



Avaya Solution & Interoperability Test Lab

Application Notes for Configuring Avaya Communication Server 1000E R7.5 with Visionutveckling Vision 80/20 Server V2.5 - Issue 1.0

Abstract

These Application Notes describe the configuration steps for provisioning Avaya Communication Server 1000E R7.5 to successfully interoperate with Visionutveckling Vision 80/20 Server V2.5 using an Intercept Computer Interface. The Vision 80/20 is a software application installed on a Windows Server that interfaces with Avaya Communication Server 1000E which stores information on employee's presence that then is made available to Attendant Clients.

Information in these Application Notes has been obtained through DevConnect Compliance Testing and additional technical discussions. Testing was conducted via the DevConnect Program at the Avaya Solution and Interoperability Test Lab.

1. Introduction

The Visionutveckling Vision 80/20 Server stores information about a customer's organization which includes:

- Times different employees are available
- Reasons different employees are unavailable

This information may be entered by the employee on their telephone sets, by the attendant, a WEB client or be automated by the system. Once this information is sent to the Server a Call Forward is set forwarding calls for that employee to a variety of systems including the following or a combination of:

- Attendant Client. - This Attendant is connected to the Avaya Communication Server 1000E via a M2250 or PC Control Interface Unit
- Spoken Presence
- Voice Mail

The information stored on the Vision 80/20 server can be retrieved by an Attendant Client then used by the attendant, spoken presence and voice mail to provide the most accurate information on employee availability.

2. General Test Approach and Test Results

The test approach was to validate full interoperability between the Vision 80/20 and the Avaya Communication Server 1000E (CS1000E). The Vision 80/20 Server connects to the CS1000E using an Intercept Computer Interface. The physical connection is made using a standard Serial RS232 cable connected between a TTY port on the CS1000E and the Serial port on the Vision 80/20 Server. The Attendant Client connects to the CS1000E via a M2250 or PC Control Interface Unit using a RS232 DB9 to DB25 cable and a Null Modem is also required, the M2250 or PC Control Interface Unit is connected to a Digital Line Card in the CS1000E with a standard Amphenol cable. See **Figure 1** for a network diagram. The configuration of the Attendant Client is outside the scope of this Application Note. A variety of Avaya telephones were installed and configured on the CS1000E. A full list can be found in **Section 4**.

2.1. Interoperability Compliance Testing

The interoperability compliance test included both feature functionality and serviceability testing. The feature functionality testing focused on verifying that the correct employee presence information was stored on the Vision 80/20 Server and calls were forwarded to the correct destinations. The testing included:

- Connectivity between the Vision 80/20 Server to the CS1000E
- Forwarding calls to Attendant Client and Spoken Presence
- Forwarding calls depending on employee's status, i.e. Telephone Busy and Telephone not answered, or Telephone forwarded by the Vision 80/20 Server
- Correct information displayed on Telephone when calls are transferred
- Transferring calls by the Attendant Client
- Employees put into conference by the Attendant Client

2.2. Test Results

Tests were performed to insure full interoperability between the Vision 80/20 Server and the Avaya Communication Server 1000E. The tests were all functional in nature and performance testing was not included. All the test cases passed successfully.

2.3. Support

Technical support can be obtained for Visionutveckling products as follows:

- Email *support@visionutveckling.se*
- Website:(Partners and customers) <http://partner.visionutveckling.se>
- Phone: +446-770-770070

3. Reference Configuration

The Vision 80/20 Server connects to the CS1000E using an Intercept Computer Interface. A serial RS232 cable is required to make the physical connection between the CS1000E and the Vision 80/20 Server. On the CS1000E, the cable is connected to the **COM RS232** port on the rear of the CS1000E chassis. On the Vision 80/20 Server the cable is connected to a COM port on the Server. The Attendant Client connects to the Communication Server 1000E via a M2250 or PC Control Interface Unit. During compliance testing a M2250 Attendant Console was configured. The Vision 80/20 Attendant client is connected to the M2250 Attendant Console using a RS232 DB9 to DB25 cable and also a Null Modem is required. The DB9 end of the cable is connected to the COM port on the PC which the Vision 80/20 Attendant Client is installed. The DB25 end with the Null Modem is connected to the DB25 female serial port on the rear of the M2250 Attendant Console. The M2250 is connects to a Digital Line Card (DLC) in the CS1000E with a standard Amphenol cable.

Notes: The wiring of the M2250 Attendant Console is outside the scope of this Application Note. The CS1000E was configured with A-Law Companding.

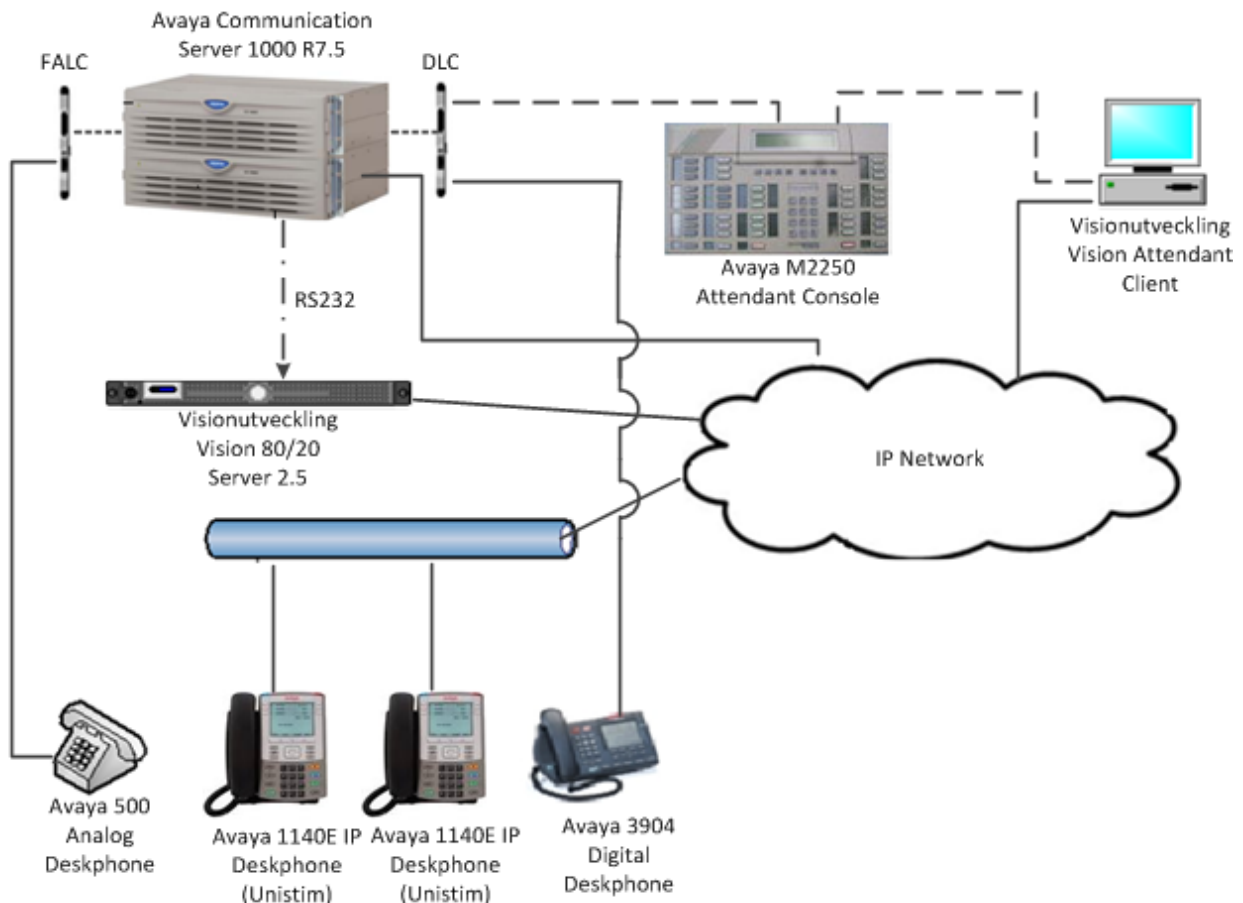


Figure 1: Network Topology and Connectivity for Visionutveckling Vision 80/20 Server and Avaya Communication Server 1000E

4. Equipment and Software Validated

All the hardware and associated software used in the compliance testing is listed below.

Equipment	Software Version
Avaya Communication Server 1000E running on CP+PM server as co-resident configuration	Avaya Communication Server 1000E R 7.5, Version 7.50.17 Deplist: X21 07.50Q
CP-PM CoRes	HW NTDW61
Avaya Communication Server 1000E Media Gateway	HW NTDW60
Avaya Flexible Analog Line Card	NT5K02QC
Avaya Digital Line Card	NT8D02
Avaya 3904 Digital set	F/W 2.4
Avaya 1140E IP set	UNISim 4.3
Avaya Analog set	NT2N73AA
Avaya M2250 Attendant Console	NT6G48AC
Visionutveckling Vision 80/20 Server	Visionutveckling Vision 80/20 Server V2.5
Visionutveckling Vision 80/20 Attendant Client	Visionutveckling Vision 80/20 Attendant Client V2.5

Table 1: Hardware and Software Version Numbers

Note: For a complete list of the patches installed on the CS1000E see **Appendix A**

5. Configure Avaya Communication Server 1000E

Configuration and verification operations on the Avaya Communication Server 1000E illustrated in this section were all performed using terminal access over a serial link to a TTY port on the CS1000E using Telnet. The information provided in this section describes the configuration of the CS1000E for this solution. It is implied a working system is already in place. For all other provisioning information such as initial installation and configuration, please refer to the product documentation in **Section 9**. The configuration operations described in this section can be summarized as follows:

- Configuring a TTY for Intercept computer Protocol (ICP)
- Configuring ICP_Data
- Configuring Flexible Features Codes (FFC)
- Configuring the M2250 Attendant Console

Note: In the Telnet screenshots below only the unique prompt inputs are shown. Carriage Return and all other prompts are set default values.

5.1. Configuring a TTY for Intercept computer Protocol (ICP)

The communication between the CS1000E and the Vision 80/20 uses an Intercept Computer Interface. A TTY needs to be configured on the CS1000E to support ICP. The Vision 80/20 monitors the output on this TTY. In order to configure a new TTY **LD 17** is used. Use subsets of these commands are illustrated below.

LD 17

Prompt	Response	Description
> LD 17		Enter Overlay 17
REQ	CHG	Create New
TYPE	ADAN	Action Device and Number
ADAN	NEW TTY 13	New I/O device and number
CTYP	MGC	Card type
IPMG	4 0	loop and Card
PORT	2	Port number
DNUM	13	Device number for I/O ports
DES	Vision	Designator
BPS	9600	Bits per Second
BITL	8	Data Bit Length
STOP	1	Number of Stop bits
PARY	NONE	Parity type
FLOW	NO	Flow Control
USER	ICP	Output message type

5.2. Configuring ICP_Data

ICP Data needs to be configured for the Intercept Computer Interface. In order to configure the ICP_DATA LD 15 is used. Use subsets of these commands are illustrated below.

LD 15

Prompt	Response	Description
>LD 15		Enter Overlay 15
REQ	CHG	Change
TYPE	ICP	Intercept Computer
TYPE	ICP_DATA	
CUST	0	Customer number
ICP	YES	Change Intercept Computer
APL	13	DNUM from Section 5.1
NIPN	9	Number of Intercept Positions
ICCR	NO	Intercept Position Canceling Reply
ICMM	9	Message number shown
ICDN	5199	Internal Call DN
ECDN	5199	External Call DN
ICWN	0	Intercept Computer Owner
ICPS	CIR	ICP Printer Search
ICDL	4	CP DN Length
ICPD	0	ICP Padding Digit
ICTD	NO	Intercept Computer Terminal Dial from
directory		

5.3. Configuring Flexible Features codes (FFC)

Telephone users enter codes on telephone sets which the Intercept computer uses to set call forwards and see presence information. If a FFC table is already configured, the following codes need to be added, **ICPA** and **ICPD**, otherwise a new table needs to be configured. During compliance testing the code for **ICPA** was ***23** and the code for **ICPD** was **#23**. Any unused codes can be used. In order to configure the FFC LD 57 is used. Subsets of these commands are illustrated below.

5.3.1. New FFC table

Use the **NEW** command to add a new FFC table.

LD 57

Prompt	Response	Description
>LD 57		Enter Overlay 57
REQ	NEW	New Flexible Features code
TYPE	FFC	Flexible Features code
CUST	0	Customer number
CODE	ICPA	FFC code
ICPA	*23	Intercept Computer Interface Activate
CODE		
ICPA	(Carriage Return)	
CODE	ICPD	FFC code
ICPD	#23	Intercept Computer Interface Deactivate
CODE		

ICPD (Carriage Return)

5.3.2. Change FFC table

Use the **CHG** command to change an existing FFC table.

LD 57

Prompt	Response	Description
> LD 57		Enter overlay 57
REQ	CHG	Change
TYPE	FFC	Flexible Features code
CUST	0	Customer number as defined in LD15
FFCT	(Carriage Return)	
CODE	ICPA	FFC code
ICPA	*23	Intercept Computer Interface Activate
code		
ICPA	(Carriage Return)	
Code	ICPD	FFC code
ICPD	#23	Intercept Computer Interface Deactivate
code		
ICPD	(Carriage Return)	

5.4. Configuring the M2250 Attendant Console

For the Vision 80/20 Attendant client to connect with the CS1000E, a PSU or M2250 Attendant Console needs to be configured. During compliance testing a M2250 Attendant Console was used.

Notes: The wiring of the M2250 Attendant Console is outside of the scope of this document. In order to configure the M2250 **LD 12** is used. Subsets of these commands are illustrated below.

LD 12

Prompt	Response	Description
> LD 12		Enter Overlay 12
REQ	NEW	Create New
TYPE	2250	2250
TN	4 0 9 8	
SETN	4 0 9 9	
CUST	0	Customer Number
ERL	0	
ANUM	1	
IADN	6211	
SSU	(Carriage Return)	
ICDR	ICDD	
ABAN	ABDD	
CPND	CNDA	
PRES	00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19	
AADN	(Carriage Return)	
DNDI	DNDA	
DAPC	DAPA	
LANG	00	
KEY 00	SECL	
KEY 01	MIK	
KEY 02	MCK	
KEY 03	THF	
KEY 04	ADL 16	
KEY 05	(Carriage Return)	
KEY 06	EES	
KEY 07	(Carriage Return)	
KEY 08	PRK	
KEY 09	BKI	
KEY 10	(Carriage Return)	

5.5. Configuring ATT_DATA

Attendant Data needs to be configured for the M2250 Attendant Console to function. In order to configure the ATT_DATA LD 15 is used. Subsets of these commands are illustrated below.

LD 15

Prompt	Response	Description
>LD 15		Enter overlay 15
REQ	CHG	Change Data Block
TYPE	ATT	
CUST	0	Customer Number
OPT	ABDA AHA EBIN BIXA BLA BOHA DNCA DNX DRE FACD IC2 XTG IDP ILF XBL MCTD NCD CUI MWUD LOD PSA RECA REA SYA SLA SIAA ATDA	
ATDN	9	
NCOS	0	
CWUP	YES	
CWCL	2 4	
CWTM	10 20	
CWBZ	NO	
EFLI	0	
MATT	YES	
LFTN	004 0 09 04	
LFFD	(Carriage Return)	
RTIM	30 30 30	
ATIM	0	
AQTT	30	
AODN	(Carriage Return)	
SPVC	00	
SBLF	NO	
RTSA	RSAD	
SACP	SNGL	
ABDN	NO	
IRFR	NO	
XRFR	NO	
ADHT	0	
AFNT	0	
AFBT	0	
IDBZ	NO	
PBUZ	02 10	
ICI 00	DL0	
ICI 01	LD0	
ICI 02	LD1	
ICI 03	(Carriage Return)	
ICI 04	(Carriage Return)	
ICI 05	(Carriage Return)	
ICI 06	(Carriage Return)	
ICI 07	(Carriage Return)	
ICI 08	(Carriage Return)	
ICI 09	(Carriage Return)	
ICI 10	(Carriage Return)	
ICI 11	(Carriage Return)	
ICI 12	(Carriage Return)	
ICI 13	(Carriage Return)	

ICI 14	(Carriage Return)
ICI 15	(Carriage Return)
ICI 16	(Carriage Return)
ICI 17	(Carriage Return)
ICI 18	(Carriage Return)
ICI 19	(Carriage Return)

6. Configure Visionutveckling Vision 80/20 Server

Once the Vision 80/20 Server software and Database is installed the following steps are required.

- PBX Configuration
- System Settings
- Diversion destinations
- Configuring the Vision 80/20 Database

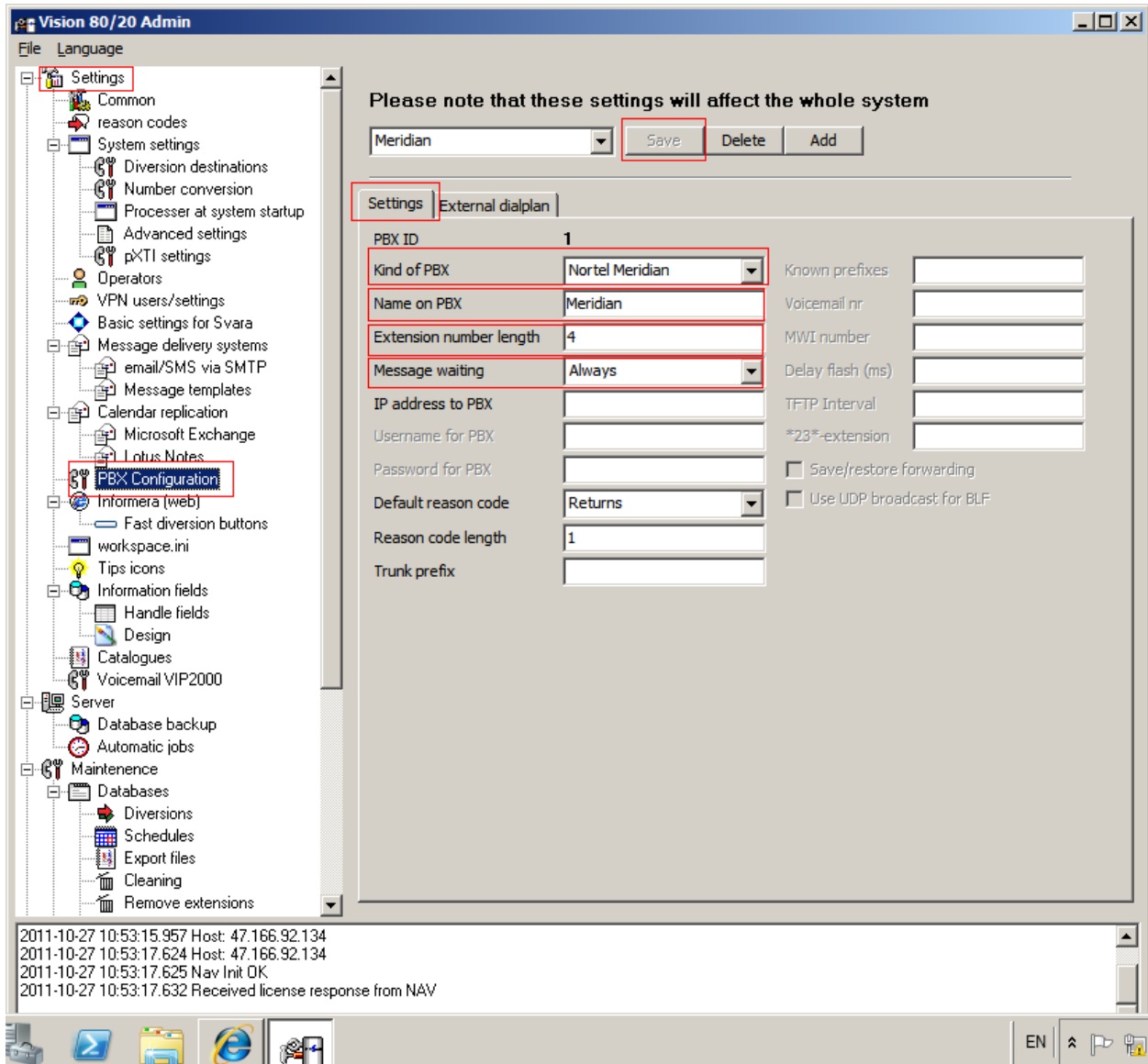
All the screen shots below show the configuration during compliance testing.

6.1. PBX configuration

Open the Administrera, normally found at **Start → All Programs → Vision 8020 → Administrera** (not shown). When the **80/20 Admin** window opens, navigate to **Settings → PBX Configuration** and click on the **Settings** tab. Configure the menu fields as follows.

- **Kind of PBX** Select **Nortel Meridian** from the drop-down menu
- **Name on PBX** Enter an appropriate name to identify the PBX i.e. **Meridian**
- **Extension number length** Enter **4**
- **Message waiting** Select **Always** from the drop-down menu
- **IP address to PBX** Leave blank

After all the values have been entered, press the **Save** button.

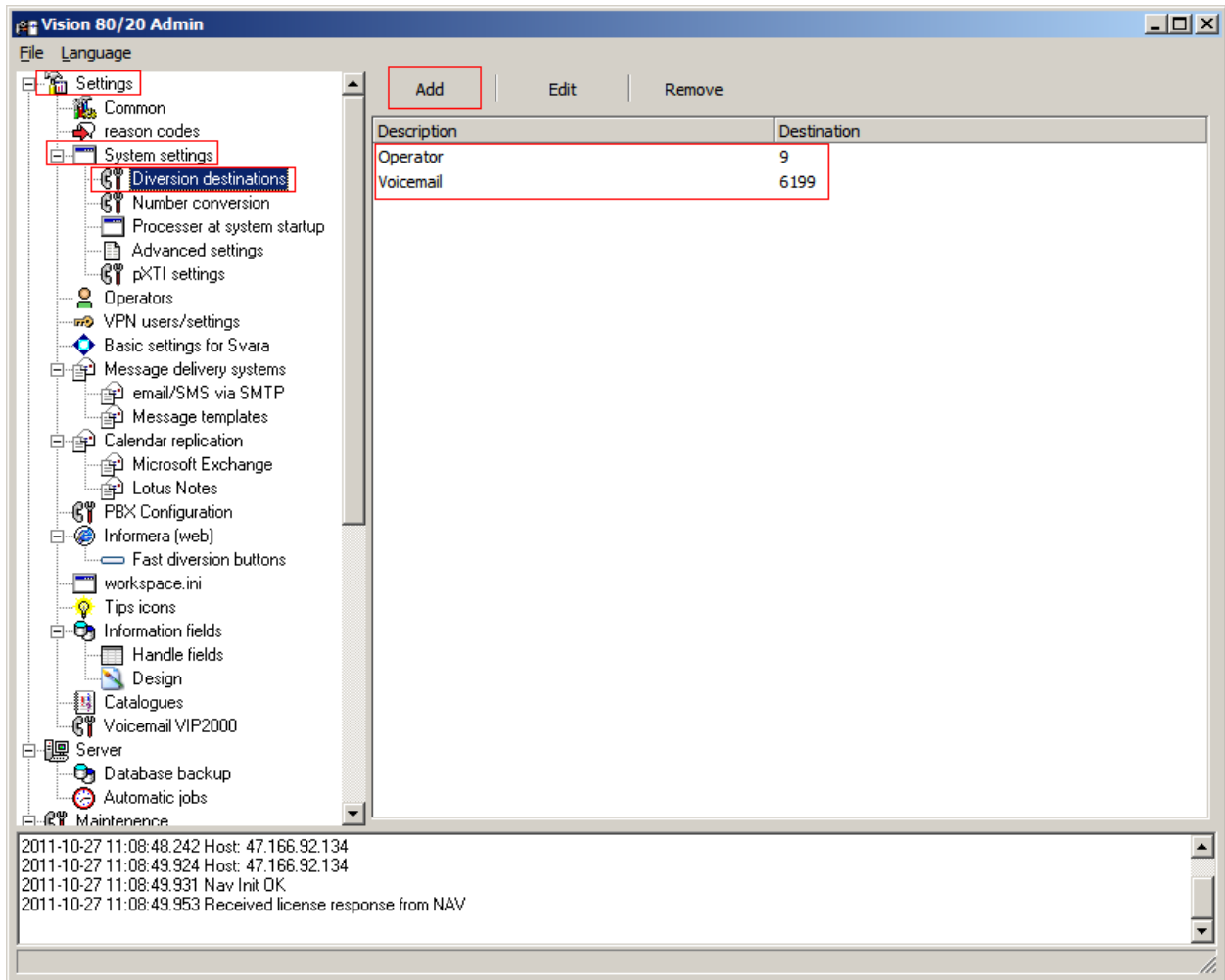


6.2. Diversion Destinations

The default destinations for diversions are shown in the screen shot below. Navigate to **Settings** → **System settings** → **Diversion destinations** and click on the **Add** button an **Edit Diversion destination** window opens (not shown) and add an entry for the following:

- **Voicemail** Enter the Voicemail number
- **Operation** Enter the Operator number

Click **OK** (not shown) for each destination.

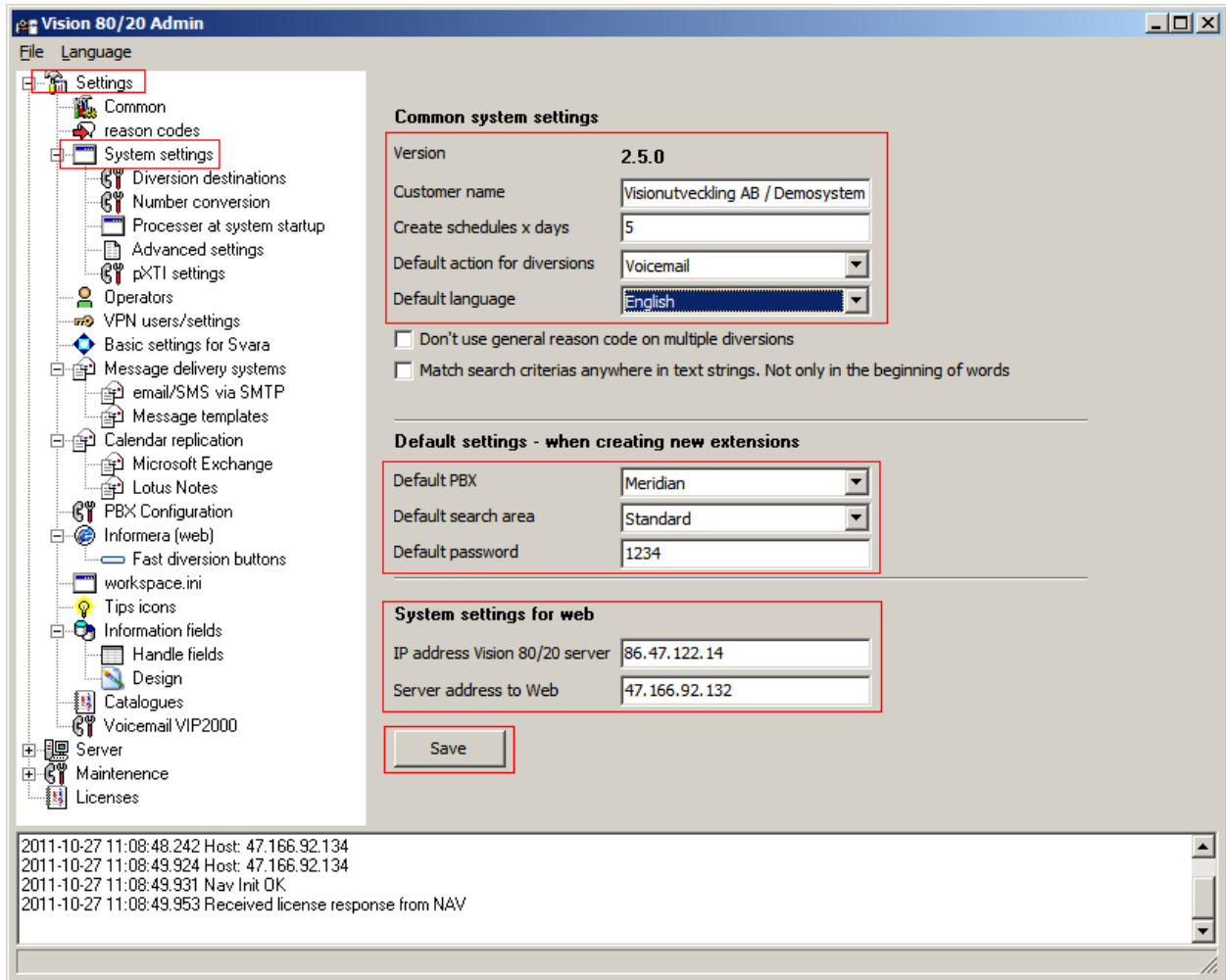


6.3. System Settings

Navigate to **System settings** and fill in the following:

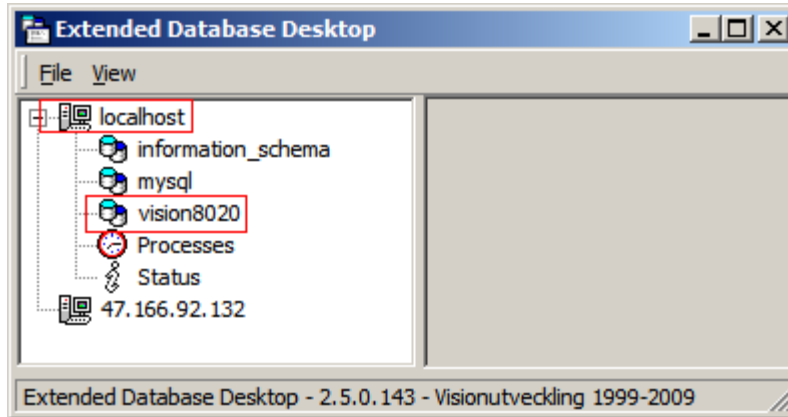
- **Customer name** Enter customer name
- **Create schedules x days** Enter the number of schedule days
- **Default action for diversions** Enter diversion type i.e. **Voicemail**
- **Default language** Enter default language i.e. **English**
- **Default PBX** Enter **Meridian**
- **Default search area** Enter **Standard**
- **Default password** Enter password
- **IP address Vision 80/20 server** Enter IP address
- **Server address to Web** Enter IP address

Once all the values have been entered press the **Save** button.

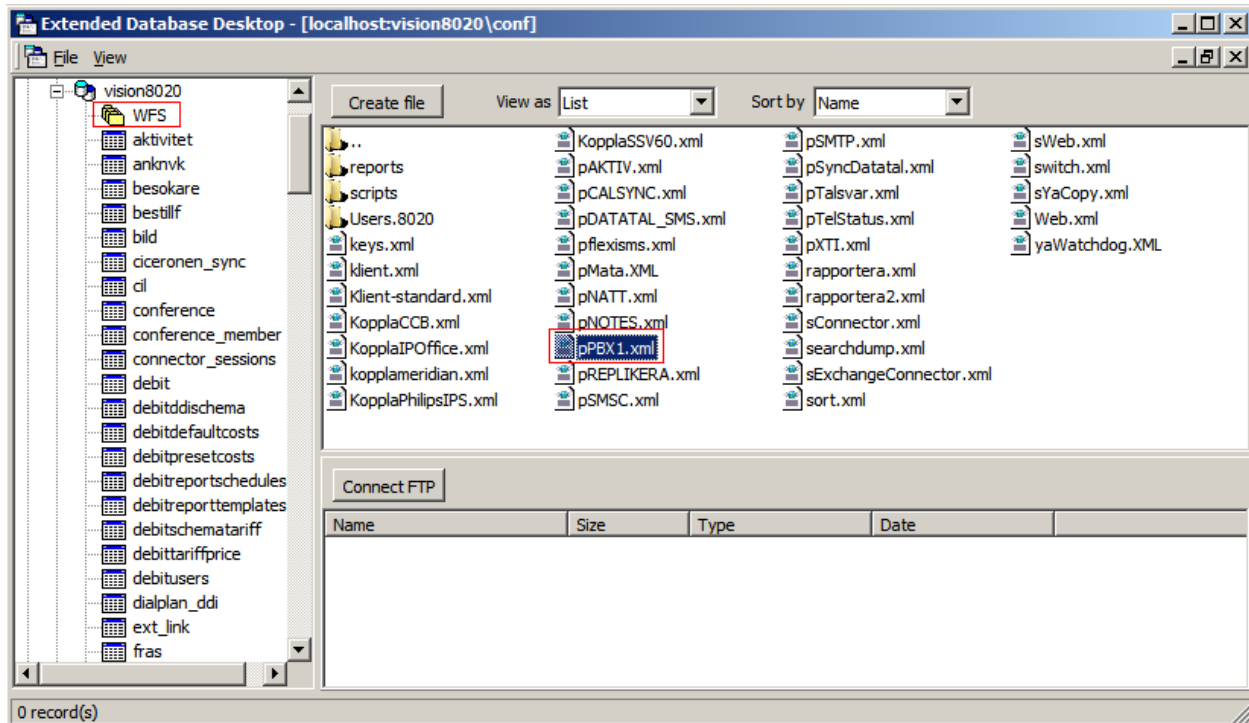


6.4. Configuring the Visionutveckling Vision 80/20 Database

Navigate to `C:\Program Files (x86)\Visionutveckling\vision8020\tools` and run `edbd.exe` (not shown). After the `edbd.exe` is run, navigate to `localhost` and select `vision8020`.



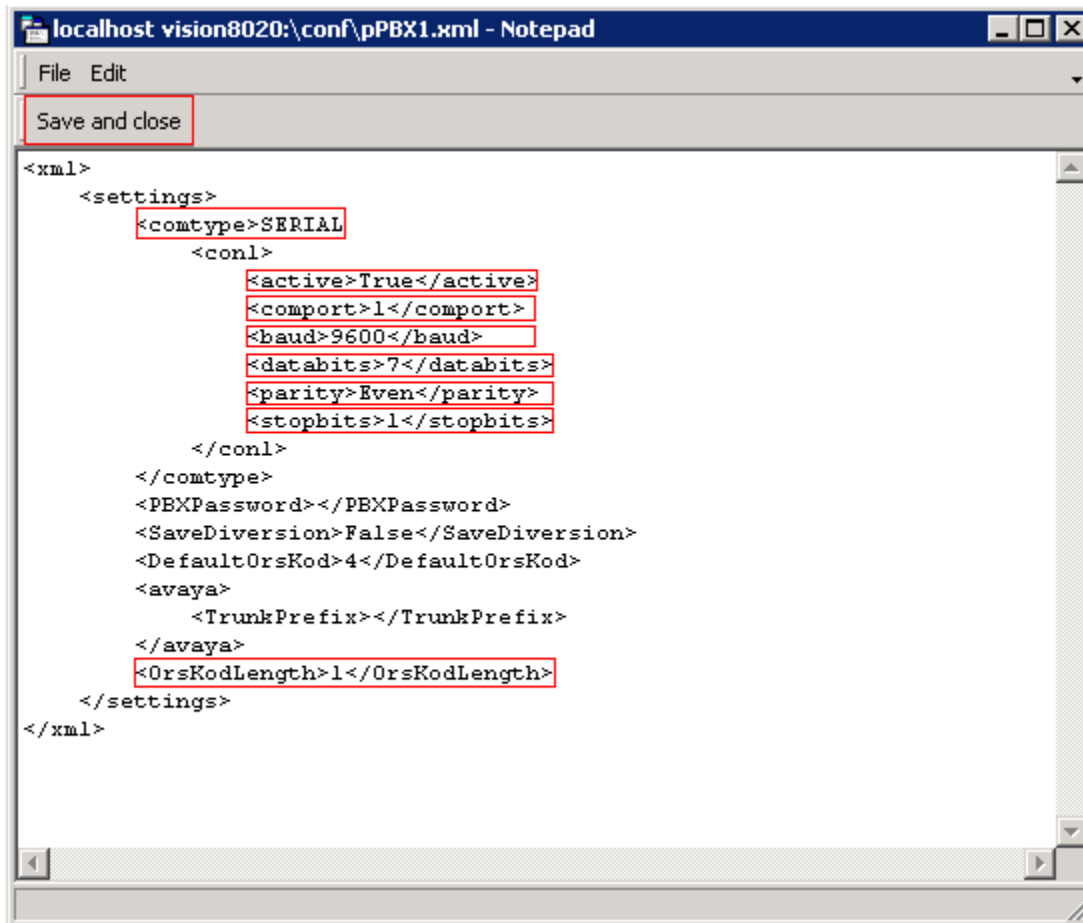
Double click `vision8020` and double click the folder `WFS`. A `conf` folder (not shown) will appear in the right hand window. Double click the `conf` folder and locate the `pPBX1.xml` file, and double click to open.



Once the **pPBX1.xml** file is opened, enter the following values from the table below:

Parameter	Usage
xml.settings.comtype	Set to SERIAL for the serial link
xml.settings.comtype.con1.active	Set to True to enable the link
xml.settings.comtype.con1.comport	The com port selected. See Device Manager in windows for more information on which com-ports are installed.
xml.settings.comtype.con1.baud	The baud-rate. Set to 9600.
xml.settings.comtype.con1.databits	Data bits. Set to 7.
xml.settings.comtype.con1.parity	Parity. Set to Even.
xml.settings.comtype.con1.stopbits	Stop bits. Set to 1.
xml.settings.orskodlength	Reason code length. Set to match design.

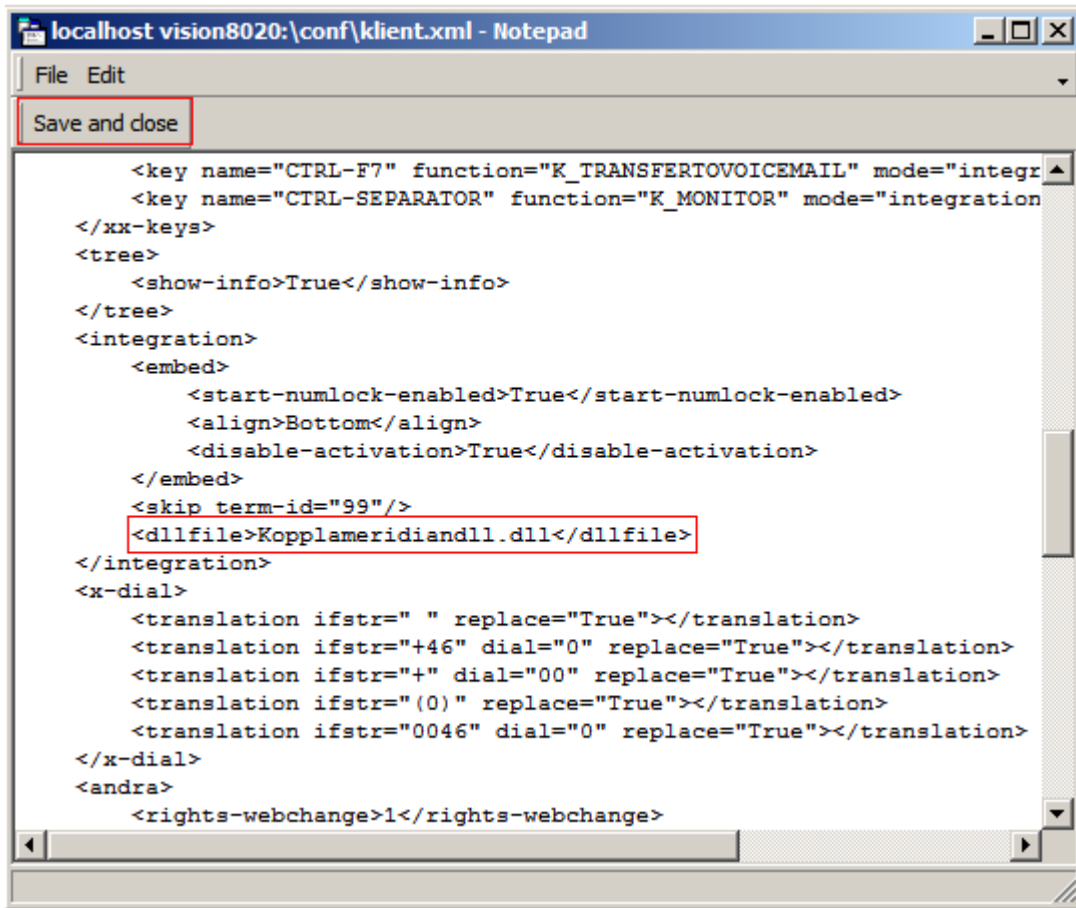
When all the values are entered click on the **Save and close** button.



Open the file **klient.xml** from the same location and enter the following values from the table below:

Parameter	Usage
xml.integration.dllfile	Set this to kopplameridiandll.dll

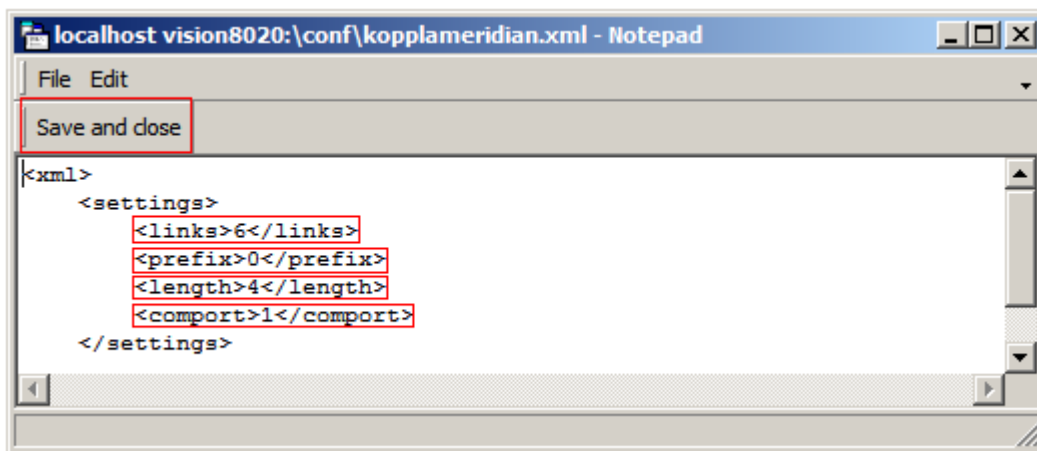
When all the values are entered click on the **Save and close** button.



Open the file **koplameridian.xml** from the same location and enter the following values from the table below:

Parameter	Usage
xml.settings.links	Set this to 6
xml.settings.prefix	Set this to 0
xml.settings.length	Set this to 4
xml.settings.comport	The comport selected. See Device Manager in windows for more information on which com-ports are installed.

When all the values are entered click on the **Save and close** button.



6.5. Starting Visionutveckling Vision 80/20 service

After the settings are entered and verified, start **services.msc** from the **Run** command in **start** menu and stop the service **Vision 80/20** (not shown). Wait for 20 seconds to make sure the services are completely stopped. Start the **Vision 80/20** service (not shown).

7. Verification Steps

This section provides the tests that can be performed to verify correct configuration of the CS1000E and Vision 80/20.

7.1. Verify Avaya Communication Server 1000E TTY

The following step can ensure that the TTY is enabled for the Intercept Computer Interface. Check the status of the TTY setup in **Sections 5.1**

LD 37

Prompt	Response	Description
>LD 37		Enter Overlay 37
REQ	STAT TTY 13	Stat TTY number

Example:

```
REQ: stat TTY 13
TTY 13 : ENBL (MGC 4 0) DES Vision
```

7.2. Verify Visionutveckling Vision 80/20 Status

To verify the PBX connectivity open the log file **pPBX1_<DATE>.log**. This log file is normally found in **C:\Program Files (x86)\Visionutveckling\vision8020\log**. Verify that something similar to the following is presented.

```
2011-10-06 13:54:18.583 [3356] Parsing settings for PBX type: Meridian
2011-10-06 13:54:18.583 [3356] Parsing settings for PBX type: Meridian
2011-10-06 13:54:18.583 [3356] Settings parsed for Meridian connection
2011-10-06 13:54:18.583 [3356] Waiting for connection...
2011-10-06 13:54:23.216 [3356] Trying to reconnect to PBX with COM Port #1
2011-10-06 13:54:23.263 [3356] Initialized. Ready to handle communications to PBX
```

8. Conclusion

These Application Notes describe the configuration steps required for Avaya Communication Server 1000E R7.5 to successfully interoperate with Visionutveckling Vision 80/20 Server V2.5 using Intercept Computer Interface. All functionality and serviceability test cases were completed successfully.

9. Additional References

This section references the Avaya and Visionutveckling documentation that is relevant to these Application Notes. Product documentation for Avaya products may be found at:

<http://support.avaya.com>.

[1] *Software Input Output Reference — Administration Avaya Communication Server 1000 7.5, NN43001-611, 05.09 September 2011*

[2] *System Management Reference Avaya Communication Server 1000 7.5, NN43001-600, 05.07 August 2011*

[3] *Telephones and Consoles Fundamentals Avaya Communication Server 1000 - NN43001-567, 05.01, November 2010*

Technical documentation for Visionutveckling can be found at the following location: (requires login, Swedish only) <http://www.vision8020.se/wiki>.

Appendix A: Avaya Communication Server 1000E Software

VERSION 4121						
RELEASE 7						
ISSUE 50 Q +						
DepList 1: core Issue: 01 (created: 2011-03-15 10:26:33 (est))						
IN-SERVICE PEPS						
PAT#	CR #	PATCH REF #	NAME	DATE	FILENAME	SPECINS
000	wi00688505	ISS1:1OF1	p30595_1	14/06/2011	p30595_1.cpl	NO
001	wi00835294	ISS1:1OF1	p30565_1	14/06/2011	p30565_1.cpl	NO
002	wi00832106	ISS1:1OF1	p30550_1	14/06/2011	p30550_1.cpl	NO
003	wi00837618	ISS1:1OF1	p30594_1	14/06/2011	p30594_1.cpl	NO
004	wi00852365	ISS1:1OF1	p30707_1	14/06/2011	p30707_1.cpl	NO
005	wi00843623	ISS1:1OF1	p30731_1	14/06/2011	p30731_1.cpl	YES
006	wi00839255	ISS1:1OF1	p30591_1	14/06/2011	p30591_1.cpl	NO
007	wi00832626	ISS2:1OF1	p30560_2	14/06/2011	p30560_2.cpl	NO
008	wi00857566	ISS1:1OF1	p30766_1	14/06/2011	p30766_1.cpl	NO
009	wi00841980	ISS1:1OF1	p30618_1	14/06/2011	p30618_1.cpl	NO
010	wi00837461	ISS1:1OF1	p30597_1	14/06/2011	p30597_1.cpl	NO
011	wi00839821	ISS1:1OF1	p30619_1	14/06/2011	p30619_1.cpl	NO
012	wi00842409	ISS1:1OF1	p30621_1	14/06/2011	p30621_1.cpl	NO
013	wi00838073	ISS1:1OF1	p30588_1	14/06/2011	p30588_1.cpl	NO
014	wi00850521	ISS1:1OF1	p30709_1	14/06/2011	p30709_1.cpl	YES
015	wi00860722	ISS1:1OF1	p30784_1	14/06/2011	p30784_1.cpl	YES
016	wi00839134	ISS1:1OF1	p30698_1	14/06/2011	p30698_1.cpl	YES
017	wi00836981	ISS1:1OF1	p30613_1	14/06/2011	p30613_1.cpl	NO
Avaya Communication Server 1000E Peripheral Software Version (PSWV) data						
PSWV:	VERSION: PSWV 100					
LCRI:	VERSION NUMBER: AA02					
XNET:	VERSION NUMBER: AC23					
XPEC:	VERSION NUMBER: AC43					
FNET:	VERSION NUMBER: AA07					
FPEC:	VERSION NUMBER: AA08					
MSDL:	VERSION NUMBER: AJ73					
SDI:	VERSION NUMBER: AH51					
DCH:	VERSION NUMBER: AA72					
AML:	VERSION NUMBER: AK81					
BRIL:	VERSION NUMBER: AK83					
BRIT:	VERSION NUMBER: AK82					
MISP:	VERSION NUMBER: AJ71					
MPH:	VERSION NUMBER: AH51					
BRSC:	VERSION NUMBER: AJ71					
BBRI:	VERSION NUMBER: AH54					
PRIE:	VERSION NUMBER: AA87					
BRIE:	VERSION NUMBER: AK89					
ISIG:	VERSION NUMBER: AA33					
SWE1:	VERSION NUMBER: BA53					
UKG1:	VERSION NUMBER: BA51					
AUS1:	VERSION NUMBER: BA49					
DEN1:	VERSION NUMBER: BA48					
FIN1:	VERSION NUMBER: BA49					
GER1:	VERSION NUMBER: BA54					
ITA1:	VERSION NUMBER: AA54					
NOR1:	VERSION NUMBER: BA49					
POR1:	VERSION NUMBER: BA49					
DUT1:	VERSION NUMBER: BA50					
EIR1:	VERSION NUMBER: BA49					
SWI1:	VERSION NUMBER: BA53					
BEL1:	VERSION NUMBER: BA49					
SPA1:	VERSION NUMBER: BA51					
NET1:	VERSION NUMBER: BA48					
FRA1:	VERSION NUMBER: BA52					

CIS1: VERSION NUMBER: BA48
ETSI: VERSION NUMBER: BA48
E403: VERSION NUMBER: BA07
N403: VERSION NUMBER: BA05
JTTC: VERSION NUMBER: AC08
TCNZ: VERSION NUMBER: AA13
AUBR: VERSION NUMBER: AA14
AUPR: VERSION NUMBER: AA04
HKBR: VERSION NUMBER: AA06
HKPR: VERSION NUMBER: AA08
SING: VERSION NUMBER: AA15
THAI: VERSION NUMBER: AA07
NI02: VERSION NUMBER: AA26
T1IS: VERSION NUMBER: AA10
T1ES: VERSION NUMBER: AA09
ESGF: VERSION NUMBER: AC30
ISGF: VERSION NUMBER: AC31
ESGF TI: VERSION NUMBER: AC29
ISGF TI: VERSION NUMBER: AC31
INDO: VERSION NUMBER: AA06
JAPN: VERSION NUMBER: AA16
MSIA: VERSION NUMBER: AA04
CHNA: VERSION NUMBER: AA04
INDI: VERSION NUMBER: AA03
PHLP: VERSION NUMBER: AA02
TAIW: VERSION NUMBER: AA03
EAUS: VERSION NUMBER: AA02
EGF4: VERSION NUMBER: AC14
DCH3: VERSION NUMBER: AA10
PUP3: VERSION NUMBER: AA14
T1E1: VERSION NUMBER: AA19
DITI: VERSION NUMBER: AA40
CLKC: VERSION NUMBER: AA20
3902: VERSION NUMBER: AA84
3903: VERSION NUMBER: AA91
3904: VERSION NUMBER: AA94
3905: VERSION NUMBER: AA94
MGC, MGX and MGS: CSP VERSION: MGCC CD01
MSP VERSION: MGCM AB01
APP VERSION: MGCA BA07
FPGA VERSION: MGCF AA18
BOOT VERSION: MGCB BA07
DSP1 VERSION: DSP1 AB03
DSP2 VERSION: DSP2 AB03
DSP3 VERSION: DSP3 AB03
DSP4 VERSION: DSP4 AB01
DSP5 VERSION: DSP5 AA01
UDT VERSION NUMBER: AA42

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