



Troubleshooting Avaya Aura[®] Call Center Elite

Release 10.2.x
Issue 1
December 2023

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Chapter 1: Introduction

Purpose

This document describes how to use Avaya Aura® Call Center Elite troubleshooting tools and utilities. The document also describes the procedures to contact Avaya Support and contains typical error messages and resolution tasks.

This document is intended for people who perform Avaya Aura® Call Center Elite troubleshooting tasks.

Chapter 2: Troubleshooting features

Conference call drops

Conference calls drop abruptly, which can be because the field value in **Vector Disconnect Timer** has a short duration.

Solution

Procedure

1. At the command prompt, type `change system-parameters features` and press **Enter**.
2. On page 10 of the Feature-Related System Parameters screen, administer a value higher than the current value in the **Vector Disconnect Timer (min)** field.
3. Save your changes.

Remote agents experience call problems

Remote agents receive phantom calls

When you administer enhanced Look-ahead Interflow (LAI) vectors or the LAI Expected Wait Time (EWT) threshold incorrectly, remote agents can receive phantom calls.

Solution

Before you begin

Ensure that Look-ahead Interflow (LAI) is active on the System-Parameters Customer-Options screen.

Procedure

1. At the command prompt, type `change system-parameters features` and press **Enter**.
2. On page 11 of the Feature-Related System Parameters screen, administer a value higher than the current value in the **Interflow-qpos EWT Threshold** field.
3. Save your changes.

Remote agents experience delay in receiving ACD calls

Remote agents can experience some delay in receiving ACD calls because of the following reasons:

- The **Interflow-qpos EWT Threshold** field value is low. To administer a higher field value, perform the steps in *Remote agent receive phantom calls*.
- The sending Communication Manager server makes insufficient LAI attempts.
- The number of tie trunks is insufficient.

Solution

Procedure

Change the interflow-qpos conditional at the sending Communication Manager.

Remote agents receive no calls

Remote agents receive no calls when the sending Communication Manager server completes all vector steps before calls reach the head of a queue.

Solution

Procedure

Rewrite the relevant vector on the sending Communication Manager server.

Sound volume is too low

Sound volume levels are too low for some conference participants. A potential reason can be because these participants connect through international trunks in which the Central Office (CO) loss plans have substantial losses.

Solution

Procedure

1. At the command prompt, type `change location-parameters xxx`, and press **Enter**. Where `xxx` is the number of the location.
2. On the Loss Plans page of the Location Parameters screen, administer the **End-to-End total loss (db) in a n-party conference** field.
3. Save your changes.

Tie trunks or queue slots reach maximum capacity frequently

Best Service Routing (BSR) cannot effectively balance calls across the network when tie-trunks or queue slots reach maximum capacity.

Review the design of the related BSR Application plan, and correct the following:

- BSR status poll vectors did not end with a **reply-best** step.
- Use of **busy** or **disconnect** command in vector steps.
- User adjustment, as a percentage, in the **consider location** vector step is too low.

Solution

Before you begin

To verify that Best Service Routing (BSR) vectors function correctly, type the `list trace vdn` or `list trace vec` command to observe call processing.

Procedure

1. At the command prompt, type the `display events` command for the relevant vector, especially if you recently implemented a new BSR Application plan.

Vector events identify and indicate the source of common malfunctions and administration errors.

 **Note:**

When you type the `display events` command, Communication Manager displays the most recent vector events.

2. At the command prompt, type `change vector xxx` and press **Enter**. Where `xxx` is the related BSR status poll vector.
 - If the vector event details indicate that a **reply-best** step is missing, add the **reply-best** step.
 - If the vector event details indicate that a **busy** or **disconnect** command is in the status poll vector, delete the command.
 - If the vector event details indicate that user adjustment, as a percentage, in the **consider location** step is low, increase the value of the *adjust-by* parameter.
3. Save your changes.

Communication Manager does not forward UUI data

Sometimes Communication Manager does not forward User-to-User Information (UUI) data, even though you receive no error message when you administer the Shared UUI feature.

The following are some reasons:

- Network providers impose limitations on the user data length.
- QSIG signaling and networks do not have the required user data length limits.
- The **data item priority** field on the Shared UUI Feature Priorities page of the Trunk Group screen is left blank.

For more information about the rules that determine the capacity of user information, see *information forwarding* in *Avaya Aura® Call Center Elite Feature Reference*.

Solution

Before you begin

Use the **display events** command on a periodic basis to check if Communication Manager does not forward UUI data.

Procedure

1. For Distributed Communications System (DCS), configure all ISDN trunks between Communication Manager servers or the remote voice messaging system in the D-channel mode.
2. For each ISDN or SIP trunk with **shared UUI**, ensure that the UUI size does not exceed the network support limit.
3. Verify that the trunk group options are correct for each configuration.
4. If an application fails, check the administration screens to determine whether the application has the highest priority. Perform this step for tandem nodes and originating nodes.

A tandem node can erase the UUI information from the originator. Passing UUI through a tandem node transparently does not apply to Communication Manager proprietary shared UUI procedures.

UCID not transmitted

Universal Call Identification (UCID) relay over ISDN or SIP trunks depends on the field settings on the System-Parameters Customer-Options screen. If Communication Manager does not relay UCID, check the following:

- The **ISDN-PRI** and **ISDN-BRI** fields on the System-Parameters Customer-Options screen is **n**. These field values must be **y**.
- The **Send UCID** field on the Trunk Group screen of a tandem Communication Manager server is **n**. To relay UCIDs, this field value must be **y**.
- For Call Management System (CMS), call-associated trunks, VDNs, and skills are unmeasured. All call-associated resources must have the **Measured** field as **both** or **external**.

- For DCS, ISDN or SIP trunks must have the service protocol as **shared uui**.

Solution

Procedure

1. A tandem communication server has the **Send UCID** field set to **y** for all trunk groups that Automatic Alternate Routing (AAR) or Alternate Route Selection (ARS) or station users can use to tandem an incoming call.
2. For DCS, configure all ISDN trunks between the communication servers for DCS or remote AUDIX in the D-channel mode.
3. For CMS tracking purposes, administer the **Measured** field as **both** or **external** for all trunks, VDN, and skills for which Communication Manager tracks UCIDs.

NCR invocation attempts fail

Proposed solution 1

Procedure

1. Verify that no problems exist with BSR polling and interflow operations when Network Call Redirection (NCR) is not administered on the Best Service Routing Application Plan screen.
2. Ensure that the **Net Redir** field on the Best Service Routing Application Plan screen is **y** for all locations that use NCR.

Proposed solution 2

About this task

You can check the ISDN message trace information that Message Sequence Tool (MST) provides for the ISDN trunk D-channel that is associated with NCR invocation attempts.

Perform the following steps to configure MST:

Procedure

1. Type the `ch MST Switch Administration Terminal` command.
2. Administer **ISDN-PRI** as **y**, **Port Type** as **d-channel**, and **Port** as the DS1 D-channel switch location that is associated with the PRI trunk in use with NCR.
3. Use the `enable mst` and `list mist cont` Switch Administration Terminal commands to view NCR-related MST trace data.
4. When vector processing or manual call transfer, call conference, or call release starts an NCR NCT-type invocation, Communication Manager sends a D-channel message to the

PSTN switch. This message initiates the merging of the two B-channels associated with the first and second call-legs of a trunk-to-trunk call.

The following MST trace example is for a NCR Two B-Channel Transfer D-channel invocation message that has the same general format as for the MCI NCT, ETSI ECT, or NCD protocols:

```
<msg #> 62 <time stamp> 40 01 18 0F 08 02 80 02 62 1C 09 91 A1
06 02 01
04 02 01 06
```

Search the 91 A1 data-byte sequence in the trace example to verify that Communication Manager sends an NCR invocation D-channel message.

5. If the NCR NCT-type invocation is successful, the PSTN switch returns a D-channel message to the Communication Manager that has the following general format:

```
<msg #> 60 <time stamp> 00 00 4B 17 08 02 93 E5 62 1C 06
03 02 01
01
```

Search the 91 A2 data-byte sequence in the message to verify that the PSTN switch accepted the NCR invocation request. A D-channel message instead sent by the PSTN switch that has 91 A3 or 91 A4 data-byte sequence indicates the NCR invocation attempt was rejected. Use the **display events** System Administration Terminal command to view vector events that will explain why the NCR invocation failed.

6. For the NCR ETSI ECT protocol, a NCR Request LinkID D-channel message is first sent to the PSTN switch by Communication Manager to determine which D-channel to use for this NCR ETSI ECT invocation: This will result in the PSTN sending a Returned LinkID D-channel message to Communication Manager, where an example of an Ericsson AXE-10 single-byte LinkID MST message is as follows:

```
<msg #> 60 <time stamp> 40 01 18 0F 08 02 00 57 62 1C 13 91 A2
10 02 01
0B 30 0B 06 06 04 00 82 71 01 04 02 01 FE
```

7. Communication Manager sends an Invoke Explicit ECT D-channel message to the PSTN switch using the LinkID returned by the PSTN switch, where an example Ericsson AXE-10 single-byte LinkID MST message is as follows:

```
<msg #> 62 <time stamp> 40 01 18 0F 08 02 01 92 62 1C 11 91 A1
0E 02 01
0C 06 06 04 00 82 71 01 01 02 01 FE
```

8. For any of the NCR NCT-type protocols, a successful invocation results in both legs of the trunk-to-trunk connection being dropped by the PSTN switch after the B-channels are merged.

An example of the PSTN switch first dropping the second call-leg by sending a `Disconnect`, the Avaya switch sending back a `Release`, and the PSTN switch sending a `Release Complete D-channel` message is as follows:

```
<msg #> 60 <time stamp> D 40 01 18 0F 08 02 81 92 45 08 02 82 90 1C 23 91
      D A1 20 02 02 00 80 02 01 22 30 17 A1 0F 30 06 02
      D 01 00 02 01 01 30 05 05 00 02 01 02 82 01 00 83
      D 01 00 1C 06 91 A2 03 02 01 0C
<msg #> 62 <time stamp> 40 01 18 0F 08 02 01 92 4D
<msg #> 60 <time stamp> 40 01 18 0F 08 02 81 92 5A
```

An example of the PSTN switch completing the NCR call-redirection operation by dropping the first call-leg by sending a `Disconnect`, `Communication Manager` sending a `Release`, and the PSTN switch sending a `Release Complete D-channel` message. To verify the called number information associated with the NCR setup of the second call-leg is correct and to see the trunk-related denial events that are generated if the NCR fails, use the `list trace tac <trunk group number> Switch Administration Terminal` command.

Proposed solution 3

Procedure

To view the behavior of a particular VDN or vector and to identify NCR errors, use the `list trace vdn` and `list trace vector` Switch Administration Terminal commands.

Proposed solution 4

About this task

You can check BSR processing to identify NCR errors.

Procedure

1. If you are logged in at the Switch Administration Terminal (SAT) using the init login, type `go tcm`.
2. At the `tcm1>` system prompt, type the `rdd:dp_mgr Bsr_app1loc` command to see all NCR attempts, internal errors, network errors, successful redirections, and disconnects peg counts that are associated with BSR call interflows where NCR was invoked.

Peg counts are free-running and are only reset when you use the `ch best SAT` command to gain access to the Best Service Routing Application Plan screen for a particular BSR application number.

Proposed solution 5

Procedure

If NCR vector invocation by Call Vectoring fails for previous calls, type the `display events SAT` command to obtain a real-time display of vector events that are logged for call redirection attempts.

The possible NCR vector events are as follows:

- a. 68: Adjunct Route via NCT failed
- b. 310 NCR: Invoke trunk not ISDN
- c. 311 NCR: Bad NCR trunk admin
- d. 312 NCR: No NCT PSTN service
- e. 313 NCR: No NCT outgoing trk
- f. 314 NCR: NCT outgo trk drop
- g. 315 NCR: PSTN NCT invoke err
- h. 316 NCR: PSTN NCT netwrk err
- i. 317 NCR: Used NCT trk-to-trk
- j. 318 NCR: No NCD PSTN service
- k. 319 NCR: NCD invalid PSTN nmbr
- l. 320 NCR: NCD call connect err
- m. 321 NCR: PSTN NCD invoke err
- n. 322 NCR: PSTN NCD netwrk err
- o. 323 NCR: PSTN NCD max redirs
- p. 324 NCR: PSTN NCD no disc
- q. 325 NCR: Internal system err

SIP NCR invocation attempts fail

Proposed solution

Procedure

1. When an NCR NCT-type invocation is initiated by a vector processing operation or by a manual call-transfer or call-conference/release operation, Communication Manager sends a SIP REFER or 302 Moved Temporarily message to the SIP service provider to initiate the redirection operation.

You can determine what User-to-User data was sent in the SIP REFER or 302 Moved Temporarily messages, but the absence of User-to-User Information (UUI) does not mean that an invocation failed. Absence could mean that there was no UUI at the time during generation of a message.

The following examples are for SIP NCR invocation messages:

- a. A successful SIP NCR invocation with a REFER message:

```
REFER sip:
30341@135.9.72.61
;transport=tcp SIP/2.0^M
From: ""
3322"
```

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```
<sip:
3322@avaya.com
>;tag=0b6ce3afb70dc14f047524900^M
To: ""
ISDN 2"
<sip:
30341@avaya.com
>;tag=0b6ce3afb70dc19a0474ff5700^M
Call-ID: 0b6ce3afb70dc19b0474ff5700^M
CSeq: 1 REFER^M
Max-Forwards: 70^M
Route: <sip:
123.4.72.61;lr;transport=tcp>^M
Via: SIP/2.0/TCP 123.4.72.136:5062;branch=z9hG4bK8010313dfb70dc150047524900^M
User-Agent: Avaya CM/R015x.00.0.822.f^M
Contact: ""
test vdn"
<sip:
3322@135.9.72.136
:5062;transport=tcp>^M
Refer-To: <sip:
825030340@avaya.com
?User-to-User=00C8103132333435363738393031323
343536F7020007F803042143%3Bencoding%3Dhex>^M
Content-Length: 0^M
^M
```

A successful invocation is indicated by the UUI for the `Refer-To` header.

The REFER method of NCR invocation is used for the case where the call has already been answered in the vector or by an answering station.

Failure of the SIP NCR invocation with vector processing will result in continuation of vector processing at the following step.

b. A successful SIP NCR invocation with a 302 Moved Temporarily response:

```
SIP/2.0 302 Moved Temporarily^M
From: ""
ISDN 2"
<sip:
30341@avaya.com
>;tag=0f0a1affb70dc1ac0474ff5700^M
To: ""
3322"
<sip:
3322@avaya.com
>;tag=0f0a1affb70dc15e047524900^M
Call-ID: 0f0a1affb70dc1ad0474ff5700^M
CSeq: 1 INVITE^M
Via: SIP/2.0/TCP 123.4.72.61;branch=z9hG4bK0f0a1affb70dc1ae0474ff5700^M
Server: Avaya CM/R015x.00.0.822.f^M
Contact:
<sip:
825030340@avaya.com
?User-to-User=00C81031323334353637383930313233343536F7020002%
3Bencoding%3Dhex>^M
Content-Length: 0^M
^M
```

A successful invocation is indicated by the User-to-User information for the `Contact` header.

2. The 302 Moved Temporarily method of NCR invocation is used for the before-answer case that applies within vector processing.

Failure of SIP NCR invocation in this case results in the stopping of vector processing.

3. To verify that the called number information associated with the NCR setup of the second call-leg is correct and to view the trunk-related denial events that are generated if the NCR fails, type the `list trace tac <trunk group number>` Switch Administration Terminal (SAT) command.
4. To view the behavior of a particular VDN or vector and to check NCR errors, type the `list trace vdn` and `list trace vector` SAT commands.
5. If NCR vector invocation by Call Vectoring has failed for previous calls, type the `display events` SAT command to obtain a real-time display of vector events that are logged for call redirection attempts.

The possible NCR vector events are:

- a. 68: Adj Route via NCR failed
- b. 311: Bad NCR trunk admin
- c. 312: NCR: No NCT service
- d. 316: NCR: NCT netwrk err
- e. 318: NCR: No service
- f. 319: NCR: invalid num
- g. 322: NCR: netwrk err
- h. 325: NCR: Internal system err
- i. 327: NCR: Caller not SIP trk

Agent mobility

For troubleshooting information about EC500, see the “Checkpoints and troubleshooting” chapter in the *Avaya Extension to Cellular User Guide Avaya Aura® Communication Manager* guide and the troubleshooting, installation and administration test and trouble-resolutions sections in the “Extension to Cellular” chapter in the *Avaya Aura® Communication Manager Feature Description and Implementation* guide.

Customer call is redirected to agent’s mobile phone voice mail

Condition

When Agent Mobility is configured an incoming call rings at the agent’s mobile phone if the agent does not answer the call at the deskphone. In this case the customer call might go to the agent’s mobile phone voice mail, if you have not appropriately configured the Redirection on No Answer (RONA) timer.

Solution

Do the following:

- Do not configure voice mail on the agent's mobile phone.
- Ensure that you use RONA in case of mobile agents. Set RONA to redirect the call before it reaches the maximum number of mobile phone rings after which the call is redirected to voice mail or some other redirect.

Chapter 3: Troubleshooting vectors

Criteria for success/failure of Call Vectoring commands

The following table summarizes the success and failure criteria for various vector commands.

*** Note:**

Skill replaces split if you enable Expert Agent Selection.

| Call Vectoring command success/failure criteria | |
|--|--|
| adjunct routing link | |
| Fails if any of the following is true: <ul style="list-style-type: none"> • VDN's COR does not permit routing to the adjunct-supplied destination • TAC/ARS/AAR code is invalid • Specified agent is not logged into the specified split for a direct agent call • Local extension is not in the dialplan • Invalid number was dialed | Stop any wait-time or announcement step (if present). Continue vector processing with the next sequential step. |
| Otherwise, succeeds | Route the call and provide feedback |
| announcement | |
| Fails if specified announcement is not administered, not recorded, or busied out. | Continue vector processing with the next sequential step |
| Otherwise, succeeds | Play the announcement, and continue at the next sequential step |
| busy | |
| Always succeeds. Central Office (CO) without answer supervision trunk callers will not hear the busy tone. | Exit vector processing, then play the busy tone for 45 seconds before dropping the call. (Unanswered CO trunk calls receive 45 seconds of ringback.) |
| check split | |

Table continues...

| Call Vectoring command success/failure criteria | |
|---|---|
| Fails if any of the following are true: <ul style="list-style-type: none"> • Vector conditional is false • Split's queue is full • Split is not vector-controlled • Call is already queued at the specified priority to the specified split • Call is already queued to three different splits | Continue vector processing with the next sequential step |
| Otherwise: | |
| Succeeds, and the call is terminated to an agent. | Exit vector processing, and pass control to call processing |
| Succeeds, and the call is queued or requeued in the specified split at the specified priority. | Continue vector processing with the next sequential step |
| collect digits | |
| Fails if any of the following are true: | |
| Call originates from an outside caller who is not using a touch-tone telephone | Call Prompting timer takes effect, command times out, and vector processing continues at the next vector step. |
| No TTR is in the system, or the TTR queue is full | Continue vector processing at the next step |
| Caller enters fewer digits than the maximum specified | Call Prompting timer takes effect, command is terminated, and any digits collected prior to the time-out are available for subsequent processing. |
| Otherwise, succeeds | Continue vector processing at the next step |
| consider locations | |
| Fails if any of the following are true: <ul style="list-style-type: none"> • No BSR application administered in active VDN • Location not administered in BSR application • Status Poll VDN number not administered in BSR application • Status Poll VDN number is invalid • Status Poll fails because all trunks are busy | Continue vector processing with the next sequential step |
| Otherwise: | |
| Succeeds, but takes no action if polling of specified location is suppressed. | Continue vector processing with the next sequential step |

Table continues...

| Call Vectoring command success/failure criteria | |
|--|--|
| Succeeds, and place status poll call to the status poll VDN. | Suspend vector processing until status poll response received |
| consider split | |
| Fails if any of the following are true: <ul style="list-style-type: none"> • VDN skill (1st, 2nd, 3rd) is used in consider step but not administered for active VDN. | Continue vector processing with the next sequential step |
| Otherwise: Succeeds, and the status of the local split is evaluated. | |
| converse-on split | |
| Fails if any of the following are true: <ul style="list-style-type: none"> • Converse split queue is full • Converse split is not vector-controlled • Auto-available split is in effect, and all agents are logged out by Redirection on No Answer (RONA) | Continue vector processing with the next sequential step |
| Otherwise: Succeeds, call is delivered to the converse split, and (if administered) digits are outpulsed to the VRU. The caller is connected to the VRU, the voice response script is executed, and (if necessary) digits are outpulsed to Communication Manager. | Continue vector processing with the next sequential step |
| disconnect | |
| Always succeeds | Play the announcement (if specified). Then drop the call |
| goto step and goto vector | |
| Fails if the step condition is not met. | Continue vector processing with the next sequential step |
| Succeeds if the step condition is met. | goto step - continue vector processing with the destination step goto vector - continue vector processing with the first non-blank step of the destination vector |
| messaging split | |
| Fails if any of the following are true: <ul style="list-style-type: none"> • Specified split is not a messaging-system split • Specified extension is invalid • Messaging split queue is full • Messaging split is not vector controlled and has no working agents (none logged in or all in AUX work mode) • Communications link with the messaging-system adjunct is inaccessible | Continue vector processing with the next sequential step |
| Otherwise, succeeds. | Terminate vector processing |

Table continues...

| Call Vectoring command success/failure criteria | |
|--|---|
| queue-to split | |
| Fails if any of the following are true: <ul style="list-style-type: none"> • Split's queue is full • Split is not vector-controlled • Call is already queued at the specified priority to the specified split • Call is already queued to three different splits | Continue vector processing with the next sequential step |
| Otherwise: | |
| Succeeds, and the call is terminated to an agent. | Exit vector processing, and pass control to call processing |
| Succeeds, and the call is queued or requeued in the specified split at the specified priority. | Continue vector processing with the next sequential step |
| reply best | |
| Fails if any of the following are true: <ul style="list-style-type: none"> • Incoming call is not ISDN or SIP • Incoming trunk group is not administered for shared UUI or for QSIG Supplementary Service | Drop the call |
| Otherwise: Succeeds and returns status data of best resource found in consider series. | Drop the call |
| return | |
| Fails if there is no return destination data stored for the call | Continues vector processing on the subsequent vector step. If this is the last step, the step is treated as a stop step. |
| Succeeds when there is return destination data | Returns to the calling vector |
| set | |
| Always succeeds If there is an invalid assignment, a vector event is generated | Continues to the next step with an invalid assignment or not |
| stop | |
| Always succeeds | Exit vector processing. Control is passed to normal call processing. Any queuing or treatment in effect remains in effect. Call is dropped if not queued. |
| wait time | |

Table continues...

| Call Vectoring command success/failure criteria | |
|---|--|
| Always succeeds | Connect the specified treatment and pass control to the delay timer. Any feedback is continued until other feedback is provided. |

Unexpected feature operations

The following table indicates and explains unexpected operations within Call Vectoring that you can encounter.

| Customer observations | Causes |
|---|--|
| <i>General Vector Processing</i> | |
| Vector stuck | 10,000 steps executed. No default treatment in the vector. |
| Audible feedback lasts longer than the delay interval | Last vector step. Queuing for an announcement. Queuing for a touch-tone receiver for a collect digits step. |
| <i>Look-Ahead Interflow (LAI)</i> | |
| Agent receiving phantom call | Agents on two different Communication Manager become available simultaneously. Include a short wait-time or announcement step at the beginning of the receiving Communication Manager. Use the interflow-qpos conditional. |
| Remote agent receiving phantom calls when vectoring uses qpos conditional | Interflow-qpos threshold is set too low. |
| No Look-Ahead Interflow attempts accepted | No trunks. Network failure. Insufficient FRL. |
| All Look-Ahead Interflow attempts accepted | LAI attempts are interworking off due to one of the following: Interworking off of the network. Receiving vector is not designed for conditional acceptance. Route-to command with coverage γ is used to interflow. Look-Ahead Interflow is not enabled at the receiving Communication Manager. |
| Look-Ahead DNIS name not displayed or no collected digits received | LAI IE or VDN Name, that is shared UUI , is not forwarding with call. Trunk group settings are not administered to support this data. |

Unexpected command operations

The following table indicates and explains the unexpected operations the customer can encounter when using the Call Vectoring commands.

| Customer observation | Cause |
|---------------------------------------|---|
| adjunct routing link | |
| Step skipped | <ul style="list-style-type: none"> • Invalid link extension • No trunks available • COR/FRL restricted • Time out. Application does not respond within the time specified in the <code>wait-time</code> command or within the time length of the recorded announcement. • Digit string inconsistent with networking translation • ASAI link down • Invalid route destination returned from adjunct |
| Busy tone | Busy local destination has no available coverage points |
| Network reorder or intercept | <ul style="list-style-type: none"> • The digit string supplied by the adjunct is inconsistent with public network translation • The digit string is inconsistent with the networking translation |
| Intercept or reorder tone is heard | Vector processing succeeded routing off Communication Manager, but a problem has occurred before routing to the final destination |
| All trunks are busy on a quiet system | Two Communication Manager treating each other as a backup Communication Manager |
| Step skipped | The Port Network (PN) link is down |
| | A variable represents an invalid number such as out of range or null. The variable is assigned the pound (#) sign character and an event is generated. |
| announcement | |
| Announcement not heard | <ul style="list-style-type: none"> • The announcement board is not present • The announcement is not administered • The announcement is not recorded • The announcement is being rerecorded • All ports are busied out • The announcement restore is in progress • The link to the announcement circuit pack is down |

Table continues...

| Customer observation | Cause |
|---|---|
| Extra delay before hearing announcement | <ul style="list-style-type: none"> • The announcement queue is full • All of the integrated announcement ports are busy • The analog announcement is busy |
| Vector processing stops | The analog announcement does not answer |
| Listening to silence after announcement | The announcement is the last step |
| Incomplete announcement | <ul style="list-style-type: none"> • The agent becomes available • The previous adjunct routing link step succeeds |
| busy | |
| Ringback heard instead of busy tone | Unanswered CO trunk |
| check | |
| Call does not enter queue or terminate to agent | Step condition not met |
| check and queue-to | |
| Call does not enter queue or terminate to agent | <ul style="list-style-type: none"> • Queue length specified on the Hunt Group screen has been exceeded • Invalid split • Split not vector-controlled • Already queued to three different splits • No queue • Queue or check status indicates space when queue is full due to direct agent calls • Best keyword is used but consider series is not defining best data |
| Call apparently answered in wrong order | <ul style="list-style-type: none"> • Call being re-queued at different priority • Call superseded by higher priority call, including direct agent call |
| Call is not routed to remote best location | No trunk available |
| collect digits | |

Table continues...

| Customer observation | Cause |
|---|--|
| Announcement not heard while waiting for digits, but network billing indicates that the call was answered | <ul style="list-style-type: none"> • Announcement board not present • Announcement not administered • Announcement not recorded • Announcement being rerecorded • All ports busied out • Announcement restore in progress • Dial ahead digit exists |
| Collect step and announcement skipped | <ul style="list-style-type: none"> • TTR not in system • Link to PN that has TTR is down • TTR queue full |
| Delay before hearing announcement | <ul style="list-style-type: none"> • All TTR ports busy, but space in queue • Announcement queue full • All integrated announcement ports busy • Analog announcement busy |
| Vector stuck | Analog announcement does not answer |
| Dial-ahead digits not recognized | <ul style="list-style-type: none"> • Dial-ahead digits entered prior to first collection step • Call transferred • LAI attempt made • TTR released • 24 digits already provided • Call Prompting time-out since the last digit was entered |
| Vector processing halted at collect step. Announcement heard again upon return. | Call put on hold, transferred, or conferenced |
| Insufficient digits collected. Call routed to intercept. | <ul style="list-style-type: none"> • Caller dialed the pound (#) sign too soon • Caller dialed "*" without reentering correct digits • Call Prompting inter-digit time out |
| Caller information button denied | <ul style="list-style-type: none"> • No digits were collected • Display not in Normal mode |
| Collect announcement not heard and first collected digit incorrect | System does not contain all TN748C Vintage 5 or later circuit packs |
| Incomplete announcement | <ul style="list-style-type: none"> • Agent becomes available • First digit dialed |
| consider | |

Table continues...

| Customer observation | Cause |
|--|---|
| Local split/skill best (in primary vector or status poll vector) | If split or skill number is correct, split or skill has no agents logged in, no queue slots available, or all agents are in the Aux Work mode |
| Remote location is never best | No BSR application plan assigned to Primary VDN. Location number not assigned in application plan. Missing routing number for Status Poll VDN. No vector assigned to Status Poll VDN. Step in Status Poll vector is initializing best data before reply-best step. |
| A step is skipped | A variable represents an invalid number, such as out of range or null and an event is generated |
| converse-on split | |
| VRU script not executed | Queue full. No queue. Invalid split. Split not vector-controlled. VRU down. |
| Ani digits not passed | ANI not available |
| Qpos digits not passed | Call not queued to a non-converse split |
| No data returned from VRU | No TTRs available |
| VRU script terminated prematurely | Agent becomes available. VRU script attempted to transfer the call. |
| Wait digits not passed | Call not queued or no working agents in splits where call is queued. |
| disconnect | |
| Announcement not heard | <ul style="list-style-type: none"> • Announcement board not present • Announcement not administered • Announcement not recorded • Announcement being rerecorded • All ports busied out • Announcement restore in progress |
| Extra delay | <ul style="list-style-type: none"> • Announcement queue is full • All integrated announcement ports busy • All analog announcements busy |
| Vector stuck | Analog announcement does not answer |
| goto step | |
| Branch is not made to the specified step | <ul style="list-style-type: none"> • Step condition not met • System time not set |
| goto vector | |
| Branch is not made to the specified vector | Step condition not met |
| Vector stuck | Goto vector with no steps or with all failed steps |
| messaging | |

Table continues...

| Customer observation | Cause |
|--|---|
| Vector stuck with ringback | A variable represents an invalid number such as out of range or null. The variable is assigned the pound (#) sign and an event is generated. |
| messaging split | |
| Vector stuck with ringback | Extension unknown to the messaging system |
| Step skipped, no message left | <ul style="list-style-type: none"> • Messaging-system link is down • DCS link to the remote messaging system is down • All DCS trunks busy • Queue for messaging-system voice ports is full |
| Vector stuck with busy tone | Remote messaging-system link down |
| Messages not found | Message extension is none. Message is left for VDN that accessed the vector. |
| Delay before messaging-system answers | All messaging-system ports are busy, but there is space in the queue |
| Busy tone | Queue for the messaging-system voice ports is full |
| Step skipped | Split not a messaging-system split anymore |
| reply-best | |
| Status poll VDN/vector not processing any calls | Incoming call not ISDN or SIP. No application plan defined for BSR application. Status Poll VDN routing number missing from or wrong in application plan. |
| route-to | |
| Step skipped | <ul style="list-style-type: none"> • Invalid local extension • No trunks available • COR/FRL restricted • Digit string inconsistent with networking translation • Busy local destination (route to digits without coverage and route to number) • No digits collected • Step condition not met |
| Network reorder | Digit string inconsistent with public network translation |
| Intercept or reorder tone heard | Vector processing succeeded routing off Communication Manager, but a problem has occurred before routing to its final destination |
| All trunks busy on a quiet system | Two Communication Manager treating each other as a backup Communication Manager. |
| set | |
| A variable or digits buffer is assigned the pound (#) sign | In an arithmetic operation, the pound (#) sign signifies an invalid value, an overflow value, or an underflow value. |
| stop | |

Table continues...

| Customer observation | Cause |
|--|--|
| Call dropped | Call not queued when vector processing stops |
| wait-time | |
| Audible feedback longer than delay interval | <ul style="list-style-type: none"> • Queuing for an announcement or for a TTR • Stop command executed |
| Audible feedback shorter than delay interval | <ul style="list-style-type: none"> • Agent becomes available • Previous adjunct routing link step succeeds |
| Music not heard | <ul style="list-style-type: none"> • No music port administered • Music source disconnected or turned off |
| Alternate audio or music source not heard | <ul style="list-style-type: none"> • Announcement board not present • Audio or music source not administered • Audio or music source not recorded • Audio or music source being rerecorded • All ports busied out • Announcement restore in progress |

Converse-on command debugging

| Symptom | Cause | Analysis |
|-----------------------------------|---|---------------------------------|
| <i>Making a call</i> | | |
| Converse-on step skipped | VRU down (RONA) | Vector event |
| | Split queue full | Vector event |
| Call stuck in converse | VRU port does not answer, RONA not used | Check split administration |
| | VRU down, RONA leaves call in queue | Check split status |
| <i>Data passing</i> | | |
| First set of digits not collected | Converse first delay too short | Check administration |
| | No ANI available | Vector event |
| | No digits collected | Vector event |
| | Call not queued (qpos) | Vector event |
| | Expected Wait Time unavailable | Vector event |
| | VRU timed out awaiting first digit | VRU error log/trace |
| | VRU first digit time-out too short | Check VRU script |
| | — | Check converse first data delay |

Table continues...

| Symptom | Cause | Analysis |
|---|---|---|
| | Faulty hardware | Diagnostics |
| Second set of digits not collected | VRU digit count on first prompt in VRU script does not include the pound (#) sign | Check VRU script |
| | Converse second delay too short | Check administration |
| | No ANI available | Vector event |
| | No digits collected | Vector event |
| | Call not queued (qpos) | Vector event |
| | Expected Wait Time unavailable because call is not queued or the splits/skills that the call is queued to are not staffed | Vector Event |
| | VRU timed out awaiting first digit | — |
| | VRU error log/trace | — |
| | VRU first digit time-out too short | Check VRU script. Check converse second data delay |
| | Inter-digit time-out too short on first prompt and collect | Check VRU script |
| | Faulty hardware | Diagnostics |
| Digits incomplete | Converse data delay too short. | Check administration |
| | Faulty hardware | Diagnostics |
| Second set of digits is the same as the first digits passed | VRUs first prompt timed out | Check administration |
| | Faulty hardware | Diagnostics |
| <i>Data return</i> | | |
| No digits returned to Communication Manager | Flash not recognized by Communication Manager | VRU error log or trace |
| | | Check flash timing on VRU |
| | Converse data return FAC not administered | Check administration |
| | VRU does not return FAC | VRU script. Transfer attempt vector event |
| | VRU returns incorrect FAC | VRU script. Transfer attempt vector event |
| | Digit time-out during FAC | Transfer attempt event |
| | Converse data return FAC overlaps with other entries in the dial plan | Check dial plan |
| Faulty hardware | Diagnostics | |
| Not all digits returned to Communication Manager | Digit time out after FAC | None unless VRU logs being dropped by Communication Manager |
| | Overflow of Call Prompting buffer | Vector event |

Table continues...

| Symptom | Cause | Analysis |
|--------------------------------|--|--|
| | Faulty hardware | Diagnostics |
| Collect announcement not heard | Too many digits returned by VRU. | Check VRU script |
| | Faulty hardware | Diagnostics |
| <i>Vector events</i> | The <i>agent</i> variable is used with the converse-on command in non-VDN Return Destination (VRD) vectors. | Check that the <i>agent</i> variable is used as a converse-on operand in VRD vectors. |

Tracking unexpected events

When you have corrected each problem, you can clear events from the error log. An event is an error that results from resource exhaustion, from faulty vector programming, or from incorrect user operation rather than from the Communication Manager software error. For example, failures involving the **route-to** command are usually due to entry of an invalid extension.

By displaying events, you can diagnose and correct each problem, as indicated by its corresponding event number, and eliminate the need for a technician to make on-site visits to do the same.

How to view an event criteria

Use the **display events** command to access the EVENT REPORT screen. Specify the event report criteria.

```

display events                                     Page 1 of 1   SPE B
                                     EVENT REPORT

The following options control which events will be displayed.

EVENT CATEGORY
    Category: meetme

REPORT PERIOD
    Interval: a      From:  /  /  :  To:  /  /  :

SEARCH OPTIONS
    Vector Number:
    Event Type:
    Extension: 36090

```

The following table describes the fields used with the **display events** command.

| Field name | Description |
|------------|---|
| Category | Enter denial, meetme, vector, or all to specify the type of event to display. |

Table continues...

| Field name | Description |
|---------------|--|
| Interval | Select the time period to display events. Enter h (hour), d (day), w (week), m (month), or a (all). |
| From/To | Enter the date and time of day to start and end the search. |
| Vector Number | Enter a specific vector number to report on. The field is ignored when the Category field is set to <code>meetme</code> . |
| Event Type | Enter a specific event type to report on. If this field is blank, events for all types are reported. |
| Extension | Enter a specific extension or VDN to report on. If this field is blank, events for all extensions are reported. |

How to view an event report

After you have entered the report criteria, press **Enter**. The following screen shows examples of events.

```
display events
```

| EVENT REPORT | | | | | | |
|--------------|---------------------------|--------------|--------------|-------------|-------------|----------|
| Event Type | Event Description | Event Data 1 | Event Data 2 | First Occur | Last Occur | Evnt Cnt |
| 90 | Wait step music failed | 3/1 | 2A2 | 02/12/15:42 | 02/13/09:40 | 255 |
| 112 | Converse no prompt digits | 3/2 | 2A2 | 02/12/15:42 | 02/13/09:40 | 255 |
| 56 | Call not in queue | 8/1 | 28B | 02/12/15:43 | 02/13/09:40 | 255 |
| 220 | EWT call not queued | 8/2 | 28B | 02/12/15:43 | 02/13/09:40 | 255 |
| 150 | Invalid hunt group | 8/3 | 28B | 02/12/15:43 | 02/13/09:40 | 255 |
| 56 | Call not in queue | 8/5 | 28B | 02/12/15:43 | 02/13/09:40 | 255 |

The following table describes the information displayed in the event report.

| Column | Description |
|-------------------|--|
| Event Type | Displays a unique number that identifies the type of event that occurred. |
| Event Description | Displays a brief explanation of the event. |
| Event Data 1 | Displays the following data: <ul style="list-style-type: none"> • <number1>/<number2>, for example, 12/5, where “<number1>” is the vector number associated with the vector event and where “<number2>” is the step number associated with the vector event. • Split<number>, for example, split 89, where “<number>” is the split number associated with the vector event. • For Meet-me Conference events, this is the port ID of the user associated with the event. |
| Event Data 2 | Displays the following data: <ul style="list-style-type: none"> • Additional data encoded as a hex number, for example, 4C. This number serves as a call identifier. If more than two events with an identical identifier occur at the same time, the events are caused by the same call. • For Meet-me Conference events, this is the VDN of the Meet-me Conference used during the event. |

Table continues...

| Column | Description |
|------------------------|--|
| First Occur/Last Occur | Displays the date and time the event first occurred and the date and time the event last occurred. |
| Evnt Cnt | Displays, up to 255, the total number of vector events of this type that have occurred. |

Vector events

The following table provides a list of events, a brief description that displays on the screen, and an explanation of the event.

| Event type | Event description | Explanation |
|------------|--|---|
| 1 | Call dropped. Call not queued at the stop step. | Vector processing ended without the call being queued to a split and, as a result, the call cannot be answered. Some default condition was not programmed or that the vector was designed to not always answer the call. Also, call was subsequently dropped. |
| 2 | Vector with no steps | The call encountered a vector with no steps administered. |
| 3 | 10,000 step executed | <ul style="list-style-type: none"> • Incorrect vector programming, for example, including a series of goto steps that point to one another. • Excessive repetition of a programmed loop during a single call. For example, recurring announcement-wait loop. |
| 4 | Administration change | The administration of this step occurred while the step was being executed. The call flow for this call is unpredictable. Do not change vectors when calls are active. |
| 5 | Call dropped by vector disconnect timer | The call was still in vector processing when the vector disconnect timer expired. The call dropped. |
| 7 | Attd Vec Mismatch-VDN/Vec | There is a mismatch between Attendant Vectoring and Call Vectoring between the VDN and the vector. |
| 9 | Attd Vec Mismatch-CR/Vec | There is a mismatch between Attendant Vectoring and Call Vectoring between the incoming call and the vector. |
| 10 | Retrying announcement | During an announcement step, a collect digits step that contains an announcement, or a disconnect step, the announcement was not available, and the announcement queue was full. The step is retried at regular intervals. |

Table continues...


| Event type | Event description | Explanation |
|------------|---------------------------|---|
| 11 | No announcement available | <p>During an announcement step, a collect digits step that contains an announcement, or a disconnect step, the announcement was not available for one of the following reasons:</p> <ul style="list-style-type: none"> • Announcement was not recorded. • Analog announcement was busied out. • Integrated announcement board was not installed. • Integrated announcement ports were busied out. • Integrated announcement was being recorded or restored. |
| 20 | Call cannot be queued | <p>A queue-to split, messaging split, or check split command failed to queue the call.</p> <p> Note: Event types 520, 521, 522 and 541 can be observed for the same call at the same time.</p> |
| 21 | Queued to three splits | <p>The call attempted to queue to four splits. Multiple split queuing allows the call to queue to a maximum of three splits simultaneously. If the call queued to more than one splits and if the call must now be dequeued from the splits and then queued elsewhere, one solution is to route the call to a station, which can be administered without hardware. Once this happens, the call is forwarded to the VDN that controls the next stage of the call.</p> |
| 22 | Attd Vec: Cannot requeue | <p>Applies to Attendant Vectoring and indicates that the call is in the attendant queue and another attempt is made to queue the call to an attendant or hunt group, or the call is in the hunt group queue and an attempt is made to queue the call to an attendant or too many attempts are made at queuing to the hunt group.</p> |
| 30 | No TTR available | <p>A collect digits command failed because:</p> <ul style="list-style-type: none"> • TN744 port is not available. • All queue slots are occupied. |
| 31 | Dial-ahead discarded | <p>Previously entered dial-ahead digits are discarded using access of an adjunct routing link, converse-on, route-to number, or messaging split step.</p> |
| 32 | Prompting buffer overflow | <p>The prompting digit buffer already has the maximum of 24 digits when additional dial-ahead digits are entered by the caller. The additional digits are not stored.</p> |
| 33 | ced digits left behind | <p>A collect ced digits step collected digits from a UEC IE and more than 16 digits are sent from the network.</p> |
| 34 | cdpd digits left behind | <p>A collect cdpd digits step collected digits from a UEC IE and more than 16 digits are sent from the network</p> |

Table continues...



| Event type | Event description | Explanation |
|------------|-----------------------------------|--|
| 35 | ced digits not available | A <code>collect ced digits</code> step collected digits from a UEC IE and no digits are sent from the network, or no digits are present in the UEC IE. |
| 36 | cdpd digits not available | A <code>collect cdpd digits</code> step collected digits from a UEC IE and no digits are sent from the network, or no digits are present in the UEC IE. |
| 37 | collect digits for variable error | <ul style="list-style-type: none"> Failed to put the local variable value in the local linked list of collect variables for the call. This implies that the system variable limit is reached. Failed to put the global variable value in the Variables for Vectors table due to messaging issue with Communication Manager. Unknown or invalid variable type defined in the <code>collect</code> vector step. |
| 38 | Variable not defined | <ul style="list-style-type: none"> The variable conditional that is tested is not defined in the Variables for Vectors table. A command or the messaging extension contains a variable with an invalid value of <code>none</code> or <code>#</code>. An <code>agent</code> variable is used with the <code>converse-on</code> command in non-VDN Return Destination (VRD) vectors. |
| 39 | Invalid table number | A variable used as a table entry has an invalid assignment. |
| 40 | Messaging step failed | <p>A messaging step failed because the Messaging Adjunct is not available.</p> <p> Note: Event types 540 and 541 are observed for the same call at the same time.</p> |
| 41 | Messaging ext invalid | The messaging extension contains a variable with an invalid value of <code>none</code> or <code>#</code> . Vector event 38 is also generated. |
| 50 | Route -to step failed | <p>A <code>route-to</code> step failed to reach the intended destination.</p> <p> Note: Event types 51 and 52 provides specific information regarding the reason for the failure.</p> |

Table continues...

| Event type | Event description | Explanation |
|------------|---------------------------|---|
| 51 | No digits to route-to | The route-to digits step is unable to route the call because the previous collect digits step failed to collect any digits. This can result from an error in vector programming, for example, a route-to digits step appears without a preceding collect digits step. More often, however, this results because the caller is unable to enter the required digits, that is, the caller is using a rotary telephone, or because the caller is not provided with enough information to do so, as can be the case for auto-attendant applications. |
| 52 | No available trunks | A route-to command is unable to reach the specified off-switch destination due to a lack of available trunks. |
| 53 | Route-to step failed | The step is unable to seize a trunk because of a hardware problem or glare. |
| 54 | LAI retry | Look Ahead Interflow route-to step failed because of glare. The route is retried once. |
| 55 | Triple coverage attempt | Coverage option on route-to step is ignored because triple coverage is not allowed. This can happen when the call has covered to a VDN. |
| 57 | Deny vector-initiated MSO | The vector cannot add an observer because SRVOBS_MAX=2 is reached. |
| 58 | Deny observing observer | The vector cannot observe the agent because the vector is already an observer. |
| 59 | Variable invalid value | The adjunct route link ID for GAZ (1-8) or MIPSLX (1-64) is invalid. |
| 60 | Adjunct route failed | An adjunct route failed for one of reasons indicated in event types 61 through 66. |
| 61 | Invalid destination | The adjunct routing link command returned digits that do not represent a valid destination. |
| 62 | Adjunct route cancelled | The adjunct routing link step is cancelled because another routing step such as a queue-to split step, is encountered in the vector. |
| 63 | Queue before route | The adjunct routing link command is skipped because the call has already queued using a queue-to split or a check split command. |
| 64 | Adjunct link error | The adjunct routing link command is cancelled due to the following reasons: <ul style="list-style-type: none"> • Link to the adjunct is down. • ASAI protocol violation prevents call completion. • Software resources to complete the call are unavailable. |

Table continues...

| Event type | Event description | Explanation |
|------------|---------------------------|---|
| 65 | Agent not logged in | A direct agent call is made to an agent who is not logged in to the relevant split. Used for adjunct routing request only. |
| 66 | Agent not member of split | A direct agent call is made to an agent who is not a member of the relevant split. Used for adjunct routing request only. |
| 67 | Invalid direct agent | A direct agent call is made to an invalid agent extension. Used for adjunct routing request only. |
| 68 | Adj route via NCR failed | NCR routing failed and a tandem trunk-to-trunk routing cannot be done. |
| 69 | Adj rte fail-link not adm | The adjunct route link ID is within range but not administered. |
| 70 | Busy step for CO trunk | A CO trunk call reaches a busy step in a vector without having previously received answer supervision. As a result, the caller continues to hear ringback rather than the busy tone. |
| 80 | Time not set | A goto step with a time-of-day conditional is processed, but the Communication Manager time is not set. |
| 81 | No digits collected | No digits are collected and a comparison is requested against a digit string or in-table. The comparison test is false and the next step in the vector is executed. |
| 83 | Service-hours table empty | The service-hours table is empty. The table must be administered. |
| 90 | Wait step music failed | A wait-time step with music is accessed, but music is not connected. Check if music is administered correctly. |
| 91 | Wait step ringback failed | A wait-time step with ringback is accessed, but ringback is not connected. |
| 100 | Redirect unanswered call | The call is sent to an agent using a vector, but due to RONA, the call is redirected. |
| 101 | Redirect of call failed | The call is sent to an agent using a vector, but due to RONA, the call was redirected. The call is not be redirected. |
| 110 | Converse no ANI digits | On a converse-on step with passing type <i>ani</i> , no information is available to populate the field. |
| 111 | Converse no qpos digits | On a converse-on step with passing type <i>qpos</i> , no information is available to populate the field. |
| 112 | Converse no prompt digits | On a converse-on step with passing type <i>digits</i> , no information is available to populate the field. |
| 113 | Converse drop during data | On a converse-on step, the converse agent hangs up while data is being passed. This can indicate a port failure. |
| 115 | ASAI transfer converse | ASAI attempts transfer of a call that is active at a converse step. The transfer fails and vector processing continues at the next vector step. |

Table continues...

| Event type | Event description | Explanation |
|------------|--|--|
| 116 | Converse transfer denied | Transfer of a call that is active at a converse-on step is attempted. The transfer either fails or is denied, and vector processing continues at the next vector step. |
| 117 | Agent drops converse | While active on a converse-on step, an agent became available in a split associated with a queue-to split or check split step. The call is delivered to the non-converse agent and the converse agent is dropped. |
| 125 | Data return no digits | On a converse-on step, the converse agent activated data return but did not return any digits. |
| 126 | Data return time-out | On a converse-on step, the converse agent activated data return but timed out while waiting to return digits. Vector processing continued at the next vector step. |
| 140 | Coverage conference denied | Coverage to a VDN in a coverage path is denied because more than one party is active on the call. |
| 150 | Invalid EAS hunt group used in the vector step | Either the skill hunt group is removed or is a non-ACD hunt group. |
| 151 | Skill indirection used improperly | Either no VDN skills are administered or the vector command has skill indirection and EAS is not enabled. |
| 160 | No vector steps, ANI sent | ANI is sent to CMS for a call that reached a VDN that accessed a vector with no steps defined. |
| 161 | uui sent to CMS, but there were no steps in the vector | A call is directed to a VDN associated with a vector that has no steps. |
| 170 | ASA - invalid VDN | A check or goto test requested a comparison of ASA for a VDN that has been removed since the vector was programmed. The comparison test is false and the next step in the vector is executed. |
| 200 | ANI not avail - digits | A goto test requested a comparison of ANI against a digit string and ANI is not available for the call. The comparison test is false and the next step in the vector is executed. |
| 210 | Routing table not assigned | A goto test requested a comparison with a vector routing table that is not assigned or is removed since the vector was programmed. The comparison test is false and the next step in the vector is executed. |
| 211 | No entries in routing table | A goto test requested a comparison with a vector routing table that has no entries. This is a non-match. |
| 212 | ANI not avail - table | A goto test requested a comparison of ANI against in-table and ANI is not available for the call. The comparison test is false and the next step in the vector is executed. |
| 213 | No digits in variable | In-table is administered, but the variable does not contain any digits on which to search. |

Table continues...

| Event type | Event description | Explanation |
|------------|--------------------------------------|---|
| 220 | EWT call not queued | A goto test for a call or converse data passing requested EWT for a call not in queue. In this case, the wait time is treated as infinite and the comparison is based on EWT > largest possible threshold. |
| 221 | EWT not sent to VRU | The EWT wait time for the call is not sent to the VRU for a converse-on passing wait vector step because the call is not queued or the splits/skills that the call is queued to is unstaffed. |
| 222 | System clock change | The system clock has changed, therefore any calculations involving time, that is, ASA and EWT is inaccurate. |
| 230 | II-digits not avail - digits | A goto test requested a comparison of II-digits against a digit string and II-digits are not available for the call. The comparison test is false and the next step in the vector is executed. |
| 231 | II-digits not avail - table | A goto test requested a comparison if II-digits against in-table and II-digits are not available for the call. The comparison test is false and the next step in the vector is executed. |
| 240 | No agent strategy found in VDN | The active VDN for the call, as determined by VDN override, does not have a BSR Available Agent Strategy. |
| 251 | Call is not incoming ISDN | Occurs when a reply-best command in a status poll vector receives and tries to process a non-ISDN call. Processing in the status poll vector terminated is without a reply being sent. |
| 261 | No best location found | A queue-to best , check-best , or reply-best command fails because the call vector is unable to calculate a best value or because no local best exists. Vector processing continues at the next step. Vectors in multisite BSR applications do not attempt to interflow calls. |
| 262 | LAI attempt failed | Interflow of the call fails since: no trunk was available, LAI denial, or some other problem. Vector processing continues at the next step. In BSR applications, polling of this resource is temporarily suppressed. |
| 271 | No BSR app num in VDN | A queue-to best , check-best , or consider location command fails because the active VDN for the call as determined by VDN override has no BSR application number assigned. Processing continues with the next vector step. Only occurs in multisite BSR applications. |
| 272 | No BSR application plan administered | A queue-to best , check best , or consider location command fails because the application number assigned to the active VDN does not have an application plan assigned. Processing continues at the next step. |
| 273 | Location not on BSR screen | A consider command fails because the command refers to a location number that is not in the BSR Application screen assigned to the active VDN. Vector processing continues at the next step. |

Table continues...

| Event type | Event description | Explanation |
|------------|--------------------------------|--|
| 274 | Status Poll VDN field is blank | A consider command fails because the entry for this location on the BSR Application screen does not contain a routing number for the status poll VDN. |
| 275 | Interflow VDN field is blank | A queue-to best or check-best command fails because the entry on the BSR Application screen for the relevant location does not contain a routing number for the interflow VDN. |
| 276 | Agent status info invalid | A consider location command fails because the status poll returns invalid data for an available agent (AIT, skill level, or occupancy is missing or out of range). Vector processing continues at the next step. Polling of this location is temporarily suppressed. |
| 277 | BSR status info invalid | A consider location command fails because the status poll returns invalid EWT data. Vector processing continues at the next step. Polling of this location is temporarily suppressed. |
| 278 | No BSR data in response | A consider location command fails because the status poll does not return data in the DISCONNECT message. Vector processing continues at the next step. Polling of this location is temporarily suppressed. |
| 279 | No response from status poll | A consider location command fails because the status poll does not respond within the time allowed or because the status poll cannot be performed. Vector processing continues at the next step. Polling of this location is temporarily suppressed. |
| 280 | Bad resp from status poll | A consider location command fails because the command receives an invalid response from the status poll such as an LAI acceptance message (ALERT or CONNECT). Vector processing continues at the next step. Polling of this location is temporarily suppressed. |
| 281 | BSR EWT is infinite | A consider command fails because the EWT for the referenced split or skill is infinite. This can be because all agents are logged out, in the Aux work mode, or because no queue slots are available. Vector processing continues at the next step. Polling of this location is temporarily suppressed. |
| 282 | BSR status poll attempt failed | A consider location command fails because the status poll attempt failed. See other events for the specific reason. Vector processing continues at the next step. Polling of this location is temporarily suppressed. |
| 283 | BSR poll no trunks | A consider location command fails because there are no available trunks. Vector processing continues at the next step. Polling of this location is temporarily suppressed. |

Table continues...

| Event type | Event description | Explanation |
|------------|------------------------------------|---|
| 284 | BSR poll seize fail | A consider location command fails because the status poll is unable to connect to a trunk due to a hardware problem. Vector processing continues at the next step. Polling of this location is temporarily suppressed. |
| 285 | BSR poll glare retry | The first status poll attempt for a consider location command is unable to connect to a trunk due to a race condition. The same trunk being seized for the outgoing call has an incoming call from the remote end. This status poll is attempted once more. A second attempt failure results in event 282. |
| 287 | Invalid status polling destination | An attempt is made to perform BSR polling over ISDN without B-Channel over a tandem trunk configuration that combines QSIG TSCs and AT&T TSCs. Avaya's ISDN protocol does not support this type of interworking. |
| 288 | BSR Poll: TSC not administered | The Trunk Group screen does not contain a trunk member administered for purposes of TSC. |
| 289 | BSR: Adjust-by invalid | The consider location adjust by command contains a variable with an invalid value of <code>none</code> or <code>#</code> . Vector event 38 is also generated. |
| 291 | BSR: Location invalid | The consider location command contains a variable with an invalid value of <code>none</code> or <code>#</code> . |
| 291 | No AITCI storage left | No longer used. |
| 292 | Data dropped by other app | The network does not support the transport of all user data, so some user data is not sent. You can prioritize the user data on the Shared UI Feature Priorities page of the Trunk screen. For more information, see <i>Avaya Aura® Call Center Elite Feature Reference</i> . |
| 293 | No room for reply-best information | The network or shared trunk setting does not support the transport of all data for the best resource. This is unlikely under normal circumstances since only 12 bytes of user information are required. Also see event 298. |
| 294 | No room for in-VDN time | The network does not support the transport of all user data. You can prioritize the user data on the Shared UI Feature Priorities page of the Trunk screen. For more information, see <i>Avaya Aura® Call Center Elite Feature Reference</i> . |
| 295 | No room for collected dgt | |
| 296 | No room for VDN Name | |
| 297 | No room for other LAI | |
| 298 | Reply-best got bumped | |
| 299 | In-VDN time got bumped | The network does not support the transport of all user data. You can prioritize the user data on the Shared UI Feature Priorities page of the Trunk screen. |
| 300 | Collected dgts got bumped | |
| 301 | VDN Name got bumped | |

Table continues...

| Event type | Event description | Explanation |
|------------|---|---|
| 302 | Other LAI got bumped | For more information, see <i>Avaya Aura® Call Center Elite Feature Reference</i> . |
| 303 | Block: send reply-best | The transport of the best data for a reply-best command is denied because the trunk group is neither supplementary service b nor shared UUI . |
| 304 | No enhanced info is sent | During the execution of a queue-to best or check best steps, information forwarding transport over the trunk is denied because the trunk group is neither supplementary service b nor shared UUI . This event is not logged for LAI, for example, in execution of a route-to step, in order to permit backward compatibility. |
| 305 | A BSR local treatment vector pulled a remotely queued call back to the local switch to route it elsewhere | If a queue-to best step is followed by steps that use commands other than announcement , wait , or goto , the trunk to the remote queue is dropped. This functionality can be exploited to allow the local server to take back calls that are interflowed to a remote location after a specified time limit is exceeded. To implement this strategy, a wait step with a specified time interval is included in the interflow vector on the local server, followed by more than one route-to step that redirects the call to an alternate call center locations. |
| 310 | NCR: Invoke trunk not ISDN | Check that only ISDN trunks are executing the vector steps where NCR is being invoked. |
| 311 | Bad NCR trunk admin | Check that all Trunk Group screen and Signaling Group screen fields related to the NCR feature are correct. |
| 312 | NCR: No NCT service | Check that the service provider has activated the NCT feature for the trunk being used for NCT call redirections. |
| 313 | NCR: No NCT outgoing trk | Check that the trunk group is administered as a two-way trunk group and that the Usage Allocation settings for the trunk have been set up correctly. |
| 314 | NCR: NCT outgo trk drop | Shows that the second leg of the NCT call is dropped due to a trunk hardware problem, or that a vector step is executed that returned and ISDN DISCONNECT message such as a busy vector step. |
| 315 | NCR: PSTN NCT invoke err | The PSTN switch has not accepted the NCT invocation attempt. Check that the PSTN network switch complies with the NCT standards. |
| 316 | NCR: NCT netwrk err | Communication Manager has accepted the NCT invocation attempt, but has rejected it due to some error condition within the network Communication Manager. Check that the Network Call Redir field on the Trunk Group screen is administered correctly. Make a request to the service provider for troubleshooting assistance. |

Table continues...

| Event type | Event description | Explanation |
|------------|---------------------------|--|
| 317 | NCR: Used NCT trk-to-trk | NCT has not been successfully invoked, but the incoming call is still active as a switch trunk-to-trunk connection, this is, only an informational message. |
| 318 | NCR: No NCD service | Check that the service provider has activated the NCD feature for the trunk being used for NCD call redirections. |
| 319 | NCR: invalid nmbr | Communication Manager has detected that the number used for the NCR invocation that is administered in the ~r route to number vector step or in the BSR Application Table's VDN Interflow Number field is an invalid number, the correct number used through Communication Manager administration. |
| 320 | NCR: NCD call connect err | The vector step is executed before the vector step invoking NCD that sends an ISDN CONNECT message to the PSTN. |
| 321 | NCR: PSTN NCD invoke err | The PSTN has not accepted the NCD invocation attempt. Check that the PSTN network switch complies with the NCD standards. Make a request to the PSTN service provider for troubleshooting assistance. |
| 322 | NCR: netwrk err | Communication Manager has accepted the NCD invocation attempt, but has rejected it due to some error condition within the network Communication Manager. Make a request to the service provider for troubleshooting assistance. |
| 323 | NCR: PSTN NCD max redirs | PSTN has detected that the call is redirected by NCD more than the public network maximum number of call deflections limit allows. Modify vector processing to reduce the number of NCD attempts. |
| 324 | NCR: PSTN NCD no disc | The PSTN switch has not disconnected the trunk after performing the NCD or NCT call redirection. Make a request to the PSTN service provider for troubleshooting assistance. |
| 325 | NCR: Internal system err | Communication Manager problem with call processing for the NCR invocation attempt. Alternately, for NCT, the first vector step at the redirected-to endpoint is possibly not programmed with a call treatment vector step such as wait hearing ringback, wait hearing music, or announcement. Do not use vector steps such as wait hearing silence or wait hearing i-silence, for the first vector step at the redirected Communication Manager endpoint. |
| 326 | No ETSI ECT linkID | The PSTN switch has returned a FACILITY message to the local Communication Manager that includes the following reject component: LinkIDNotAssignedByNetwork. In this case, the local Communication Manager leaves the calls in a trunk-to-trunk transfer state. |
| 327 | NCR: Caller not SIP trk | Check that only SIP trunks are executing the vector steps where NCR is being invoked. |

Table continues...

| Event type | Event description | Explanation |
|------------|--------------------------------|---|
| 350 | No return destination | The return command fails and continues to the next step because no return destination data exists for the call. |
| 351 | Results Truncated | A set command executed with operator CATL or CATR. The result is truncated because it is higher than 16 digits. |
| 352 | Negative Result | A set command attempts to execute. A negative result is converted to # (underflow) during the processing. |
| 353 | Divide by Zero | A set command attempts to execute with operator DIV. The operation specified by operand 2 divided by zero and results in a # (underflow) assignment. |
| 354 | Assignment not allowed | <ul style="list-style-type: none"> A set command attempts to execute. The assignment field contains an invalid system-assigned variable. The variable is invalid because the variable is not a user-assigned variable or a digits buffer. The <i>ASAIUII</i> can only be set with the contents of the <i>agent</i> variable in VRD vectors. |
| 355 | Can't set, no lcl var | A set command attempts to assign a value to a user-assigned variable when the 8000 system limit is reached. |
| 356 | Return destination stack error | A goto vector command is executed with a full return destination stack for the call. The return destination is not saved. |
| 357 | Operand Overflow Underflow | A set command attempts to execute with operator ADD, SUB, MUL, or DIV. One of the operands has a # value or a value greater than 4294967295. |
| 358 | Overflow Error | <p>A set command executes and obtains one of the following results:</p> <ul style="list-style-type: none"> A value greater than 4294967295 with a ADD or MUL operator. A number assigned to a variable from an arithmetic operation has exceeded the length definition. <p>For example: set A = none ADD 1000</p> <p>If variable A is defined as having a length of 3, A is set to # and this vector event is generated.</p> |
| 374 | Suspend vectors in ovid | When the processor occupancy of Communication Manager exceeds 92.5%, the system suspends processing of vectors for 6 seconds. The system rechecks the processor occupancy and if the processor occupancy has still not reduced, the system continues to suspend processing of vectors after every 6 seconds. |
| 375 | Resume vectors after ovid | When the processor occupancy of Communication Manager reduces to below 92.5%, the system resumes processing of vectors. |

Table continues...

| Event type | Event description | Explanation |
|------------|-----------------------------|---|
| 520 | Split queue is full | A queue-to split , check split , or messaging split command is executed, but the call did not queue to the split because the queue is full. To prevent this condition, use a “goto step...if calls queued in split...>...” before each queue-to split or check split step so that an alternative treatment can be provided for such cases. |
| 521 | Not vector-controlled | The split accessed by a queue-to split or check split command is not vector-controlled. As a result, the step is skipped. |
| 522 | AAS split cannot queue | A queue-to split , check split , or messaging split command is executed on an AAS, but the call did not queue to the split because all the agents are logged out by RONA. |
| 540 | AUDIX link down | Messaging system cannot be accessed using a messaging split command because the messaging-system link is down. As a result, the step is skipped. |
| 541 | Not a messaging split | The split administered for the messaging split command is not a messaging split, that is, the split does not have a messaging type administered. As a result, the step is skipped. |
| 542 | Can't connect idle agent | The call at the head of the queue cannot be connected to an idle agent. |
| 550 | ASA - No staffed agents | A check or goto test requested a comparison of ASA for a split or skill that has no staffed agents. The comparison was based on ASA > largest possible threshold. |
| 560 | EWT no history for split | A goto test requested EWT for a split or skill that has not yet acquired history. The wait time is the default value. |
| 561 | EWT no split queue | A goto test requested EWT for a split or skill that has no queue. The wait time is treated as infinite. The comparison is based on EWT > largest possible threshold. |
| 562 | EWT split queue full | A goto test requested EWT for a split or skill, the queue, of which, is currently full. The wait time is treated as infinite. The comparison is based on EWT > largest possible threshold. |
| 563 | EWT split no working agents | A goto test requested EWT for a split or skill that has no agents logged in or all logged in agents are in the Aux work mode. The wait time is treated as infinite and the comparison is based on EWT > largest possible threshold. |
| 564 | EWT split locked | A goto test requested EWT for a split or skill that is currently locked. The wait time is treated as infinite. The comparison is based on EWT > largest possible threshold. |

Table continues...

| Event type | Event description | Explanation |
|------------|----------------------------|--|
| 565 | EWT call no working agents | A goto test for a call or converse data passing wait requested EWT for a call that is queued only to splits or skills that have no agents logged in or that have all logged in agents in the Aux work mode. In this case, the wait time is treated as infinite and the comparison is based on EWT > largest possible threshold. |
| 1760 | Conference COR restrict | Check authorization on calling and called parties for non-PCOL calls. |
| 2034 | Illegal TSC interaction | A BSR polling over ISDN without B-Channel attempt has resulted in an illegal TSC interaction. Either an AT&T TSC was routed to a QSIG interface, or vice versa. The call is dropped and the denial event is logged. |
| 2035 | NCA-TSC not available | A BSR polling over ISDN without B-Channel attempt is denied for one of the following reasons: <ul style="list-style-type: none"> • The terminated administered TSC endpoint is disabled. • The incoming nca-tsc call arrives at the wrong signaling group. • The maximum number of nca-tsc is set to 0. |
| 2075 | Var-in-vec COS restricted | The station that is attempting to change the value type variable with a Facility Access Code (FAC) does not have console permission. |
| 2404 | Var-in-Vec No adm for VAC | There is no Variable Access Code (VAC) administered for the variable in the Variable for Vector Table. |
| 2405 | Var-in-Vec Invalid digit | While attempting to change the value type variable to a new assignment, an invalid DTMF digit, for example #, is entered. You can enter zero to nine digits or an asterisk (*) sign. |
| 3201 | Meet-Me Access chg TMO | The user changing the access code allowed the call to time out to intercept treatment. The access code is not changed. |
| 3202 | Invlid Num Digits MM Acc | The user changing the access code entered too many digits. The access code is not changed. |
| 3203 | MM Extension not valid | The user changing the access code did not enter a valid extension. |
| 3204 | MM Access Chg Not a VDN | The user changing the access code entered a non Meet-me Conference VDN extension. |
| 3205 | MM Invalid Access Entered | The user changing the access code did not enter the correct access code. The access code is not changed. |
| 3206 | MM Access Obj/SAT Busy | An administrator is making changes to the Meet-me Conference VDN, so the user cannot change the access code using an FAC. Try again later. |
| 3207 | Merge Meet-me Conf call | A user tries to access an existing Meet-me Conference call and is denied. |

Table continues...

| Event type | Event description | Explanation |
|------------|---------------------------|--|
| 3208 | Serv Observ Meet-me VDN | A user tries to service observe a Meet-me Conference call. This is not allowed. |
| 3209 | Meet-me Conf call full | A user tries to access a Meet-me Conference call that is already full. |
| 3210 | Wrong MM Acc. code dialed | A user trying to access a Meet-me Conference call dialed the wrong access code. |
| 3211 | Chg Station no Cons/Perm | The station attempting to change the access code does not have console permissions COS. |
| 3212 | VDN not a meetme type | The VDN that was called is not a Meet-me Conference VDN. |
| 3213 | MM Invalid Conf Ctrlr Sta | If controlling extension is filled in and the station and controller do not match. |
| 3214 | MM Inv Trk not Remote Acc | The trunk used to access the Meet-me Conference is not a remote access trunk. |
| 3215 | MM Invalid Station Type | Controlling extension is blank and the station type is invalid. |
| 3216 | Conf/Transfer 2 Meet-me | A user cannot conference or transfer another call into a Meet-me Conference call. |
| 3217 | MM Abbrev Dial Invalid | When changing a Meet-me Conference access code, the only entry that can be set up for AD is the FAC. Any other entry generates the vector event. |

Clearing events

When your review of the event log is complete, you can remove the events from the error log. You must use a super user login ID to clear the events.

To clear the events from the error log, enter `clear events` at the command prompt and press **ENTER**. The command clears all the events from the event buffer within the error log. The command does not delete the other entries in the error log.

Global variables can change during processing

The collect global vector variable value is susceptible to being unintentionally changed and read by different vectors being processed for multiple calls - especially during high traffic periods. This can result in unexpected behaviors, such as callers hearing the wrong announcement.

Caution:

Global vector variables are accessible by all calls currently in vector processing and are susceptible to be overwritten by vectors associated with other active calls.

It is good programming practice to copy a global variable to a local variable before using it in a vector. This secures a snapshot of the global variable value that is used for subsequent vector processing.

Example

1. Use *A* as a global collect type variable.
2. Define *Z* as a local collect type variable. Use *Z* as the scratch pad variable to get the current value of *A*. You can use *Z* to test the value obtained from *A* later in the vector.
3. Use the following command at the beginning of the call processing vector program:

```
set Z = A ADD none
```
4. Use the following command when the testing the value of *A* is required later in the vector:

```
goto step 20 if Z = 123
```

If you modify the value of a global variable, complete the manipulation of the global variable within 15 steps. This is due to vector operation that temporarily suspends vector processing for 1.0 seconds after processing 15 steps under certain conditions. Therefore, the time period during which the value of a global variable changes can be greater than expected since the value can change during the real-time break.

Troubleshooting vector variables

List commands

You can use the following `list` commands to analyze vector variable operations:

- `list trace vector/vdn xx`: Displays the current values assigned to the variables used in vector steps. You can use this command to analyze vector operations.
- `list usage variables [x]` : Displays a list of all vectors that use variables and specifies which administered variable is used in each vector. You can optionally filter the list if you include a specific (A-Z, AA-ZZ) administered variable.
- `list measurement summary`: Displays the traffic summary report, which provides an overview of the system performance. Page 4 of the report displays the vector variables usage data showing the number of currently administered global vector variables, instantaneous in-use totals, corresponding high-water marks, and the average usage for local and persistent vector variables.

Variable related vector events

The following vector events are associated with vector operations:

- Event type 37: collect digits for variable error

- Event type 38: variable not defined
- Event type 213: No digits in variable

Chapter 4: Communication Manager denial events

| Event type | Event description | Explanation |
|------------|-------------------------------|--|
| 374 | Suspend vectors in ovid | When the processor occupancy of Communication Manager exceeds 92.5%, the system suspends the vectors for 6 seconds. The system re-checks the processor occupancy and if the processor occupancy has not still reduced, the system continues to suspend the vectors processing after every 6 seconds. |
| 375 | Resume vectors after ovid | When the processor occupancy of Communication Manager reduces, the system resumes the vectors processing. |
| 1039 | ACD login failed | Group Manager or User Manager set up of the ACD Logical Agent login information failed before password matching, if any. |
| 1363 | SIP Agent logins maximum | Maximum number of simultaneous SIP EAS Agents logins exceeded. |
| 1375 | Double agent login to station | Agent is logging in to a physical station that has another agent already logged in. |
| 1380 | Agent login failure | Agent login failure in getting the number of digits in the Logical Agent password. The system cannot find the login ID or user ID or the ID is invalid. |
| 1381 | Agent login failure | Possible causes: <ul style="list-style-type: none"> • An agent who logs in to a Multiple Call Handling (MCH) split or adjunct-controlled split is already logged in to the system. • The Expert Agent Selection (EAS) field on the Feature-Related System-Parameters screen is n. |
| 1382 | Agent login invalid/error | Login is invalid. |
| 1383 | Agent login failure/error | Logical Agent failure in getting the agent login ID. Possible causes are as follows: <ul style="list-style-type: none"> • Error in initializing agent-stat table. • Login for the skill failed. • Logging in to skill that the agent has already logged in to before. • Maximum number of logged in skill reached. |

Table continues...

| Event type | Event description | Explanation |
|------------|--------------------------------|--|
| 1384 | Agent logins maximum | Maximum number of simultaneous logins exceeded or agent login failed. |
| 1385 | Agent password digits failed | Failure in getting the Logical Agent password digits from the Dial Plan Manager. |
| 1386 | Agent password mismatch | Agent entered a password that does not match the administered password. |
| 1387 | Agent login invalid/error | Login is invalid. |
| 1388 | Login acceptance fails | Logical Agent login processing of agent login messages failed. |
| 2120 | Advocate agents exceed maximum | Maximum number of Business Advocate agents already logged in. |
| 2127 | Over BCMS agent login cap | Reached maximum BCMS capacity. |
| 5073 | SIP OPTIM TG Meas Error | Trunk groups for SIP OPTIM OPS signaling are defined as measured and SPI events have been blocked. |
| 5077 | SO-Coach-In so-coach mode | Cannot toggle between Service Observing Listen Only and Listen Talk modes while Coaching is activated. |
| 5078 | SO-Coach-not reached agnt | Cannot activate Coaching until call connects to an agent. |
| 5079 | SO-Coach-already active | The maximum number of coaches are on the call: one. |
| 5080 | SO-Coach-invalid no-talk | Cannot coach in the Service Observe No Talk mode. |
| 5081 | Unsupported CMS release | CMS release read from PREC is no longer supported and was blanked out. |
| 5082 | Unsupported AAPC release | AAPC release read from PREC is no longer supported and was blanked out. |
| 5083 | SO-Coach-In conference | Cannot coach during conferences. |
| 5084 | SO-Coach-in wait-state | Cannot coach until Service Observer is active on a call. |
| 5085 | SO-Coach-not serv-obsrvng | Service Observing must be activated in order to use Coaching. |

Chapter 5: Resources

Documentation

See the following related documents.

| Title | Use this document to: | Audience |
|---|----------------------------------|--|
| Supporting | | |
| <i>Avaya Aura® Communication Manager Denial Events</i> | Read about system denial events. | Implementation engineers, support engineers, and system administrators |
| <i>Programming Call Vectoring Features in Avaya Aura® Call Center Elite</i> | Write and edit call vectors. | Implementation engineers and system engineers |

Finding documents on the Avaya Support website

Procedure

1. Go to <https://support.avaya.com>.
2. At the top of the screen, click **Sign In**.
3. Type your **EMAIL ADDRESS** and click **Next**.
4. Enter your **PASSWORD** and click **Sign On**.
5. Click **Product Documents**.
6. Click **Search Product** and type the product name.
7. Select the **Select Content Type** from the drop-down list
8. In **Select Release**, select the appropriate release number.

For example, for user guides, click **User Guides** in the **Content Type** filter. The list only displays the documents for the selected category.

9. Press **Enter**.

Training

The following courses are available on www.avaya-learning.com. Enter the course code in the **Search** field, and click **Go** to search for the course.

| Course code | Course title |
|-------------|---|
| ACIS-7391 | |
| 73600V | Implementing Avaya Aura® Call Center Elite 40 hours |
| 7391X | Avaya Aura® Call Center Elite and Avaya Aura® Call Center Elite Multichannel Implementation Exam 1.50 hours |
| ACSS-7491 | |
| 74600V | Supporting Avaya Aura® Call Center Elite 16 hours |
| 7491X | Avaya Aura® Call Center Elite and Avaya Aura® Call Center Elite Multichannel Support Exam 1.50 hours |
| 2416W | Avaya Aura® Call Center Elite Fundamentals 0.5 hour for all audiences |
| 2412W | Using Avaya Workspaces for Call Center Elite – Agents 0.5 hour for end-users |
| 2414W | Using Avaya Workspaces for Call Center Elite – Supervisors 0.5 hour for end-users |

Viewing Avaya Mentor videos

Avaya Mentor videos provide technical content on how to install, configure, and troubleshoot Avaya products.

About this task

Videos are available on the Avaya Support website, listed under the video document type, and on the Avaya-run channel on YouTube.

- To find videos on the Avaya Support website, go to <https://support.avaya.com/> and do one of the following:
 - In **Search**, type `Avaya Mentor Videos`, click **Clear All** and select **Video** in the **Content Type**.
 - In **Search**, type the product name. On the Search Results page, click **Clear All** and select **Video** in the **Content Type**.

The **Video** content type is displayed only when videos are available for that product.

In the right pane, the page displays a list of available videos.

- To find the Avaya Mentor videos on YouTube, go to www.youtube.com/AvayaMentor and do one of the following:
 - Enter a keyword or keywords in the **Search Channel** to search for a specific product or topic.

Resources

- Scroll down Playlists, and click a topic name to see the list of videos available. For example, Contact Centers.

 **Note:**

Videos are not available for all products.

Support

Go to the Avaya Support website at <https://support.avaya.com> for the most up-to-date documentation, product notices, and knowledge articles. You can also search for release notes, downloads, and resolutions to issues. Use the online service request system to create a service request. Chat with live agents to get answers to questions, or request an agent to connect you to a support team if an issue requires additional expertise.

Glossary

| | |
|--------------------|---|
| AAR | When resources are unavailable, Communication Manager uses the Automatic Alternate Routing (AAR) feature to route calls to a different route than the first-choice route. |
| ACD | Automatic Call Distribution (ACD) is a telephony feature for processing and distributing inbound, outbound, and internal calls to groups of extensions. |
| ACD call | A call that Communication Manager: <ul style="list-style-type: none">• Delivers to an agent with the required skill.• Delivers to an agent or puts in a queue as a direct agent call.• Puts in a queue for an agent skill. |
| AD | Abbreviated Dialing (AD) makes agent login easier as agents can press the AD button to dial an access code, split number, or login ID. |
| ANI | Automatic Number Identification (ANI) is a display of the calling number for agents to gain access to information about the caller. |
| application | An adjunct that requests and receives ASAI services or capabilities. Applications can reside on an adjunct. However, Communication Manager cannot distinguish among several applications residing on the same adjunct. Hence, Communication Manager treats the adjunct and all resident applications as a single application. The terms application and adjunct are used interchangeably throughout the document. |
| ARS | Automatic Route Selection (ARS) is a feature that Communication Manager uses to automatically select the least cost route to send a toll call. |
| ASA | Average Speed of Answer (ASA) is the average number of seconds that a call waits in a queue before an agent answers the call. ASA includes the queue time and the station ring time. |
| ASAI | Adjunct-Switch Application Interface (ASAI) is an Avaya protocol that applications use to gain access to the call-processing capabilities of Communication Manager. |

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| AUDIX™ | Audio Information Exchange (AUDIX™) is an Avaya messaging system. |
| AUX work | Agents enter the Auxiliary (AUX) work mode for non-ACD activities, such as taking a break, going for lunch, or making an outgoing call. Agents in the AUX work mode are unavailable to receive ACD calls. |
| B-channel | Bearer channel (B-channel) is an ISDN channel that carries voice, video, or data. |
| BCMS | A software package residing on Communication Manager that monitors the operations of ACD systems. Basic Call Management System (BCMS) collects data related to the calls on Communication Manager and organizes data into reports that help supervisors manage ACD facilities and personnel. |
| best | The split/skill or location that can provide the best service to a caller as determined by BSR. |
| BSR | A feature that provides singlesite and multisite load balancing and maximizes staffing resources. Communication Manager uses Best Service Routing (BSR) to compare skills and to route calls to the best skill. |
| cdpd | Customer Database Provided Digits (CDPD). |
| ced | Caller-Entered Digits (CED) are digits that a caller enters in response to system prompts |
| check best | A vector command that Communication Manager uses to verify if the best found split or skill meets all the conditions in the vector. For example, Communication Manager can use the check command to verify if the best found split or skill has the best Expected Wait Time (EWT). |
| CMS | A software program for reporting and managing agents, splits, trunks, trunk groups, vectors, and VDNs. With Call Management System (CMS), you can also administer some ACD features. |
| CO | Central Office (CO) is a switch that a local phone company owns to provide local phone service (dial-tone) and access to toll facilities for long-distance calling. |
| consider | A vector command for collection of Best Service Routing (BSR) status data that Communication Manager uses for comparison of splits or skills. Use the check best and queue-to best commands in the consider series to identify and queue calls to the best split or skill. |
| COR | Class of Restriction (COR) is a feature that allows classes of call-origination and call-termination restrictions for phones, phone groups, data modules, and trunk groups. |

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| COS | Class of Service (COS) is a feature that uses a number to specify if phone users can activate the Automatic Callback, Call Forwarding All Calls, Data Privacy, or Priority Calling features. |
| D-channel | Delta channel (D-channel) is an ISDN channel that carries control and signaling information. |
| DCS | Distributed Communication Service (DCS). |
| direct agent | A feature, accessed only through ASAI, that allows a call to be placed in a split queue but routed only to a specific agent in that split. The call receives normal ACD call treatment (for example, announcements) and is measured as an ACD call while ensuring that a particular agent answers. |
| DNIS digits | Dialed Number Identification Service (DNIS) digits are extensions in the dial plan that correspond to phone numbers, for example, 800 lines, that callers dial to connect to a contact center. |
| EAS | A feature that Communication Manager uses to distribute calls based on agent skills. With Expert Agent Selection (EAS), you can ensure that callers connect to agents with the required skills. |
| ECT | Explicit Call Transfer (ECT). |
| ETSI | European Telecommunications Standards Institute (ETSI). |
| EWT | Expected Wait Time (EWT) is an estimate of how long must a call wait in a queue before an agent answers the call. Communication Manager calculates EWT based on the current call traffic, past call traffic, call handling time, and agent staffing conditions. |
| FAC | Feature Access Code (FAC). |
| FRL | Facility Restriction Level (FRL). |
| glare | A simultaneous seizure of a 2-way trunk by two communications systems resulting in a standoff. |
| intercept tone | An tone that indicates a dialing error or denial of the service requested. |
| interflow | An ACD term that refers to the ability to establish a connection to a second ACD and overflow a call from one ACD to the other. |
| interflow-qpos | The position of interflow call in the destination queue. |
| ISDN trunk | A trunk administered for use with ISDN-PRI. Also called ISDN facility. |
| LAI | A feature that improves agent productivity and call-handling capabilities of multisite contact centers. Communication Manager uses Look-Ahead Interflow (LAI) to balance ACD load among multiple sites. |

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| MCH | With Multiple Call Handling (MCH), agents can receive more than one ACD call without releasing an active call. You can use MCH in EAS and non-EAS environments. |
| MSO | Multiple Service Observing (MSO). |
| NCA-TSC | Non Call Associated-Temporary Signaling Connection (NCA-TSC). |
| NCD | Network Call Deflection (NCD). |
| NCR | Communication Manager uses Network Call Redirection (NCR) to reduce trunking costs. NCR provides a call routing method between sites on a public network or Virtual Private Network (VPN). When calls arrive on a communication server with NCR active, Communication Manager releases the trunks after call redirection. |
| NCT | Network Call Transfer (NCT). |
| PCOL | TBD |
| phantom call | A call that rings at an agent station and the caller abandons before the agent can answer the call. |
| PN | Port Network (PN). |
| Processor Port Network (PPN) | A port network (PN) controlled by a switch-processing element that is directly connected to that PN's TDM bus and LAN bus. |
| QSIG | Q signaling (QSIG) is an ISDN-based signaling protocol for signaling between Private Branch Exchanges (PBXs). |
| queue slot | The position of a call in a queue. |
| queue-to best | A vector command for queuing calls to the best split or skill that is determined by a consider series. |
| Redirection on No Answer | An optional feature that redirects an unanswered ringing ACD call after an administered number of rings. The call is then redirected back to the agent. |
| reorder tone | A tone to signal that one of the facilities such as a trunk or a digit transmitter, was not available. |
| SIP | Session Initiation Protocol (SIP) is an application-layer control signaling protocol for creating, modifying, and terminating sessions with more than one participant using http like text messages. |
| status poll | A call that Communication Manager makes to gain status data from a remote place in a multisite BSR application plan. |

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|--------------------------------|---|
| TAC | Trunk Access Code (TAC). |
| Tenant Partitioning | A method of separating resources to support multiple users on a single instance of the system. Assign the same tenant number to members of a partition to avoid unintended interactions between members of different partitions. |
| tie trunk | A dedicated telecommunications line that directly connects two private network configurations. Communication Manager uses ARS to automatically route calls over tie trunks instead of the Public Switched Telephone Network (PSTN) lines. |
| trunk | A dedicated telecommunications channel between two communications systems or Central Offices (COs). |
| trunk group | An arrangement of communication channels that carry multiple calls for the same phone number. |
| TTR | Touch Tone Receiver (TTR). |
| UCID | Universal Call Identification (UCID). |
| UUI | User-to-User Information (UUI). |
| VAC | Variable Access Code (VAC). |
| VDN | Vector Directory Number (VDN) is an extension number that directs calls to a vector. VDNs can represent a call type or a service category, such as Billing or Customer Service. |
| vector events | Denial events that Communication Manager displays if an error occurs when Communication Manager processes call vectors. |
| vector-controlled split | A hunt group that you can gain access to only by dialing a VDN extension. |
| VRU | Voice Response Unit (VRU). |

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