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Lucent/Avaya Definity G3si V7 PBX with CallManager using the Cisco 6608-E1 PRI EURO Gateway

This application note discusses the integration of the Lucent/Avaya Definity G3si V7 PBX with CallManager using the Cisco 6608-E1 PRI EURO Gateway.

Integration Description

Connectivity is achieved by using the ETSI standard PRI protocol. The Lucent/Avaya Definity G3si can be configured as either the NETWORK or USER side. The figure below shows the general network layout for the integration.

Network Layout

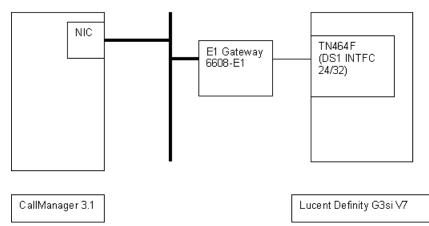
Features

Key features supported:

- Calling/Called Number
- Calling/Called Name

Key features not supported:

• N/A



Cisco Systems Equipment Needed

- Hardware (Gateway): Cisco 6608 E1 Port
- Software: CallManager Release 3.1(0.212)

PBX Requirements

- Hardware: TN464F, DS1 INTFC 24/32
- Software: Version V7



Configuring the Lucent/Avaya Definity G3si PBX

To configure the Lucent/Avaya Definity G3si PBX, do the following:

- **Step 1.** Add the new circuit pack.
- **Step 2.** Add the new signaling group.
- **Step 3.** Add the new trunk group.
- Step 4. Add the Uniform Dialing Plan.

Circuit Pack

The following figures show the configuration of the DS1 circuit pack.

DS1 Circuit Pack

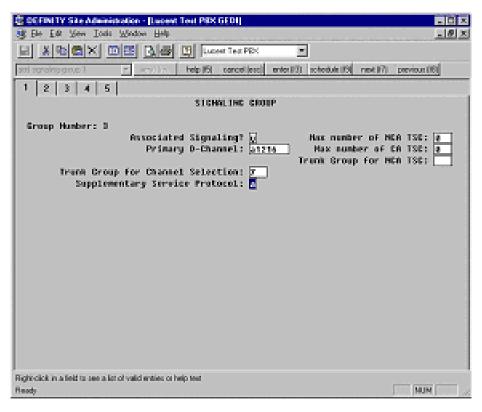
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Signaling Group

The following figure shows the configuration of the signaling group.

Signaling Group

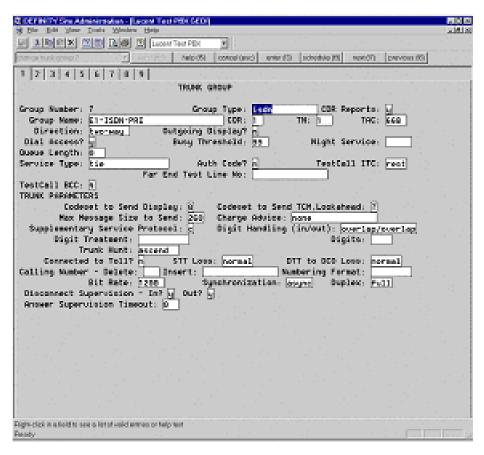




Trunk Group

The following figures show the configuration of the trunk group.

Trunk Group





Trunk Group—Trunk Features

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Trunk Group—Group Member Assignments

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Trunk Group—Group Member Assignments Continued

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Uniform Dialing Plan

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Uniform Dialing Plan

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Configuring Cisco CallManager

To configure Cisco CallManager, do the following:

- **Step 1.** Configure the gateway.
- **Step 2.** Configure the route pattern.

Gateway Configuration

The following figures show the configuration of the Cisco 6608 Gateway.

Cisco 6608 Gateway Configuration



Cisco 6608 Gateway Configuration Continued

Network Hold Audio Source	< None >	-	-
User Hold Audio Source	< None >	*	
Calling Search Space	< None >	*	
Location	< None >	*	
Load Information			
Channel Selection Order*	Top Down	•	
РСМ Туре*	μ-law	*	
Protocol Side*	Network	•	
Caller ID DN			
Calling Party Selection*	Originator	•	
Channel IE Type*	Use Number when 1B	•	
Interface Identifier Present**			
Interface Identifier Value**	0		
Display IE Delivery	u		
Redirecting Number IE Delivery	V		
Delay for first restart (1/8 sec ticks)	32		-
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Cisco 6608 Gateway Configuration Continued

	Delay between restarts (1/8 sec ticks)	4	<u> </u>
	Num Digits*	23	-
	Sig Digits	V	
	Prefix DN		
	Presentation Bit*	Allowed	•
	Called party IE number type unknown*	Cisco CallManager	
	Calling party IE number type unknown*	Cisco CallManager	
	Called Numbering Plan*	Cisco CallManager	•
	Calling Numbering Plan*	Cisco CallManager	•
	PRI Protocol Type*	PRI NI2	•
	Inhibit restarts at PRI initialization	v	
	Enable status poll		
	Number of digits to strip*	0	
	Country Code*	North America	-
	Setup non-ISDN Progress Indicator IE Enable***		▼ ご Local intranet
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Cisco 6608 Gateway Configuration Continued

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Route Pattern Configuration

The following figures show the configuration of the route pattern.

Route Pattern Configuration

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Route Pattern Configuration Continued

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* indicates required form.	
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Considerations

Calling Name and Number Feature

When calling from a Cisco 7960 IP phone to a Lucent digital phone, the Calling Name and Number are displayed on the Lucent digital phone after the call is answered. The Cisco 7960 phone, however, displays only the Called Number even though the Lucent sends both the "Connected Name" and "Connected Number" in the CONNECT message.

When calling from a Lucent digital phone to a Cisco 7960 IP phone, the IP phone displays Connected Name and Number after the call is answered. The Lucent phone, however, did not display the Called Name or the Called Number. It was verified using ISDN protocol analyzer that the CallManager was not sending the Connected Name or the Connected Number information in the connect message back to PBX.

Integration Testing

This section contains information about the setup used in testing the integration of the Lucent/Avaya Definity G3si and the Cisco 6608-E1 PRI EURO Gateway.

CallManager Software Release:

The following figure shows the information about the release of CallManager being used.

CallManager Software Release

Microsof	ft Internet Explorer 🔁 🔁	<
	When reporting or troubleshooting a problem, please give the following information to Technical Assistance:	
	Cisco CallManager System version: 3.1(0.212) Cisco CallManager Administration version: 3.1(0.35)	
	Database Information Driver: SQL Server Server: KLINGON Database: CCM0300	
	Database DLL version DBL: 3.1(0.66) DBLR: 3.1(0.65) DBLX: 3.1(0.65)	
	OK	6880

Lucent/Avaya Definity G3si Software Release

The following release of the Lucent/Avaya Definity G3si was used:

• Software Version: G3V7i.01.0.343.7

