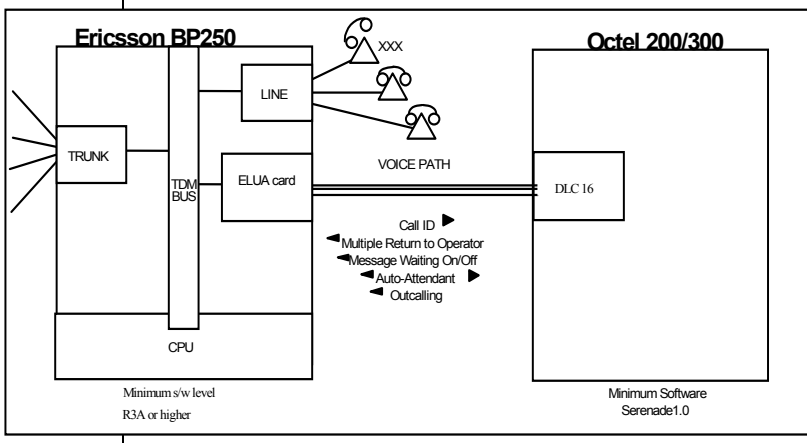
Octel 200/300

Message Server

Configuration Note 6116 – Rev B (06/01)

Ericsson BP250 (EMEA)

Standard DTMF In-Band



With inband integration, one pathway between the PBX and the Octel system transmits both call information and voice communications

1.0 METHOD OF INTEGRATION

With inband integration, one pathway between the PBX and the Octel 200/300 message server™ transmits both call information and voice communications. The pathway is provided by 2-wire analog single-line circuits that connect to DLC16 cards in the Octel system. The DLC 16 simulates 2-wire analog lines. Calls to an Octel port receive call/ calling information in DTMF format prior to cut-through of the voice path. The Octel system answers and plays the appropriate greeting. Message-waiting indication is set and canceled using DTMF commands over the same pathway.

Octel requirements

2.0 OCTEL ORDERING INFORMATION

- DLC16 Line Card (P/N 300-6054-009)
- Disk drives
- Adaptive Integration Software is required (F/P X0031)
- 25 pair cables with female end amphenol, one per line card, long enough to connect the Serenade line card to the PBX mainframe which then connects to PBX ports in the switch.

Disclaimer: Configuration Notes are designed to be a general guide reflecting AVAYA Inc.'s experience configuring its systems. These notes cannot anticipate every configuration possibility given the inherent variations in all hardware and software products. Please understand that you may experience a problem not detailed in a Configuration Note. If so, please notify the Integrations Group at (408) 324-3087 or peterk@avaya.com and if appropriate we will include it in our next revision. AVAYA Inc. accepts no responsibility for errors or omissions contained herein.

3.0 PBX HARDWARE REQUIREMENTS

PBX hardware requirements

• **ELUA "**16 port analogue cards"

3.1 PBX SOFTWARE REQUIREMENTS

PBX software requirements

Minimum Supported Software

- Revision = R9
- CPU = R4A
- RP = R2D
- BTUD = R7E

OR

- Revision = R10
- CPU = R3A
- RP = R2D
- BTUD = R7E

4.0 SUPPORTED FEATURES

Supported integration features

- Station forward to personal greeting
  - all calls
  - ring-no-answer
  - busy
- Automated Attendant
- Return-to-operator

5.0 CONFIGURING THE ERICSSON TO INTEGRATE

Configuring the Ericsson

Ensure that the Ericsson BP250 Installation Guide is on site and available. It is also strongly recommended that a qualified Ericsson installer is present during installation.

There are several steps to correctly install and configure the Ericsson. These steps include :-

- PBX programming, system wide
- PBX programming, Voice server ports only
- PBX programming, for all extensions and voice server ports
- PBX programming, Extensions

5.1 PBX PROGRAMMING, SYSTEM WIDE

- 2023 “External Voice Mail DIRNO”. Enter the voice server Directory (Hunt) Number. XXX (346)
- 2106 “Minimum Register Signal”. The TBR (Flash) time default is 4 = 40ms. Set it to 10 = 100ms.

  Transfer initiated, flash and extension number.
  Reconnect, flash 1.
- 2613 Signal time in ms. Default is 70ms, change to 120ms
  - 2614 Pause time in ms. Default is 70ms, change to 120ms

5.2 PBX PROGRAMMING, VOICE SERVER PORTS ONLY

- 0125 “Voice mail extensions”. Set to “Yes” for the Voice server ports.
- 0143 “Line break time”. 1 = 50 ms, 6 = 300ms, set to 6 for the voice server ports. This activates loop current disconnect.

5.3 PBX PROGRAMMING, FOR ALL EXTENSIONS AND VOICE SERVER PORTS.

- 0121 “DTMF to instrument”. Set to “NO”.

5.4 PBX PROGRAMMING, EXTENSIONS

- 01:1 “Extension parameters”
- 0112 “Diversion address”. Voice server Directory (Hunt) number XXX (346)
- 0110 “Diversion on no reply, internal”. Activated by button on extension.
- 0111 “Diversion on busy internal”. Activated by button on extension.
- 0109 “Direct diversion”. Activated by button on extension.

6.0 CONFIGURING THE OCTEL SYSTEM

Refer to the PRM Integration Volume: DTMF In-Band, and the Configuration Volume: DTMFINT Table for further information.

☐ **SYSTEM PARAMETER TABLE**

- Set System parameter 3 to 0 (OTHER).
- Set System Parameter 9 to 100 (Check for PBX Flash time)
- Set System Parameter 13 to ‘FE’ (Transfer code)

  Reconnect sequence: Ring-no-answer: F1
  Busy: F1

Verify these dialing sequences for your PBX.

- Set System Parameter 77 to 'N' (PBX provides momentary disconnect)
- Set System Parameter 79 to ?? (message waiting code on)
- Set System Parameter 81 to ??' (message waiting code off)

Note: Verify the transfer sequence and message waiting codes with your PBX vendor.

☐ **SLOTS TABLE.**

Configure the SLOTS Table as required. Ensure that the COS assigned to the integrated ports has Attribute 62 assigned.

- All ports which receive DTMF In-band calls should be configured in AX mode.
- Ensure that the COS assigned to the Ports has Attribute 62 assigned. (This port is standard integrated)
- Program integrated ports in AX mode
- Program non-integrated ports in CX mode (COS 58 non-integrated ports

☐ **DTMFINT TABLE**

Refer to the PRM, Configuration Volume for instructions on how to configure the DTMFINT table.

Normally this is set as shown below :-

Format 1 Call type 7 (FWD EXTERNAL)
1: #

2:Dest(Var)

☐ **COS TABLE**

- Add Attribute 9 to COS for sets with Message Waiting Lamps
- Add Attribute 62 to all Port COS for members of the hunt group.
- Add Attribute 34 to all COS for users with extensions and to all ports' COS

☐ **APPLICATION DELAY TABLE**

If necessary, set the appropriate value in the Application Delay Table.

7.0 INSTALLING THE LINE INTERFACE CARDS

Installing the DLC-16 ports

Each DLC-16 card supports sixteen set appearances. Each DLC port connects to the PBX via the 25 pair connector at the rear of the Octel system. Connect each equipped port to the PBX. Ensure that all Yellow LEDs on the DLC cards are extinguished.

7.1 TESTING THE INSTALLATION

Testing the installation when complete

- ☐ Create two mailboxes associated with two test extensions. Record a name and personal greeting for each mailbox. Put a different security code on each mailbox.
- ☐ Call forward the test extensions to the Octel system access number.
- ☐ Using one test extension, call the Direct Call Target Code + the extension number. You should hear "To enter your mailbox, press #".
- ☐ Using one test extension, call the other test extension. You should hear the personal greeting.
- ☐ Leave a message. Verify that the message waiting indicator turns on.
- ☐ Verify that transfer to attendant console and personal assistant works properly.
- ☐ Call the Octel server from a test extension. Log onto the mailbox.
- ☐ Review the message in the mailbox.
- ☐ Delete the message. Verify that the message waiting indicator turns off.

Refer to the PRM for additional tests.

8.0 CONSIDERATIONS

Important notes regarding this integration

8.1 The direct call feature is not supported**.**

8.2 Ericsson inform us that the BP250 can only support 1 voice mail system, This however did not appear to be the case, as Serenade was working along side existing apparatus.

8.3 Not all versions of the BP250 allow the operator's console to generate DTMF tones, thus operator assisted calls require some intervention

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