.1.1.7 Analogue Modem call

Results: OK

3.1.1.8 Data call (64 kbit/s unrestricted)

Results: OK

3.1.1.9 Fax group 3 call (3.1 kHz audio)

Results: OK

3.1.1.10 Calling number identification

Results: OK

3.1.1.11 Connected number identification

Results: OK

- 3.1.2 External Basic Call
 - 3.1.2.1 Successful call, dialling in en-bloc mode, originating side clears
Results: OK
 - 3.1.2.2 Successful call, dialling in en-bloc mode, terminating side clears
Results: OK
 - 3.1.2.3 Successful call, dialling in overlap mode, originating side clears
Results: OK
 - 3.1.2.4 Successful call, dialling in overlap mode, terminating side clears
Results: OK
 - 3.1.2.5 DTMF conversion
Results: OK
 - 3.1.2.6 Clear before answer
Results: OK
 - 3.1.2.7 Display of calling party number
Results: OK
 - 3.1.2.8 Restriction of calling party number presentation
Results: OK
 - 3.1.2.9 Display of connected party number
Results: OK
 - 3.1.2.10 Restriction of connected party number presentation
Results: OK
 - 3.1.2.11 B station in public network is busy
Results: OK

- 3.1.3 Incoming call
 - 3.1.3.1 Successful call, dialling in en-bloc mode, originating side clears
Results: OK
 - 3.1.3.2 Successful call, dialling in overlap mode, originating side clears
Results: OK
 - 3.1.3.3 Successful call, dialling in en-bloc mode, terminating side clears
Results: OK
 - 3.1.3.4 Successful call, dialling in overlap mode, terminating side clears
Results: OK
 - 3.1.3.5 Clear before answer
Results: OK
 - 3.1.3.6 Display of calling party number
Results: OK
 - 3.1.3.7 Restriction of calling party number presentation
Results: OK
 - 3.1.3.8 Display of connected party number
Results: OK
 - 3.1.3.9 Restriction of connected party number presentation
Results: OK

- 3.1.4 Name Identification
 - 3.1.4.1 Calling user name
Results: OK
 - 3.1.4.2 Restriction of calling user name presentation
Results: OK

- 3.1.5 Connected user name
 - 3.1.5.1 Display of connected user name
Results: OK
 - 3.1.5.2 Restriction of connected user name presentation
Results: OK
- 3.1.6 Called user name
 - 3.1.6.1 Display of called user name
Results: OK
 - 3.1.6.2 Restriction of called user name presentation
Results: OK

3.2 Call Transfer and Path replacement

- 3.2.1 Local enquiry and transfer after answer
Results: OK
- 3.2.2 Local enquiry and transfer before answer
Results: OK
- 3.2.3 Internal enquiry and transfer after answer
Results: OK
- 3.2.4 Internal enquiry and transfer before answer
Results: OK
- 3.2.5 No answer after transfer before answer
 - 3.2.5.1 No answer after transfer before answer for local enquiry
Results: OK
 - 3.2.5.2 No answer after transfer before answer for internal enquiry
Results: OK
- 3.2.6 Interworking with the public network
Results: OK
- 3.2.7 Internal enquiry and transfer on busy
Results: OK

3.3 Diversion (Call Forwarding) without re-routing

- 3.3.1 Call forwarding unconditional
 - 3.3.1.1 Local diversion of an internal call
Results: OK
 - 3.3.1.2 Internal diversion of a local call
Results: OK
 - 3.3.1.3 Internal diversion of an internal call
Results: OK

- 3.3.2 Call forwarding on busy
 - 3.3.2.1 Local diversion of an internal call
Results: OK
 - 3.3.2.2 Internal diversion of a local call
Results: OK
 - 3.3.2.3 Internal diversion of an internal call
Results: OK

- 3.3.3 Call forwarding on no reply (only possible with call-management)
 - 3.3.3.1 Local diversion of an internal call
Results: OK
 - 3.3.3.2 Internal diversion of a local call
Results: OK
 - 3.3.3.3 Internal diversion of an internal call
Results: OK

- 3.3.4 Interworking with the public network
Results: OK

- 3.3.5 Diversion loop avoidance
 - 3.3.5.1 Diversion loop limit not reached
Results: OK

- 3.4 Call Completion on Busy Subscriber**
 - 3.4.1 Successful call back to busy internal user
Results: OK
 - 3.4.2 User A is busy when user B becomes free
Results: OK
 - 3.4.3 Cancellation of call back request
Results: OK
 - 3.4.4 User B is busy again, no service retention
Results: OK
 - 3.4.5 Recall timer expiry
Results: OK

3.5 Call Completion on No Reply

- 3.5.1 Initiation of a callback to a idle internal user (without mailbox indication)
Results: OK
- 3.5.2 Callback to a idle internal user, the initiation party does not answer
Results: OK
- 3.5.3 Callback to an idle internal user, the called party doesn't answer
Results: OK
- 3.5.4 Callback active but the user B is busy before callback is established
Results: OK
- 3.5.5 Cancellation of a callback request
Results: OK
- 3.5.6 Callback to an idle internal user, the called party has made CFU
Results: OK
- 3.5.7 Callback to a idle internal user, the calling party has made CF no Reply
Results: OK

3.6 Call Offer

- 3.6.1 Successful call offer to busy internal user (First party on hold)
Results: OK
- 3.6.2 Successful call offer to busy internal user (First party is cleared)
Results: OK
- 3.6.3 Ignored call offer to busy internal user combined with call completion
Results: OK

3.7 Advice of Charge

Results: NOK
Remarks:
No charge information possible between both Hicom 150E OfficePro

3.8 Centralized Attendant

Results: OK

3.9 Conference

Results: OK

3.10 Do Not Disturb

Results: OK

3.11 Do Not Disturb Override

Results: NA

3.12 Feature Response in exception situations

3.12.1 Far end IP3000/400 out of service
Results: OK

3.12.1.1 Local gateway is out of service
Results: OK

3.12.1.2 LAN/WAN is out of service
Results: OK

3.12.2 Restart and Recovery

3.12.2.1 Softrestart Hicom
Results: OK

3.12.2.2 Hardrestart Hicom
Results: OK

3.12.2.3 Reload Hicom
Results: OK

3.12.3 Layer 1 and 2

3.12.3.1 Removal of E1/S0 line cable (Primary rate access)
Results: OK

3.12.3.2 Layer 2 connection between Hicom and IP3000/400 re-established during active call
Results: NOK
Remarks:
All connections lost

4 Configuration Data

4.1 Configuration of the Hicom 150E OfficePro for the Certification Test A and B

No printable configuration data available for Hicom 150E OfficePro.