Siemens HiPath 4000 Release 5.0 using SIP trunk to Cisco Unified Communications Manager 8.5

18th February, 2011, Initial Version

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Introduction

- This application notes describes the necessary steps and configurations for connectivity between Siemens HiPath 4000 Release 5.0 and Cisco Unified Communications Manager (Cisco UCM) 8.5 over SIP trunk.

- The network topology diagram (Figure 1) shows the test setup for end-to-end interoperability between Cisco Unified Communications Manager 8.5 connected to Siemens HiPath 4000 Release 5.0 using SIP trunks via IP connectivity. Features tested are basic calls, 3-way (ad-hoc) conference, call transfer (attended and unattended), call forward (all, busy and no answer), hold/resume, DTMF interworking and MWI on/off.

- During testing, a Cisco 3845 voice gateway was used as the DSP farm point (MTP, Conference bridge), however other Cisco voice gateways can be used and the decision to choose what Cisco gateway model to use is left to the customer. The customer should choose a Cisco IOS gateway model based on the capabilities and the capacity that will be required based on the planned network deployment. Here is a list of Cisco IOS products:
  - Cisco 2800 Series Integrated Services Routers
  - Cisco 3800 Series Integrated Services Routers
  - Cisco AS5350XM Universal Gateway
  - Cisco AS5400XM Universal Gateway
Network Topology

Figure 1. Basic Call Setup
System Components

Hardware Requirements

The following hardware is tested:

- Cisco MCS 7825H3 Unified Communications Manager Appliance
- Cisco Unified IP Phone 7960 (SCCP)
- Cisco Round Table Phone 9971 (SIP)
- Siemens HiPath 4000
- Siemens Optipoint 420 (SIP Phone)
- Siemens Optiset E advance plus (Digital Phone)

Software Requirements

The following software is tested:

- Cisco Unified Communications Manager Release 8.5.1.10000-26
- Siemens HiPath 4000 Release 5.0
Features

This section lists supported and unsupported features.

**Features Supported**

- Basic calls
- CLIP - Calling line (number) identification presentation
- CLIR - Calling line (Number) identification restriction
- CNIR - Calling name identification restriction
- COLP - Connected line (Number) identification presentation
- COLR - Connected line (Number) identification restriction
- CONR - Connected name identification restriction
- Alerting name (See Limitations section for details.)
- Consultation transfer – Local and Network/External (See Limitations section for details.)
- Early Attended transfer – Local and Network/External (See Limitations section for details.)
- Call forward Local – Unconditional, Busy and No reply (See Limitations section for details.)
- Call forward Network/External – Unconditional, Busy and No reply (See Limitations section for details.)
- Hold and resume
- 3-way conference (ad-hoc) (See Limitations section for details)
- DTMF internetworking

**Features Not Supported**

- CNIP - Calling name identification presentation
- CONP - Connected name identification presentation
- Centralized Message center voicemail integration
Limitations

These are the known limitations, caveats, or integration issues.

- Call direction: From Siemens to Cisco UCM. Siemens does not update phone with the PAI information sent by Cisco UCM in 180 during alerting, but forwards PAI information it received in 200 OK and the Siemens endpoint is updated after connect.

- Call direction: From Cisco UCM to Siemens. Siemens does not send PAI information during alerting, but sends PAI information only in 200 OK and so the Cisco UCM endpoint is updated only after the call is established.

- When a call from Siemens to Cisco UCM is transferred locally, Cisco UCM sends a request UPDATE to Siemens with the information of new name and number. Siemens ignores this request and so the endpoint does not update its display.

- Siemens SIP phones do not support “Early attended all transfers”.

- Call flow: From Cisco UCM to Siemens PhoneA Early attended transfer to PhoneB. No ringback on Originating Phone during transfer. Siemens SIP trunk does not forward 180 ringing sent by Siemens Phone to Cisco UCM.

- Siemens phones do not support blind transfers. (Siemens Optiset E advance plus and Siemens Optipoint 420)

- When a call is originated from Cisco Unified Communications Manager to Siemens and Siemens transfers it locally, Siemens do not send information about the transferred to extension to CUCM.

- Call direction: Siemens to Cisco UCM, Early attended transfer back to Siemens. Upon Early attended call transfer by Cisco UCM, call is initially completed without voice path and after 5 seconds call is disconnected. The workaround for this limitation is to configure “SIP Rel1XX Options: send PRACK if 1XX contains SDP” in SIP profile on Cisco UCM. (see configuration section for details)

- Siemens does not include diversion-header or history-info for call flows including “Call forward unconditional”, “Call forward Busy” and “Call forward No Reply”.

- RT Phone 9971 does not support display of forwarding information.

- Siemens SIP Phone (Optipoint 420) does not support display of forwarding information.

- When a user on the Cisco Unified Communications Manager side invokes call hold feature, MOH was not heard on the Siemens PBX phone. The workaround to get MOH streaming is to set CUCM service parameter Clusterwide Parameters (Service) -> Duplex Streaming Enabled to True.

- Siemens SIP Phone (Optipoint 420) require conferencing server to support 3 way conference. (Configuring External conferencing server is not part of this document).

- Centralized voicemail with Unity Connection is not possible since Siemens PBX does not support Diversion-header or History-info messages.
### Configuration

This section contains configuration menus and commands and describes configuration sequences and tasks.

**Configuring the Siemens HiPath 4000 Release 5.0**

WABE

```
dis-wabe:type-gen;
dis-wabe:type=gen;
H500: AMO WABE STARTED
```

<table>
<thead>
<tr>
<th>CODE</th>
<th>CALL PROGRESS STATE</th>
<th>NODE/DIGIT</th>
<th>RESERVED/CONVERT</th>
</tr>
</thead>
<tbody>
<tr>
<td>101</td>
<td>* . . . . . . . . . .</td>
<td>NETRTE</td>
<td></td>
</tr>
<tr>
<td>102</td>
<td>* . . . . . . . . . .</td>
<td>NETRTE</td>
<td>R</td>
</tr>
<tr>
<td>103</td>
<td>* . . . . . . . . . .</td>
<td>NETRTE</td>
<td></td>
</tr>
<tr>
<td>104</td>
<td>* . . . . . . . . . .</td>
<td>TIE</td>
<td></td>
</tr>
<tr>
<td>105</td>
<td>* . . . . . . . . . .</td>
<td>TIE</td>
<td></td>
</tr>
<tr>
<td>106</td>
<td>* . . . . . . . . . .</td>
<td>TIE</td>
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<table>
<thead>
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<tbody>
<tr>
<td>1111</td>
<td>11111 11112 22</td>
<td>ANALYSIS</td>
<td>DNI/ADD-INFO</td>
</tr>
<tr>
<td>0 12345 67890 12345 67890 12</td>
<td>RESULT</td>
<td>*-OWN NODE</td>
<td></td>
</tr>
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</table>

<table>
<thead>
<tr>
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<th>CALL PROGRESS STATE</th>
<th>NODE/DIGIT</th>
<th>RESERVED/CONVERT</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 12345 67890 12345 67890 12</td>
<td>RESULT</td>
<td>*-OWN NODE</td>
<td></td>
</tr>
</tbody>
</table>

**5058** - **5059** | **5067** | **5100** - **5119** | **5197**

<table>
<thead>
<tr>
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<th>RESERVED/CONVERT</th>
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<td>5059</td>
<td>STN</td>
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</tr>
<tr>
<td>5067</td>
<td></td>
<td>STN</td>
<td></td>
</tr>
<tr>
<td>5100</td>
<td>5119</td>
<td>STN</td>
<td></td>
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<tr>
<td>5197</td>
<td></td>
<td>STN</td>
<td></td>
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</table>

- **9** | **0** | **2** | **3** | **4**

<table>
<thead>
<tr>
<th>CODE</th>
<th>CALL PROGRESS STATE</th>
<th>NODE/DIGIT</th>
<th>RESERVED/CONVERT</th>
</tr>
</thead>
<tbody>
<tr>
<td>9</td>
<td>. . . . . . . . . .</td>
<td>TIE</td>
<td></td>
</tr>
<tr>
<td>0</td>
<td>* . . . . . . . . . .</td>
<td>ACDWORK</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>* . . . . . . . . . .</td>
<td>CDRACC</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>* . . . . . . . . . .</td>
<td>PUDIR</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>* . . . . . . . . . .</td>
<td>CONF</td>
<td></td>
</tr>
</tbody>
</table>

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Trunk Group Access Code, BUEND

dis-buend;
DIS-BUEND;
H500: AMO BUEND STARTED

TRUNK GROUPS (FORMAT=S)

<table>
<thead>
<tr>
<th>NO.</th>
<th>NAME</th>
<th>CHARCON</th>
<th>TGRP</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1-PRI</td>
<td>(NEUTRAL)</td>
<td>150</td>
</tr>
<tr>
<td>26</td>
<td>PRI ECMA 1</td>
<td>(NEUTRAL)</td>
<td>151</td>
</tr>
<tr>
<td>150</td>
<td>SIP</td>
<td>(NEUTRAL)</td>
<td></td>
</tr>
<tr>
<td>151</td>
<td>SIP Q</td>
<td>(NEUTRAL)</td>
<td></td>
</tr>
</tbody>
</table>

AMO-BUEND-111 TRUNK GROUP
DISPLAY COMPLETED;

Trunk Configuration, TDCSU

dis-tdcus:1-1-1-0;
DIS-TDCSU:1-1-1-0;
H500: AMO TDCSU STARTED

+-----------------------------+-----------------------------+-----------------------------+
| DEV = HG3550IP             | PEN = 1-01-001-0            | TGRP = 150                  |
|-----------------------------+-----------------------------+-----------------------------|
| PROTVAR = PSS1V2           | INS = Y                     | SRCHMODE = DSC              |
| COTNO = 59                 | COPNO = 59                  | DPLN = 0                    |
| ITR = 0                    | COS = 59                     | LCOSV = 15                  |
| LCOSDV = 15                | CCT = SIP TRUNK             | DESTNO = 111                |
| SEGMENT = 8                | DEDSCC =                    | DEDSVC = NONE               |
| FACILITY =                 | DRTIDX =                    |                            |
| TRTBL = GDTR               | SIDANI = N                  | ATNYP = TIE                 |
| CBMATTR = NONE             | MMUXTIM = 10                | TCHARG = N                  |
| SUPPRESS = 0               | DGTPR =                     | CHIMAP = N                  |
| ISDNIP =                   | ISDNNIP =                   |                            |
| PNFL2P =                   | PNFL1P =                    | PNPAC =                     |
| TRACOUNT = 31              | SATCOUNT = MANY             | NNO = 111                   |
| ALARMC= 0                  | PIDX = 1                    | CARRIER = 1                 |
| ZONE = EMPTY               | COTX = 59                   | FDWX = 10                   |
| DOMTYPE =                  | DOMAINNO =                 | TPROFNO =                   |
| INIGHT =                   |                             |                            |
| UUSCCCX = 16               | UUSCCY = 8                  | FNIDX = 1                   |
| CLASSMRK = EC & G711 & G729AOP | SRCGRF = 1                |                            |
| TCCID =                     |                            |                            |
| BCNEG = N                  | BCR = 1                     | LWPAR = 10                  |
| LWFP = 0                   | LWLT = 0                    | LWPS = 0                    |
| LWR1 = 0                   | LWR2 = 0                    |                            |
| DMCALLWD = Y               | VNNO =                      |                            |
| SVCDEM =                   |                            |                            |
| BCHAN = 1 4 10             |                            |                            |

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AMOUNT OF B-CHANNELS IN THIS DISPLAY-OUTPUT: 10

AMO-TDCSU-111   DIGITAL TRUNKS
DISPLAY COMPLETED;

Class of Trunk, COT

DISPLAY-COT:COTNO=59;
DISPLAY-COT:COTNO=59;
H500:  AMO COT STARTED

COT:  59  INFO: SIP TRUNK
DEVICE: INDEP  SOURCE: DB
PARAMETER:
  TRUNK SIGNALING ANSWER  ANS
  CALL EXTEND FOR BUSY, RING OR CALL STATE  CEBC
  DON'T RELEASE CALL TO BUSY HUNT GROUP  BSHT
  END-OF-DIAL FOR BLOCK IS SET  BLOC
  SEND NO NODE NUMBER TO PARTNER  LWNC
  INCOMING CIRCUIT FROM SYSTEM WITHOUT LCR  NLCR
  TSC-SIGNALING FOR NETWORKWIDE FEATURES (MANDATORY)  TSCS
  USE DEFAULT NODE NUMBER OF LINE  DFNN
  INCOMING CIRCUIT FROM SYSTEM WITHOUT LCR (DATA)  NLRD
  LINE WITH IMPLIED NUMBERS FOR CARRIER  LINC
  NO FLAG TRACE  NOFT
  NO TONE  NTON

AMO-COT-111   CLASS OF TRUNK FOR CALL PROCESSING
DISPLAY COMPLETED;

Class of Parameter for Device Handler, COP

DISPLAY-COP:COPNO=59;
DISPLAY-COP:COPNO=59;
H500:  AMO COP STARTED

COP:  59  INFO: SIP TRUNK
DEVICE: INDEP  SOURCE: DB
PARAMETER:
  REGISTRATION OF LAYER 3 ADVISORIES  L3AR

CO TRUNK ACCESS:
  TRUNK ACCESS  TA

TOLL ACCESS:
  TRUNK ACCESS  TA

AMO-COP-111   CLASS OF PARAMETER FOR DEVICE HANDLER
DISPLAY COMPLETED;

Class of Service, COSSU

DISPLAY-COSSU:TYPE=COS,COS=59;
DISPLAY-COSSU:TYPE=COS,COS=59;
H500:  AMO COSSU STARTED

<table>
<thead>
<tr>
<th>COS</th>
<th>VOICE</th>
<th>FAX</th>
<th>DTE</th>
</tr>
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<tbody>
<tr>
<td>-----</td>
<td>-------</td>
<td>-----</td>
<td>-----</td>
</tr>
</tbody>
</table>

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**Gateway Board configuration, STMIB**

**Rricht**

DISPLAY-Rricht:MODE=CD,CD=103;
DISPLAY-Rricht:MODE=CD,CD=103;
H500: AMO Rricht STARTED

<table>
<thead>
<tr>
<th>CODE</th>
<th>NAME, CQMAX, DESTNO AND CPS</th>
<th>TGRP</th>
<th>P</th>
<th>DTMF</th>
<th>LRTE</th>
<th>CPAR</th>
<th>F</th>
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<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>103</td>
<td>NEUTRAL SIP TRUNK</td>
<td>103</td>
<td>103</td>
<td>W</td>
<td>W</td>
<td>150</td>
<td></td>
</tr>
<tr>
<td></td>
<td>DNNO: 103</td>
<td>103</td>
<td>103</td>
<td>W</td>
<td>W</td>
<td>150</td>
<td></td>
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### ROUTES FOR ALL DPLN

<table>
<thead>
<tr>
<th>CODE</th>
<th>NAME, CDQMAX</th>
<th>TGRP</th>
<th>DTMF</th>
<th>LRTE</th>
<th>CPAR</th>
<th>F</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>DESTNO AND CPS</td>
<td>CCNO</td>
<td>L+</td>
<td>1 111112</td>
<td>B</td>
<td>CNV</td>
</tr>
<tr>
<td></td>
<td>12345 67890</td>
<td>123452</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
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</table>

<table>
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<tr>
<th>ODR</th>
<th>POSITION</th>
<th>CMD</th>
<th>PARAMETER</th>
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<tr>
<td>103</td>
<td>*</td>
<td>NPI</td>
<td>ISDN</td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>TON</td>
<td>UNKNOWN</td>
</tr>
<tr>
<td></td>
<td>3</td>
<td>ECHOALL</td>
<td></td>
</tr>
<tr>
<td></td>
<td>4</td>
<td>END</td>
<td></td>
</tr>
</tbody>
</table>

**INFO:** SIP TRUNK

* READY FOR USE BY AMO LDAT

**INFO:** SIP TRUNK

---

**INFO:** ADMINISTRATION OF LCR OUTDIAL RULES

---

**INFO:** ADMINISTRATION OF LCR OUTDIAL RULES

---

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LDAT
DISPLAY=LDAT:TYPE=NWLCR,LROUTE=103;
DISPLAY=LDAT:TYPE=NWLCR,LROUTE=103;
H500: AMO LDAT STARTED
| LROUTE = 103 | NAME = SIP TRUNK | SERVICE = ALL |
| TYPE = NWLCR | DNNO OF ROUTE = 103 |
| SERVICE INFO = |
| LRTEL | LVAL | TGRP | ODR | LAUTH | ABCDEFGH | ZONE | LATR | LDSRT | COTIDX |
| 1 | 1 | 150 | 104 | 1 | ******** | 1 | EMPTY | NONE | 0 |
| | DNNO = 103 |
| | GW1 = 30 | GW2 = | GW3 = |
| | GW4 = | GW5 = |

AMO-LDAT =111  LCR-DIRECTIONS
DISPLAY COMPLETED;

**In-Band DTMF signaling:**

In order to enable In-band DTMF signaling on digital stations for Voicemail applications, the station configuration has to be changed so that the parameter `DTMFCTRD=Y`.

**MOH configuration:**

Make sure the values of MOH and Hold is 22.

<DISPLAY=ZAND:TYPE=TONES;
DISPLAY=ZAND:TYPE=TONES;
H500: AMO ZAND STARTED
CP-TONETABLE
----------
CP | SIU
----------
INTDTN | 1
EXTDTN | 1
SPEC | 3
RNGBK | 8
FRNBK | 8
BUSY | 5
OVRTN | 10
CAMP | 13
DATA | 4
HOLDLINE | 0
NOTPREACH | 9
NOPO | 9
NOTALWD | 14
IMPOSSFM | 9
MOH | 22
NACK | 9
PACK | 1
VOICEMAL | 0
MWI | 3
CONG | 5
NU | 9
OFFHKTRQ | 7
RTCHKNTF | 1
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<td>1</td>
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<tr>
<td>CAMPRBK</td>
<td>13</td>
</tr>
<tr>
<td>BRKMSGWT</td>
<td>0</td>
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<tr>
<td>CONFTPW</td>
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<td>BONHK</td>
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<td><strong>HOLD</strong></td>
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<td>CBKALERT</td>
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<td>OVR</td>
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<td>5</td>
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<tr>
<td>FCAMP</td>
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<td>DISCTONE</td>
<td>9</td>
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<td>CMALTONE</td>
<td>1</td>
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<td>HOLDEXT</td>
<td>0</td>
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<td>HUNTGRUP</td>
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<td>CONFDISC</td>
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</tbody>
</table>

AMO-ZAND -111  SYSTEM DATA
DISPLAY COMPLETED;
SIP trunk configuration

dis-gkreg;
DIS-GKREG;
H500: AMO GKREG STARTED

<table>
<thead>
<tr>
<th>GWNO</th>
<th>GWATTR</th>
<th>INTGW</th>
<th>REGGW</th>
<th>HG3550V2 SIP</th>
<th>GATEWAY REGISTERED: YES</th>
<th>IP GATEWAY IS CONFIGURED BY GKREG</th>
<th>INFO: 1-SIP</th>
<th>SECLEVEL: TRADITIO</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>GWIPADDR 172.20.188.13</td>
<td>GWDIRNO 199901</td>
<td>DIPNUM 0</td>
<td>DPLN 0</td>
<td>GATEWAY REGISTERED: YES</td>
<td>IP GATEWAY IS CONFIGURED BY GKREG</td>
<td>INFO: 1-SIP</td>
<td>SECLEVEL: TRADITIO</td>
</tr>
<tr>
<td>2</td>
<td>GWIPADDR 172.20.188.14</td>
<td>GWDIRNO 199902</td>
<td>DIPNUM 0</td>
<td>DPLN 0</td>
<td>GATEWAY REGISTERED: YES</td>
<td>IP GATEWAY IS CONFIGURED BY GKREG</td>
<td>INFO: 2-SIP</td>
<td>SECLEVEL: TRADITIO</td>
</tr>
<tr>
<td>3</td>
<td>GWIPADDR 172.20.109.254</td>
<td>GWDIRNO 5060</td>
<td>DIPNUM 0</td>
<td>DPLN 0</td>
<td>GATEWAY REGISTERED: NO</td>
<td>IP GATEWAY IS CONFIGURED BY GKREG</td>
<td>INFO:</td>
<td>SECLEVEL: TRADITIO</td>
</tr>
</tbody>
</table>

AMO-GKREG=111 GATEKEEPER REGISTRY
DISPLAY COMPLETED;
Default Router

Default Routing via: LAN
IP Address of Default Router: 172.20.199.1
### HG 3500 V5

**SIP Register TCP/UDP Port Number:** 5060  
**Alternative SIP Register IP Address:** 0.0.0.0  
**Alternative SIP Register TLS Port Number:** 5961  
**Alternative SIP Register TCP/UDP Port Number:** 5960  
**Period of registration (sec):** 120

**SIP Server (Registrar / Redirect):**  
- SIP Server IP Address: 172.20.198.13  
- SIP Server TCP/UDP Port Number: 5960  
- SIP Server TLS Port Number: 5961  
- Period of registration (sec): 120

**RFC 3261 Timer Values**:  
- Transaction Timeout (msec): 32000

**SIP Transport Protocol**:  
- SIP via TCP: Yes  
- SIP via UDP: Yes  
- SIP via TLS: Yes

**SIP Session Timer**:  
- RFC 4026 support: Yes  
- Session Expire (sec): 1800  
- Minimal SE (sec): 30

**DNS-SRV Records**:  
- Blocking time for unreachable destination (sec): 60

**Outgoing Call Supervision**:  
- MakeCallReq Timeout (sec): 3

---

**SSL on** | **HP4K-DEVEL** | **hg3500** | **09/19/2011 17:20:23**
---|---|---|---
1-1-1 | HG 3500 V5 | 54:46:23m
---

## Codec Parameters

<table>
<thead>
<tr>
<th>Codec</th>
<th>Priority</th>
<th>Voice Activity Detection</th>
<th>Frame Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>G.711 A-law</td>
<td>Priority 2</td>
<td>Off</td>
<td>30 msec</td>
</tr>
<tr>
<td>G.711 p-law</td>
<td>Priority 1</td>
<td>Off</td>
<td>30 msec</td>
</tr>
<tr>
<td>G.723</td>
<td>not used</td>
<td>Off</td>
<td>30 msec</td>
</tr>
<tr>
<td>G.729</td>
<td>not used</td>
<td>Off</td>
<td>20 msec</td>
</tr>
<tr>
<td>G.729A</td>
<td>not used</td>
<td>On</td>
<td>20 msec</td>
</tr>
<tr>
<td>G.729B</td>
<td>not used</td>
<td>On</td>
<td>60 msec</td>
</tr>
<tr>
<td>G.729AB</td>
<td>Priority 7</td>
<td>On</td>
<td>20 msec</td>
</tr>
</tbody>
</table>

**T.38 Fax**

<table>
<thead>
<tr>
<th>Use Fill/Removal</th>
<th>Max. UDP Datagram Size for T.38 Fax (bytes)</th>
<th>Error Correction Used for T.38 Fax (UDP)</th>
<th>Redundancy</th>
</tr>
</thead>
<tbody>
<tr>
<td>On</td>
<td>1472</td>
<td>138 UDP/Redundancy</td>
<td></td>
</tr>
</tbody>
</table>

**RFC2033**

<table>
<thead>
<tr>
<th>Transmission of Fac/Modem Tones according to RFC2033</th>
<th>On</th>
</tr>
</thead>
<tbody>
<tr>
<td>Transmission of DTMF Tones according to RFC2033</td>
<td>On</td>
</tr>
<tr>
<td>Payload Type for RFC2033</td>
<td>98</td>
</tr>
<tr>
<td>Redundant Transmission of RFC2033 Tones according to</td>
<td>On</td>
</tr>
<tr>
<td>RFC2199</td>
<td></td>
</tr>
</tbody>
</table>

---

**Notes:**

---
Display Name of the station:

```
DISPLAY-PERSI:TYPE=NAME,STNO=5032;
DISPLAY-PERSI:TYPE=NAME,STNO=5032;
H500: AMO PERSI STARTED
```

<table>
<thead>
<tr>
<th>STNO</th>
<th>CHRISTIAN AND SURNAME</th>
<th>ORGANIZATIONAL UNIT</th>
</tr>
</thead>
<tbody>
<tr>
<td>5032</td>
<td>HIPATH IP 3*</td>
<td></td>
</tr>
</tbody>
</table>

```
AMO-PERSI-111 PERSONAL IDENTIFICATION DATA
DISPLAY COMPLETED;
```

To change name “Change-Persi” should be used.

Name and Number Restrictions:

```
DISPLAY-SBCSU:STNO=5032;
DISPLAY-SBCSU:STNO=5032;
H500: AMO SBCSU STARTED
```

```
------------------------ USER DATA ------------------------
STNO =5032 OPT =FPP COS1 =5 DPLN =0
MAINO =5032 CONN =SIP COS2 =5 ITR =0
PEN =1 1 3 LCOSV1 =15 COSX =0
INS =Y ASYNCT = LCOSV2 =15
SSTNO =Y PERMAct =N LCOSD1 =15 CBKBMX =5
TRACE =N EXTBUS = LCOSD2 =15 RCRKB =N
ALARMNO =0 DFSVCAMA= SPDI =30 RCBKNA =N
HMUSIC =1 FLASH = SPDC1 = CBKNMB =
PROIDX =1 SPDC2 =
DVCFG =S0PP LWPAR = PROT =SBDSS1 OPTIDX =10
SMSGSB =N IPCODEC =G711P USERID ="
FIXEDIP =N AUTHREQ =N PASSWD =
IPADDR =0.0.0.0 SECZONE ="
DTMFCTRD=Y
```

```
------------------------ ACTIVATION IDENTIFIERS FOR FEATURES ------------------------
HTOS :N DND :N
HTOD :N VCP :N TMLOGIN :
HTOF :N CWT :N
```

```
------------------------ FEATURES AND GROUP MEMBERSHIPS ------------------------
PUGR : ESSTN :
KEYSYS : NCPTNO :
SRCGRP : 1 TCLASS : 0
HUNT CD :N
```

```
------------------------ SUBSCRIBER ATTRIBUTES (AMO SDAT) ------------------------
KN VC DMCALLWD MBCHL
```

```
AMO-SBCSU-111 STATION AND S0-BUS CONFIGURATION OF SWITCHING UNIT
DISPLAY COMPLETED;
```
Siemens HiPath 4000 Software Release

DISPLAY-DBC:VERBOSE=N;
DISPLAY-DBC:VERBOSE=N;
H500: AMO DBC STARTED

+------------------------------------------------------------------------------+
| SYSTEM CLASSIFICATION   : SYSTEM 600          (H600  )                      |
| HARDWARE ASSEMBLY       : COMPACT PCI         (CPCI   )                     |
| OPERATING MODE          : SIMPLEX                     |
| RESTART TYPE            : SYM                                                |
| HW-ARCHITECTURE         : 4000
| HW-ARCHITECTURE TYPE    : 3
|
| 'NO OF' HW VALUES
| LTG'S     :    1  LTU'S          : 15  LOG.LINES : 32000  MTS BD /GSN:  1 |
| SIUP'S/LTU:    4  TM24'S PER LTU:  4  PHYS.PORTS: 16000  Hwy /MTS BD: 128 |
| HDLC /DCL :  16  PBC /DCL :  6  PBC'S     :    17
| LOG. SIU LINES :  81 |
| LOG. CONF LINES :  90 |
| LOG. DCL LINES :  91 |
| DB DIMENSIONING-NAME    : LARGE  CONF-TABLE VERSION: 26 |
| DB SUSY'S:
| SWITCH NUMBER : L31910Z0291U00001 |
| LOCATION          : CUSTOMER |
| BAPPL             : BSMONO |
| DBAPPL            : DBLARGE |
| SYSTEM_ID         : |
|
| OVERLAY RESOURCES IN ADP: |
| SLOTS       : 1000   MEMORY SPACE : 2000 KB |
| OVERLAY RESOURCES IN SWU: |
| SLOTS       : 1000   MEMORY SPACE : 2000 KB |
| OVERLAY RESOURCES BEI MONO PROCESSING: |
| SLOTS       :  400   MEMORY SPACE : 3000 KB |
+------------------------------------------------------------------------------+

AMO-DBC -111 DATABASE CONFIGURATION
DISPLAY COMPLETED;
Configuring the Cisco Unified Communications Manager

Cisco UCM Version

System:  CallRouting  Media Resources  Advanced Features  Device  Application  User Management  Bulk Administration  Help  

Cisco Unified CM Administration

System version: 8.5.1.10000-26

Last Successful Logon:  Jan 14, 2011  4:03:43 PM

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A summary of U.S. laws governing Cisco cryptographic products may be found at our Export Compliance Product Report web site.

For information about Cisco Unified Communications Manager please visit our Unified Communications System Documentation web site.

For Cisco Technical Support please visit our Technical Support web site.
Configuring 7960 SCCP Phone (Page 1 of 4)

Navigation Path: Cisco UCM Administration → Device → Phone

<table>
<thead>
<tr>
<th>Status</th>
<th>Ready</th>
</tr>
</thead>
</table>

### Association Information

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Add new SD</td>
</tr>
<tr>
<td>2</td>
<td>Add new SD</td>
</tr>
<tr>
<td>3</td>
<td>Add new SD</td>
</tr>
<tr>
<td>4</td>
<td>Add new SD</td>
</tr>
<tr>
<td>5</td>
<td>Add new SD</td>
</tr>
<tr>
<td>6</td>
<td>Add new SD</td>
</tr>
<tr>
<td>7</td>
<td>Unassigned Associated Items</td>
</tr>
<tr>
<td>8</td>
<td>Add new SD</td>
</tr>
<tr>
<td>9</td>
<td>Add new SD</td>
</tr>
<tr>
<td>10</td>
<td>Add new SD</td>
</tr>
<tr>
<td>11</td>
<td>Privacy</td>
</tr>
<tr>
<td>12</td>
<td>None</td>
</tr>
</tbody>
</table>

### Phone Type

- **Product Type:** Cisco 7960
- **Device Protocol:** SCCP

### Device Information

<table>
<thead>
<tr>
<th>Description</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Device Pool</td>
<td>Default</td>
</tr>
<tr>
<td>Common Device Configuration</td>
<td>None</td>
</tr>
<tr>
<td>Phone Button Templates</td>
<td>Standard 7960 SCCP</td>
</tr>
<tr>
<td>Softkey Template</td>
<td>Mobility User</td>
</tr>
<tr>
<td>Common Phone Profile</td>
<td>Standard Common Phone Profile</td>
</tr>
<tr>
<td>Calling Search Space</td>
<td>None</td>
</tr>
<tr>
<td>AAM Calling Search Space</td>
<td>None</td>
</tr>
<tr>
<td>Media Resource Group List</td>
<td>None</td>
</tr>
<tr>
<td>User Held M/M Audio Source</td>
<td>1-SampleAudioSource</td>
</tr>
<tr>
<td>Network Held M/M Audio Source</td>
<td>1-SampleAudioSource</td>
</tr>
<tr>
<td>Location</td>
<td>UCA, None</td>
</tr>
<tr>
<td>AAM Group</td>
<td>None</td>
</tr>
<tr>
<td>User Locale</td>
<td>English United States</td>
</tr>
<tr>
<td>Network Locales</td>
<td>United States</td>
</tr>
<tr>
<td>Built In Bridge</td>
<td>Default</td>
</tr>
<tr>
<td>Privacy</td>
<td>Default</td>
</tr>
<tr>
<td>Device Mobility Mode</td>
<td>Default</td>
</tr>
<tr>
<td>Owner User ID</td>
<td>None</td>
</tr>
<tr>
<td>Phone Load Name</td>
<td>None</td>
</tr>
<tr>
<td>Join Across Lines</td>
<td>Default</td>
</tr>
<tr>
<td>Line Trusted Relay Point</td>
<td>Default</td>
</tr>
<tr>
<td>BU Audible Alert Setting (Phone Idle)</td>
<td>Default</td>
</tr>
<tr>
<td>BU Audible Alert Setting (Phone Busy)</td>
<td>Default</td>
</tr>
<tr>
<td>Always Use Prime Line</td>
<td>Default</td>
</tr>
<tr>
<td>Always Use Prime Line for Voice Message</td>
<td>Default</td>
</tr>
<tr>
<td>Calling Party Transformation CSS</td>
<td>None</td>
</tr>
<tr>
<td>Geolocation</td>
<td>None</td>
</tr>
</tbody>
</table>

- **Registration:** Registered with Cisco Unified Communications Manager CM-Telugu
- **IP Address:** 192.0.2.161.44
- **Active Load ID:** Unknown
- **Device is Active:** Yes
- **Device is trusted:** Yes
- **MAC Address:** 00:14:FC:18:89:99

### Additional Settings

- Use Device Dialing Plan Transformation CSS
- Retry Video Call as Audio
- Ignore Presentation Indicators (internal calls only)
- Allow Control of Device from CTI
- Logged Into Hunt Group
- Remote Device
- Hot line Device
Configuring 7960 SCCP Phone (Page 2 of 4)

Navigation Path: Cisco UCM Administration → Device → Phone

<table>
<thead>
<tr>
<th>Protocol Specific Information</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Packet Capture Mode*</td>
<td>None</td>
</tr>
<tr>
<td>Presence Group*</td>
<td>Standard Presence Group</td>
</tr>
<tr>
<td>Device Security Profile*</td>
<td>Cisco 7960 - Standard SCCP Non-Secure Profile</td>
</tr>
<tr>
<td>SUBSCRIBE Ceiling Search Spec</td>
<td>1.0.0.0.0-1.0.0.0-0</td>
</tr>
<tr>
<td>Unexpected Port</td>
<td>Enabled</td>
</tr>
<tr>
<td>Require DHCP Reception</td>
<td>Disabled</td>
</tr>
</tbody>
</table>

| — Certification Authority Proxy Function (CAPF) Information |
| Certificate Operation*      | No Pending Operation |
| Authentication Mode*        | By Null String |
| Authentication String       |  |
| Key Size (Bits)             | 1024 |
| Operation Completes By      | 2011-01-21 12:00:00 |
| Certificate Operation Status| None |
| Note: Security Profile Contains Additional CAPF Settings |

| Expansion Module Information |
|-----------------------------|--|
| Module 1 Load Name          | < None > |
| Module 2 Load Name          | < None > |

<table>
<thead>
<tr>
<th>External Data Locations Information (Leave blank to use default)</th>
</tr>
</thead>
<tbody>
<tr>
<td>-------------</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Extension Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Enable Extension Mobility</td>
</tr>
<tr>
<td>Log Out Profile*</td>
</tr>
<tr>
<td>Log Out Time*</td>
</tr>
<tr>
<td>Log Out Time*</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>MLP Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>MLP Domain*</td>
</tr>
<tr>
<td>MLP Indication*</td>
</tr>
<tr>
<td>MLP Preemption*</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Do Not Disturb</th>
</tr>
</thead>
<tbody>
<tr>
<td>Do Not Disturb</td>
</tr>
<tr>
<td>DND Option*</td>
</tr>
<tr>
<td>DND Incoming Call Alert*</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Product Specific Configuration Layout</th>
</tr>
</thead>
<tbody>
<tr>
<td>Disable Speakerphone and Headset*</td>
</tr>
<tr>
<td>PC Port*</td>
</tr>
<tr>
<td>Settings Access*</td>
</tr>
<tr>
<td>Grateful Add*</td>
</tr>
<tr>
<td>PC Value LAN Access*</td>
</tr>
<tr>
<td>Video Capabilities*</td>
</tr>
<tr>
<td>Auto Line Select*</td>
</tr>
<tr>
<td>Web Access*</td>
</tr>
</tbody>
</table>
## Configuring 7960 SCCP Phone (Page 3 of 4)

Navigation Path: Cisco UCM Administration → Device → Phone

### Directory Number Information
- **Directory Number**: 1301
- **Risk Group**: < None >
- **Description**: < None >
- **Alerting Name**: CUOM-03(ALERT)
- **ASCII Alerting Name**: CUOM-03(ALERT)
- **Allow Control of Device from CTI**: [ ]
- **Associated Devices**: [ ]
- **Dissociate Devices**: [ ]

### Directory Number Settings
- **Voice Mail Profile**: [ ]
- **Calling Search Space**: [ ]
- **Presence Group**: [ ]
- **User Hold MOC Audio Source**: [ ]
- **Network Hold MOC Audio Source**: [ ]
- **Auto Answer**: [ ]

### AAR Settings

### Call Forward and Call Pickup Settings

<table>
<thead>
<tr>
<th>Call Forward and Call Pickup Settings</th>
<th>Voice Mail</th>
<th>Destination</th>
<th>Calling Search Space</th>
</tr>
</thead>
<tbody>
<tr>
<td>Forward All</td>
<td></td>
<td></td>
<td>Use System Default</td>
</tr>
<tr>
<td>Secondary Calling Search Space for Forward All</td>
<td></td>
<td></td>
<td>Use System Default</td>
</tr>
<tr>
<td>Forward Busy Internal</td>
<td></td>
<td></td>
<td>Use System Default</td>
</tr>
<tr>
<td>Forward Busy External</td>
<td></td>
<td></td>
<td>Use System Default</td>
</tr>
<tr>
<td>Forward No Answer Internal</td>
<td></td>
<td></td>
<td>Use System Default</td>
</tr>
<tr>
<td>Forward No Answer External</td>
<td></td>
<td></td>
<td>Use System Default</td>
</tr>
<tr>
<td>Forward No Coverage Internal</td>
<td></td>
<td></td>
<td>Use System Default</td>
</tr>
<tr>
<td>Forward No Coverage External</td>
<td></td>
<td></td>
<td>Use System Default</td>
</tr>
<tr>
<td>Forward on CTI Failure</td>
<td></td>
<td></td>
<td>Use System Default</td>
</tr>
<tr>
<td>Forward Unregistered Internal</td>
<td></td>
<td></td>
<td>Use System Default</td>
</tr>
<tr>
<td>Forward Unregistered External</td>
<td></td>
<td></td>
<td>Use System Default</td>
</tr>
<tr>
<td>No Answer Ring Duration (seconds)</td>
<td>&lt; None &gt;</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cell Pickup Group</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
## Configuring 7960 SCCP Phone (Page 4 of 4)

**Navigation Path:** Cisco UCM Administration → Device → Phone

---

### Park Monitoring

<table>
<thead>
<tr>
<th>Park Monitoring Forward No Retrieve Destination External</th>
<th>Voice Mail</th>
<th>Destination</th>
<th>Calling Search Space</th>
</tr>
</thead>
<tbody>
<tr>
<td>Park Monitoring Forward No Retrieve Destination Internal</td>
<td>Voice Mail</td>
<td>Destination</td>
<td>Calling Search Space</td>
</tr>
</tbody>
</table>

*Park Monitoring Reservation Timer:* A blank value will use value set in Park Monitoring Reservation Timer service parameter.

---

### HLP Alternate Party Settings

<table>
<thead>
<tr>
<th>Target (Extension)</th>
<th>Voice Mail</th>
<th>Calling Search Space</th>
<th>Calling Search Space</th>
</tr>
</thead>
<tbody>
<tr>
<td>HLP Calling Search Space</td>
<td>&lt; None &gt;</td>
<td>Voice Mail</td>
<td>Calling Search Space</td>
</tr>
</tbody>
</table>

*HLP No Answer Ring Duration (seconds):*

---

### Line Settings for All Devices

<table>
<thead>
<tr>
<th>Hold Reversion Ring Duration (seconds)</th>
<th>Voice Mail</th>
<th>Calling Search Space</th>
<th>Calling Search Space</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hold Reversion Notification Interval (seconds)</td>
<td>Voice Mail</td>
<td>Calling Search Space</td>
<td>Calling Search Space</td>
</tr>
</tbody>
</table>

*Party Entrance Tone:* A blank value will use value set in Park Monitoring Reservation Timer service parameter.

---

### Line 1 on Device SEP09146A3C1BB9

<table>
<thead>
<tr>
<th>Display (Internal Caller ID)</th>
<th>Voice Mail</th>
<th>Calling Search Space</th>
<th>Calling Search Space</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASCII Display (Internal Caller ID)</td>
<td>Voice Mail</td>
<td>Calling Search Space</td>
<td>Calling Search Space</td>
</tr>
<tr>
<td>Line Text Label</td>
<td>Voice Mail</td>
<td>Calling Search Space</td>
<td>Calling Search Space</td>
</tr>
<tr>
<td>ASCII Line Text Label</td>
<td>Voice Mail</td>
<td>Calling Search Space</td>
<td>Calling Search Space</td>
</tr>
<tr>
<td>External Phone Number Mask</td>
<td>Voice Mail</td>
<td>Calling Search Space</td>
<td>Calling Search Space</td>
</tr>
<tr>
<td>Visual Message Waiting Indicator Policy</td>
<td>Voice Mail</td>
<td>Calling Search Space</td>
<td>Calling Search Space</td>
</tr>
<tr>
<td>Ring Setting (Phone Idle)</td>
<td>Voice Mail</td>
<td>Calling Search Space</td>
<td>Calling Search Space</td>
</tr>
<tr>
<td>Ring Setting (Phone Active)</td>
<td>Voice Mail</td>
<td>Calling Search Space</td>
<td>Calling Search Space</td>
</tr>
<tr>
<td>Call Pickup Group Audio Alert Setting (Phone Idle)</td>
<td>Voice Mail</td>
<td>Calling Search Space</td>
<td>Calling Search Space</td>
</tr>
<tr>
<td>Call Pickup Group Audio Alert Setting (Phone Active)</td>
<td>Voice Mail</td>
<td>Calling Search Space</td>
<td>Calling Search Space</td>
</tr>
</tbody>
</table>

**Monitoring Calling Search Space:** A blank value will use value set in Park Monitoring Reservation Timer service parameter.

---

### Multiple Call/Call Waiting Settings on Device SEP09146A3C1BB9

*Note:* The range to select the Max Number of Calls is 1-200. Maximum Number of Calls:

<table>
<thead>
<tr>
<th>Busi Trigger</th>
<th>Voice Mail</th>
<th>Calling Search Space</th>
<th>Calling Search Space</th>
</tr>
</thead>
</table>

| (Less than or equal to Max Calls) | Voice Mail | Calling Search Space | Calling Search Space |

---

### Forwarded Call Information Display on Device SEP09146A3C1BB9

- Caller Name
- Caller Number
- Redirected Number
- Dialed Number

---

### Users Associated with Line

*Associate End Users*
## Configuring RT9971 SIP Phone (Page 1 of 5)

Navigation Path: Cisco UCM Administration → Device → Phone

### Phone Configuration

**Status**
- Status: Ready

**Association Information**

<table>
<thead>
<tr>
<th>Line</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Line 711-4302 (no partition)</td>
</tr>
<tr>
<td>2</td>
<td>Line 711-140 (no partition)</td>
</tr>
<tr>
<td>3</td>
<td>Mobility</td>
</tr>
<tr>
<td>4</td>
<td>LM Add new SD</td>
</tr>
<tr>
<td>5</td>
<td>LM Add new SD</td>
</tr>
<tr>
<td>6</td>
<td>LM Add new SD</td>
</tr>
</tbody>
</table>

**Product Type:** Cisco 9971

**Device Protocol:** SIP

**Device Information**
- Registration:
  - IP Address: 10.199.21.110
  - Active User ID: 99971-9-1-10R1
  - Effective User ID: 99971-9-1-0-12
  - SIP Proxy: 10.199.21.110

**Device Status:**
- Online
- Active
- Registered
- Unmonitored

**Device Name:** RT9971-SIP Phone

**Device Interface:**
- Serial 0/0/0

**Device Features:**
- Call Handling
- Call Forwarding
- Call Queueing
- Call Transfer
- Call Park
- Call Hold
- Call Waiting
- Call Progress
- Call Progress
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Configuring RT9971 SIP Phone (Page 2 of 5)

Navigation Path: Cisco UCM Administration ➔ Device ➔ Phone

- **SUBSCRIBE Calling Search Space**: None
- **SIP Profile**: Standard SIP Profile
- **Digest User**: None
- **Media Terminating Point Required**: None
- **Unattended Port**: None
- **Requires DTMF Reception**: None

**Certification Authority Proxy Function (CAPF) Information**
- **Certificate Operation**: No Pending Operation
- **Authentication Mode**: By Null String
- **Authentication String**: None
- **Key Size (Bytes)**: 2048
- **Operation Completes By**: 01/11/2199 00:00
- **Certificate Operation Status**: None
- **Note**: Security Profile Contains Additional CAPF Settings.

**Expansion Module Information**
- **Module 1**: None
- **Module 2**: None
- **Module 3**: None
- **Module 4**: None

**External Data Locations Information**
- **Information**: None
- **Directory**: None
- **Messages**: None
- **Services**: None
- **Authentication Server**: None
- **Proxy Server**: None
- **Idle**: None
- **Idle Timer (seconds)**: None
- **Secure Authentication URL**: None
- **Secure Directory URL**: None
- **Secure Idle URL**: None
- **Secure Information URL**: None
- **Secure Messages URL**: None
- **Secure Services URL**: None

**Extension Information**
- **Enable Extension Mobility**: None
- **Log In Time**: None
- **Log out Time**: None

**MLPP Information**
- **MLPP Domain**: None

**Do Not Disturb**
- **Do Not Disturb**: None
- **DND Option**: Use Common Phone Profile Setting
- **DND Incoming Call Alert**: None

**Security Shell Information**
- **Security Shell User**: None
- **Security Shell Password**: None
### Product Specific Configuration Layout

<table>
<thead>
<tr>
<th>Param</th>
<th>Override Common Settings</th>
</tr>
</thead>
<tbody>
<tr>
<td>Disable Speakerphone</td>
<td></td>
</tr>
<tr>
<td>Disable Speakerphone and Headset</td>
<td></td>
</tr>
<tr>
<td>Back USB Port</td>
<td>Disabled</td>
</tr>
<tr>
<td>Side USB Port</td>
<td>Disabled</td>
</tr>
<tr>
<td>Cisco Camera</td>
<td>Disabled</td>
</tr>
<tr>
<td>Video Capabilities</td>
<td>Disabled</td>
</tr>
<tr>
<td>Enable/Disable USB Classes</td>
<td></td>
</tr>
<tr>
<td>SDIO *</td>
<td>Disabled</td>
</tr>
<tr>
<td>Bluetooth *</td>
<td>Disabled</td>
</tr>
<tr>
<td>Wi-Fi *</td>
<td>Disabled</td>
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<tr>
<td>Bluetooth Profiles *</td>
<td>Disabled</td>
</tr>
<tr>
<td>Settings Access *</td>
<td>Disabled</td>
</tr>
<tr>
<td>Gratuitous ARP *</td>
<td>Disabled</td>
</tr>
<tr>
<td>PC Voice VLAN Access *</td>
<td>Disabled</td>
</tr>
<tr>
<td>Wall Access *</td>
<td>Disabled</td>
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<tr>
<td>Days Display Not Active</td>
<td></td>
</tr>
<tr>
<td>Display On Time</td>
<td></td>
</tr>
<tr>
<td>Display On Duration</td>
<td></td>
</tr>
<tr>
<td>Display Idle Timeout</td>
<td></td>
</tr>
<tr>
<td>HTTPS Server *</td>
<td>Disabled</td>
</tr>
<tr>
<td>Span to PC Port *</td>
<td>Disabled</td>
</tr>
<tr>
<td>Logging Display *</td>
<td>Disabled</td>
</tr>
<tr>
<td>Load Server</td>
<td></td>
</tr>
<tr>
<td>Recording Tone *</td>
<td>Disabled</td>
</tr>
<tr>
<td>Recording Tone Local Volume *</td>
<td></td>
</tr>
<tr>
<td>Recording Tone Remote Volume *</td>
<td>110</td>
</tr>
<tr>
<td>Recording Tone Duration</td>
<td>50</td>
</tr>
<tr>
<td>Display On When Incoming Call *</td>
<td>Enabled</td>
</tr>
<tr>
<td>RTCP *</td>
<td></td>
</tr>
<tr>
<td>Log Server</td>
<td></td>
</tr>
<tr>
<td>Advertisement G.722 Codec *</td>
<td></td>
</tr>
<tr>
<td>V-Svia Media Control *</td>
<td></td>
</tr>
<tr>
<td>V-Svia Header *</td>
<td></td>
</tr>
<tr>
<td>Peer Firmware Sharing *</td>
<td></td>
</tr>
<tr>
<td>Cisco Discovery Protocol (CDP): Switch Port *</td>
<td></td>
</tr>
<tr>
<td>Cisco Discovery Protocol (CDP): PC Port *</td>
<td></td>
</tr>
<tr>
<td>Link Layer Discovery Protocol - Media Endpoint Discover (LLDP-MED): Switch Port</td>
<td></td>
</tr>
<tr>
<td>Link Layer Discovery Protocol (LLDP): PC Port *</td>
<td></td>
</tr>
<tr>
<td>LLDP Agent ID</td>
<td></td>
</tr>
<tr>
<td>LLDP Power Priority *</td>
<td></td>
</tr>
<tr>
<td>802.1x Authentication *</td>
<td></td>
</tr>
<tr>
<td>Detect Unidirectional Connection Failure *</td>
<td></td>
</tr>
<tr>
<td>Switch Port Remote Configuration *</td>
<td></td>
</tr>
<tr>
<td>PC Port Remote Configuration *</td>
<td></td>
</tr>
<tr>
<td>Automatic Port Synchronization *</td>
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</tr>
<tr>
<td>Power Negotiation *</td>
<td></td>
</tr>
<tr>
<td>Restrict Data Rates *</td>
<td></td>
</tr>
</tbody>
</table>

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Page 33 of 50
Configuring RT9971 SIP Phone (Page 4 of 5)

Navigation Path: Cisco UCM Administration → Device → Phone

### Directory Number Information

- **Directory Number**: 4202
- **Route Partition**: < Name >
- **Description**: CUCM-0[GLERT]
- **Alerting Name**: [CUCM-0][GLERT]
- **ASCII Alerting Name**: [CUCM-0][GLERT]
- **Allow Control of Device from CTI**: 
- **Assiciated Devices**: SEP114170037037FD

### Directory Number Settings

- **Voice Mail Profile**: < Name >
- **Calling Search Space**: < Name >
- **Presence Group**: Standard Presence Group
- **User Hold MOC Audio Source**: 1-SampleAudioSource
- **Network Hold MOC Audio Source**: 1-SampleAudioSource
- **Auto Answer**: Off

### AAR Settings

- **AAR**: Off
- **AAR Destination Mask**: < Name >
- **AAR Group**: < Name >

### Call Forward and Call Pickup Settings

<table>
<thead>
<tr>
<th>Voice Mail</th>
<th>Call Forward Targets</th>
<th>Call Pickup Group</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Call Forward Targets</strong></td>
<td><strong>Destination</strong></td>
<td><strong>Calling Search Space</strong></td>
</tr>
<tr>
<td>Forward All</td>
<td></td>
<td>Use System Default</td>
</tr>
<tr>
<td>Forward Busy Internal</td>
<td></td>
<td>&lt; Name &gt;</td>
</tr>
<tr>
<td>Forward Busy External</td>
<td></td>
<td>&lt; Name &gt;</td>
</tr>
<tr>
<td>Forward No Answer Internal</td>
<td></td>
<td>&lt; Name &gt;</td>
</tr>
<tr>
<td>Forward No Answer External</td>
<td></td>
<td>&lt; Name &gt;</td>
</tr>
<tr>
<td>Forward No Coverage Internal</td>
<td></td>
<td>&lt; Name &gt;</td>
</tr>
<tr>
<td>Forward No Coverage External</td>
<td></td>
<td>&lt; Name &gt;</td>
</tr>
<tr>
<td>Forward on CTI Failure</td>
<td></td>
<td>&lt; Name &gt;</td>
</tr>
<tr>
<td>Forward Unregistered Internal</td>
<td></td>
<td>&lt; Name &gt;</td>
</tr>
<tr>
<td>Forward Unregistered External</td>
<td></td>
<td>&lt; Name &gt;</td>
</tr>
<tr>
<td>No Answer Ring Duration (seconds)</td>
<td></td>
<td>&lt; Name &gt;</td>
</tr>
<tr>
<td>Call Pickup Group</td>
<td></td>
<td>&lt; Name &gt;</td>
</tr>
</tbody>
</table>
Configuring RT9971 SIP Phone (Page 5 of 5)

Navigation Path: Cisco UCM Administration → Device → Phone

**Park Monitoring**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Voice Mail</th>
<th>Destination</th>
<th>Calling Search Space</th>
</tr>
</thead>
<tbody>
<tr>
<td>Park Monitoring Forward No Retrieve</td>
<td></td>
<td></td>
<td>&lt;None&gt;</td>
</tr>
<tr>
<td>Park Monitoring Forward No Retrieve</td>
<td></td>
<td></td>
<td>&lt;None&gt;</td>
</tr>
<tr>
<td>Park Monitoring Reversion Timer</td>
<td></td>
<td></td>
<td>A blank value means to call the parker's line.</td>
</tr>
</tbody>
</table>

**HLPP Alternate Party Settings**

<table>
<thead>
<tr>
<th>Setting</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Target (Destination)</td>
<td></td>
</tr>
<tr>
<td>HLPP Calling Search Space</td>
<td>&lt;None&gt;</td>
</tr>
<tr>
<td>HLPP No Answer Ring Duration (seconds)</td>
<td></td>
</tr>
</tbody>
</table>

**Line Settings for All Devices**

<table>
<thead>
<tr>
<th>Setting</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hold Reversion Ring Duration (seconds)</td>
<td>0</td>
</tr>
<tr>
<td>Hold Reversion Notification Interval (seconds)</td>
<td>0</td>
</tr>
<tr>
<td>Party Entrance Tone</td>
<td>Default</td>
</tr>
</tbody>
</table>

**Line 1 on Device SEP1C17D337F3FD**

- **Display (External Caller ID)**: CUCM-02
- **ASCII Display (External Caller ID)**: CUCM-02
- **Line Text Label**: CUCM-02
- **External Phone Number Mask**: CUCM-02
- **Visual Message Waiting Indicator Policy**: Use System Policy
- **Audible Message Waiting Indicator Policy**: Default
- **Ring Setting (Phone Idle)**: Use System Default
- **Ring Setting (Phone Active)**: Use System Default
- **Call Pickup Group Audio Alert Setting (Phone Idle)**: Use System Default
- **Call Pickup Group Audio Alert Setting (Phone Active)**: Use System Default
- **Recording Option**: <None> |
- **Recording Profile**: <None> |
- **Monitoring Calling Search Space**: <None> |

**Multiple Call/Call Waiting Settings on Device SEP1C17D337F3FD**

- **Maximum Number of Calls**: 2-200
- **Busy Trigger**: Less than or equal to Max. Calls

**Forwarded Call Information Display on Device SEP1C17D337F3FD**

- **Caller/Name**
- **Caller/Number**
- **Redirected Number**
- **Dialled Number**

**Users Associated with Line**

- Associate All Users
Configuring Media Resource Group

Navigation Path: Cisco UCM Administration → Media Resources → Media Resource Group

```
<table>
<thead>
<tr>
<th>Media Resource Group Configuration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Status: Ready</td>
</tr>
<tr>
<td>Media Resource Group Status</td>
</tr>
<tr>
<td>Media Resource Group: SoftwareMTP (used by 4 devices)</td>
</tr>
<tr>
<td>Name: SoftwareMTP</td>
</tr>
<tr>
<td>Description:</td>
</tr>
<tr>
<td>Devices for this Group</td>
</tr>
<tr>
<td>Available Media Resources:</td>
</tr>
<tr>
<td>ANI_1 (ANI)</td>
</tr>
<tr>
<td>CPA_1 (CPA)</td>
</tr>
<tr>
<td>MTP_2 (MTP)</td>
</tr>
<tr>
<td>Selected Media Resources:</td>
</tr>
<tr>
<td>ANI_1 (ANI)</td>
</tr>
<tr>
<td>CPA_1 (CPA)</td>
</tr>
<tr>
<td>MTP_2 (MTP)</td>
</tr>
<tr>
<td>Use Multi-cast for MDP Audio (If at least one multi-cast MDP resource is available)</td>
</tr>
</tbody>
</table>
```

Save | Delete | Copy | Add New
```
Configuring Media Resource Group List

Navigation Path: Cisco UCM Administration → Media Resources → Media Resource Group List
Configuring Device Pool

Navigation Path: Cisco UCM Administration → System → Device Pool

---

Device Pool Configuration

Device Pool Information
- Device Pool: Default (25 members)

Device Pool Settings
- Device Pool Name: Default
- Cisco Unified Communications Manager Group: Default
- Calling Search Space for Auto-registration: Default
- Adjacent CBS: None
- Reverted Call Focus Priority: Default
- Local Route Group: None
- Intercompany Media Services Enabled Group: None

Roaming Sensitive Settings
- Default Time Group: Default
- Region: Default
- Media Resource Group List: Default
- Location: None
- Network Locale: None
- SIP Reference: None
- Extension Monitor: None
- Paging Range: Default
- Join Access Lines: Default
- Physical Location: None
- Device Mobility Group: None

Device Mobility Related Information
- Device Mobility Calling Search Space: None
- AAR Calling Search Space: None
- AAR Group: None
- Calling Party Transformation CSS: None
- Called Party Transformation CSS: None

Geolocation Configuration
- Geolocation: None
- Geolocation Filter: None

Call Routing Information

Incoming Calling Party Settings
- If the administrator sets the prefix to Default this indicates call processing will use prefix at the next level setting (DevicePool/Service Parameter). Otherwise, the value configured is used as the prefix unless the field is empty in which case there is no prefix assigned.

<table>
<thead>
<tr>
<th>Number Type</th>
<th>Prefix</th>
<th>Strip Digits</th>
<th>Default Prefix Setting</th>
</tr>
</thead>
<tbody>
<tr>
<td>National Number</td>
<td>Default</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>International Number</td>
<td>Default</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>Unknown Number</td>
<td>Default</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>Subscriber Number</td>
<td>Default</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

Incoming Called Party Settings
- If the administrator sets the prefix to Default this indicates call processing will use prefix at the next level setting (DevicePool/Service Parameter). Otherwise, the value configured is used as the prefix unless the field is empty in which case there is no prefix assigned.

<table>
<thead>
<tr>
<th>Number Type</th>
<th>Prefix</th>
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<tbody>
<tr>
<td>National Number</td>
<td>Default</td>
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<td>None</td>
</tr>
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<td>None</td>
</tr>
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<td>Default</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>Subscriber Number</td>
<td>Default</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

Connected Party Settings
- Connected Party Transformation CSS: None

---
### Configuring Region

**Navigation Path:** Cisco UCM Administration → System → Region

![Cisco Unified CM Administration](image)

**Region Configuration**

<table>
<thead>
<tr>
<th>Region</th>
<th>Max Audio Bit Rate</th>
<th>Max Video Call Bit Rate (includes Audio)</th>
<th>Link Loss Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Default</td>
<td>64 Kbps (G.722, G.721)</td>
<td>384 Kbps</td>
<td>Use System Default</td>
</tr>
</tbody>
</table>

**Region Relationships**

<table>
<thead>
<tr>
<th>Region Relationships</th>
<th>Use System Default</th>
<th>Use System Default</th>
<th>Use System Default</th>
</tr>
</thead>
<tbody>
<tr>
<td>Default</td>
<td>Region_SMB_G711</td>
<td>Region_CME_G729</td>
<td></td>
</tr>
</tbody>
</table>

**Modify Relationship to other Regions**

<table>
<thead>
<tr>
<th>Regions</th>
<th>Max Audio Bit Rate</th>
<th>Max Video Call Bit Rate (includes Audio)</th>
<th>Link Loss Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Default</td>
<td>Keep Current Setting</td>
<td>Keep Current Setting</td>
<td>Keep Current Setting</td>
</tr>
</tbody>
</table>

* indicates required item.
Configuring SIP trunk to Siemens HiPath 4000 Rel 5.0 (Page 1 of 2)

Navigation Path: Cisco UCM Administration → Device → Trunk

![Cisco Unified CM Administration interface]

---

### Device Information
- **Product:** SIP Trunk
- **Device Protocol:** SIP
- **Trunk Service Type:** None (Default)
- **Device Name:** SIEMENS_HIPATH_SIP_TRUNK
- **Description:** SIP trunk to Siemens HiPath 4000 Rel 5.0
- **Device Root:** Default
- **Common Device Configuration:** Use System Default
- **Call Classification:** Hub, None
- **Media Resource Group List:** No Changes
- **Location:** None
- **AAR Group:** None
- **Tunnel Protocol:** None
- **QSIG Version:** None
- **AS41 ROSE OID Encoding:** None
- **Packet Capture Mode:** None
- **Packet Capture Duration:** 0

---

### Intercompany Media Engine (IME)
- **6.164 Transformation Profile:** None

---

### Multilevel Precedence and Preemption (MLPP) Information
- **MLPP Domain:** None

---

### Call Routing Information
- **Remote-Party-ID:** Default
- **Asserted Identity:** Default
- **Asserted-Type:** Default
- **SIP Identity:** Default
Configuring SIP trunk to Siemens HiPath 4000 Rel 5.0 (Page 2 of 2)

Navigation Path: Cisco UCM Administration → Device → Trunk
Configuring SIP Trunk security profile

Navigation Path: Cisco UCM Administration → System → Security → SIP Trunk Security Profile
Configuring SIP Profile for Trunk (Page 2 of 2)

Navigation Path: Cisco UCM Administration → Device → Device Settings → SIP Profile

Note: Call direction: Siemens to Cisco UCM, Early attended transfer back to Siemens. Upon Early attended call transfer by Cisco UCM, call is initially completed without voice path and after 5 seconds call is disconnected. The workaround for this limitation is to configure “SIP Rel1XX options : send PRACK if 1XX contains SDP” in SIP profile on Cisco UCM.
Configuring Service Parameters for MOH

Navigation Path: Cisco UCM Administration → System → Service Parameters

<table>
<thead>
<tr>
<th>Service Parameter Configuration</th>
<th>Related Links</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Clusterwide Parameters (Route Plan)</strong></td>
<td></td>
</tr>
<tr>
<td>Stop Routing on Out of Bandwidth Flag</td>
<td>True</td>
</tr>
<tr>
<td>Stop Routing on Unavailable Number Flag</td>
<td>True</td>
</tr>
<tr>
<td>Stop Routing on User Busy Flag</td>
<td>True</td>
</tr>
<tr>
<td>There are hidden parameters in this group. Click on Advanced button to see hidden parameters.</td>
<td></td>
</tr>
</tbody>
</table>

| **Clusterwide Parameters (Route Class Signaling)** |                |
| Route Class Cx Map Signaling Enabled | True | False |                |
| SIP Route Class Name Is Country | osco.com | osco.com |                |
| There are hidden parameters in this group. Click on Advanced button to see hidden parameters. |                |

| **Clusterwide Parameters (Hunt List)** |                |
| Stop Routing on Out of Bandwidth Flag | False | False |                |
| Line Pickup Group Of Line Group Member ID | False | False |                |

| **Clusterwide Parameters (Service)** |                |
| Default Network Hold MOH Audio Source IP | 1 | 1 |                |
| Default User Hold MOH Audio Source IP | 1 | 1 |                |
| Duplex Streaming Enabled | True | False |                |
| Media Exchange Interface Capability Timer | 8 | 8 |                |
| Send Notified PHN In INVITE DCL Message | True | True |                |
| Media Exchange Timer | 12 | 12 |                |
| Media Exchange Stop Streaming Timer | 8 | 8 |                |
| Open Video Channel Response Time For SIP Inter, Port Reserved Timer After Call Connect | 500 | 500 |                |
| Media Resource Allocation Timer | 12 | 12 |                |
| WFP and Transcoder Resource Throttling Percentage | 95 | 95 |                |
| Interface Capability Timers | 1000 | 1000 |                |
| Silence Suppression | False | False |                |
| Silence Suppression For Gateways | False | False |                |
Configuring Calling Name and Number Restriction

Navigation Path: Cisco UCM Administration → Device → Trunk
Configuring Connected Name and Number Restriction

Navigation Path: Cisco UCM → Device → Trunk

[Image of Trunk Configuration in Cisco Unified CM Administration]

- **Inbound Calls**
  - Significant Digits
  - Connected Line ID Presentation
  - Connected Name Presentation
  - Calling Search Space
  - AAR Calling Search Space
  - Prefix CN
  - Redirecting Diversion/Message Delivery - Inbound

- **Incoming Calling Party Settings**
  - If the administrator sets the prefix to Default, this indicates call processing will use prefix at the next level setting (DevicePool/Service Parameter). Otherwise, the value configured is used as the prefix unless the field is empty in which case there is no prefix assigned.

  - **Clear Prefix Settings**
  - **Default Prefix Settings**

- **Outbound Calls**
  - Called Party Transformation CSS
  - Use Device Pool Called Party Transformation CSS
  - Calling Party Transformation CSS
  - Use Device Pool Calling Party Transformation CSS
  - Calling Party Selection
  - Calling Line ID Presentation
  - Calling Name Presentation
  - Caller ID PW
### Acronyms

<table>
<thead>
<tr>
<th>Acronym</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>CUCM</td>
<td>Cisco Unified Communications Manager</td>
</tr>
<tr>
<td>CCBS</td>
<td>Call Completion to Busy Subscriber</td>
</tr>
<tr>
<td>CCNR</td>
<td>Call Completion on No Reply</td>
</tr>
<tr>
<td>CFB</td>
<td>Call Forwarding on Busy</td>
</tr>
<tr>
<td>CFNR</td>
<td>Call Forwarding No Reply</td>
</tr>
<tr>
<td>CFU</td>
<td>Call Forwarding Unconditional</td>
</tr>
<tr>
<td>CLIP</td>
<td>Calling Line (Number) Identification Presentation</td>
</tr>
<tr>
<td>CLIR</td>
<td>Calling Line (Number) Identification Restriction</td>
</tr>
<tr>
<td>CNIP</td>
<td>Calling Name Identification Presentation</td>
</tr>
<tr>
<td>CNIR</td>
<td>Calling Name Identification Restriction</td>
</tr>
<tr>
<td>COLP</td>
<td>Connected Line (Number) Identification Presentation</td>
</tr>
<tr>
<td>COLR</td>
<td>Connected Line (Number) Identification Restriction</td>
</tr>
<tr>
<td>CONP</td>
<td>Connected Name Identification Presentation</td>
</tr>
<tr>
<td>CONR</td>
<td>Connected Name Identification Restriction</td>
</tr>
<tr>
<td>CT</td>
<td>Call Transfer</td>
</tr>
<tr>
<td>MWI</td>
<td>Message Waiting Indicator</td>
</tr>
<tr>
<td>PBX</td>
<td>Private Branch Exchange</td>
</tr>
</tbody>
</table>
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