



Cisco Catalyst 6000 Series Gateway-PBX Interoperability: Siemens Hicom 300 E CS PBX with CallManager using T1 PRI Signaling

- This document describes the interoperability and configuration of a Cisco Catalyst 6000 series voice gateway with a Siemens Hicom 300 E CS PBX using T1 PRI signaling. It includes the following sections:
- System Components
- Configuration Tasks
- Caveats

System Components

PBX Model	Siemens Hicom 300 E CS
PBX Release	R 6.5
Telephony Signaling	T1 PRI
Voice Gateway	Cisco Catalyst 6608
Gateway Release	5.5(6a)
Call Manager Release	3.1.1
VoX Protocol	MGCP

Configuration Tasks

See the following sections for configuration tasks for this feature:

- Set Up
- Siemens Hicom 300 E CS PBX Configuration
- Call Manager Configuration
- Cisco Catalyst 6608 Gateway Configuration

Set Up

This section includes the following information:

- Connectivity Diagrams
- Set Up Notes

Connectivity Diagrams

Figure 1: Test Configuration

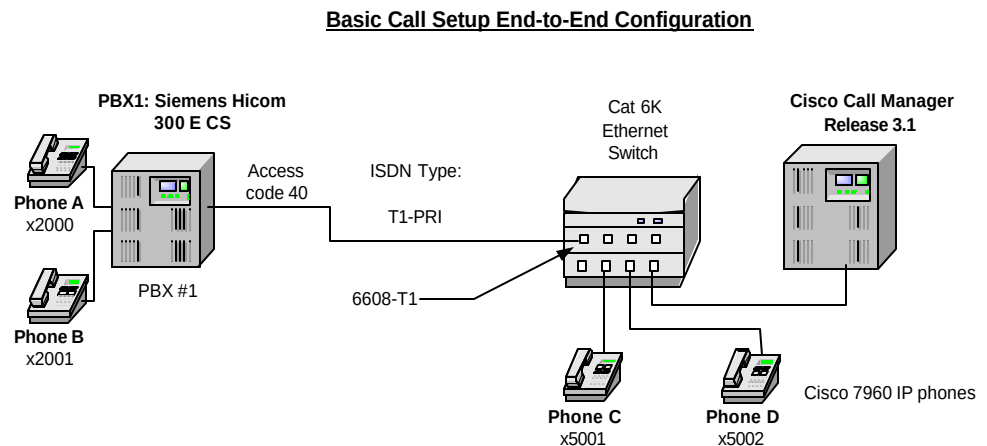


Figure 1 represents the configuration used for testing: A Siemens Hicom 300 E CS PBX connected to a Cisco Catalyst 6608 voice gateway via a T1 PRI connection.

Set Up Notes

- The Cisco 6608-T1 Gateway with ISDN protocol type setting of PRI-NI2 supports both protocol sides by selecting “Network/User” in the protocol side field when configuring the Gateway via CallManager.
 - o The “Network/user” choice for the Siemens Hicom 300 E PBX is made by deactivating the B channels/D-channel (<dea-dssu) and the DS1 board (<dea-bssu) consecutively.
 - o A change command is then issued to the Board Configuration Switching Unit (BCSU) to get to the “network/user” prompt (<cha-bcsu).
 - o The DS1 board by (<act-bssu), the D-channel, and B-channels are then reactivated (<act-dssu), after the settings are changed.
- The Siemens Hicom 300 E CS, supports both “USER” (slave) and “NETWORK” (master) protocol sides.

Siemens Hicom 300 E CS PBX Configuration

Siemens Hicom 300 E CS PBX Version Information

- Software: Version 6.5
- Hardware: TMDN or TMDN 64

Siemens Hicom 300 E CS PBX Sample Configuration

Configure in the following sequence:

1. Add the new access code to DPLN
2. Add the new trunk board using BCSU
3. Configure COT
4. Configure COP
5. Add the new trunk group access code using TGACC
6. Add the channels using TCSU
7. Configure LROUT
8. Configure LODR

Add the new access code to DPLN

<dis-dpln

TYPE = dgts

DGTS = ;

DIS-DPLN:DGTS,;

H500: AMO DPLN STARTED

DIGIT INTERPRETATION				VALID FOR DIAL PLAN 0			
DIRECTORY NUMBER	CALL	PROGRESS	STATE	DIGIT ANALYSIS	RSVD	ROUTE	
	12345	67890	1 11111 1111222	RESULT (SKIP DIGIT)			
0	*	*	*	GENANS			
1	*	*	*	CO			
2000 - 2002	*	*	*	STN	R		
2003 - 2024	*	*	*	STN			
2025 - 2026	*	*	*	STN			
2027 - 2099	*	*	*	STN	R		
37 - 41	*	*	*	CO			
43 - 48	*	*	*	TIE			
49 - 50	*	*	*	CO			
70000 - 70999	*	*	*	STN	R		
71000	*	*	*	STN			1
71001 - 79998	*	*	*	STN	R		

DIGIT INTERPRETATION				VALID FOR DIAL PLAN 0			
DIRECTORY NUMBER	CALL	PROGRESS	STATE	DIGIT ANALYSIS	RSVD	ROUTE	
	12345	67890	1 11111 1111222	RESULT (SKIP DIGIT)			
79999	*	*	*	STN			
9	*	*	*	CO			
*0	*	*	*	ACDWORK			
*2	*	*	*	ACCTCODE			
*3	*	*	*	PUDIR			
*4	*	*	*	CONFRNC			
*52	*	*	*	MWCAN			
*530	*	*	*	PMCANCEL			
*532	*	*	*	PMCALLBK			
*563	*	*	*	BADLINE			
*564	*	*	*	ACDLOGON			
*565	*	*	*	ACDLOGOF			

DIGIT INTERPRETATION				VALID FOR DIAL PLAN 0		
DIRECTORY NUMBER	CALL PROGRESS STATE		DIGIT ANALYSIS	RSVD	ROUTE	
	12345	67890	1 11111 1111222 12345 6789012 RESULT (SKIP DIGIT)			
*570	*	*	*			ACDP0
*571	*	*	*			ACDPS
*572	*	*	*			RING
*580	*	*	*			ACDSQ
*581	*	*	*			ACDSS
*6	*	*	*			ROLMPARK
*7	*	*	*			CONSULT
*80 - *89	*	*	*			PARK
*9	*	*	*			HOLD
*0	*	*	*			BVSL
*1	*	*	*			TOGGLE
*3	*	*	*			PU
DIGIT INTERPRETATION				VALID FOR DIAL PLAN 0		
DIRECTORY NUMBER	CALL PROGRESS STATE		DIGIT ANALYSIS	RSVD	ROUTE	
	12345	67890	1 11111 1111222 12345 6789012 RESULT (SKIP DIGIT)			
**41 - **48	*	*	*			CONFRMV
**50	*	*	*			CAFGRVL
**51	*	*	*			CAFGRUNA
**6	*	*	*			INTERCOM
**8	*	*	*			MWANS
***4	*	*	*			CONFRMVL
***5	*	*	*			MONSLNT
**#65	*	*	*			CAFGRUFF
**#01	*	*	*			RCHNL
**#02	*	*	*			RTERM
**#03	*	*	*			LTERM
**#04	*	*	*			PRITEST
DIGIT INTERPRETATION				VALID FOR DIAL PLAN 0		
DIRECTORY NUMBER	CALL PROGRESS STATE		DIGIT ANALYSIS	RSVD	ROUTE	
	12345	67890	1 11111 1111222 12345 6789012 RESULT (SKIP DIGIT)			
**#274	*	*	*			WS
**#50	*	*	*			CAFAVLB
**#51	*	*	*			CAFUNAV
**#55	*	*	*			CAFFWD
**#56	*	*	*			CAFFWDC
**#57	*	*	*			PIDON
**#58	*	*	*			PIDOFF
**#590	*	*	*			DCOSX
**#591	*	*	*			ACOSX
**#63	*	*	*			CLEAR
**#65	*	*	*			CAFLOGOF
**#735	*	*	*			RELOCATE
DIGIT INTERPRETATION				VALID FOR DIAL PLAN 0		
DIRECTORY NUMBER	CALL PROGRESS STATE		DIGIT ANALYSIS	RSVD	ROUTE	
	12345	67890	1 11111 1111222 12345 6789012 RESULT (SKIP DIGIT)			
**#738	*	*	*			SET
**#97	*	*	*			COXFER
#0	*	*	*			ACDUNAV
#1	*	*	*			ACBK
#2	*	*	*			PRION
#3	*	*	*			SPDI
#4	*	*	*			SNR
#5	*	*	*			ADND
#61	*	*	*			SPDC1
#62	*	*	*			SPDC2
#80	*	*	*			BROADCST
#81	*	*	*			SPKRCALL
DIGIT INTERPRETATION				VALID FOR DIAL PLAN 0		
DIRECTORY NUMBER	CALL PROGRESS STATE		DIGIT ANALYSIS	RSVD	ROUTE	
	12345	67890	1 11111 1111222 12345 6789012 RESULT (SKIP DIGIT)			
#8378	*	*	*			HWTEST
#91	*	*	*			CFWVABTH
#92	*	*	*			CFWVAEXT
#93	*	*	*			CFWVAINT

#94	*	*	*	*	CFWVB		
#95	*	*	*	*	CFWVBNA		
#96	*	*	*	*	CFWVNA		
#*056	*****	*****	*****	*****	DATA56		
#*1	*****	*****	*****	*****	MWACT		
#*2	*****	*****	*****	*****	BUZZ		
#*329	*****	*****	*****	*****	FAX	R	
#*4	*****	*****	*****	*****	VCECALL		
DIGIT INTERPRETATION				VALID FOR DIAL PLAN 0			
DIRECTORY NUMBER	CALL	PROGRESS	STATE	DIGIT ANALYSIS	RSVD	ROUTE	
	12345	67890	1 11111 1111222	RESULT (SKIP DIGIT)			
#*75	*	*****	*****	DIGIDAT			
#*76	*	*****	*****	SWITCH			
#*77	*	*****	*****	DTE			
#*78	*	*****	*****	CODE			
#*79	*	*****	*****	SPEED			
#*8	*****	*****	*****	MWCANORI			
#*90	*	*****	*****	HUNTPROG			
#*92	*	*****	*****	AHTVCE			
#*93	*	*****	*****	DHTVCE			
#*94	*	*****	*****	AHTDTE			
#*95	*	*****	*****	DHTDTE			
#*96	*	*****	*****	AHTFAX			
DIGIT INTERPRETATION				VALID FOR DIAL PLAN 0			
DIRECTORY NUMBER	CALL	PROGRESS	STATE	DIGIT ANALYSIS	RSVD	ROUTE	
	12345	67890	1 11111 1111222	RESULT (SKIP DIGIT)			
#*97	*	*****	*****	DHTFAX			
#*99	*	*****	*****	HUNTCLR			
##0	*	*****	*****	ACDAVLB			
##1	*	*****	*****	DCBK			
##2	*	*****	*****	PRIOFF			
##3	*	*****	*****	SPDIPROG			
##4	*	*****	*****	LNR			
##5	*	*****	*****	DDND			
##7	*	*****	*****	KNOVR			
##8	*	*****	*****	DTA			
##91	*	*****	*****	CFWVAOFF			
##*78	*	*****	*****	RESET			
DIGIT INTERPRETATION				VALID FOR DIAL PLAN 0			
DIRECTORY NUMBER	CALL	PROGRESS	STATE	DIGIT ANALYSIS	RSVD	ROUTE	
	12345	67890	1 11111 1111222	RESULT (SKIP DIGIT)			
###1	*	*****	*****	TRACE			
####20	*	*****	*****	MILLWAT			
####21	*	*****	*****	LOOPBACK			
####22	*	*****	*****	SILENCE			
####23	*	*****	*****	COMBO			
####4	*	*****	*****	THRCONE			
####6	*	*****	*****	MONTONE			

AMO-DPLN -135 DIALING PLANS, FEATURE ACCESS CODES
DISPLAY COMPLETED;

Add the new trunk board using BCSU

```
<dis-bcsu
```

```
TYPE = tmd;
```

```
DIS-BCSU:TMD;
```

```
H500: AMO BCSU STARTED
```

DETAILS OF TMD BOARD AT ADDRESS (LTG.LTU.SLOT) = 1. 2.103					
CABTYP =	1	TIMTYP =	SYST	SIGTYP =	MOS
FRAME =	ESF	TABS =	NO	FCTID =	2
BI8SUB =	YES	BIVDET =	NO		
RDRATIO =	6	RDTH =	2500	RDOUAL =	15000
YLSND =	5000	YLTH =	400	YLQUAL =	100
LOS =	150	AOS =	4000		
SESDISTH =	10	SESREQTH =	10		
OESDISTH =	30	OESDISIN =	24-00-00		
OESREQTH =	4	OESREQIN =	04-00-00		
NETUSR =	NETWK	ACKTIM =	1000	DLVTIM =	30000
OCTMAX =	260	RETMAX =	3	WINDOW =	1
CRIDC =		TTSC =		NSFIV =	
NSFTSC =		PFDGT =			
IGN =	0	IID =	1		

```
AMO-BCSU -135 BOARD CONFIGURATION, SWITCHING UNIT
```

```
DISPLAY COMPLETED;
```

Configure COT

```
<dis-cot
```

```
COTNO = 0;
```

```
DIS-COT:0;
```

```
H500: AMO COT STARTED
```

```

|D|A|D|D|M|S|V|E|E|A|R| |
|I|N|S|S|I|D|A|L|S|S|N|F|
|T|S|A|A|S|R|T|S|P|P|I|L|
| |R| |S| | |A|A|D|D|A|
| | | | | |T|N|N|N|S|
| | | | | |I|I|I|H|
COT | | | | | | | |S|S|
---+---+---+---+---+---+---+
0 | | | | | | | | | |
---+---+---+---+---+---+---+

```

```
AMO-COT -135 CLASS OF TRUNK FOR CALL PROCESSING
```

```
DISPLAY COMPLETED;
```

	S	E A				
T	A S V E S N D DD S P					
D Z L P D D T TT U P						
I A A S S A N N O MM P D						
COP A N C A A N I I N FF V P						
IDX L S K T T I S S E L 12 1234						
0						

GRP NUMBER	:	40	TGRP NAME	:	T1PRI	/N	MAXIMUM NO:	23
UJGROUP NUMBER:	11	DEVICE TYPE:	PRI B				DIR TYPE	: BOTH
CD THRESHOLD	:	*	TRACENO	:	0		USAGE TYPE:	TERR
ALLOCATED TO AT LEAST ONE ROUTE							GDTR RULE	: 0
ELECTION	:	LOW	CFBLOCK	:	DISABLED			
THE FOLLOWING PORTS (LTG-LTU-SLOT-CIRCUIT) ARE ALLOCATED:								
1- 2-103- 1	1- 2-103- 2	1- 2-103- 3	1- 2-103- 4	1- 2-103- 5	1- 2-103- 6			
1- 2-103- 7	1- 2-103- 8	1- 2-103- 9	1- 2-103-10	1- 2-103-11	1- 2-103-12			
1- 2-103-13	1- 2-103-14	1- 2-103-15	1- 2-103-16	1- 2-103-17	1- 2-103-18			
1- 2-103-19	1- 2-103-20	1- 2-103-21	1- 2-103-22	1- 2-103-23	- - -			

AMO-TGACC-135 TRUNK GROUP ACCESS CODE
 DISPLAY COMPLETED;

Add the new trunk group access code using TGACC

TCSU - B Channel

```
<dis-tcsu
PEN1 = 1-2-103-1;
DIS-TCSU:1-2-103-1;
H500: AMO TCSU STARTED
```

PEN:	1- 2-103- 1	INS:	Y	BOARD:	TMDN64P	DEV:	PRIB	TGRP:	40
TRKID :	0040	TCCID :							
CCT :		/0040							
ACDATA :	0	DITIDX :	0	LOCANA :					
ATNTYP :	ISDN	DPLN :	0	REMANA :					
COPNO :	0	ITR :	0	SIDANI :	N				
COSNO :	75	LCRCOSD :	5	SRTIDX :	3				
COTNO :	0	LCRCOSV :	5	TRTBL :	DIDCR				
DEDSVC :	NONE	FACILITY :	*						

AMO-TCSU -135 TRUNK CONFIGURATION, SWITCHING UNIT
 DISPLAY COMPLETED;

TCSU - D Channel

```
<dis-tcsu
PEN1 = 1-2-103-24;
DIS-TCSU:1-2-103-24;
H500: AMO TCSU STARTED
```

PEN:	1- 2-103-24	INS:	Y	BOARD:	TMDN64P	DEV:	PRID
TCCID :							
CCT :							
ACDATA :	0	DEDSVC :		INTERFID :			
COPNO :	0	DITIDX :		ITR :	0		
COTNO :	0	DPLN :	0	PROTOCOL :	NI2		
TMR301 :	300 SEC.	TMR308 :	4 SEC.	TMR313 :	4 SEC.		
TMR303 :	4 SEC.	TMR309 :	90 SEC.	TMR316 :	30 SEC.		


```
| TMR305 : 30 SEC. TMR310 : 30 SEC. TMR322 : 4 SEC. |
| TDELAY : 3000 MSEC. BEARER: ONE |
| NCT : N TNCT : |
+-----+
```

AM0-TCSU -135 TRUNK CONFIGURATION, SWITCHING UNIT

DISPLAY COMPLETED;

Configure LROUT

<dis-lrout

ROUTE = 40;

DIS-LROUT:40;

H500: AM0 LROUT STARTED

LCR ROUTE DEFINITION TABLE

```
-----
| ROUTENUM = 40          SCHED A = X  AORT   =      INFORMATION |
| ROUTEELE = 1          B =      AUTH   = 1  TRANS CAP = S3V    |
| BEARER    = ONE       C =      ONHKQ  = Y  TRKSIG  = PRI      |
| BANDWTH   = 1         D =      OFFHKQ = Y  SCCID   =          |
| TRUNKGRP  = 40        E =      ODRNUM = 1  SVCVCE  = NON      |
| MASTGRP   = 8         F =      APLTYP = VD  SVCN-V  = NON      |
| ROUTSERV  = N         G =          FACNUM  =          |
|              H =          |
+-----+
```

END OF LCR ROUTE DEFINITION TABLE DISPLAY

AM0-LROUT-135 ROUTE DEFINITION DETERMINATION PACKAGE

DISPLAY COMPLETED;

Configure LODR

<dis-lodr

RANGE =

DIS-LODR;

H500: AM0 LODR STARTED

<< DISPLAY LCR OUTDIAL RULE >>

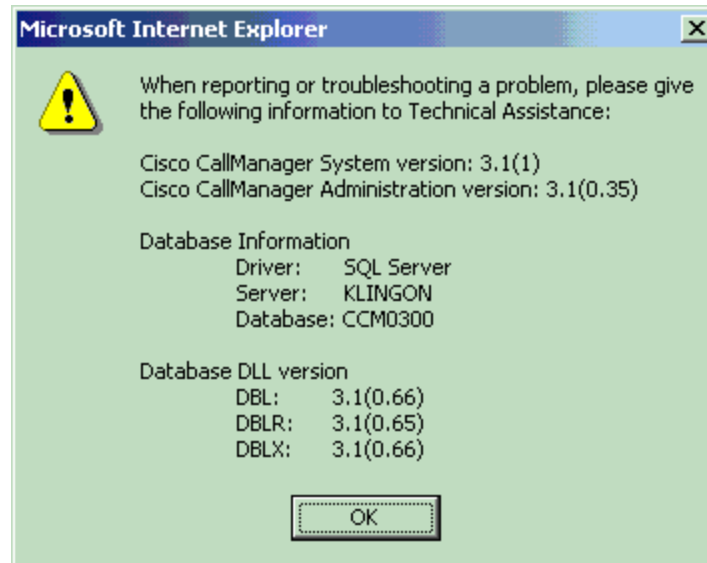
```
ODR NO  COMMAND  BRANCH VALUE
-----
1       ECHOALL
        END
----- END OF DISPLAY -----
```

AM0-LODR -135 AM0 LCR ODR FOR SWITCHING UNIT

DISPLAY COMPLETED;

Call Manager Configuration

Call Manager Version Information



6608 Gateway Configuration

[System](#) [Route Plan](#) [Service](#) [Feature](#) [Device](#) [User](#) [Application](#) [Help](#)

Gateway Configuration

[Back to Find/List Gateways](#)



Product : Cisco Catalyst 6000 T1 VoIP Gateway
Gateway : S0/DS1-0@SDA0001C9D93A99
Device Protocol: Digital Access PRI
Registration: Registered with Cisco CallManager KLINGON
IP Address: [10.1.1.108](#)

Status: Ready

[Update](#) [Delete](#) [Reset Gateway](#) [Cancel Changes](#)

MAC Address*

Description

Device Pool*

Media Resource Group List

 Local intranet

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

 Restart succeeded.

 Local intranet

Delay between restarts (1/8 sec ticks)	4
Num Digits*	23
Sig Digits	☒
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	☒
Enable status poll	☐
Number of digits to strip*	0
Country Code*	North America
Setup non-ISDN Progress Indicator IE Enable***	☐

Local intranet

Product Specific Configuration

Clock Reference*

Network

TX-Level CSU*

0dB

FDL Channel*

ATT 54016

Framing*

ESF

Audio Signal Adjustment into IP Network*

NoDbPadding

Audio Signal Adjustment from IP Network*

NoDbPadding

Yellow Alarm*

Bit2

Zero Suppression*

B8ZS

* indicates required item

** applicable to DMS-100 protocol only

*** may be required to force ringback from some PBX's

[Back to Find/List Gateways](#)

Local intranet

Route Pattern Configuration

[System](#) [Route Plan](#) [Service](#) [Feature](#) [Device](#) [User](#) [Application](#) [Help](#)

Cisco CallManager Administration
For Cisco IP Telephony Solutions



Route Pattern Configuration

[Add a New Route Pattern](#)
[Back to Find/List Route Patterns](#)

Route Pattern: 6.XXXX

Status: Ready
Note: Any update to this route pattern automatically resets the associated gateway/route list

[Copy](#) [Update](#) [Delete](#) [Cancel Changes](#)

Pattern Definition

Route Pattern*	6.XXXX
Partition	< None >
Numbering Plan*	North American Numbering Pl
Route Filter	< None >
Gateway/Route List*	S0/DS1-0@SDA0001C9D93A99 (Edit)
Route Option	☒ Route this pattern ☐ Block this pattern

  Local intranet

Route Pattern*	6.XXX
Partition	< None >
Numbering Plan*	North American Numbering Plan
Route Filter	< None >
Gateway/Route List*	S0/DS1-0@SDA0001C9D93A99 (Edit)
Route Option	☒ Route this pattern ☐ Block this pattern
☒ Provide Outside Dial Tone	☐ Urgent Priority
Calling Party Transformations	
☐ Use Calling Party's External Phone Number Mask	
Calling Party Transform Mask	
Prefix Digits (Outgoing Calls)	
Called Party Transformations	
Discard Digits	PreDot
Called Party Transform Mask	
Prefix Digits (Outgoing Calls)	
* indicates required item.	

  Local intranet

Cisco Catalyst 6608 Gateway Configuration

The following is the configuration of the Cisco Catalyst 6608 voice gateway connected to the Siemens Hicom 300 E CS PBX T1 PRI NI-2 interface.

Cisco Catalyst 6608 Voice Gateway Version Information

```
Console> (enable) sh version
WS-C6006 Software, Version NmpSW: 5.5(6a)
Copyright (c) 1995-2001 by Cisco Systems
NMP S/W compiled on Feb 23 2001, 10:23:18
```

System Bootstrap Version: 5.3(1)

Hardware Version: 2.0 Model: WS-C6006 Serial #: TBA04511172

Mod	Port	Model	Serial #	Versions
1	2	WS-X6K-SUP1A-2GE	SAD05010NBK	Hw : 7.0 Fw : 5.3(1) Fw1: 5.4(2) Sw : 5.5(6a) Sw1: 5.5(6a)
3	48	WS-F6K-PFC WS-X6348-RJ-45	SAD05020221 SAD04420N7B	Hw : 1.1 Hw : 1.4 Fw : 5.4(2) Sw : 5.5(6a)
4	24	WS-F6K-VPWR WS-X6624-FXS	SAD050203M8	Hw : 1.0 Hw : 3.0 Fw : 5.4(2) Sw : 5.5(6a) HP : A00203010010; DSP : A003E031 (3.3.
32)				
5	8	WS-X6608-T1	SAD04400EM0	Hw : 1.1 Fw : 5.4(2) Sw : 5.5(6a) HP1: D00403010017; DSP1: D005E031 (3.3.
32)				
32)				HP2: D00403010017; DSP2: D005E031 (3.3.
32)				HP3: D00403010017; DSP3: D005E031 (3.3.
32)				HP4: D00403010017; DSP4: D005E031 (3.3.
32)				HP5: D00403010017; DSP5: D005E031 (3.3.
32)				HP6: D00403010017; DSP6: D005E031 (3.3.
32)				HP7: D00403010017; DSP7: D005E031 (3.3.
32)				HP8: D00403010017; DSP8: D005E031 (3.3.
32)				
6	8	WS-X6608-E1	SAD04380DW1	Hw : 1.1 Fw : 5.4(2) Sw : 5.5(6a) HP1: D00403010017; DSP1: D005E031 (3.3.
32)				
32)				HP2: D00403010017; DSP2: D005E031 (3.3.
32)				HP3: D00403010017; DSP3: D005E031 (3.3.

```

32) HP4: D00403010017; DSP4: D005E031 (3.3.
32) HP5: D00403010017; DSP5: D005E031 (3.3.
32) HP6: D00403010017; DSP6: D005E031 (3.3.
32) HP7: D00403010017; DSP7: D005E031 (3.3.
32) HP8: D00403010017; DSP8: D005E031 (3.3.
32)

```

Module	DRAM			FLASH			NVRAM		
	Total	Used	Free	Total	Used	Free	Total	Used	Free
1	65408K	37863K	27545K	16384K	11546K	4838K	512K	198K	314K

Uptime is 83 days, 2 hours, 34 minutes
 Console> (enable)

Cisco Catalyst 6608 Voice Gateway Sample Configuration

Console> (enable) **sh module**

Mod	Slot	Ports	Module-Type	Model	Sub	Status
1	1	2	1000BaseX Supervisor	WS-X6K-SUP1A-2GE	yes	ok
3	3	48	10/100BaseTX Ethernet	WS-X6348-RJ-45	yes	ok
4	4	24	FXS	WS-X6624-FXS	no	ok
5	5	8	T1	WS-X6608-T1	no	ok
6	6	8	E1	WS-X6608-E1	no	ok

Mod	Module-Name	Serial-Num
1		SAD05010NBK
3		SAD04420N7B
4		SAD050203M8
5		SAD04400EM0
6		SAD04380DW1

Mod	MAC-Address(es)	Hw	Fw	Sw
1	00-04-c0-f8-42-02 to 00-04-c0-f8-42-03 00-04-c0-f8-42-00 to 00-04-c0-f8-42-01 00-04-9b-f0-78-00 to 00-04-9b-f0-7b-ff	7.0	5.3(1)	5.5(6a)
3	00-02-fc-20-5e-50 to 00-02-fc-20-5e-7f	1.4	5.4(2)	5.5(6a)
4	00-03-32-ba-2e-35	3.0	5.4(2)	5.5(6a)
5	00-01-c9-d9-3a-98 to 00-01-c9-d9-3a-9f	1.1	5.4(2)	5.5(6a)
6	00-01-c9-d8-63-3e to 00-01-c9-d8-63-45	1.1	5.4(2)	5.5(6a)

Mod	Sub-Type	Sub-Model	Sub-Serial	Sub-Hw
1	L3 Switching Engine	WS-F6K-PFC	SAD05020221	1.1
3	Inline Power Module	WS-F6K-VPWR		1.0

Console> (enable)

Console> (enable) **sh port 5**

Port	Name	Status	Vlan	Duplex	Speed	Type
5/1		notconnect	1	full	1.544	T1
5/2		connected	1	full	1.544	T1
5/3		notconnect	1	full	1.544	T1
5/4		notconnect	1	full	1.544	T1
5/5		notconnect	1	full	1.544	T1
5/6		notconnect	1	full	1.544	T1

```

5/7          notconnect 1          full 1.544 T1
5/8          notconnect 1          full 1.544 T1

```

Port	DHCP	MAC-Address	IP-Address	Subnet-Mask
5/1	enable	00-01-c9-d9-3a-98	10.1.1.107	255.255.255.0
5/2	enable	00-01-c9-d9-3a-99	10.1.1.108	255.255.255.0
5/3	enable	00-01-c9-d9-3a-9a	10.1.1.109	255.255.255.0
5/4	enable	00-01-c9-d9-3a-9b	10.1.1.110	255.255.255.0
5/5	enable	00-01-c9-d9-3a-9c	10.1.1.111	255.255.255.0
5/6	enable	00-01-c9-d9-3a-9d	10.1.1.112	255.255.255.0
5/7	enable	00-01-c9-d9-3a-9e	10.1.1.113	255.255.255.0
5/8	enable	00-01-c9-d9-3a-9f	10.1.1.114	255.255.255.0

Port	Call-Manager(s)	DHCP-Server	TFTP-Server	Gateway
5/1	10.1.1.2	10.1.1.2	10.1.1.2	10.1.1.7
5/2	10.1.1.2	10.1.1.2	10.1.1.2	10.1.1.7
5/3	10.1.1.2	10.1.1.2	10.1.1.2	10.1.1.7
5/4	10.1.1.2	10.1.1.2	10.1.1.2	10.1.1.7
5/5	10.1.1.2	10.1.1.2	10.1.1.2	10.1.1.7
5/6	10.1.1.2	10.1.1.2	10.1.1.2	10.1.1.7
5/7	10.1.1.2	10.1.1.2	10.1.1.2	10.1.1.7
5/8	10.1.1.2	10.1.1.2	10.1.1.2	10.1.1.7

Port	DNS-Server(s)	Domain
5/1	-	-
5/2	-	-
5/3	-	-
5/4	-	-
5/5	-	-
5/6	-	-
5/7	-	-
5/8	-	-

Port	CallManagerState	DSP-Type
5/1	registered	C549
5/2	registered	C549
5/3	registered	C549
5/4	registered	C549
5/5	registered	C549
5/6	registered	C549
5/7	registered	C549
5/8	registered	C549

Port	NoiseRegen	NonLinearProcessing
5/1	enabled	enabled
5/2	enabled	enabled
5/3	enabled	enabled
5/4	enabled	enabled
5/5	enabled	enabled
5/6	enabled	enabled
5/7	enabled	enabled
5/8	enabled	enabled

Console> (enable)

Caveats

- Calling Name delivery and presentation features are not supported by the A Siemens Hicom 300 E CS PBX.
- When calling from Cisco 7960 IP phone to Siemens digital phone, Calling/Called Number is displayed on both phones after the call is answered as expected.
- When calling from Siemens digital phone to Cisco 7960 IP phone, IP phone displays Connected Number after the call is answered. The Siemens phone however does NOT get updated when the call is answered. It displays the trunk name.
- When a call is answered, the display on the Siemens phone is only active (Calling Number is displayed) for approximately 4 seconds, thereafter the display goes blank. This could be caused by a timer feature that is expiring for the display.