Configurar troncos Q.SIG PRI entre o Call Manager e o Avaya S8700/G650 com integração de correio de voz do Unity

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Introduction

O objetivo deste documento é fornecer aos clientes Cisco e parceiros de negócios as etapas para configurar troncos de PRI Q.SIG entre o Cisco Call Manager e o Avaya S8700/G650. Além disso, este documento detalha as etapas de como adicionar o Cisco Unity na plataforma do Cisco Call Manager para fornecer suporte ao correio de voz para telefones IP Cisco e Avaya. Isto é particularmente importante em situações onde a interoperabilidade IP-PBX e a integração do correio de voz são necessárias. As capturas da tela de configuração da Avaya foram criadas com a ferramenta padrão de Emulação. Como uma alternativa, você também pode usar a ferramenta Avaya Site Administration (ASA) para tarefas de configuração no Avaya S8700/G650. A exibição da saída é o mesmo em ambos os casos. Este documento sobre a interoperabilidade IP-PBX e a integração de correio de voz foi projetada para uso externo.

Prerequisites

Requirements

Não existem requisitos específicos para este documento.

Componentes Utilizados

As informações neste documento são baseadas nestas versões de software e hardware:

- O sistema Avaya IP-PBX usado é o Avaya S8700/G650 executando o Avaya Communication Manager 2.0. O conjunto de recursos Q.SIG vem como padrão com esta versão de software.
- Os telefones IP Avaya usados neste documento são o 4610SW e o 4620 executando o firmware do telefone versão 2.01.
- O Cisco Call Manager 4.1.2(2) foi usado para controlar o gateway 3745 Media Gateway Control Protocol (MGCP) com o módulo NM-HDV, executando o Cisco IOS® versão 12.2.15ZJ3. Os testes também foram repetidos com o Cisco IOS® versão 12.3.8.T5.
- O Cisco Unity executando a versão 4.0(4) SR1 foi usado para o teste de integração de correio de voz.

The information in this document was created from the devices in a specific lab environment. All of the devices used in this document started with a cleared (default) configuration. If your network is live, make sure that you understand the potential impact of any command.

Conventions

Consulte as <u>Convenções de Dicas Técnicas da Cisco para obter mais informações sobre</u> <u>convenções de documentos.</u>

Configuração do teste

O sistema Avaya IP-PBX usado foi o Avaya S8700/G650 executando o Avaya Communication Manager 2.0. O conjunto de recursos Q.SIG vem como padrão com esta versão de software. Os telefones AvayaIP usados foram o 4610SW e o 4620 executando a versão 2.01 do firmware do telefone. No lado da Cisco, o Cisco Call Manager 4.1.2 foi usado para controlar o gateway MGCP 3745 com o módulo NM-HDV, executando o Cisco IOS® versão 12.2.15ZJ3. Os testes também foram repetidos com o Cisco IOS® versão 12.3.8.T5. O Cisco Unity executando a versão 4.0(4) SR1 foi usado para o teste de integração de correio de voz.

Testar Topologia



with Cisco Unity Voice Mail integration



Interoperabilidade entre sistemas IP-PBX da Cisco e da Avaya

As próximas seções fornecem procedimentos e capturas de tela para ajudá-lo a configurar o tronco Q.SIG entre um Avaya S8700/G650 executando o Avaya Communication Manager 2.0 e uma plataforma Cisco Call Manager executando o Call Manager versão 4.1(2) com o dispositivo Cisco 3745 MGCP que fornece a conexão ISDN PRI física para o Avaya S877000700 0/G650.

Procedimento no sistema Avaya S8700/G650 IP-PBX

Conclua estes passos:

1. Faça login no servidor S8700. Execute o comando **display system-parameters customer** para garantir que todos os recursos Q.SIG necessários estejam ativados no servidor S8700.

| cancel | refresh | enter | clear | help | go to page | next page | prev page | | | | |
|---------|----------|---------|----------|----------------|------------|----------------------|-----------|-----------|---------------|----|--|
| display | systen- | paranet | ers cust | oner-opt | tions | | | Page | 8 of | 11 | |
| | | | Q | SIG OPTI | IONAL FEA | TURES | | | | | |
| | | | 4 | | Basi | call S | etup? y | | | | |
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| | | | | Ir | terwork | ing with | DCS? y | | | | |
| | | Su | pplement | ary Serv | vices wit | th Rerou | ting? y | | | | |
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2. Configure a placa DS-1 para Q.SIG

| PRI. | | | | | | | | | |
|---------|------------------------------|--------------|---------|----------------------|-----------|----------------------------|------|---|-----------------|
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| display | ds1 01A09 | | | | | Page | 1 of | 2 | 1.12.22.22.22.2 |
| | | | DS1 (| CIRCUIT PACK | | COLUMN TO A DESCRIPTION OF | | | |
| | | | | | | | | | |
| | Location | 1: 01A09 | | | Name: | QSIG | | | |
| | Bit Rate | : 1.544 | | Line | Coding: | b8zs | | | |
| Line | Compensation | 1: 1 | | Franin | g Mode: | esf | | | |
| S | ignaling Mode | e: isdn-pri | | | | | | | |
| | Connect | : pbx | | Int | erface: | peer-maste | r | | |
| TN-C | 7 Long Timers | 5? n | | Peer Pr | otocol: | Q-SIG | | | |
| Interwo | rking Message | e: PROGress | 5 | | Side: | a | | | |
| Interfa | ce Companding | j: mulav | | | CRC? | n | | | |
| | Idle Code | e: 111111111 | | | | | | | |
| | | | DCP/Ana | alog Bearer Capa | bility: | 3.1kHz | | | |
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| | 25.15.25.15.25.15.25.15.25.1 | | | | | | | | |
| | | | | | | | | | |

3. Configure um grupo de troncos. Digite add trunk-group # onde # é o tronco desejado.As próximas três capturas de tela estão relacionadas à configuração do tronco. Quando o grupo de troncos for criado, adicione os 23 canais DS0 ao grupo. Este é um exemplo da atribuição de porta: 01A0901 significa: Gateway# 1, gabinete A, slot# 9, canal DS0 channel# group1.

| Calicer Tellesti erkei clear | help go to page next page | prev page |
|--|--|---|
| display trunk-group 1 | | Page 1 of 22 |
| | TRUNK GROUP | |
| Group Number: 1 | Group Tupe: isdn | CDR Reports: n |
| Group Name: QSIG TRUNKING | COR: 90 | TN: 1 TAC: *01 |
| Direction: two-way | Outgoing Display? y | Carrier Medium: PRI/BRI |
| Dial Access? y | Busy Threshold: 99 | Night Service: |
| Queue Length: 0 | | |
| Service Type: tie | Auth Code? n | TestCall ITC: rest |
| Far | End Test Line No: | |
| TestCall BCC: 4 | | |
| Codeset to Send Dis | plau: Ø Codeset to S | end National IEs: 6 |
| Max Message Size to | Send: 260 | |
| Supplementary Service Prot | ocol: b Digit Handli | ng (in/out): enbloc/enbloc |
| Trunk Hunt: asce | nd | QSIG Value-Added? y |
| | D: | igital Loss Group: 13 |
| Calling Number - Delete: | Insert: | Numbering Format: pub-unk |
| Bit Rate: 1200 | Synchronization | : async Duplex: full |
| Disconnect Supervision - In | ?y Out?y | |
| Answer Supervision Timeout: | 0 | |
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| display trunk-group 1 | | Page 2 of 22 |
| display trunk-group 1 TRUNK FEATURES | | Page 2 of 22 |
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| aispi | ay trunk | (-group | 1 | | | | Page | 6 OF | 22 |
|-------|-----------|---------|------|------|-------------|------------------|---------|------|----|
| | | | | | TRUNK GROUP | | | | |
| | | | | | Administe | red Members (min | n/max): | 1/23 | |
| GROUP | MEMBER | ASSIGN | HENT | S | Total | Administered M | embers: | 23 | |
| | Bent | 0-4- | er., | | 112 - 114 | C1- 0 | | | |
| - a | POPE | Code | 21X | нале | Migne | sig erp | | | |
| 1: | 0140901 | TN464 | G | | | 1.00 | | | |
| 2: | 0100902 | TN464 | G | | | 1 | | | |
| 3: | 0140903 | TN464 | G | | | 1 | | | |
| 4:0 | 01A 09 04 | TN464 | G | | | 1 | | | |
| 5: | 01A 09 05 | TN464 | G | | | 1 | | | |
| 6 : | 0160986 | TN464 | G | | | 1 | | | |
| 7: | 8168987 | TN464 | G | | | 4 | | | |
| 8 : | 8168988 | TN464 | G | | | 4 | | | |
| 0 - | 8168080 | TN464 | C. | | | 4 | | | |
| 18- | 8108018 | TNAAh | č | | | | | | |
| 44.4 | 0100011 | This | | | | | | | |
| 11. | 0140911 | 11404 | 5 | | | | | | |
| 12: | 0180912 | 11404 | G | | | 1 | | | |
| 13: | 0140913 | TN464 | G | | | 1 | | | |
| 14: | 0160914 | TN464 | G | | | 1 | | | |
| 100 | 0100915 | TN464 | G | | | 1 | | | |

4. Adicione o grupo de sinalização e aponte para o grupo de troncos criado anteriormente.

| isplay | sign | ali | ng-g | roup | 1 | | SI | GNALIN | G GR | OUP | | | | | | |
|--------|-------------|-----------|-------------|------|--------------|-------------------|------------|----------------------------|---------------------|------------------|--------------|----------------------------|---------------|----------------|----------------------|----------|
| Group | Nunbe | n: | 1 | Ass | ocia Prim | G Ited Nary | Sig D-C | p Type naling hannel | : is ? y : 01 | dn-pri A 8924 | i Ma M | x num lax num k Grou | ber o mber | F NCA of CA | TSC: TSC: TSC- | 10 10 |
| | Trunk Su | Gr pp1 | oup ener | for | Chan Ser | nel vice | Sel Pr | ection otocol | : 1 : D | | X-Mob Ne | ility, twork | /Wire Call | less Tran | Type: sfer? | NONE |
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 Adicione o padrão de rota e aponte-o para o grupo de sinalização. Neste exemplo, o padrão de rota 4 aponta para o grupo de sinalização# 1 que foi criado na etapa 4.

| car | cel | | r, | efre | sh | | ente | er clear | h | elp | go to page | next page | prev page | • | | | |
|-----|----------|----|-----|------|----|----|------------|----------------------|--------------------|--------------|----------------|----------------------|-------------|--------|------|----------------------|------|
| isp | 1a | y | r | ut | e- | ра | tter | rn 4 | | | | | | | Page | 1 of | 3 |
| | | | | | | | | Pattern N | unber | : 4 | Patter Seci | rn Name: ure SIP? | isdn 1 n | test | | | |
| | Gr No | p | FF | IL: | NF | 'n | Pfx Nrk | Hop Toll Lmt List | No. Del Dgts | Inse Digi | rted ts | | | | | DCS/ QSIG Intw | IXC |
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| | | | | | | | | | | | | | Sul | baddro | ess | | |
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| | y | y | y | y | y | п | n | | rest | | | | | | | | none |
| | y | y | y | y | y | п | n | | rest | | | | | | | | none |
| | y. | y | y | y | y | n | n | | rest | | | | | | | | none |
| | y. | y | y. | y | y | n | n | | rest | | | | | | | | none |
| | U | U | U | U | U | n | n | | rest | | | | | | | | none |

6. Adicione uma entrada na tabela AAR para usar o padrão de rota criado para rotear chamadas. Neste exemplo, as chamadas para o ramal de telefone IP da Cisco 4XXX usam a entrada da tabela AAR começando com 4, que, por sua vez, aponta para o padrão de rota nº 4.

| llay aar analysis 4 | A | AR DI | GIT ANALY | SIS TAB | LE | Page | 1 01 | |
|---------------------|-----|-------|-----------|---------|------|---------|-------|---|
| | | | | | | Percent | Full: | 2 |
| Dialed | Tot | al | Route | Call | Node | ANI | | |
| String | Min | Max | Pattern | Type | Num | Reqd | | |
| 4 | 4 | 4 | 20 | aar | | y | | |
| 4 | 7 | 7 | 999 | aar | | n | | |
| 4001 | 4 | 4 | 4 | aar | | y | | |
| 4008 | 4 | 4 | 4 | aar | | y | | |
| 4015 | 4 | 4 | 4 | aar | | n | | |
| 44 | 4 | 4 | 4 | aar | | U U | | |
| 5 | 4 | 4 | 10 | aar | | n | | |
| 5 | 7 | 7 | 999 | aar | | n | | |
| 5001 | 4 | 4 | 25 | aar | | n | | |
| 5 05 0 | 4 | 4 | 10 | aar | | n | | |
| 555 | 7 | 7 | 4 | aar | | n | | |
| 7 | 7 | 7 | 999 | aar | | n | | |
| 70007950 | 8 | 8 | 45 | aar | | n | | |
| 8 | 7 | 7 | 999 | aar | | n | | |
| 88001 | 5 | 5 | 65 | aar | | n | | |
| | | | | | | | | |
| | | | | | | | | |

7. Verifique se a ID do chamador está habilitada em cada telefone IP para enviar o nome do chamador.

| display station /00/ | Page 2 of 4 |
|--|--|
| | STATION |
| FEATURE OPTIONS | |
| LWC Reception: spe | Auto Select Any Idle Appearance? n |
| LWC Activation? y | Coverage Hsg Retrieval? y |
| LWC Log External Calls? n | Auto Answer: none |
| CDR Privacy? n | Data Restriction? n |
| Redirect Notification? y | Idle Appearance Preference? n |
| Per Button Ring Control? n | |
| Bridged Call Alerting? n | Restrict Last Appearance? y |
| Active Station Ringing: continuous | |
| H.320 Conversion? y Service Link Mode: as-needed | Per Station CPN - Send Calling Mumber? y |
| Multimedia Hode: enhanced | Audible Message Waiting? n |
| MWI Served User Type: qsiq-mwi | Display Client Redirection? n |
| 이 이 이 가지 않는 것이 있는 것이 있는 것이 있는 것이 있는 것이 있는 것이 있는 것이 있다. 같은 것이 있는 것 | Select Last Used Appearance? n |
| | Coverage After Forwarding? s |
| | Hultimedia Early Answer? n |
| | Direct IP-IP Audio Connections? y |
| Emorgancy Location Ext: 7007 | IP Audio Hairpinning? u |

Procedimento para o Cisco Call Manager

Conclua estes passos:

 Em Parâmetros de serviço, certifique-se de que os valores de tempo mínimo e máximo de substituição do caminho inicial estejam definidos adequadamente para evitar problemas (como pinning). As duas próximas capturas de tela relacionam-se às configurações dos parâmetros de serviço
 O SIG:

| Q.010. | | | |
|--|------------------------------------|-------|----------------|
| Clusterwide P | arameters (Feature - Path Replacen | nent) | |
| Parameter Name | Parameter Value | Su | iggested Value |
| Path Replacement Enabled* | True | Fa | Ise |
| Path Replacement on Tromboned Calls* | True | Tr | ue |
| Start Path Replacement Minimum Delay Time (sec)* | 5 | 0 | |
| Start Path Replacement Maximum Delay Time (sec)* | 10 | 0 | |
| Path Replacement T1 Timer (sec) * | 30 | 30 | 1 |
| Path Replacement T2 Timer (sec) * | 15 | 15 | 5 |

| Start Path Replacement Minimum Delay Time (sec)* | 5 | 0 |
|--|----------|----|
| Start Path Replacement Maximum Delay Time (sec)* | 10 | 0 |
| Path Replacement T1 Timer (sec) * | 30 | 30 |
| Path Replacement T2 Timer (sec) * | 15 | 15 |
| Path Replacement PINX Id | 4444 | |
| Path Replacement Calling Search Space | < None > | |

 Adicione Cisco 3745 como um gateway MGCP e configure o módulo NM-HDV T-1 para Q.SIG PRI.As próximas cinco capturas de tela estão relacionadas a esta configuração:

| conliguração: | clear | hein lan | to page pey | t nace nre | w nade | | | | |
|---|--|-----------|----------------|---|---|---|------|---|--|
| display ds1 01A09 | | | UT PACK | w poge pre | , hade | Page | 1 of | 2 | |
| Location: Bit Rate: Line Compensation: Signaling Mode: Connect: TN-C7 Long Timers? Interworking Message: Interface Companding: Idle Code: | 01A09 1.544 1 isdn-pri pbx n PROGress mulaw 11111111 | PP/4nalog | L Fr Pee | Na ine Codi aming Mo Interfa r Protoc Si Canabili | ame: ing: ide: ce: col: ide: cRC? | QSIG b8zs esf peer-mast Q-SIG a n 9 4642 | er | | |
| Slip Detection? Echo Cancellation? | n | 1 | Near-end | CSU Typ |)e: 0 | ther | | | |

| cancel refresh e | nter clear | help go to pag | e next page pr | ev page | |
|---|--|--|--|---|---|
| display trunk-grou | ip 1 | | | Page | 1 of 22 |
| | | TRUNK GROUP | | | |
| Group Number: 1 Group Name: QSIG Direction: two- Dial Access? y Queue Length: 0 Service Type: tie TestCall BCC: 4 TRUNK PARAHETERS Codeset t Max Messag Supplementary Se | TRUNKING way Ou Far Er o Send Displa je Size to Ser rvice Protoco Hunt: ascend | TRUNK GROUP Group Typ CO utgoing Displa Busy Threshol Auth Cod nd Test Line N ay: Ø Code nd: 260 ol: b Digi | e: isdn R: 90 Y? Y d: 99 e? n o: set to Send t Handling QS | CDR Rep TN: 1 Carrier Med Night Servi TestCall National IEs (in/out): ent | orts: n TAC: *01 lium: PRI/BRI ce: ITC: rest : 6 loc/enbloc |
| Colling Number - D | alata: Ir | acout. | Digi | tal Loss Grou | p: 13 |
| Calling Number - D Bit Disconnect Superv Answer Supervisio | elete: In Rate: 1200 vision - In? y on Timeout: 0 | nsert: Synchro y Out?y | Nu nization: a | inbering Forma isync Duple | t: pub-unk x: full |
| | | | | | |
| dicelau truck group | 1 | | | Page | 6 06 22 |
| display trunk-group | 1 | TRUNK GROUP | | Page | 6 of 22 |
| display trunk-group | 1 | TRUNK GROUP Administ | ered Nember | Page s (min/max): | 6 of 22 |
| display trunk-group GROUP MEMBER ASSIGN | 1 Hents | TRUNK GROUP Administ Tota | ered Member l Administe | Page s (min/max): red Hembers: | 6 of 22 1/23 23 |
| display trunk-group GROUP MEMBER ASSIGN Port Code 1: 01A0901 TN464 2: 01A0902 TN464 3: 01A0903 TN464 4: 01A0903 TN464 5: 01A0905 TN464 6: 01A0905 TN464 7: 01A0906 TN464 8: 01A0908 TN464 9: 01A0908 TN464 10: 01A0910 TN464 11: 01A0911 TN464 13: 01A0913 TN464 14: 01A0915 TN464 | HENTS Sfx Name G G G G G G G G G G G G G G G G G G G | TRUNK GROUP Administ Tota Night | ered Member l Administe Sig G 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | Page s (min/max): red Hembers: rp | 6 of 22 1/23 23 |

| 019 | 5p1; | ay | si | gnal | ing- | group 1 | | | | | | | |
|--|--|--|---|--|--|--|---|---|--------------------------------------|--|----------------------------|---|--|
| | | | | | | | S | IGNALING | GROUP | | | | |
| G | rouj | p N | unt | ber: | 1 | Associal Prim | Gro ted Sig ary D- | up Type: gnaling? Channel: | isdn-pr y 01A0924 | i Max Max | number number | OF NCA T of CA T | SC: 10 SC: 10 |
| | | I | rui | nk G Supp | roup leme | For Chani ntary Serv | nel Sel vice Pr | lection: rotocol: | 1 b | X-Mobil Netw | ity/Win ork Cal | reless Ty Il Transf | pe: NONE er? n |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| Cor | mman | nd: | ľ | | | | | | | | | | |
| car | ncel - | | refre | ah I | and the second sec | | | | | | | | |
| - | Parter | _ | rene | -sin | ente | er clear | hel | p gotop | age next pa | ige prev pag | je | | |
| is | play | , r | out | te-p | attei | er clear n 4 | hel | p gotop | age next pa | ige prev pag | pe P | age 1 d | of 3 |
| is | play | , r | out | te-p | attei | rn 4 Pattern N | hel | p gotop | age next pa | ge prev pag ne: isdn | pe P test | age 1 d | of 3 |
| is | play | y r | out | te-p | ente attei Pfx | rn 4 Pattern M Hop Toll | lunber: No. I | b gotop 4 Pat Sinserted | age nextpa tern Nam Secure SI | ge prev pag ne: isdn IP? n | pe P test | age 1 c | 9F 3 |
| lis | olar Gr No | J P D F | out RL | NPA | ente atter Pfx Mrk | rn 4 Pattern M Hop Toll Lmt List | lunber: No. I Del D | 4 Pat sinserted sigits | age next pa tern Nan Secure SI | ge prev pag ne: isdn (P? n | pe P test | age 1 c DCS QS1 | 9F 3 5/ IXC 16 |
| is | plat Gry No |) r | out RL | NPA | Pfx Nrk | rn 4 Pattern N Hop Toll Lmt List | No. I Del D Dgts | 4 Pat Sinserted | age next pa tern Nan Secure SJ | ge prevpag ne:isdn (P?n | _{je} P test | age 1 c DCS QS1 Int | DF 3 G G W |
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| 1: 2: | olar Gry No | р F | out RL G | е-р. NPA 408 | ente atter Pfx Mrk | rn 4 Pattern M Hop Toll Lmt List 4 | lunber: No. I Del D Dgts | 9 9010p 4 Pat S Inserted Digits | age next pa tern Nan Gecure SI | ge prevpag ne:isdn (P?n | pe P test | age 1 c DCS QSI Int n n | of 3 6/ IXC 6 w user user |
| 1: 2: 3: 4: | gri Gri No | р F | out RL Ø | е-р. NPA 408 | Pfx Nrk | rn 4 Pattern M Hop Toll Lmt List 4 | No. I Del D Dgts | p gotop 4 Pat Sinserted Digits | age next pa tern Nan Gecure SI | ge prevpag ne:isdn (P?n | pe P test | age 1 c DCS QSI Int n n n | of 3 7 IXC 6 w user user user user |
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| 1: 2: 3: 4: 5: 6: | Grj No 1 B(| y r p F CC 1 2 | out RL 0 VAL 3 | .UE | Pfx Mrk | rn 4 Pattern N Hop Toll Lmt List 4 CA-TSC Request | No. I Del D Dgts | 4 Pat S Inserted Digits | age next pa | ge prevpag ne: isdn (P? n | No. Dgts | age 1 c DCS QSI Int n n n Numbering Format | of 3 / IXC G user user user user user user user |
| 1: 2: 3: 4: 5: 6: | Gr; No 1 B(0 | у г р F 1 2 | UAL 3 | .UE 4 08 | Pfx Mrk TSC | rn 4 Pattern M Hop Toll Lmt List 4 CA-TSC Request as-needed | ITC E | 4 Pat S Inserted Digits | age next pa | ge prevpag ne: isdn (P? n ture BAND Su | No. Dgts | age 1 c DCS QSI Int n n n Numbering Format SS pub-unk | of 3 / IXC G user user user user user user user user |
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| 1: 2: 3: 4: 5: 6: 1: 2: 3: | plau Gr; No 1 8(9 · 9 · 9 · |) F F 1 2 J J J J J J | out RL 0 VAL 3 y y y | UE 408 UE 4 W y n y n y n | Pfx Nrk TSC y n | rn 4 Pattern M Hop Toll Lmt List 4 CA-TSC Request as-needed | ITC B | p gotop 4 Pat Sinserted Digits | age next pa | ge prevpag ne: isdn (P? n cure BAND Su | No. Dgts Daddre | age 1 c DCS QSI Int n n n Numbering Format ss pub-unk | of 3 7 IXC G w user user user user user user user user user user user user user |
| 1: 2: 3: 4: 5: 6: 1: 2: 3: 4: | pla Gry No 1 8 9 9 9 9 9 9 9 9 9 9 9 9 9 |) F F 1 2 1 9 9 9 | OUI RL 0 3 y y y y y y y y | UE 408 UE 4 W y n y n y n y n | Pfx Nrk TSC y n n | rn 4 Pattern M Hop Toll Lmt List 4 CA-TSC Request as-needed | ITC B | p golop 4 Pat Sinserted Jigits | age next pa | ge prevpag ne: isdn (P? n ture BAND Su | No. Dgts Daddre | age 1 c DCS QSI Int n n n Numbering Format SS pub-unk | of 3 7 IXC G USER US |
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| 1: 2: 3: 4: 5: 6: 1: 2: 3: 4: 5: 6: | pla Gr No 1 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 |) F F 1 2 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 | out RL 0 3 yyy yy yy | UE 408 408 408 408 yn yn yn yn yn yn yn | Pfx Nrk TSC y n n n n n | rn 4 Pattern N Hop Toll Lmt List 4 CA-TSC Request as-needed | ITC B I rest rest rest rest rest | p gotop 4 Pat Sinserted Digits | age next pa | ge prevpag ne: isdn (P? n ture BAND Su | No. Dgts | age 1 c DCS QSI Int n n n Numbering Format SS pub-unk | of 3 / IXC G user user user user user LAR none none none none none |

3. Como etapa final, crie um grupo de captura do Cisco Call Manager para fornecer uma extensão de proposta de caminho para o PBX. Certifique-se de que o número de captura de chamada também seja inserido no parâmetro Path PINX Replacement ID Service (consulte a etapa 1). Além disso, o sistema Avaya precisa de um padrão de rota para rotear para o grupo de captura.

| olay aar analysis 4 | | | | | | Page * | l of 1 |
|---------------------|-----|--------|-----------|----------|------|--------------|--------|
| | A | IAK DI | GIT ANALY | 212 TABI | LE | Percent Full | 1: 2 |
| Dialed | Tot | al | Route | Call | Node | ANT | |
| String | Min | Max | Pattern | Tupe | Nun | Read | |
| 4 | 4 | 4 | 20 | aar | | U | |
| 4 | 7 | 7 | 999 | aar | | n | |
| 4991 | 4 | 4 | 4 | aar | | U | |
| 4008 | 4 | 4 | 4 | aar | | Ű. | |
| 4815 | 4 | 4 | 4 | aar | | ñ | |
| 44 | 4 | 4 | 4 | aar | | V | |
| 5 | 4 | 4 | 10 | aar | | ñ | |
| 5 | 7 | 7 | 999 | aar | | n | |
| 5001 | 4 | 4 | 25 | aar | | n | |
| 5 05 0 | 4 | 4 | 10 | aar | | n | |
| 555 | 7 | 7 | 4 | aar | | n | |
| 7 | 7 | 7 | 999 | aar | | n | |
| 70007950 | 8 | 8 | 45 | aar | | n | |
| 8 | 7 | 7 | 999 | aar | | n | |
| 88001 | 5 | 5 | 65 | aar | | n | |

Observação: certifique-se de que esses dois parâmetros em todo o cluster (Device - PRI e MGCP Gateway) em Cisco CallManager Service Parameters (Advanced) correspondam à configuração Q.SIG no PBX. Todos os troncos de PBX devem ser configurados exatamente como esses parâmetros do Cisco CallManager. Codificação ASN.1 ROSE OID: Esse parâmetro especifica como codificar o ID de objeto de chamada (OID) para o ROSE (Remote Operations Service Element). Mantenha esse parâmetro definido com o valor padrão, a menos que um engenheiro de suporte da Cisco instrua de outra forma. Trata-se de um campo obrigatório e o padrão é Usar valor local. Estes são os valores válidos para este parâmetro: Use Local Value, que é suportado pela maioria dos sistemas de telefonia e deve ser usado quando o parâmetro de serviço Q.SIG Variant é definido como ISO (Protocol Profile 0x9F). Use o valor global (ISO), que é usado somente se o PBX conectado não suportar Usar valor local. Use o valor global (ECMA), que deve ser usado se o parâmetro de serviço Variante Q.SIG estiver definido como ECMA (Perfil de protocolo 0x91). Variante Q.SIG: Este parâmetro especifica o perfil de protocolo enviado nos elementos de informação de instalação Q.SIG de saída quando o tronco está configurado para Q.SIG. Mantenha esse parâmetro definido com o valor padrão, a menos que um engenheiro de suporte da Cisco instrua de outra forma. Este é um campo obrigatório e o padrão é ISO (Protocol Profile 0x9F). Estes são os valores disponíveis para este parâmetro: ECMA (Protocol Profile 0x91), que é tipicamente usado com PBXs ECMA e só pode usar o Protocol Profile 0x91. Se esse parâmetro de serviço estiver definido como ECMA (Protocol Profile 0x91), o parâmetro de serviço ASN.1 Rose OID Encoding deve ser definido como Use Global Value (ECMA). ISO (Protocol Profile 0x9F), que é a recomendação atual da ISO. Se esse parâmetro estiver definido como ISO (Protocol Profile 0x9F), o parâmetro do serviço ASN.1 Rose OID Encoding deve ser definido como Use Local Value.aviso: O Cisco CallManager não oferece suporte a ECMA ao usar troncos intercluster com o campo Tunneled Protocol definido como Q.SIG na janela Trunk Configuration na Administração do CallManager. Se você definir esse parâmetro de serviço como ECMA (Perfil de protocolo 0x91), todos os troncos intercluster deverão ter o campo Protocolo encapsulado definido como Nenhum.

| Clusterwide P | arameters (Device - PRI and MGCP Gateway) | |
|---|---|--|
| Parameter Name | Parameter Value | Suggested Value |
| ASN.1 ROSE OID Encoding* | Use Local Value | Use Local Value |
| QSIG Variant* | ISO (Protocol Profile 0x9F) | ISO (Protocol Profile 0x9F) |
| Caller ID | | |
| Calling Name Not Available Timeout (msec)* | 2000 | 2000 |
| Calling Party Number Screening Indicator* | CallManager sets the screening indicator value - Default settir | CallManager sets the screening indicator value - Default setting |
| Change B- Channel Maintenance Status 1 | | |
| Change B- Channel | | |

Configuração do Cisco 3745

Esta é a saída do comando **show version** e **show running-configuration** no dispositivo MGCP Cisco 3745. O controlador T1 1/0 no Cisco 3745 está conectado à placa Avaya S8700/G650 DS1 PRI. A sinalização Q.SIG é configurada no link PRI entre o Cisco 3745 e o Avaya S8700/G650.

```
CCME_CUE_3745# sh vers
Cisco Internetwork Operating System Software
IOS (tm) 3700 Software (C3745-IS-M), Version 12.2(15)ZJ3, EARLY DEPLOYMENT RELEASE SOFTWARE
(fc2)
TAC Support: http://www.cisco.com/tac
Copyright (c) 1986-2003 by cisco Systems, Inc.
Compiled Thu 25-Sep-03 22:25 by eaarmas
Image text-base: 0x60008954, data-base: 0x61C2C000
ROM: System Bootstrap, Version 12.2(8r)T2, RELEASE SOFTWARE (fc1)
ROM: 3700 Software (C3745-IS-M), Version 12.2(15)ZJ3, EARLY DEPLOYMENT RELEASE SOFTWARE (fc2)
CCME_CUE_3745 uptime is 39 minutes
System returned to ROM by reload
System image file is "flash:c3745-is-mz.122-15.ZJ3.bin"
cisco 3745 (R7000) processor (revision 2.0) with 246784K/15360K bytes of memory.
Processor board ID JMX0814L3E2
R7000 CPU at 350Mhz, Implementation 39, Rev 3.3, 256KB L2, 2048KB L3 Cache
Bridging software.
X.25 software, Version 3.0.0.
SuperLAT software (copyright 1990 by Meridian Technology Corp).
Primary Rate ISDN software, Version 1.1.
2 FastEthernet/IEEE 802.3 interface(s)
25 Serial network interface(s)
1 terminal line(s)
2 Channelized T1/PRI port(s)
1 ATM AIM(s)
```

```
2 Voice FXS interface(s)
2 Voice E & M interface(s)
1 cisco service engine(s)
DRAM configuration is 64 bits wide with parity disabled.
151K bytes of non-volatile configuration memory.
125184K bytes of ATA System CompactFlash (Read/Write)
Configuration register is 0x2102
CCME_CUE_3745# sh run
Building configuration...
Current configuration : 3291 bytes
Ţ
version 12.2
service timestamps debug datetime msec
service timestamps log datetime msec
no service password-encryption
1
hostname CCME_CUE_3745
1
logging queue-limit 100
1
voice-card 1
dspfarm
1
voice-card 5
dspfarm
1
ip subnet-zero
1
1
no ip domain lookup
1
isdn switch-type primary-qsig
1
no voice hpi capture buffer
no voice hpi capture destination
1
1
ccm-manager mgcp
ccm-manager music-on-hold
ccm-manager config server 172.28.221.18
ccm-manager config
mta receive maximum-recipients 0
!
1
controller T1 1/0
framing esf
linecode b8zs
pri-group timeslots 1-24 service mgcp
!
controller T1 1/1
framing sf
linecode ami
!
1
1
interface FastEthernet0/0
description CCME-CUE-3745_to_cat3550
no ip address
 duplex auto
 speed auto
!
interface FastEthernet0/0.1
```

```
encapsulation dot10 99
1
interface FastEthernet0/0.2
description NEW_S8700_G650
encapsulation dot1Q 300
ip address 172.28.221.49 255.255.255.240
ip helper-address 172.28.221.19
h323-gateway voip bind srcaddr 172.28.221.49
1
interface FastEthernet0/0.3
description MODULAR_MESSAGING_SOLUTION
encapsulation dot1Q 900
ip address 172.28.221.129 255.255.255.240
ip helper-address 172.28.221.19
!
interface FastEthernet0/0.4
encapsulation dot1Q 301
ip address 10.1.3.1 255.255.255.128
ip helper-address 172.28.221.19
1
interface FastEthernet0/0.5
 encapsulation dot1Q 302
ip address 10.1.3.129 255.255.255.128
ip helper-address 172.28.221.19
1
interface FastEthernet0/0.6
encapsulation dot10 90
ip address 90.1.1.254 255.255.255.0
ip helper-address 172.28.221.19
1
interface Serial0/0
description CCME-CUE-3745_to_3600
ip address 25.0.0.1 255.0.0.0
clockrate 256000
no fair-queue
1
interface Serial1/0:23
no ip address
no logging event link-status
isdn switch-type primary-qsig
isdn incoming-voice voice
isdn bind-13 ccm-manager
isdn bchan-number-order ascending
no cdp enable
Ţ.
interface Service-Engine2/0
no ip address
shutdown
1
router eigrp 100
network 10.0.0.0
network 25.0.0.0
network 90.0.0.0
network 172.28.0.0
auto-summary
!
ip http server
ip classless
!
call rsvp-sync
!
voice-port 1/0:23
!
voice-port 4/0/0
```

```
1
voice-port 4/0/1
1
voice-port 4/1/0
Ţ
voice-port 4/1/1
1
macp
mgcp call-agent 172.28.221.18 2427 service-type mgcp version 0.1
mgcp dtmf-relay voip codec all mode out-of-band
mgcp rtp unreachable timeout 1000 action notify
mgcp package-capability rtp-package
no mgcp package-capability res-package
mgcp package-capability sst-package
no mgcp timer receive-rtcp
mgcp sdp simple
mgcp fax t38 inhibit
mgcp rtp payload-type g726r16 static
1
mgcp profile default
1
1
1
dial-peer cor custom
1
dial-peer voice 1 pots
application mgcpapp
 port 1/0:23
1
dial-peer voice 999410 pots
 application mgcpapp
port 4/1/0
!
1
line con 0
 password cisco
 login
line 65
flush-at-activation
 no activation-character
no exec
 transport preferred none
 transport input all
line aux 0
line vty 0 4
password cisco
 login
1
end
```

Recursos testados para interoperabilidade entre sistemas IP-PBX da Cisco e da Avaya

Esta seção fornece uma lista de recursos testados entre a plataforma Cisco Call Manager 4.1(2) e a Avaya S8700/G650 executando o Communication Manager 2.0 por meio do tronco PRI Q.SIG:

- Exibição de nome e número (bidirecional)
- Transferência de Chamadas
- Chamada de conferência entre os dois sistemas

Integração do correio de voz do Cisco Unity para oferecer suporte a telefones IP da Cisco e da Avaya

Neste ponto, é possível usar o tronco Q.SIG para fazer chamadas entre um Avaya S8700/G650 executando o Avaya Communication Manager 2.0 e uma plataforma Cisco Call Manager executando o Call Manager versão 4.1(2) com o dispositivo MGCP Cisco 3745 fornecendo a conexão PRI ISDN física com o Avaya S870/0 G650. Um servidor Cisco Unity pode ser adicionado na plataforma Cisco Call Manager para fornecer suporte de correio de voz aos telefones IP da Cisco e da Avaya. Para habilitar isso, o administrador precisa configurar o Cisco Unity na plataforma Cisco Call Manager. Esta seção inclui os procedimentos com capturas de tela para configurar o Cisco Unity na página de gerenciamento do Cisco Call Manager Administration.

Observação: a maior parte da configuração é executada no Assistente de porta de correio de voz da Cisco.

Adicionar o Cisco Unity ao Cisco Call Manager

Conclua estes passos:

Avonoor

1. Em Recurso, selecione Correio de voz > Assistente de porta de correio de voz. Selecione Criar um novo servidor de correio de voz, adicione portas a ele e clique em

| Spray Station 7007 | raye 2 of 4 |
|---|--|
| | STATION |
| EATURE OPTIONS | |
| LWC Reception: spe | Auto Select Any Idle Appearance? n |
| LWC Activation? y | Coverage Hsg Retrieval? y |
| LWC Log External Calls? n | Auto Answer: none |
| CDR Privacy? n | Data Restriction? n |
| Redirect Notification? y | Idle Appearance Preference? n |
| Per Button Ring Control? n | |
| Bridged Call Alerting? n | Restrict Last Appearance? y |
| Active Station Ringing: continuous | |
| H.320 Conversion? y Service Link Mode: as-needed | Per Station CPN - Send Calling Mumber? y |
| Multimedia Node: enhanced | Audible Message Waiting? n |
| MWI Served User Tune: asia-mui | Display Client Redirection? n |
| har berved ober Typer qorg mir | Select Last lised Annearance? n |
| | Coverage After Forwarding? s |
| | Hultinedia Farlu Answer? n |
| | Direct IP-IP Audio Connections? u |
| Emergency Location Ext: 7887 | IP Audio Hairninning? u |
| cmergency Localion Exc. 7007 | ir Huuto Hairpinning: y |

2. Insira um nome de servidor de correio de voz da Cisco, como AvayaUM3, e clique em **Avançar**.



3. Selecione o número de portas de correio de voz desejado e clique em **Avançar**.

| System Route Plan Service Feature Device User Application Help |
|--|
| Cisco CallManager Administration For Cisco IP Telephony Solutions |
| Cisco Voice Mail Port Wizard |
| Cisco Voice Mail Ports |
| |
| AvayaUM3 currently has 0 ports configured. |
| How many ports do you want to addr 12 |
| |
| Back Next Cancel |
| |
| |
| |
| |

 Insira uma Descrição e um Pool de Dispositivos para as Portas de Correio de Voz. Na configuração de exemplo, Avaya VMailPorts foi inserida como a descrição e Padrão como o pool de dispositivos.

| display trunk-group 1 | | Page 2 of 22 |
|---------------------------------|---------------------|---------------------------------|
| TRUNK FEATURES | | |
| ACA Assignment? n | Heasured: | internal Wideband Support? n |
| | Internal Alert? | n Maintenance Tests? y |
| | Data Restriction? | n NCA-TSC Trunk Member: 18 |
| | Send Name: | u Send Calling Number: u |
| lised for DCS? n | Hon Dat? | y send sarring housers y |
| Suppress # Autoulsing? n | Numbering Format: | public |
| Outgoing Chappel ID Encoding. | avalucius IIII | IE Treatments convice provider |
| ourgoing channel in Encourng: | exclusive out | TE Treatment: Service-provider |
| | | accesso accessor accessor o |
| | | Replace Restricted Numbers? n |
| | | Replace Unavailable Numbers? n |
| | Send Ca | alled/Busy/Connected Number: y |
| | | |
| Send UUI IE? y | | |
| Send UCID? y | | |
| Send Codeset 6/7 LAI IE? u | | Ds1 Echo Cancellation? n |
| | | |
| Path Replacement with Retention | 0D2 U | |
| ruen nepruoenene wren necener | | |
| S852 n N | atunek (lanan) Nee | ds Connect Refore Disconnect? u |
| 303: II H | ecwork (Japan) need | as connect berore bisconnect: y |
| | | |
| | | |

5. Digite o Número do diretório inicial, como 4406, e o visor, como Correio de voz, e clique em Avancar.

| cancel refresh enter | clear | help | go to page next page prev page | je | | | |
|--|---|---------|---|--|------|---|--|
| display ds1 01A09 | | | | Page | 1 of | 2 | |
| | | DS1 (| CIRCUIT PACK | | | | |
| Location: Bit Rate: Line Compensation: Signaling Mode: Connect: TN-C7 Long Timers? Interworking Message: | 01A09 1.544 1 isdn-pri pbx n PROGress | | Name: Line Coding: Framing Mode: Interface: Peer Protocol: Side: | QSIG b8zs esf peer-mast Q-SIG a | er | | |
| Interface Companding: | mulau | | CRC? | n | | | |
| Idle Code: | 11111111 | OCP/Ana | alog Bearer Capability: | 3.1kHz | | | |
| Slip Detection? | n | | Near-end CSU Type: | other | | | |
| Echo Cancellation? | n | | | | | | |
| | | | | | | | |

6. A próxima tela pergunta, "Deseja adicionar esses números de diretório a um grupo de linhas?" Selecione Sim. Adicione números de diretório a um novo grupo de linhas e clique em

Avançar.

| cancel | refresh | enter | clear | help | go to page | next page | prev page | | | |
|--|--|--|--|--|---|---|--|---|---|-----------------|
| display | trunk- | group 1 | | | | | | Page | 1 0F | 22 |
| | | | | TRUNK | GROUP | | | | | |
| Group N Group Dire Dial A Queue L Service TestCal TRUNK P | umber: Name: ction: ccess? ength: Type: 1 BCC: ARAMETE Codes Nax Me | 1 QSIG TRU two-way y 0 tie 4 RS et to Se ssage Si y Servic | Far I Far I nd Disp ze to Si | Gro Outgoing Busy Ti An End Test Lay: 0 end: 260 | oup Type COR Display hreshold uth Code Line No Codese | isdn 90 99 99 n et to Se | TN: 1 Carr: Night To end Natio | CDR Report ier Medic t Service estCall 1 nal IEs: | ts: n TAC: *0 In: PRI : TC: re 6 | 1 /BRI st |
| Calling Discon Answer | Tr Number nect Su Superv | unk Hunt - Delet Bit Rate pervisio ision Ti | : ascen e: : 1200 n - In? meout: | d Insert: y Out? Ø | Synchron: Y | Di Ization: | QSIG Valu gital Los Numbering async | ue-Added ss Group g Format: Duplex: | / y : 13 : pub-u : full | nk |

7. Insira um nome de grupo de linhas que corresponda ao servidor de correio de voz inserido anteriormente, como

| AvayaUM3. | | |
|---------------------------------|--------------------|---------------------------------|
| display trunk-group 1 | | Page 2 of 22 |
| TRUNK FEATURES | | |
| ACA Assignment? n | Heasured: | internal Wideband Support? n |
| | Internal Alert? | n Maintenance Tests? y |
| | Data Restriction? | n NCA-TSC Trunk Member: 10 |
| | Send Name: | y Send Calling Number: y |
| Used For DCS? n | Hop Dgt? | y |
| Suppress # Uutpulsing? n | Numbering Format: | public |
| ourgoing channel to Encoding: | exclusive our | it freatment: service-provider |
| | | Replace Restricted Numbers? n |
| | | Replace Unavailable Numbers? n |
| | Send C | alled/Busu/Connected Number: u |
| | 1120 Mar 112 | |
| Send UUI IE? y | | |
| Send UCID? y | | |
| Send Codeset 6/7 LAI IE? y | | Ds1 Echo Cancellation? n |
| | | |
| Path Replacement with Retention | on?y | |
| | | |
| SBS? n N | etwork (Japan) Nee | ds Connect Before Disconnect? y |
| | | |
| | | |

8. A próxima tela mostra a configuração inserida até o momento. Clique em **Finish** se não houver alterações na configuração.

| displ | ay trun | k-group | 1 | | | | Page | 6 of | 22 |
|-------|-----------|---------|------|------|-------------------------|-----------------|----------|------|----|
| | | | | _ | TRUNK GROUP Administ | ered Nembers (m | in/max): | 1/23 | |
| GRUUP | MEMBER | ASSIGN | HENT | S | lota | al Administered | lembers: | 23 | |
| | Port | Code | SFx | Name | Night | Sig Grp | | | |
| 1: | 01A 09 01 | TN464 | G | | | | | | |
| 2: | 0140902 | TN464 | G | | | 1 | | | |
| 3: | 01A 09 03 | TN464 | G | | | 1 | | | |
| 4.5 | 01A 09 04 | TN464 | G | | | 1 | | | |
| 5: | 01A 09 05 | TN464 | G | | | 1 | | | |
| 6: | 01A 09 06 | TN464 | G | | | 1 | | | |
| 7: | 01A 09 07 | TN464 | G | | | 1 | | | |
| 8: | 01A 09 08 | TN464 | G | | | 1 | | | |
| 9: | 01A 09 09 | TN464 | G | | | 1 | | | |
| 10: | 01A0910 | TN464 | G | | | 1 | | | |
| 11: | 0160911 | TN464 | G | | | 1 | | | |
| 12: | 01A0912 | TN464 | G | | | 4 | | | |
| 13: | 8188913 | TN464 | G | | | 4 | | | |
| 14: | 8168914 | TN464 | G | | | 1 | | | |
| 15: | 0180915 | TN464 | G | | | 1 | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

9. Clique em **Adicionar uma nova lista de busca** na página da Web Administração da lista de busca.

| тэртау | SIG | arring | gr oup | | SI | GNALING | GROUP | | | | |
|--------|-------------|-----------------|--------------|--------------------|--------------------|-------------------------------|--------------------------|-------------------------------------|-------------------------------------|----------------------------|---------------|
| Group | Nunbe | r: 1 | Ass | ociated Primary | Grou Sig D-C | p Type: naling? hannel: | isdn-pri y 01A0924 | i Max num Max nu Trunk Gro | ber of NC nber of C up for NC | A TSC: A TSC: A TSC: | 10 10 1 |
| | Trunk Su | Group ppleme | for ntary | Channel Servic | Sel e Pr | ection: otocol: | 1 b | X-Mobility Network | /Wireless Call Tra | Type: nsfer? | NONE |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| ommand | | | | | | | | | | | |

 Insira um nome e uma descrição da lista de busca, como Avaya VMailHL. Além disso, selecione **Default** para o grupo do Cisco Call Manager.

| cancel | | | ſ | efre | sh | | ente | er 👘 | clear | h | elp | go to page | next page | prev page | • | | | |
|--------|------------|---------|-----|------|----|----|------------|------------|--------------|------------|---------------|--------------|----------------------|-------------|------|------|--------------|------|
| isp | 1 1 | ŋy | r | out | e- | pa | tter | n 4 | 2 | | | | | | | Page | 1 of | 3 |
| | | | | | | | | Pat | tern M | lunber | : 4 | Patte Sec | rn Name: ure SIP? | isdn 1 n | test | | | |
| | Gr | .р) | FI | ۹L | NF | 'n | Pfx Mrk | Hop Lmt | Toll List | No. Del | Inser Digi | rted | | | | | DCS/ QSIG | IXC |
| | | | | | | | | | | Dqts | | | | | | | Intw | 1 |
| : | 1 | | | 3 | 44 | 38 | | 4 | | | | | | | | | n | user |
| : | | | | | | | | | | | | | | | | | n | user |
| • | | | | | | | | | | | | | | | | | n | user |
| - | | | | | | | | | | | | | | | | | n | user |
| • | | | | | | | | | | | | | | | | | n | user |
| 5 | | | | | | | | | | | | | | | | | n | user |
| | j. | ico | : 1 | IAL | UE | | TSC | CA- | TSC | ITC | BCIE | Servic | e/Featur | e BAND | No. | Numb | erina | LAR |
| | 0 | 1 | 2 | 3 | 4 | W | | Rea | uest | | | | | | Dats | Form | at | |
| | | | | | | | | 100 | | | | | | Sul | addr | ess | | |
| 1 | U | U. | Ų | U. | U. | n | U. | as- | needed | l rest | | | | | | pub- | unk | none |
| • | y | y | ÿ | y | y | п | n | | | rest | | | | | | | | none |
| 2 | y | y | ÿ | y | y | п | n | | | rest | | | | | | | | none |
| | y. | y | y | y | y | n | n | | | rest | | | | | | | | none |
| • | y. | y | y | y | y | n | n | | | rest | | | | | | | | none |
| | U | U | U | U | U | n | n | | | rest | | | | | | | | none |

11. Esta captura de tela é o resultado da adição bem-sucedida da lista de busca. Clique em Adicionar grupo de

| lay aar analysis | 4 | | CIT ONOL U | | E | rage 1 o | r |
|------------------|-----|-----|------------|---------|------|------------------------|---|
| | 1 | | UIT HNHLT | 515 THD | | Percent Full: | |
| Dialed | Tot | al | Route | Call | Node | ANI | |
| String | Min | Max | Pattern | Туре | Nun | Reqd | |
| 4 | 4 | 4 | 20 | aar | | у | |
| 4 | 7 | 7 | 999 | aar | | n | |
| 4001 | 4 | 4 | 4 | aar | | y | |
| 4008 | 4 | 4 | 4 | aar | | y . | |
| 4015 | 4 | 4 | 4 | aar | | n | |
| 44 | 4 | 4 | 4 | aar | | ÿ | |
| 5 | 4 | 4 | 10 | aar | | n in the second second | |
| 5 | 7 | 7 | 999 | aar | | n | |
| 5001 | 4 | 4 | 25 | aar | | 'n | |
| 5 05 0 | 4 | 4 | 10 | aar | | n | |
| 555 | 7 | 7 | 4 | aar | | n | |
| 7 | 7 | 7 | 999 | aar | | n | |
| 70007950 | 8 | 8 | 45 | aar | | n | |
| 8 | 7 | 7 | 999 | aar | | n | |
| 88991 | 5 | 5 | 65 | aar | | n | |
| | | | | | | | |

12. Selecione o Grupo de linhas configurado anteriormente. Nesse caso, é AvayaUM3.

| urspray scatton reer | Page 2 of 4 |
|---|---|
| | STATION |
| FEATURE OPTIONS | |
| LWC Reception: spe | Auto Select Any Idle Appearance? n |
| LWC Activation? y | Coverage Hsg Retrieval? y |
| LWC Log External Calls? n | Auto Answer: non |
| CDR Privacy? n | Data Restriction? n |
| Redirect Notification? y | Idle Appearance Preference? n |
| Per Button Ring Control? n | CONTRACTOR AND AND A CONTRACTOR AND A |
| Bridged Call Alerting? n | Restrict Last Appearance? u |
| Active Station Ringing: continuous | |
| H.320 Conversion? y Service Link Hode: as-needed | Per Station CPN - Send Calling Number? y |
| Multimedia Hode: enhanced | Audible Message Waiting? n |
| MWI Served User Tupe: asia-mwi | Display Client Redirection? n |
| | Select Last Used Appearance? n |
| | Coverage After Forwarding? s |
| | Hultinedia Farlu Answer? n |
| | Direct IP-IP Audio Connections? |
| Emergency Location Ext: 7007 | IP Audio Hairninning? u |

13. A próxima captura de tela mostra o resultado da inserção bem-sucedida do grupo de linhas.

| Hunt List Con | figuration | | Add a new Hur Back to Find/List Hun Dependency Re | nt List t Lists cords |
|-------------------|---|-----------------------------|---|-----------------------------|
| Hunt List Details | Hunt List: Avaya | VMail HL | | |
| AvayaUM3 | Status: Line Group ins | ert completed | | |
| - | Copy Update | Delete Reset | | |
| | Hunt List Informat | tion | | |
| | Hunt List Name* | Avaya VMail HL | | |
| | Description | Avaya VMail HL | | |
| | Cisco CallManager G | iroup* Default | • | |
| | F Enable this Hunt | List (change effective on U | pdate; no reset required) | |
| | Hunt List Member | Information | | |
| | Add Line Group | | | |
| | Selected Groups* (ordered by highest | AvayaUM3 | | |
| | priority) | | | |
| | | | | ÷ |
| | | | | |
| | | | · 🔺 | |
| | Removed Groups | | | |
| | (to be removed from Hunt List when you | | | |
| | click Update) | | | |
| | | | | |
| | | | | |
| | | | | |

14. Vá para Plano de rota > Rota/busca > Piloto de busca. Clique em Add a New Hunt Pilot (Adicionar um novo piloto de busca) na tela Hunt Pilot (Piloto de busca).

| System Route Plan Service | Feature Device User Application Help | Þ |
|---|--|----------------------|
| Cisco CallManager | Administration | Cisco Systems |
| Find and List Hu | int Pilots | Add a New Hunt Pilot |
| No current search | | |
| Find Hunt Pilots where and show 20 items per To | Pattern v begins with v page ist all items, click Find without entering any sear | End text. |
| | | |

15. Digite o piloto de busca, como o 4408, e selecione uma lista de busca, como Avaya VMail HL e clique em

| | | | 3 | 2 | | |
|---------------------------------------|---------------|---------|------------------------|------------|------|---|
| display ds1 01A09 | | | | Page | 1 of | 2 |
| | | DS1 (| IRCUIT PACK | | | |
| Location: | 01A 09 | | Name: | QSIG | | |
| Bit Rate: | 1.544 | | Line Coding: | b8zs | | |
| Line Compensation: Signaling Mode: | 1 isdn-pri | | Franing Mode: | esf | | |
| Connect: | pbx | | Interface: | peer-maste | er | |
| TN-C7 Long Timers? | n | | Peer Protocol: | Q-SIG | | |
| Interworking Message: | PROGress | | Side: | a | | |
| Interface Companding: | mulaw | | CRC? | n | | |
| Ture coue. | | DCP/Ana | log Bearer Capability: | 3.1kHz | | |
| Slip Detection? | n | | Near-end CSU Type: (| other | | |
| | | | | | | |
| Echo Cancellation? | n | | | | | |
| | | | | | | |
| | | | | | | - |
| | | | | | | |

16. Vá para Recurso > Correio de voz > Piloto de correio de voz e clique em Adicionar um novo piloto de correio de voz na tela que resulta.

| cancel | refresh | enter | clear | help | go to page | next page | prev page | | | |
|---|---|--|-------------------------------------|------------------------------|--|-----------------------|--------------------------|-----------------------|-----------------------------------|-----------|
| display | trunk- | group 1 | | | | | | Page | 1 0f | 22 |
| | | | | TRUNK | GROUP | | | | | |
| Group N Group Dire Dial A Queue L | unber: Name: ction: ccess? ength: | 1 QSIG TRU two-way y 0 | NKING | Gr Dutgoing Busy T | oup Type: COR: Display? hreshold: | isdn 90 9 99 | TN: 1 Carri Night | DR Report | ts: n AC: *0 In: PRI, E: | 1 /BRI |
| Service | Type: | C16 | Ear I | H End Tect | uth Code: | n | - 10 | estuall | iiic: re | st |
| TestCal TRUNK P Suppl | 1 BCC: ARAMETE Codes Max Me ementar | 4 RS Set to Se Ssage Si Y Servic | nd Displ ze to Se e Protoc | lay: 0 end: 260 col: b | Codese Digit | et to Se Handlin | end Nation ng (in/out | nal IEs: t): enblo | 6 Dc/enbl | oc |
| | Tr | unk Hunt | : ascend | 1 | | Di | QSIG Valu | Je-Added s Group: | y 13 | |
| Calling Discon Answer | Number nect Su Superv | - Delet Bit Rate pervisio vision Ti | e: : 1200 n - In? meout: | Insert: y Out? Ø | Synchroni Y | zation: | Numbering async |) Format: Duplex: | pub-u full | nk |

17. Insira o número do piloto do correio de voz correspondente ao número do piloto de busca configurado anteriormente. Nesse caso, os números do piloto de busca e do piloto de correio de voz são

| 4408. | |
|--------------------------------|--|
| display trunk-group 1 | Page 2 of 22 |
| TRUNK FEATURES | |
| ACA Assignment? n | Measured: internal Wideband Support? n |
| | Internal Alert? n Maintenance Tests? y |
| | Data Restriction? n NCA-TSC Trunk Member: 10 |
| | Send Name: y Send Calling Number: y |
| Used for DCS? n | Hop Dgt? y |
| Suppress # Outpulsing? n | Numbering Format: public |
| Outgoing Channel ID Encoding: | exclusive UUI IE Treatment: service-provider |
| | |
| | Replace Restricted Numbers? n |
| | Replace Unavailable Numbers? n |
| | Send Called/Busy/Connected Number: y |
| Cred WIT IFO w | |
| Send UUT TEY y | |
| Send Opdarot 4/7 LAL 152 v | Red Fals Dansellations a |
| Send Codeset 077 LHI IE? y | US1 ECHO GANCEITACION? N |
| Path Replacement with Retentio | n?y |
| | |
| SBS? n Ne | twork (Japan) Needs Connect Before Disconnect? y |
| | and a second |
| | |

18. Vá para Recurso > Correio de voz > Perfil de correio de voz e clique em Adicionar um novo perfil de correio de voz.

| displ | ay trunk | k-group | 1 | | | Page | 6 of | 22 |
|-------|-----------|---------|------|------|---------------------------------|--|----------------|----|
| GROUP | MEMBER | ASSIGN | HENT | s | TRUNK GROUP Administ Tota | ered Hembers (min/max) l Administered Hembers | : 1/23 : 23 | |
| | Port | Code | SFx | Name | Night | Sig Grp | | |
| 1: | 81A8981 | TN464 | G | | ्र ग | 1 | | |
| 2: | 01A 09 02 | TN464 | G | | | 1 | | |
| 3: | 01A 09 03 | TN464 | G | | | 1 | | |
| 4: | 01A 09 04 | TN464 | G | | | 1 | | |
| 5: | 01A 09 05 | TN464 | G | | | 1 | | |
| 6: | 01A 09 06 | TN464 | G | | | 1 | | |
| 7: | 0100907 | TN464 | G | | | 1 | | |
| 8: | 01A 09 08 | TN464 | G | | | 1 | | |
| 9: | 01A 09 09 | TN464 | G | | | | | |
| 10: | 01A0910 | TN464 | G | | | 1 | | |
| 11: | 01A0911 | TN464 | G | | | | | |
| 12: | 01A0912 | TN464 | G | | | 1 | | |
| 13: | 01A0913 | TN464 | G | | | 1 | | |
| 14: | 0100914 | TN464 | G | | | 1 | | |
| 15: | 0160915 | TN464 | G | | | 1 | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

19. Insira o nome e a descrição do perfil de correio de voz, como AvayaVMailProfile, e selecione o número do piloto do correio de voz na etapa 17. Nesse caso, o número do piloto do correio de voz é 4408

| lisplay |) sig | nal | ing-o | group | 1 | | \$16 | SNAL I NG | GROUP | |
|---------|-----------|------------|---------------|--------------|--------------|-----------------|----------------------|-------------------------------|-------------------------|---|
| Group | Nunb | er: | 1 | Ass | ocia Prim | G ted ary | roup Sigr D-Ct |) Type: naling? nannel: | isdn-pr y 01A0924 | ri Max number of NCA TSC: 10 4 Max number of CA TSC: 10 Trunk Crown for NCA TSC: 1 |
| | Trun S | k G upp | roup Lener | for ntary | Chan Ser | nel vice | Sele Pro | ection: otocol: | 1 b | X-Mobility/Wireless Type: NONE Network Call Transfer? n |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | Caricolo | | | | | | | | |
| omman | 1: | | | | | | | | | |

20. Clique em Features > Voice Mail > Message Waiting Indicator > Add a New Message Waiting Number para adicionar os números On/Off do Message Waiting Indicator (MWI). Aqui estão incluídas duas capturas de tela para os números de ativação/desativação do Indicador de espera de mensagem.

| car | icel | | re | fre: | sh | ente | er clear | help | go to p | lage next pa | ge prev p | age | | | |
|-----|-------------|----|----------|---------|-----------|------------|----------------------|--------------------------|------------------|------------------------|------------------|----------------|-------|--------------|-------|
| isp |)]a | IJ | ro | ut | e-p | atte | rn 4 | | | | | | Page | 1 0 | F 3 |
| | | | | | | | Pattern N | umber: | 4 Pat | ttern Nam Secure SI | ne: isdr P? n | n test | | | |
| | Gr No | p | FR | L | NPA | Pfx Mrk | Hop Toll Lmt List | No. II Del Di Dats | iserted igits | | | | | DCS, QSII | / 1XC |
| : | 1 | | 8 | | 408 | | 4 | | | | | | | n | user |
| 2 | | | | | | | | | | | | | | n | user |
| : | | | | | | | | | | | | | | n | user |
| н. | | | | | | | | | | | | | | n | user |
| | | | | | | | | | | | | | | n | user |
| b : | | | | | | | | | | | | | | n | user |
| | 8 | 1 | : ∪ 2 | AL 3 | UE 4 W | TSC | CA-TSC Request | ITC B | CIE Serv | vice/Feat | ure BAI | ND No. Dats | Numbe | ring t | LAR |
| | | | | | | | | | | | 1.1 | Subaddr | ess | | |
| : | U. | U. | U. | U. | y n | U. | as-needed | rest | | | | | pub-u | nk | none |
| | y | y | y | y | y n | n | | rest | | | | | | | none |
| 1 | y | y | y | y | y n | n | | rest | | | | | | | none |
| | y. | y | y | y | y n | n | | rest | | | | | | | none |
| 1 | y | y | y . | y | y n | n | | rest | | | | | | | none |
| 5 : | y | y | y | y | y n | n | | rest | | | | | | | none |

| A | AR DI | GIT ANALY | SIS TAB | LE | Percen | t Eu | 11- | |
|-----|---|--|---|--|--|--|--|---|
| | | | | | rercen | C I U | | |
| Tot | al | Route | Call | Node | ANI | | | |
| Min | Max | Pattern | Type | Num | Reqd | | | |
| 4 | 4 | 20 | aar | | У | | | |
| 7 | 7 | 999 | aar | | n | | | |
| 4 | 4 | 4 | aar | | y | | | |
| 4 | 4 | 4 | aar | | y | | | |
| 4 | 4 | 4 | aar | | n | | | |
| 4 | 4 | 4 | aar | | y | | | |
| 4 | 4 | 10 | aar | | n | | | |
| 7 | 7 | 999 | aar | | n | | | |
| 4 | 4 | 25 | aar | | n | | | |
| 4 | 4 | 10 | aar | | n | | | |
| 7 | 7 | 4 | aar | | n | | | |
| 7 | 7 | 999 | aar | | n | | | |
| 8 | 8 | 45 | aar | | n | | | |
| 7 | 7 | 999 | aar | | n | | | |
| 5 | 5 | 65 | aar | | n | | | |
| | Tot Min 4 7 4 4 4 4 7 4 4 7 7 8 7 5 | Total Min Max 4 4 7 7 4 4 4 4 4 4 4 4 7 7 4 4 7 7 8 8 7 7 8 8 7 5 5 | TotalRouteMinMaxPattern44207799944444444444444444444444107799944254410774779998845779995565 | Total Route Call Min Max Pattern Type 4 4 20 aar 7 7 999 aar 4 4 4 aar 4 4 18 aar 7 7 999 aar 4 4 18 aar 7 7 999 aar 7 7 4 aar 7 7 999 aar 8 8 45 aar 7 7 999 aar 8 8 45 aar | Total Route Call Node Min Max Pattern Type Nun 4 4 20 aar 7 7 999 aar 4 4 4 aar 7 7 999 aar 4 4 10 aar 7 7 4 aar 7 7 999 aar 8 8 45 aar 7 7 999 aar 8 8 45 aar 7 7 999 aar 5 | Total Route Call Node ANI Min Max Pattern Type Num Reqd 4 4 28 aar y 7 7 999 aar n 4 4 28 aar y 7 7 999 aar n 4 4 4 aar y 4 4 4 aar y 4 4 4 aar n 4 4 4 aar n 4 4 aar n n 4 4 4 aar n 7 7 999 aar n 7 7 999 aar n 7 7 999 aar n 4 4 18 aar n 7 7 4 aar n 7 7 999 aar n 7 7 999 | Total Route Call Node ANI Min Max Pattern Type Nun Reqd 4 4 20 aar y 7 7 999 aar n 4 4 4 aar y 4 4 4 aar n 4 4 4 aar n 4 4 4 aar n 7 7 999 aar n 7 7 999 aar n 7 7 999 aar n 7 7 4 aar n 7 7 999 aar n 7 7 999 aar n | Total Route Call Node ANI Min Max Pattern Type Nun Reqd 4 4 20 aar y 7 7 999 aar n 4 4 4 aar y 4 4 4 aar n 4 4 4 aar n 4 4 aar n n 4 4 aar n n 7 7 999 aar n 7 7 999 aar n 7 7 999 aar n 7 7 4 aar n 7 7 999 aar n 7 7 999 aar n 8 8 45 |

Recursos testados do correio de voz do Cisco Unity

Esta é uma lista de recursos do Cisco Unity Voice Mail testados com os telefones IP Avaya usados para acessar o Cisco Unity Voice Mail por meio do tronco PRI Q.SIG entre a plataforma Cisco Call Manager 4.1(2) e a Avaya S8700/G650 executando o Communication Manager 2.0:

- Saudação interna
- Saudação de ocupado
- MWI
- Fácil acesso a mensagens

Informações Relacionadas

- Suporte à Tecnologia de Voz
- Suporte aos produtos de Voz e Comunicações Unificadas
- <u>Troubleshooting da Telefonia IP Cisco</u>
- <u>Suporte Técnico e Documentação Cisco Systems</u>