

Troubleshooting Avaya Aura[®] Call Center Elite

Release 10.2.x Issue 1 December 2023

Notice

While reasonable efforts have been made to ensure that the information in this document is complete and accurate at the time of printing, Avaya assumes no liability for any errors. Avaya reserves the right to make changes and corrections to the information in this document without the obligation to notify any person or organization of such changes.

Documentation disclaimer

"Documentation" means information published in varying media which may include product information, subscription or service descriptions, operating instructions and performance specifications that are generally made available to users of products. Documentation does not include marketing materials. Avaya shall not be responsible for any modifications, additions, or deletions to the original published version of Documentation unless such modifications, additions, or deletions were performed by or on the express behalf of Avaya. End user agrees to indemnify and hold harmless Avaya, Avaya's agents, servants and employees against all claims, lawsuits, demands and judgments arising out of, or in connection with, subsequent modifications, additions or deletions to this documentation, to the extent made by End user.

Link disclaimer

Avaya is not responsible for the contents or reliability of any linked websites referenced within this site or Documentation provided by Avaya. Avaya is not responsible for the accuracy of any information, statement or content provided on these sites and does not necessarily endorse the products, services, or information described or offered within them. Avaya does not guarantee that these links will work all the time and has no control over the availability of the linked pages.

Warranty

Avaya provides a limited warranty on Avaya hardware and software. Please refer to your agreement with Avaya to establish the terms of the limited warranty. In addition, Avaya's standard warranty language as well as information regarding support for this product while under warranty is available to Avaya customers and other parties through the Avaya Support website: https://support.avaya.com/helpcenter/ getGenericDetails?detailld=C20091120112456651010 under the link "Warranty & Product Lifecycle" or such successor site as designated by Avaya. Please note that if the product(s) was purchased from an authorized Avaya channel partner outside of the United States and Canada, the warranty is provided by said Avaya Channel Partner and not by Avaya.

"Hosted Service" means an Avaya hosted service subscription that You acquire from either Avaya or an authorized Avaya Channel Partner (as applicable) and which is described further in Hosted SAS or other service description documentation regarding the applicable hosted service. If You purchase a Hosted Service subscription, the foregoing limited warranty may not apply but You may be entitled to support services in connection with the Hosted Service as described further in your service description documents for the applicable Hosted Service. Contact Avaya or Avaya Channel Partner (as applicable) for more information.

Hosted Service

THE FOLLOWING APPLIES ONLY IF YOU PURCHASE AN AVAYA HOSTED SERVICE SUBSCRIPTION FROM AVAYA OR AN AVAYA CHANNEL PARTNER (AS APPLICABLE), THE TERMS OF USE FOR HOSTED SERVICES ARE AVAILABLE ON THE AVAYA WEBSITE, <u>HTTPS://SUPPORT.AVAYA.COM/LICENS</u> UNDER THE LINK "Avaya Terms of Use for Hosted Services" ISEINFO OR SUCH SUCCESSOR SITE AS DESIGNATED BY AVAYA, AND ARE APPLICABLE TO ANYONE WHO ACCESSES OR USES THE HOSTED SERVICE. BY ACCESSING OR USING THE HOSTED SERVICE, OR AUTHORIZING OTHERS TO DO SO, YOU, ON BEHALF OF YOURSELF AND THE ENTITY FOR WHOM YOU ARE DOING SO (HEREINAFTER REFERRED TO INTERCHANGEABLY AS "YOU" AND "END USER"), AGREE TO THE TERMS OF USE. IF YOU ARE ACCEPTING THE TERMS OF USE ON BEHALF A COMPANY OR OTHER LEGAL ENTITY, YOU REPRESENT THAT YOU HAVE THE AUTHORITY TO BIND SUCH ENTITY TO THESE

TERMS OF USE. IF YOU DO NOT HAVE SUCH AUTHORITY, OR IF YOU DO NOT WISH TO ACCEPT THESE TERMS OF USE, YOU MUST NOT ACCESS OR USE THE HOSTED SERVICE OR AUTHORIZE ANYONE TO ACCESS OR USE THE HOSTED SERVICE.

Licenses

The Global Software License Terms ("Software License Terms") are available on the following website https://www.avaya.com/en/legal-license-terms/ or any successor site as designated by Avaya. These Software License Terms are applicable to anyone who installs, downloads, and/or uses Software and/or Documentation. By installing, downloading or using the Software, or authorizing others to do so, the end user agrees that the Software License Terms create a binding contract between them and Avaya. In case the end user is accepting these Software License Terms on behalf of a company or other legal entity, the end user represents that it has the authority to bind such entity to these Software License Terms.

Copyright

Except where expressly stated otherwise, no use should be made of materials on this site, the Documentation, Software, Hosted Service, or hardware provided by Avaya. All content on this site, the documentation, Hosted Service, and the product provided by Avaya including the selection, arrangement and design of the content is owned either by Avaya or its licensors and is protected by copyright and other intellectual property laws including the sui generis rights relating to the protection of databases. You may not modify, copy, reproduce, republish, upload, post, transmit or distribute in any way any content, in whole or in part, including any code and software unless expressly authorized by Avaya. Unauthorized reproduction, transmission, dissemination, storage, or use without the express written consent of Avaya can be a criminal, as well as a civil offense under the applicable law.

Virtualization

The following applies if the product is deployed on a virtual machine. Each product has its own ordering code and license types. Unless otherwise stated, each Instance of a product must be separately licensed and ordered. For example, if the end user customer or Avaya Channel Partner would like to install two Instances of the same type of products, then two products of that type must be ordered.

Third Party Components

The following applies only if the H.264 (AVC) codec is distributed with the product. THIS PRODUCT IS LICENSED UNDER THE AVC PATENT PORTFOLIO LICENSE FOR THE PERSONAL USE OF A CONSUMER OR OTHER USES IN WHICH IT DOES NOT RECEIVE REMUNERATION TO (i) ENCODE VIDEO IN COMPLIANCE WITH THE AVC STANDARD ("AVC VIDEO") AND/OR (ii) DECODE AVC VIDEO THAT WAS ENCODED BY A CONSUMER ENGAGED IN A PERSONAL ACTIVITY AND/OR WAS OBTAINED FROM A VIDEO PROVIDER LICENSED TO PROVIDE AVC VIDEO. NO LICENSE IS GRANTED OR SHALL BE IMPLIED FOR ANY OTHER USE. ADDITIONAL INFORMATION MAY BE OBTAINED FROM MPEG LA, L.L.C. SEE <u>HTTP://WWW.MPEGLA.COM</u>.

Service Provider

WITH RESPECT TO CODECS, IF THE AVAYA CHANNEL PARTNER IS HOSTING ANY PRODUCTS THAT USE OR EMBED THE H.264 CODEC OR H.265 CODEC, THE AVAYA CHANNEL PARTNER ACKNOWLEDGES AND AGREES THE AVAYA CHANNEL PARTNER IS RESPONSIBLE FOR ANY AND ALL RELATED FEES AND/OR ROYALTIES. THE H.264 (AVC) CODEC IS LICENSED UNDER THE AVC PATENT PORTFOLIO LICENSE FOR THE PERSONAL USE OF A CONSUMER OR OTHER USES IN WHICH IT DOES NOT RECEIVE REMUNERATION TO: (i) ENCODE VIDEO IN COMPLIANCE WITH THE AVC STANDARD ("AVC VIDEO") AND/OR (ii) DECODE AVC VIDEO THAT WAS ENCODED BY A CONSUMER ENGAGED IN A PERSONAL ACTIVITY AND/OR WAS OBTAINED FROM A VIDEO PROVIDER LICENSED TO PROVIDE AVC VIDEO. NO LICENSE IS GRANTED OR SHALL BE IMPLIED FOR ANY OTHER USE. ADDITIONAL INFORMATION FOR H.264 (AVC) AND H.265 (HEVC) CODECS MAY BE OBTAINED FROM MPÈG LÁ, L.L.C. SEE HTTP:// WWW.MPEGLA.COM.

Compliance with Laws

You acknowledge and agree that it is Your responsibility to comply with any applicable laws and regulations, including, but not limited to laws and regulations related to call recording, data privacy, intellectual property, trade secret, fraud, and music performance rights, in the country or territory where the Avaya product is used.

Preventing Toll Fraud

"Toll Fraud" is the unauthorized use of your telecommunications system by an unauthorized party (for example, a person who is not a corporate employee, agent, subcontractor, or is not working on your company's behalf). Be aware that there can be a risk of Toll Fraud associated with your system and that, if Toll Fraud occurs, it can result in substantial additional charges for your telecommunications services.

Avaya Toll Fraud intervention

If You suspect that You are being victimized by Toll Fraud and You need technical assistance or support, please contact your Avaya Sales Representative.

Security Vulnerabilities

Information about Avaya's security support policies can be found in the Security Policies and Support section of <u>https://support.avaya.com/security</u>.

Suspected Avaya product security vulnerabilities are handled per the Avaya Product Security Support Flow (<u>https://support.avaya.com/css/P8/documents/100161515</u>).

Downloading Documentation

For the most current versions of Documentation, see the Avaya Support website: <u>https://support.avaya.com</u>, or such successor site as designated by Avaya.

Contact Avaya Support

See the Avaya Support website: https://support.avaya.com for Product or Cloud Service notices and articles, or to report a problem with your Avaya Product or Cloud Service. For a list of support telephone numbers and contact addresses, go to the Avaya Support website: https://support.avaya.com (or such successor site as designated by Avaya), scroll to the bottom of the page, and select Contact Avaya Support.

Trademarks

The trademarks, logos and service marks ("Marks") displayed in this site, the Documentation, Hosted Service(s), and product(s) provided by Avaya are the registered or unregistered Marks of Avaya, its affiliates, its licensors, its suppliers, or other third parties. Users are not permitted to use such Marks without prior written consent from Avaya or such third party which may own the Mark. Nothing contained in this site, the Documentation, Hosted Service(s) and product(s) should be construed as granting, by implication, estoppel, or otherwise, any license or right in and to the Marks without the express written permission of Avaya or the applicable third party.

Avaya is a registered trademark of Avaya LLC.

All non-Avaya trademarks are the property of their respective owners.

Avaya, the Avaya logo, Avaya one-X[®] Portal, Communication Manager, Application Enablement Services, Modular Messaging, and Conferencing are either registered trademarks or trademarks of Avaya Inc. in the United States of America and/or other jurisdictions.

All non-Avaya trademarks are the property of their respective owners.

Contents

Chapter 1: Introduction	
Purpose	
Chapter 2: Troubleshooting features	
Conference call drops	
Remote agents experience call problems	
Remote agents receive phantom calls	
Remote agents experience delay in receiving ACD calls	
Remote agents receive no calls	
Sound volume is too low	
Tie trunks or queue slots reach maximum capacity frequently	
Communication Manager does not forward UUI data	
UCID not transmitted.	
NCR invocation attempts fail	
SIP NCR invocation attempts fail	
Agent mobility	
Customer call is redirected to agent's mobile phone voice mail	
Chapter 3: Troubleshooting vectors	
Criteria for success/failure of Call Vectoring commands	
Unexpected feature operations	
Unexpected command operations	
Converse-on command debugging	27
Tracking unexpected events	29
How to view an event criteria	29
How to view an event report	30
Vector events	31
Clearing events	45
Global variables can change during processing	45
Example	46
Troubleshooting vector variables	46
Chapter 4: Communication Manager denial events	48
Chapter 5: Resources	50
Documentation	
Finding documents on the Avaya Support website	
Training	
Viewing Avaya Mentor videos	
Support	
Glossary	

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:

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
```

 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:

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 tcml> system prompt, type the rdd:dp_mgr Bsr_applloc 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
- I. 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

 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"
```

```
<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
^М
```

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:	Stop any wait-time or announcement
 VDN's COR does not permit routing to the adjunct-supplied destination 	step (if present). Continue vector processing with the next sequential step.
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	
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	

Call Vectoring command success/failure criteria	
Fails if any of the following are true:	Continue vector processing with the
Vector conditional is false	next sequential step
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 	
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:	Continue vector processing with the
 No BSR application administered in active VDN 	next sequential step
 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	
Otherwise:	
Succeeds, but takes no action if polling of specified location is suppressed.	Continue vector processing with the next sequential step

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	
ails if any of the following are true: Continue vector processing	
 VDN skill (1st, 2nd, 3rd) is used in consider step but not administered for active VDN. 	next sequential step
Otherwise: Succeeds, and the status of the local split is evaluated.	
converse-on <i>split</i>	
Fails if any of the following are true:	Continue vector processing with the
Converse split queue is full	next sequential step
Converse split is not vector-controlled	
 Auto-available split is in effect, and all agents are logged out by Redirection on No Answer (RONA) 	
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:	Continue vector processing with the
 Specified split is not a messaging-system split 	next sequential step
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 	
Otherwise, succeeds.	Terminate vector processing

aeue-to <i>split</i> ails if any of the following are true: Split's queue is full	Continue vector processing with the next sequential step
, ,	
Split's queue is full	next sequential step
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	
therwise:	
ucceeds, and the call is terminated to an agent.	Exit vector processing, and pass control to call processing
ucceeds, and the call is queued or requeued in the specified split the specified priority.	Continue vector processing with the next sequential step
eply best	
ails if any of the following are true:	Drop the call
Incoming call is not ISDN or SIP	
Incoming trunk group is not administered for shared UUI or for QSIG Supplementary Service	
therwise: Succeeds and returns status data of best resource und in consider series.	Drop the call
eturn	
ails 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.
ucceeds when there is return destination data	Returns to the calling vector
et	
ways succeeds	Continues to the next step with an
there is an invalid assignment, a vector event is generated	invalid assignment or not
top	
ways 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.
ait time	

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	
General Vector Processing		
Vector stuck	10,000 steps executed.	
	No default treatment in the vector.	
Audible feedback lasts longer than	Last vector step.	
the delay interval	Queuing for an announcement.	
	Queuing for a touch-tone receiver for a collect digits step.	
Look-Ahead Interflow (LAI)		
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	No trunks.	
accepted	Network failure.	
	Insufficient FRL.	
All Look-Ahead Interflow attempts	LAI attempts are interworking off due to one of the following:	
accepted	Interworking off of the network.	
	Receiving vector is not designed for conditional acceptance.	
	Route-to command with coverage y 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	Invalid link extension
	No trunks available
	COR/FRL restricted
	• Time out. Application does not respond within the time specified in the wait-time 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	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	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

Customer observation	Cause
Extra delay before hearing announcement	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	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	 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	Call being re-queued at different priority
wrong order	Call superseded by higher priority call, including direct agent call
Call is not routed to remote best location	No trunk available
collect digits	

Customer observation	Cause
Announcement not heard while waiting for digits, but network billing indicates that the call was answered	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	TTR not in system
skipped	 Link to PN that has TTR is down
	• TTR queue full
Delay before hearing	All TTR ports busy, but space in queue
announcement	Announcement queue full
	 All integrated announcement ports busy
	Analog announcement busy
Vector stuck	Analog announcement does not answer
Dial-ahead digits not recognized	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	 Caller dialed the pound (#) sign too soon
routed to intercept.	 Caller dialed "*" without reentering correct digits
	Call Prompting inter-digit time out
Caller information button denied	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	Agent becomes available
	• First digit dialed
consider	

Local split/skill best (in primary vector or status poll vector) Remote location is never best A step is skipped converse-on split VRU script not executed	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 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 variable represents an invalid number, such as out of range or null and an event is generated Queue full. No queue. Invalid split. Split not vector-controlled. VRU
A step is skipped converse-on split	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 variable represents an invalid number, such as out of range or null and an event is generated Queue full. No queue. Invalid split. Split not vector-controlled. VRU
converse-on split	and an event is generated Queue full. No queue. Invalid split. Split not vector-controlled. VRU
-	
VRU script not executed	
	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	Announcement board not present
	Announcement not administered
	Announcement not recorded
	Announcement being rerecorded
	All ports busied out
	Announcement restore in progress
Extra delay	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	Step condition not met
specified step	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	

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	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	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	

Customer observation	Cause
Call dropped	Call not queued when vector processing stops
wait-time	
Audible feedback longer than	Queuing for an announcement or for a TTR
delay interval	• Stop command executed
Audible feedback shorter than	Agent becomes available
delay interval	 Previous adjunct routing link step succeeds
Music not heard	No music port administered
	Music source disconnected or turned off
Alternate audio or music source	Announcement board not present
not heard	 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	
Making a call			
Converse-on step	VRU down (RONA)	Vector event	
skipped	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	
Data passing			
First set of digits not	Converse first delay too short	Check administration	
collected	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	

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	VRUs first prompt timed out	Check administration
the same as the first digits passed	Faulty hardware	Diagnostics
Data return		[
No digits returned to Communication	Flash not recognized by Communication	VRU error log or trace
Manager	Manager	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

Symptom	Cause	Analysis	
	Faulty hardware	Diagnostics	
Collect announcement not heard	Too many digits returned by VRU.	Check VRU script	
	Faulty hardware	Diagnostics	
Vector eventsThe agent 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 E	VENT REPORT	Page	1 of	1	SPE B
The following options control	which events will be	e displa	ayed.		
EVENT CATEGORY					
Category: meetme					
REPORT PERIOD					
Interval: a From:	/ / : To: /	/ :			
SEARCH OPTIONS					
	umber: Type: nsion: 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.	

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 meetme.
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	

aropr	aropray evenes					
		EVENT RE	EPORT			
Event	Event	Event	Event	First	Last	Evnt
Туре	Description	Data 1	Data 2	Occur	Occur	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:
	 <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.</number2></number1></number2></number1>
	 Split<number>, for example, split 89, where "<number>" is the split number associated with the vector event.</number></number>
	 For Meet-me Conference events, this is the port ID of the user associated with the event.
Event Data 2	Displays the following data:
	• 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.

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	 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.

Event type	Event description	Explanation
11	No announcement available	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:
		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	A queue-to split, messaging split, or check split command failed to queue the call.
		😿 Note:
		Event types 520, 521, 522 and 541 can be observed for the same call at the same time.
21	Queued to three splits	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.
22	Attd Vec: Cannot requeue	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.
30	No TTR available	A collect digits command failed because:
		TN744 port is not available.
		All queue slots are occupied.
31	Dial-ahead discarded	Previously entered dial-ahead digits are discarded using access of an adjunct routing link, converse-on, route-to number, Or messaging split step.
32	Prompting buffer overflow	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.
33	ced digits left behind	A collect ced digits step collected digits from a UEC IE and more than 16 digits are sent from the network.
34	cdpd digits left behind	A collect cdpd digits step collected digits from a UEC IE and more than 16 digits are sent from the network

Event type	Event description	Explanation
35	ced digits not available	A collect ced digits 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 collect cdpd digits 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	• 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 collect vector step.
38	Variable not defined	 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 <i>none</i> or #.
		 An agent variable is used with the converse-on 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	A messaging step failed because the Messaging Adjunct is not available.
		Note:
		Event types 540 and 541 are observed for the same call at the same time.
41	Messaging ext invalid	The messaging extension contains a variable with an invalid value of <i>none</i> or #. Vector event 38 is also generated.
50	Route -to step failed	A route-to step failed to reach the intended destination.
		😿 Note:
		Event types 51 and 52 provides specific information regarding the reason for the failure.

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:
		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.

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.	
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.	

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.	

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 none or #. Vector event 38 is also generated.	
291	BSR: Location invalid	The consider location command contains a variable with an invalid value of none or #.	
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 UUI 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	
295	No room for collected dgt	can prioritize the user data on the Shared UUI Feature Priorities page of the Trunk screen.	
296	No room for VDN Name	For more information, see Avaya Aura [®] Call Center Elite Feature Reference.	
297	No room for other LAI		
298	Reply-best got bumped	The network or shared trunk setting does not support the transport of all data for the best resource. No other applications share user data included in a DISCONNECT message.	
299	In-VDN time got bumped	The network does not support the transport of all user data. You	
300	Collected dgts got bumped	can prioritize the user data on the Shared UUI Feature Priorities page of the Trunk screen.	
301	VDN Name got bumped		

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.	

318 NC	CR: Used NCT trk-to-trk CR: No NCD service CR: invalid nmbr	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. Check that the service provider has activated the NCD feature for the trunk being used for NCD call redirections. Communication Manager has detected that the number used for the NCR invocation that is administered in the ~ <i>r</i> route to number vector step or in the BSR Application Table's VDN Interflow	
		the trunk being used for NCD call redirections. Communication Manager has detected that the number used for the NCR invocation that is administered in the ~ <i>r</i> route to number vector step or in the BSR Application Table's VDN Interflow	
319 NC	CR: invalid nmbr	the NCR invocation that is administered in the $\sim r$ 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 NC	CR: 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 NC err	CR: PSTN NCD invoke	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 NC	CR: 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 NC red	CR: PSTN NCD max dirs	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 NC	CR: 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 NC	CR: 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 NC	CR: Caller not SIP trk	Check that only SIP trunks are executing the vector steps where NCR is being invoked.	

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	• 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 ASAIUUI 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	A set command executes and obtains one of the following results:	
		• 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. 	
		For example: set A = none ADD 1000	
		If variable A is defined as having a length of 3, A is set to # and this vector event is generated.	
374	Suspend vectors in ovld	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 ovld	When the processor occupancy of Communication Manager reduces to below 92.5%, the system resumes processing of vectors.	

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 stepif 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.	

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:	
		 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	Invld 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.	

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 inuse 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 ovld	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 ovld	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:	
		 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:	
		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.	

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		
Avaya Aura [®] Communication Manager Denial Events	Read about system denial events.	Implementation engineers, support engineers, and system administrators
Programming Call Vectoring Features in Avaya Aura [®] Call Center Elite	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 <u>www.avaya-learning.com</u>. 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 <u>https://support.avaya.com/</u> 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.

- 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 <u>https://support.avaya.com</u> 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:
	 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.

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.
со	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.

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.

МСН	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.

ТАС	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).

Index

Α

ACD call delay	7
alternate route selection (ARS)1	
automatic alternate routing (AAR)1	0
Avaya support website <u>5</u>	2

В

best service routing	
multisite	
troubleshooting <u>8</u>	
BSR Application Plan)
BSR malfunctioning	3
BSR polling)

С

central office (CO)	7
clearing events	
conference call drops	
configuring MST	
converse-on command	
debugging	<u>27</u>
customer call redirects to agent's mobile phone	
customer call routing is lost	<u>15</u>

D

data item priority <u>8</u> , <u>9</u>)
denial events <u>48</u>	3

Е

event criteria2	9
event report <u>3</u>	0

G

global variable change <u>45</u>

I

identifying NCR errors <u>12</u>
incorrect steps in status poll vector8
interflow operations <u>10</u>
interflow-qpos conditional7
interflow-qpos EWT threshold6
ISDN message trace

L

list trace	
VDN	<u>12</u>
vector	12
list trace command	
logical agent	<u>48</u>
look-ahead interflow	
troubleshooting	<u>6</u>
look-ahead interflow (LAI)	6
losing track of a customer call	

Μ

message sequence tool (MST)	10
MST, configuring	
multiple call handling (MCH)	

Ν

NCR errors, identifying	<u>12</u>
NCR invocation attempts	
NCR invocation messages	<u>13</u>
NCR troubleshooting	
NCR vector events	<u>12</u>
network redirection	<u>10</u>
no UUI	<u>13</u>

Ρ

nhantom colla to romoto ogo	ents6	
phantom calls to remote ade	nus	į

Q

```
queue slots, exhausting ......<u>8</u>
```

R

```
remote agent call delay .....<u>7</u>
remote agents receive no calls .....<u>7</u>
remote agents receive phantom calls .....<u>6</u>
```

S

shared UUI feature priorities	<mark>8</mark>
SIP NCR errors	13
SIP NCR troubleshooting	
SIP REFER	
sound too low	7
status poll vector, incorrect steps	8
support	

Т

tandem server	
tie trunks, exhausting	
tone and country loss plans	
total loss in conference	
tracking UCIDs	<u>10</u>
troubleshooting	
1,000 step executed	
AAS split cannot queue	
adjunct link error	
adjunct route link invalid	
agent drops converse	
agent mobility	
agent not logged in	
ASA - invalid VDN	<u>31</u>
ASA - no staffed agents	<u>31</u>
ASAI transfer converse	
AUDIX link down	
busy step for CO trunk	<u>31</u>
call cannot be queued	
call dropped	<u>31</u>
cannot connect idle agent	
conference call drops	
converse drop during data	
converse no prompt digits	
converse no qpos digits	<u>31</u>
coverage conference denied	
data return no digits	
data return time out	
dial-ahead discarded	
double coverage attempt	
expected wait-time call not queued	
expected wait-time no history for split	<u>31</u>
expected wait-time not sent to VRU	
invalid destination	
invalid direct agent	
invalid EAS hunt group	<u>31</u>
invalid table number	<u>31</u>
look-ahead	
messaging step failed	
multiple observers	<u>31</u>
multisite BSR	
NCR	
no announcement	
no available trunks	
no digits	
no digits collected	
not a messaging split	
not vector-controlled	
phantom calls to remote agents	
prompting buffer overflow	
queue before route	
queue slot capacity	<u>8</u>
redirect unanswered call	
remote agent call delay	
remote agents call delay	7

troubleshooting (continued)	
remote agents receive no calls	
resume vectors after ovld	<u>31</u>
route-to step failed	<u>31</u>
routing table not assigned	<u>31</u>
service hours table empty	<u>31</u>
SIP NCR	
skill indirection used improperly	31
sound too low	
split queue is full	
suspended vectors in ovld	
system clock change	
tie trunk capacity	8
time not set	
UCID not transmitted	9
UUI not forwarded	
vector with no steps	
wait step music failed	
wait step ringback failed	
1 5	

U

UCID not transmitted	<u>9, 10</u>
universal call identification (UCID)	<u>9</u>
user data length	<u>8</u>
UUI	
not forwarded	
troubleshooting	<u>8</u>
UUI not forwarded	<u>9</u>

V

vector	
events	<u>29, 31</u>
variables	
troubleshooting	<u>46</u>
vector disconnect timer	<u>6</u>
vector events	8
vector steps complete before call queuing	7
videos	