Unify Ready

Technology connectivity certification

The connectivity of

Konftel 300Wx

developed by Konftel AB has been certified at the GAP interface of OpenScape Cordless IP V2 connected to OpenScape 4000 V8 in accordance with the test report dated March 1, 2019.

Konftel AB is now entitled to label the above mentioned product with the Unify Ready emblem.

The test was conducted conforming to DIN EN ISO 9001. This certificate is only valid in conjunction with the full test report and the notes contained therein. **Please consider that the test report only covers the functionality of the interface. The certificate and test report are not good for a statement of end-to-end functionality.**

Munich, March 5, 2019

Luzia Stephan

Director Technology Partner Program

UNIFY READY

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Certification Test Report

Konftel

Konftel 300Wx

With

OpenScape 4000 Version 8
Unify Openscape Cordless IP V2

Author: Johan Jonckheer

Version: 1.0

Status: Released

Date: 01.03.2019

unify
atos collaboration solutions

Contents:

History of Change

Date	***Description***	***Name***
December 2018	Initial Version	Johan Jonckheer, Johan Email: johan.jonckheer@atos.net Phone: + 32 2 406 7187
17-18 December 2018	Certification tests	Daniel Van Riet Email: daniel.vanriet@atos.net Phone: +32 2 406 7336 Johan Jonckheer, Johan Email: johan.jonckheer@atos.net Phone: + 32 2 406 7187
17-18 December 2018	Review test document & update results Review test document	Johan Jonckheer, Johan Email: johan.jonckheer@atos.net Phone: + 32 2 406 7187 Daniel Van Riet Email: daniel.vanriet@atos.net Phone: +32 2 406 7336 Holger Klenner Key Account Manager Germany Tel.: +49 (0)2173 499 5841 Email: holger.klenner@konftel.com
18 December 2018	Final review	Eddy De Braekeleer UNIFY Service PS E-Mail: eddy.debraekeleer@atos.net Phone: +32.2.406 7316
18 December 2018	Release	Eddy De Braekeleer UNIFY Service PS E-Mail: eddy.debraekeleer@atos.net Phone: +32 2 406 7316
17-18 December 2018	Certification tests	Johan Jonckheer, Johan Email: johan.jonckheer@atos.net Phone: + 32 2 406 7187

1 Overview

1.1 Test Object

1.1.1 Basic Equipment

Test system: **OpenScape 4000**

Software Version:

- Platform V8 R2.22.1
- RMX V8 R2.22.5
- Assistant V8 R2.22.0
- CSTA V8 R2.22.1
- IP DECT v2.R1.12

Gateways STMI4 pzksti40.A7.002-008

1.1.2 Konftel

Certification: Test the functionality of the Konftel 300Wx interconnected on IP DECT OpenScape 4000.

Test Equipment: OpenScape 4000 CPCI, IP DECT v2.R1.12, Openstage HFA/SIP, Konftel 300Wx

Software Release: 300Wx/2.03 2018-11-10_15.25 DECT 937

HW / FW Release: Konftel 300Wx

Manufacturer: Konftel

Description: Konftel 300Wx functions as a SIP device, registered via a IP DECT access point on to the OS4K.

Documentation: Installation Guide

Test Network: Test network of OpenScape Ready Lab Brussels

Test Configuration: See section 2.3

1.2 Test Strategy

This certification test for the **Konftel** 300Wx with the **Unify OpenScape 4000** focused on the verification of the SIP interface in the following IP DECT scenarios:

- Basic phone configuration and registration
- Basic calls
- Telephony feature verification
- Multi account support (NA)
- Audio features, including codecs and DTMF (NA)

Following topics were not part of the certification:

- Factory reset
- security/encryption (802.1x)
- 802.1q (vlan tagging)
- Softclient Unify
- SRTP (Secure RTP)
- External OpenScape Call Center (OSCC)
- Redundancy
- OS4K in networking
- Stress tests
- UC calls (One Number Service, smartphone applications, UC clients, click to dial etc)
- External voicemail systems
- DECT base station other than Unify OpenScape Cordless IP V2

1.2.1 Test Intensity

Scope of the tests is to execute and verify the solution performs within the limits of the system requirements, targeting the end product. To accomplish this, feature and solution based test cases are created, inspected, and executed under a real system environment (mirroring as close as possible a real customer's environment).

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.
Unify Communications therefore assumes no responsibility for the compliance to these requirements.

1.2.2 Measuring / Test Instruments

No special hardware for tracing. Tracing was done on the the OpenScape 4K server.

1.3 Realisation Data

Test Preparation: December 17th 2018

Test Duration: December 18th 2018

Test Location: Unify Communications
Demeurslaan 134
1654 Huizingen
International Solution Lab

Test Personnel: Unify:
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Johan Jonckheer
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Coordination: Eddy De Braekeleer
E-Mail: eddy.debraekeleer@atos.net

1.4 Test Results Summary

For the details please have a look at the test results.

1.4.1 Problems

1 Test case 3.3.20&21 Another device can initiate the second call and gets ring back tone but there is no indication of this on DUT and it not possible to accept the second call.

2 Test case 3.3.3 DUT only disables microphone and speaker, this results in no MOH at the OS4K phone. DUT indicates 'HOLD" on display

3

1.4.2 Restrictions

1 Test case 3.2.1&2&5&6&8&&11 and 3.3.23 Functionality is OK but in ringing and connect state, no calling number nor calling name are shown on DUT. For incoming calls this is normal seen DUT is configured as "GAP" handset.

2 Test case 3.3.13 No possible to set up conference, the 300Wx is using a propriety code which is not compatible with OS4K. Work around is to set up the conference with an additional phone.

3 Test case 3.3.16&19 Functionality is OK but no display update on DUT

4 OS Cordless IP restriction: Line seizure tone audible (e.g. during outgoing calls from DECT phones continuous tone can be headed until 180 ringing arrives)

5 OS Cordless IP restriction: Name Replacement doesn't work during Call Waiting, only number shown

6 OS Cordless IP restriction: No info related to security available on DECT phones, calls between OSCIP to other devices are always shown as unsecure even if TLS/SRTP is active

7 OS 4000 restriction: Limited functionality if Cordless-IP-User is used as 3rd party Call Control device. Controlling via application (e.g. Web-Client) supports only Make Call and Clear Call (Connection).

8 OS 4000 restriction: External ringtone used also for internal calls

9 OS 4000 restriction: Call Back Busy, Call Back No Reply not supported

1.4.3 Remarks

1 Test case 3.1.2 Date and time are not synchronized with the OS4K. Time and Date needs to be configured manual on the 300Wx.

2 Testcase 3.3.8: No toggle functionality on DUT

3 Testcase 3.3.10: No Blind call transfer on DUT

4 Test case 3.3.15 Only on the Master conference device shows 'Active Conference info' on display. W.a.d. OS4K

5 Test case 3.3.3 : to put the DUT on hold the on hook button (green) has to be pressed and NOT the button in the left below corner :

To retrieve the call the off hook button (red) has to be pressed.

2 Configuration

2.1 Konftel 300Wx

The Konftel 300Wx device has been configured by Konftel/Unify.

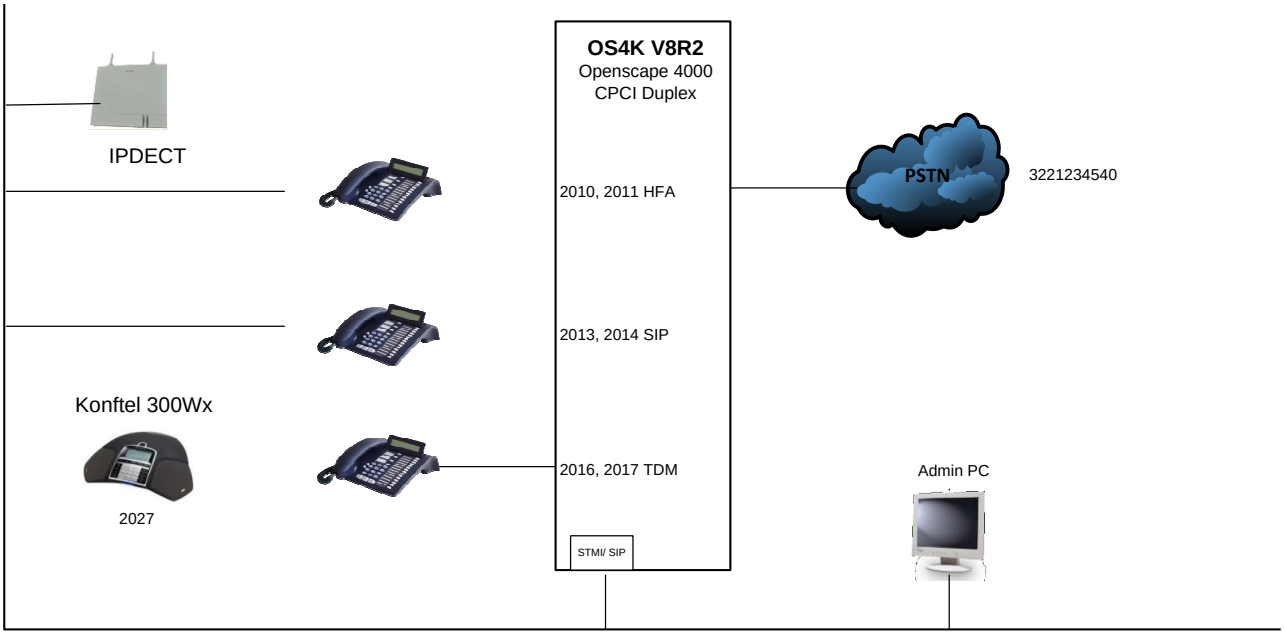
2.2 OpenScape 4000

- HW Version: CPCI
- SW Version RMX: RMX V8 R2.22.5

- IP phones
- Openstage HFA V3 R0.35.0
  Openstage SIP V3 R4.10.0

- STMI4 gateway
  - LW pzksti40.A7.002-008

2.3 Configuration Block Diagram



3 Test Results in Detail

3.1 Connectivity and Basic Operation

The following table shows the list of test cases and the associated results for the verification of basic phone connectivity with the OpenScape 4000.

Test Case	Test Description	Result	Comment
		300Wx/OS Cordless IP V2	
3.1.1	Program the 300Wx via the Menu with the OpenScape 4000 **registration** information and verify that the phone registers.	OK	
3.1.2	Verify that the test phone displays the local date and time correctly that is provided by the OpenScape 4000.	NOK	See 1 in section 1.4.3

3.2 Basic call

The following table shows the list of test cases and the associated results for the verification of basic calls.

Test Case	Test Description	Result	Comment
		300Wx/OS Cordless IP V2	
3.2.1	Initiate a call from the DUT to **internal** subscriber 2010. Verify that 2010 is ringing (DUT receives ring back) and that the displays on the DUT and 2010 show the correct called/calling number/name information.	OK	See 1 in section 1.4.2
3.2.2	From the previous test case answer the call at 2010 and verify speech path between both phones. Verify that the phone displays show the correct information after the call connected.	OK	See 1 in section 1.4.2
3.2.3	From the previous test case **disconnect** the call at the DUT and verify that both phones return to idle state.	OK	
3.2.4	Repeat the previous call, but disconnect the DUT before 2010 answers. Verify that the DUT returns to idle state.	OK	
3.2.5	Initiate a call from 2010 to the DUT. Verify that the DUT is ringing (2010 receives ring back) and that the displays on the DUT and 2010 show the correct called/calling number/name information.	OK	See 1 in section 1.4.2
3.2.6	From the previous test case answer the call at the DUT and verify speech path between both phones. Verify that the phone displays show the correct information after the call connected.	OK	See 1 in section 1.4.2
3.2.7	From the previous test case disconnect the call at the DUT and verify that both phones return to idle state.	OK	
3.2.8	Initiate a call from the DUT to an **external number**. Verify that the external phone is ringing (DUT receives ring back) and that the displays on the DUT and the external phone show the correct called/calling number.	OK	See 1 in section 1.4.2
3.2.9	From the previous test case answer the call at the external phone and verify speech path between both phones. Verify that the phone displays show the correct information after the call connected.	OK	See 1 in section 1.4.2
3.2.10	Initiate a call from an **external number** to the DUT. Verify that the DUT is ringing (external phone receives ring back) and that the displays on the DUT and the external phone show the correct called/calling number.	OK	See 1 in section 1.4.2
3.2.11	From the previous test case answer the call at the DUT and verify speech path between both phones. Verify that the phone displays show the correct information after the call connected.	OK	See 1 in section 1.4.2

3.3 Telephony features

The following table shows the list of test cases and the associated results for the verification of telephony features in various call situations.

Test Case	Test Description	Result	Comment
		300Wx/OS Cordless IP V2	
3.3.1	Initiate a call from the DUT to internal subscriber 2013. Answer the call at 2013. Put the DUT **on hold** and verify that it receives Music-on-hold.	OK	
3.3.2	From the previous test case retrieve the DUT from hold and verify speech path between the DUT and 2013.	OK	
3.3.3	Initiate a call from internal subscriber 2013 to the DUT. Answer the call at the DUT. From the DUT put 2013 **on hold** and verify that it receives Music-on-hold.	NOK	DUT indicates 'HOLD" on display See 2 section 1.4.1 See 5 section 1.4.3
3.3.4	From the previous test case retrieve 2013 from hold and verify speech path between the DUT and 2013.	OK	
3.3.5	Initiate a call from the DUT to internal subscriber 2013. Answer the call and initiate **consultation** at 2013. Verify that the DUT receives Music-on-hold.	OK	
3.3.6	From the previous test case return from consultation and verify speech path between the DUT and 2013.	OK	
3.3.7	Initiate a call from internal subscriber 2010 to the DUT. Answer the call and initiate **consultation** at the DUT. Verify that 2010 receives Music-on-hold while the DUT receives dial tone.	OK	DUT ON-hook to retrieve first call.
3.3.8	From the previous test case dial 2011 at the DUT. Answer the call at 2011. Verify that the DUT can **toggle** between 2010 and 2011.	NA	See 2 in section 1.4.3 No toggle function on DUT
3.3.9	From the previous test case initiate a **supervised transfer** at the DUT so that 2010 and 2011 are connected. Verify that 2010 and 2011 have speech path, the displays are correct, and that the DUT returns to idle state.	OK	DUT ON-hook to transfer to call
3.3.10	Initiate a call from the DUT to internal subscriber 2010. Answer the call and initiate consultation at the DUT. Dial 2011 and perform a **blind transfer** to 2011. Answer 2011 and verify that 2010 and 2011 have speech path, the displays are correct, and that the DUT returns to idle state.	NA	See 3 in section 1.4.3 No blind transfer function on DUT Blind transfer not supported on OS4K
3.3.11	From the previous test case (3.3.9) invoke the **last number redial** function on the DUT and verify that it calls 2011.	OK	
3.3.12	Initiate a call to the DUT from an external number. Answer the call, then disconnect. Verify that the external number can be called from the call history list.	OK	
3.3.13	Initiate a call from the DUT to internal subscriber 2010. Answer the call and initiate a **three-way conference** from the DUT with 2011. Verify that all parties have	NA	See 2 in section 1.4.2 No three-way conference on OS

Test Case	Test Description	Result	Comment
		300Wx/OS Cordless IP V2	
	speech path and that the displays on the phones indicate the conference.		Cordless IP V2
3.3.14	From the previous test case go on-hook at 2010. Verify that the DUT and 2011 are in two-party talk and the displays are updated accordingly.	NA	See test 3.3.13 (NOK) No three-way conference on OS Cordless IP V2
3.3.15	Call an external number from 2010. Once connected use 2010 to add the DUT to a **three-way conference**. Verify that all parties have speech path and that the displays on the phones indicate the conference.	OK	Only 2010 display shows 'Active Conference info'. See 4 section 1.4.3
3.3.16	From the previous test case **release the conference master** 2010. Verify that the DUT and the external phone are in two-party talk and the displays are updated accordingly.	NOK	See 3 in section 1.4.2
3.3.17	Call the DUT from 2010 after the **Do-Not-Disturb** function was activated. Verify that the call is rejected.	NA	No DND function on DUT Can be configured on OS4K
3.3.18	Activate **call forwarding** on the DUT to 2011. Call the DUT from 2010 and verify that the call is forwarded to 2011.	NA	No CF function on DUT. Can be configured on OS4K
3.3.19	Put the DUT and 2010 in the same pickup group. Call 2010 from 2011. While 2010 is ringing, dial the **Pick-up** code (##) from the DUT and verify that speech path to 2011 is established and the display shows correct caller information.	NOK	See 3 in section 1.4.2
3.3.20	Call the DUT from 2010. While connected, call the DUT from 2011 and verify that a **call waiting** indication is presented on the DUT that shows the calling party information.	NOK	See 1 in section 1.4.1 No call waiting function on DUT
3.3.21	From the previous test case accept the waiting call and verify that speech path is established between the DUT and 2011. Verify that 2010 is put on hold.	NOK	See 1 in section 1.4.1
3.3.22	Call 2013 from the DUT and **reject** the call at 2013.	OK	
3.3.23	Call 2013 from the DUT and **deflect** the call to 2014. Verify that the DUT indicates the call deflection.	OK	See 1 in section 1.4.2
3.3.24	Make the DUT busy and then call it from 2010. Verify that the call is forwarded to the voicemail system (Xpressions) and that the **message waiting indication** (**MWI**) on the DUT is turned on.	NA	No CF function on DUT.
3.3.25	From the previous test case retrieve the voicemail message and verify that the MWI is turned off.	NA	
3.3.26	While the MWI is lit on the DUT, disconnect the DUT from power and force a reboot. Verify that after the reboot is complete, the MWI is turned on.	NA	
3.3.27	While the MWI is lit on the DUT, reboot the Xpressions server. Verify that after the reboot is complete, the MWI is turned on.	NA	

3.4 Multi-account Support

The following table shows the list of test cases and the associated results for the verification of multi account support of the **Konftel** Dect phones.

This option is only available using the 300Wx in combination with the IP DECT 10 access point.

Test Case	Test Description	Result	Comment
		300Wx/OS Cordless IP V2	
3.4.1	Program the second phone (account) via web GUI with the OpenScape 4000 **registrar** information and verify that the phone registers.	NA	
3.4.2	Change the OpenScape 4000 subscriber settings so that **Digest Authentication** is required for the registration. Verify that the phone does not register.	NA	
3.4.3	Add the information for **Digest Authentication** to the test phone settings via web GUI and verify that the phone registers.	NA	
3.4.4	Set the second account as “default account”, check if DUT indicates that this account is active.	NA	
3.4.5	Initiate a call from the DUT to **internal** subscriber 2010. Verify that 2010 is ringing (DUT receives ring back) and that the displays on 2010 show the correct called/calling number/name information.	NA	
3.4.6	From the previous test case answer the call at 2010 and verify speech path between both phones	NA	
3.4.7	Initiate a call from 2010 to the DUT account 2. Verify that the DUT is ringing (2010 receives ring back). Answer the call and verify speech path between both phones.	NA	
3.4.8	From DUT, setup a five-way conference, two outgoing call from account 2 and two incoming calls to account 1. Verify that the conference can be established	NA	

3.5 Audio features

The following table shows the list of test cases and the associated results for the verification of various audio features, including codec settings and DTMF transmission.

Only applicable with DECT over IP access points.

Test Case	Test Description	Result	Comment
		300Wx/OS Cordless IP V2	
3.5.1	Configure STMI to use the G.729 codec only. Call the DUT and verify that the connection is established with G.729 (use Wireshark).	NA	
3.5.2	Configure STMI to use the G.729 codec preferably. Call the DUT and verify that the connection is established with the first matching codec supported by the DUT or rejected if no match is found. DUT G711 only	NA	
3.5.3	Configure STMI to use the G.722 codec preferably. Call the DUT and verify that the connection is established with G.722 (use Wireshark).	NA	
3.5.4	Configure the DUT for DTMF transmission via RFC 2833. Call the Auto Attendant (Conf bridge) from the DUT. Verify that the Auto Attendant responds to the phone's DTMF keys (also use Wireshark).	NA	
3.5.5	Configure the DUT for DTMF transmission via inband tones. Call the Auto Attendant (Conf bridge) from the DUT. Verify that the Auto Attendant responds to the phone's DTMF keys.	NA	

3.6 Remarks

Meanings of Abbreviations:

OK	Testcase successful
NOK	Testcase NOT successful / check the Comment
NA	Testcase not applicable
NP	Testcase not processed
NS	Situation not supplied
N *X	Error / restriction with description
* X	Remark to Functionality
DUT	Device Under Test
CFU	Call Forwarding Unconditional
CFNR	Call Forwarding on No Reply
CFB	Call Forwarding on Busy
MLHG	Multi Line Hunt Group
moH	music-on-hold
DND	Do Not Disturb

4 Configuration Data

4.1 OpenScape 4000

4.1.1 System Basics

IPDECT , V2.R1.12

OS4K configuration.

*/ ENGLISH AMO

```
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ADD-SBCSU:2011,OPTI,IP2,1-1-8-6,OPTIIP&API,1&2,11,11,32,32,7,7,0,1,N,0,10,8,1,N,
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CHANGE-CGWB:CGW,1,8,SERVIF,"TRM","HICOM";
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CHANGE-CGWB:CGW,1,8,MGNTDATA,10.10.40.40,8000,10.10.40.40,443,CLASSIC;
CHANGE-CGWB:CGW,1,8,DMCDATA,20,YES,NO;
CHANGE-CGWB:CGW,1,8,WBMDATA,"HP4K-DEVEL",,ENGR;
CHANGE-CGWB:CGW,1,8,WBMDATA,"HP4K-SU",,SU;
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CHANGE-CGWB:CGW,1,8,WBMDATA,"HP4K-READER",,READONLY;
CHANGE-CGWB:CGW,1,8,GWDATA,"PRIMARYRASMANAGERID",;
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221-78-102-174-170;
CHANGE-CGWB:CGW,1,8,LEGKDATA,,888444,YES;
CHANGE-CGWB:CGW,1,8,SIPTRERH,NO,,,;
CHANGE-CGWB:CGW,1,8,SIPTRSSA,YES,10.67.210.133,5060,5061,310,0.0.0.0,5060,5061;
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EINRICHTEN-SBCSU:2011,OPTI,IP2,1-1-8-6,OPTIIP&API,1&2,11,11,32,32,7,7,0,1,NEIN,0,10,8,1,NEIN,
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EINRICHTEN-PERSI:TLN,2013,"sip hhs 2013*",,,,,,,,,,,,,,,,;
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EINRICHTEN-PERSI:TLN,2027,"Konftel 2027*",,"2027","2027","2027","2027","2027","2027",,,,,,,"2027",JA,;

EINRICHTEN-BCSU:IPGW,1,1,8,"Q2316-X   ",1,"0",30,10.10.40.43,10,10,20,,20,0,IPV4,NEIN,NEIN;
```

AE-CGWB:CGW,1,8,GLOBIF,,,213,NEIN,0,10.10.40.1,4060,"100MBFD",0,20,0,0,4060,0.0.0.0,0.0.0.0,NEIN,0.0.0.0,5060,5061;
AENDERN-CGWB:CGW,1,8,SERVIF,"TRM","HICOM";
AENDERN-CGWB:CGW,1,8,ASC,29100,30099,"184","104",JA,NEIN,NEIN,NEIN,PRIO1,G711A,NEIN,"20";
AENDERN-CGWB:CGW,1,8,ASC,,,,,,,,,PRIO2,G729,NEIN,"20";
AENDERN-CGWB:CGW,1,8,ASC,,,,,,,,,PRIO3,G723,NEIN,"30";
AENDERN-CGWB:CGW,1,8,ASC,,,,,,,,,PRIO4,NONE,NEIN,"20";
AENDERN-CGWB:CGW,1,8,ASC,,,,,,,,,PRIO5,NONE,NEIN,"20";
AENDERN-CGWB:CGW,1,8,ASC,,,,,,,,,PRIO6,NONE,NEIN,"20";
AENDERN-CGWB:CGW,1,8,ASC,,,,,,,,,PRIO7,G729AB,JA,"20";
AENDERN-CGWB:CGW,1,8,ASC,,,,,,,,,PRIO8,NONE,NEIN,"20";
AENDERN-CGWB:CGW,1,8,ASC,,,,,,,,,PRIO9,NONE,NEIN,"20";
AENDERN-CGWB:CGW,1,8,GWSECTOR,0;
AENDERN-CGWB:CGW,1,8,GKDATA,,1719,"PRIMARYRASMANAGERID",,,1719,"SECONDARYRASMANAGERID",,120;
AENDERN-CGWB:CGW,1,8,MGNTDATA,10.10.40.40,8000,10.10.40.40,443,CLASSIC;
AENDERN-CGWB:CGW,1,8,DMCDATA,20,JA,NEIN;
AENDERN-CGWB:CGW,1,8,WBMDATA,"HP4K-DEVEL",,ENGR;
AENDERN-CGWB:CGW,1,8,WBMDATA,"HP4K-SU",,SU;
AENDERN-CGWB:CGW,1,8,WBMDATA,"HP4K-ADMIN",,ADMIN;
AENDERN-CGWB:CGW,1,8,WBMDATA,"HP4K-READER",,READONLY;
AENDERN-CGWB:CGW,1,8,GWDATA,"PRIMARYRASMANAGERID",;
AENDERN-CGWB:CGW,1,8,H235DATA,NEIN,NEIN,"siemensGateway2003",,100,242-191-30-119-188-83-173-161-43-0-70-36-218-74-169-221-78-102-174-170;
AENDERN-CGWB:CGW,1,8,LEGKDATA,,888444,JA;
AENDERN-CGWB:CGW,1,8,SIPTRERH,NEIN,,,;
AENDERN-CGWB:CGW,1,8,SIPTRSSA,JA,10.67.210.133,5060,5061,310,0.0.0.0,5060,5061;
AENDERN-CGWB:CGW,1,8,DLSDATA,,18443,NEIN;
AENDERN-CGWB:CGW,1,8,JB,40,120,20,4,60,200,2;
AENDERN-CGWB:CGW,1,8,MANLANIF,0.0.0.0,0.0.0.0,NEIN,0,0.0.0.0;

4.2 Konftel

4.2.1 Documentation

www.**konftel**.com

4.2.2 Basic Configuration

OS Cordless IP V2 configuration (screenshots) :

5 Confirmation

Testing personnel confirms that all the test cases were performed and that the results were as described in this document.

Holger Klenner
Konftel

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Unify Belgium