



## **Cisco Unified Contact Center Express Report Developer Guide, Release 12.5(1)**

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### **Americas Headquarters**

Cisco Systems, Inc.  
170 West Tasman Drive  
San Jose, CA 95134-1706  
USA  
<http://www.cisco.com>  
Tel: 408 526-4000  
800 553-NETS (6387)  
Fax: 408 527-0883

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## Preface

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## Change History

This table lists changes made to this guide. Most recent changes appear at the top.

| Change   | See  | Date                |
|--|--|---------------------|
| <b>Initial Release of Document for Release 12.5(1)</b>                                       |  | <b>January 2020</b> |
| Cisco SocialMiner (SM) has been renamed as Customer Collaboration Platform (CCP).            | <a href="#">Preface &gt;&gt; Related Documents</a>   |                     |
| You can now create custom reports without installing Standalone Unified Intelligence Center. | <a href="#">Create Custom Reports&gt;&gt;Overview</a><br><a href="#">Create Custom Reports&gt;&gt;How to Create Custom Reports</a> |                     |

## About This Guide

The *Cisco Unified Contact Center Express Report Developer Guide* describes how database records are written for various call, chat, and email scenarios in Cisco Unified Contact Center Express (Unified CCX). It describes how to create custom reports from Cisco Unified Intelligence Center that is embedded with Unified CCX.

# Audience

This document is intended for Unified CCX users who use Unified Intelligence Center to create custom reports.

## Conventions

This manual uses the following conventions.

| Convention           | Description  |
|----------------------|--|
| <b>boldface font</b> | <p>Boldface font is used to indicate commands, such as user entries, keys, buttons, and folder and submenu names. For example:</p> <ul style="list-style-type: none"> <li>• Choose <b>Edit &gt; Find</b></li> <li>• Click <b>Finish</b>.</li> </ul>  |
| <i>italic font</i>   | <p>Italic font is used to indicate the following:</p> <ul style="list-style-type: none"> <li>• To introduce a new term. Example: A <i>skill group</i> is a collection of agents who share similar skills.</li> <li>• For emphasis. Example: <i>Do not</i> use the numerical naming convention.</li> <li>• An argument for which you must supply values. Example:<br/><i>IF (condition, true-value, false-value)</i></li> <li>• A book title. Example:<br/><i>See the Cisco Unified Contact Center Express Installation Guide.</i></li> </ul> |
| window font          | <p>Window font, such as Courier, is used for the following:</p> <ul style="list-style-type: none"> <li>• Text as it appears in code or information that the system displays. Example:<br/><code>&lt;html&gt;&lt;title&gt; Cisco Systems, Inc.<br/>&lt;/title&gt;&lt;/html&gt;</code></li> <li>• File names. Example:<br/><code>tserver.properties.</code></li> <li>• Directory paths. Example:<br/><code>C:\Program Files\Adobe</code></li> </ul>  |

| Convention    | Description   |
|---------------|---|
| string        | Nonquoted sets of characters (strings) appear in regular font. Do not use quotation marks around a string or the string will include the quotation marks.   |
| [ ]           | Optional elements appear in square brackets.  |
| { x   y   z } | Alternative keywords are grouped in braces and separated by vertical bars.  |
| [ x   y   z ] | Optional alternative keywords are grouped in brackets and separated by vertical bars.   |
| < >           | Angle brackets are used to indicate the following: <ul style="list-style-type: none"> <li>• For arguments where the context does not allow italic, such as ASCII output.</li> <li>• A character string that the user enters but that does not appear on the window such as a password.</li> </ul> |
| ^             | The key labeled Control is represented in screen displays by the symbol ^. For example, the screen instruction to hold down the Control key while you press the D key appears as ^D.  |

## Related Documents

| Document or Resource  | Link  |
|---|---|
| Cisco Unified Contact Center Express Documentation Guide  | <a href="https://www.cisco.com/en/US/products/sw/custcosw/ps1846/products_documentation_roadmaps_list.html">https://www.cisco.com/en/US/products/sw/custcosw/ps1846/products_documentation_roadmaps_list.html</a> |
| Cisco Unified CCX documentation   | <a href="https://www.cisco.com/en/US/products/sw/custcosw/ps1846/tsd_products_support_series_home.html">https://www.cisco.com/en/US/products/sw/custcosw/ps1846/tsd_products_support_series_home.html</a>         |
| Cisco Unified Intelligence Center documentation   | <a href="https://www.cisco.com/en/US/products/ps9755/tsd_products_support_series_home.html">https://www.cisco.com/en/US/products/ps9755/tsd_products_support_series_home.html</a>                                 |
| Cisco Finesse documentation   | <a href="https://www.cisco.com/en/US/products/ps11324/tsd_products_support_series_home.html">https://www.cisco.com/en/US/products/ps11324/tsd_products_support_series_home.html</a>                               |
| Cisco Customer Collaboration Platform documentation   | <a href="https://www.cisco.com/en/US/products/sw/custcosw/ps1846/tsd_products_support_series_home.html">https://www.cisco.com/en/US/products/sw/custcosw/ps1846/tsd_products_support_series_home.html</a>         |
| <p><b>Note</b> From Unified CCX Release 12.5(1), CCP documents are available in the Cisco Unified CCX documentation folder.</p> |   |

| Document or Resource                         | Link  |
|--|---|
| Cisco Unified CCX Virtualization Information | <a href="https://www.cisco.com/c/dam/en/us/td/docs/voice_ip_comm/uc_system/virtualization/virtualization-cisco-unified-contact-center-express.html">https://www.cisco.com/c/dam/en/us/td/docs/voice_ip_comm/uc_system/virtualization/virtualization-cisco-unified-contact-center-express.html</a> |
| Cisco Unified CCX Compatibility Information  | <a href="https://www.cisco.com/c/en/us/support/customer-collaboration/unified-contact-center-express/products-device-support-tables-list.html">https://www.cisco.com/c/en/us/support/customer-collaboration/unified-contact-center-express/products-device-support-tables-list.html</a>           |

## Documentation and Support

To download documentation, submit a service request, and find additional information, see *What's New in Cisco Product Documentation* at <https://www.cisco.com/en/US/docs/general/whatsnew/whatsnew.html>.

## Documentation Feedback

To provide your feedback for this document, send an email to:

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# CHAPTER 1

## Introduction

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- [Overview, on page 1](#)
- [Common Terms, on page 2](#)

## Overview

Cisco Unified Intelligence Center is a reporting platform for users of Cisco Contact Center products. It is a web-based application that provides Historical, Real-time, and Live Data reporting and dashboards.

Unified Intelligence Center serves the following primary purposes:

- Obtains data from the base solution's database. The base solution can be any of the Contact Center products.
- Allows you to create custom queries to obtain specific data.
- Customizes the visual presentation of the reports.
- Customizes the data presented in the reports.
- Allows different groups of people to view specific data based on their roles.

As a reporting user, you can use the new Unified Intelligence Center page to perform the following tasks:

- Create, edit, and manage Dashboards.
- Create, edit, run, and manage Reports.
- Filter data in a report.
- View permalink for Dashboards and Reports.
- Set sharing permissions for Dashboards and Reports.
- Select locale for the Unified Intelligence Center.
- Search for Dashboard and Report.
- Mark Dashboards and Reports as favorites.
- View the personal list of favorites for Dashboards and Reports.
- Schedule reports to run at selected intervals.

- Creating and viewing;
  - Report Definitions
  - Data Sources
  - Value Lists and Collections
  - Users and Permissions (Security)

## Common Terms

### Data Source

Data source defines the sources that contain data for the report. Unified Intelligence Center supports two types of data sources: IBM Informix (Historical Reports) and Streaming (Live-Data Reports). Data sources are preconfigured for you.



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**Note** Additional data sources are not supported.

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### Report Definition

Each report has a report definition that represents how data is retrieved from the data source for that report template. In addition, a report definition contains the dataset that is obtained. This includes the fields, filters, formulas, refresh rate, and key criteria field for the report.

### Reports

Reports show data returned by Report Definitions. This data is extracted by database queries.

### Stock Report

Report that is pre-bundled in Unified Intelligence Center.

### Report Views

A report can be presented in multiple formats like a grid, chart, or a graph and gauge. Each view can have its own set of fields. A single report can have multiple views.

### Report Help

You can attach a help page specifically for your report.



## CHAPTER 2

# Create Custom Reports

- [Overview, on page 3](#)
- [How to Create Custom Reports, on page 3](#)
- [Create Unified CCX Data Source, on page 4](#)
- [Create Custom Stored Procedure, on page 5](#)

## Overview

You *can* create new reports with the Unified Intelligence Center that is embedded with Unified CCX. To create new custom Historical reports, you *need not* install a Standalone Unified Intelligence Center.

## How to Create Custom Reports

The following table describes the task flow to create a new Historical report:

**Table 1: Task Flow to Create Custom Reports**

| Sequence | Task                           | Where performed                        | Reference  |
|----------|--------------------------------|--|--|
| 1        | Create Unified CCX datasource  | Standalone Unified Intelligence Center | See <a href="#">Create Unified CCX Data Source, on page 4</a> .<br>See the "Standalone Cisco Unified Intelligence Center Configuration" section of the Cisco Unified Contact Center Express Administration and Operations Guide , located at:<br><a href="https://www.cisco.com/en/US/products/sw/custcosw/ps1846/products_installation_and_configuration_guides_list.html">https://www.cisco.com/en/US/products/sw/custcosw/ps1846/products_installation_and_configuration_guides_list.html</a> .<br><br><b>Note</b> This is an optional step and is required only when Standalone CUIC is being used to create the custom reports. |
| 2        | Create custom stored procedure | Unified CCX                            | See <a href="#">Create Custom Stored Procedure, on page 5</a> .  |

| Sequence | Task                                     | Where performed                                     | Reference   |
|----------|--|---|---|
| 3        | Create report definition                 | Unified Intelligence Center embedded in Unified CCX | See the "Create or edit report definitions" section of the <i>Cisco Unified Intelligence Center Report Customization Guide</i> , located at:<br><a href="https://www.cisco.com/en/US/products/ps9755/products_user_guide_list.html">https://www.cisco.com/en/US/products/ps9755/products_user_guide_list.html</a> .   |
| 4        | Export custom report                     | Unified Intelligence Center embedded in Unified CCX | See the "Export reports, report definitions, and categories" section of the <i>Cisco Unified Intelligence Center Report Customization Guide</i> , located at:<br><a href="https://www.cisco.com/en/US/products/ps9755/products_user_guide_list.html">https://www.cisco.com/en/US/products/ps9755/products_user_guide_list.html</a> .  |
| 5        | Import custom report to Unified CCX      | Unified Intelligence Center embedded in Unified CCX | See the "Import Reports" section of the <i>Cisco Unified Contact Center Express Report User Guide</i> , located at:<br><a href="https://www.cisco.com/en/US/products/sw/custcosw/ps1846/products_user_guide_list.html">https://www.cisco.com/en/US/products/sw/custcosw/ps1846/products_user_guide_list.html</a> .  |
| 6        | Set permissions to the new custom report | Unified Intelligence Center embedded in Unified CCX | See the "Manage user permissions" section of the <i>Cisco Unified Contact Center Express Administration and Operations Guide</i> , located at:<br><a href="https://www.cisco.com/en/US/products/sw/custcosw/ps1846/products_installation_and_configuration_guides_list.html">https://www.cisco.com/en/US/products/sw/custcosw/ps1846/products_installation_and_configuration_guides_list.html</a> . |

## Create Unified CCX Data Source

Create a Unified CCX data source on the Standalone Unified Intelligence Center server that points to the Unified CCX server.



**Note** Do not create a data source in the Unified Intelligence Center that is bundled with Unified CCX. This scenario is not supported.

### Procedure

- Step 1** Set the password for the Historical Reporting User.
- Log in to Cisco Unified Contact Center Express Administration using the Unified CCX username and password.
  - Select **Tools > Password Management**.
  - In the Historical Reporting User field, set the password, and click **Save**.
- Step 2** Record settings of the existing Unified CCX data source.

- a) Log in to Unified Intelligence Center on the Unified CCX server.
- b) In the left pane, click **Data Sources**.

The **Data Sources** page opens in a separate tab in the right pane.

- c) Select the Unified CCX data source and click **Edit**.
- d) Record the settings in the page so that you can refer to this data later.

**Step 3** Configure a data source on the Standalone Unified Intelligence Center server to point to the Unified CCX server.

- a) Log in to the Standalone Unified Intelligence Center using credentials that has report designer permissions.
- b) In the left pane, click **Data Sources**.
- c) Click **Create** to create a new data source.
- d) Set the parameters as per the settings you recorded in **Step 2d**.

**Note** The database user name should be **uccxhruser** and the password should match the password you set in **Step 1c**.

- e) Click **Test Connection** and verify the settings.

**Tip** If an error is prompted, verify that the settings are correct and try again.

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## Create Custom Stored Procedure



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**Note** Perform the following steps for both Unified CCX nodes, if applicable.

The Unified CCX database schema details are described in the *Database Schema Guide for Cisco Unified CCX and Cisco Unified IP IVR*, located at:

<https://www.cisco.com/c/en/us/support/customer-collaboration/unified-contact-center-express/products-technical-reference-list.html>

### Procedure

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**Step 1** Connect to the db\_cra database using the **uccxhruser** username and password.

**Step 2** Create a stored procedure using third-party tools such as Squirrel SQL Client and AGS Server Studio.

**Step 3** Assign execution privileges for the stored procedure to **uccxHrUserRole** using the following command:

**Example:**

```
grant execute on <your procedure name> to 'uccxHrUserRole';
```

---

### What to do next

See the task flow table in [How to Create Custom Reports, on page 3](#).





## CHAPTER 3

# Interpret Database Records

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- [Overview, on page 7](#)
- [Call Scenarios, on page 7](#)
- [Chat Scenarios, on page 23](#)

## Overview

The following abbreviations are used for database records:

- ACDR—AgentConnectionDetail record in the AgentConnectionDetail table.
- ASDR—AgentStateDetail record in the AgentStateDetail table.
- CCDR—ContactCallDetail record in the ContactCallDetail table.
- CQDR—ContactQueueDetail record in the ContactQueueDetail table.
- CRDR—ContactRoutingDetail record in the ContactRoutingDetail table.
- TACDR—TextAgentConnectionDetail record in the TextAgentConnectionDetail table.
- TCDR—TextContactDetail records in the TextContactDetail table.
- TASDR—TextAgentStateDetail records in the TextAgentStateDetail table.
- TCQDR—TextContactQueueDetail record in the TextContactQueueDetail table.

## Call Scenarios

The following assumptions are made for the call scenarios:

- Auto-work is disabled for incoming Automatic Call Distribution (ACD) calls.
- Auto-available is enabled for agents.

## Call-Related Detail Records Flow

The following table presents an example of the general flow of detail records for incoming ACD calls.

### Assumptions

- Contact Service Queue (CSQ) is configured for auto-work.
- Agent is configured for auto-available.

**Table 2: General Flow of Detail Records for Incoming ACD Calls**

| Call activity                                | Detail record activity  |
|--|---|
| Call reaches the CTI port                    | Allocates session.<br>Begins CDR in memory.                     |
| Call executes the first Select Resource step | Begins CRDR and CQDR in memory.                                 |
| System selects agent and rings the phone     | Begins ACDR in memory, writes ASDR to change state to Reserved. |
| Agent answers                                | Writes ASDR (Talking).  |
| Call disconnects                             | Writes CRDR, CQDRs, ASDR (Work).                                |
| Agent leaves Work state                      | Writes ACDR, CDR, ASDR (Ready).                                 |

If the agent does not enter Work state after the call, the system writes the ACDR and the ASDR (Ready) when the call disconnects. If the agent is not configured to be auto-available, the ASDR relates to the Not Ready state.

## Basic ACD Call Queues for One CSQ

1. Call reaches a Unified CCX route point, executes a script, and queues for one CSQ.
2. System allocates agent A for the call and rings agent A's phone, and agent A answers the call.

**Table 3: Basic ACD Call Queues for One CSQ—Call-Related Detail Records**

| Record | Session ID | Session sequence number | qIndex | Remarks  |
|--------|------------|-------------------------|--------|--|
| CCDR1  | 100        | 0                       | —      | —  |
| CRDR1  | 100        | 0                       | 1      | Overall queue information.   |
| CQDR1  | 100        | 0                       | 1      | Detailed queue information for CSQ1 (targetType = 0; indicates CSQ-based routing). |
| ACDR1  | 100        | 0                       | 1      | Agent A and original call information.   |



**Table 4: Basic ACD Call Queues for One CSQ—Agent State-Change Records**

| Record | Reason       | Remarks                       |
|--------|--------------|-------------------------------|
| ASDR1  | 4 (Reserved) | Agent A is selected for call. |
| ASDR2  | 5 (Talking)  | Agent A answers call.         |
| ASDR3  | 3 (Ready)    | Call ends.                    |

## Basic ACD Call Queues for Two CSQs

1. Call reaches a Unified CCX route point, executes a script, and queues for two CSQs.
2. System allocates agent A for the call and rings agent A's phone, and agent A answers the call.

**Table 5: Basic ACD Call Queues for Two CSQs—Call-Related Detail Records**

| Record | Session ID | Session sequence number | qIndex | Remarks   |
|--------|------------|-------------------------|--------|---|
| CCDR1  | 100        | 0                       | —      | —   |
| CRDR1  | 100        | 0                       | 1      | Overall queue information.  |
| CQDR1  | 100        | 0                       | 1      | Overall queue information for CSQ1 (targetType = 0, targetID = ID of CSQ1). |
| CQDR2  | 100        | 0                       | 1      | Overall queue information for CSQ2 (targetType = 0, targetID = ID of CSQ2). |
| ACDR1  | 100        | 0                       | 1      | Agent A and original call information.                                      |

## Basic ACD Call Wrap-Up

1. Call reaches a Unified CCX route point, executes a script, and queues for one CSQ.
2. System allocates agent A for the call and rings agent A's phone, and agent A answers the call.
3. After completing the call, agent A goes to Work state, and chooses a wrap-up code.

**Table 6: Basic ACD Call Wrap-Up—Call-Related Detail Records**

| Record | Session ID | Session sequence number | qIndex | Remarks                    |
|--------|------------|-------------------------|--------|----------------------------|
| CCDR1  | 100        | 0                       | —      | —                          |
| CRDR1  | 100        | 0                       | 1      | Overall queue information. |

| Record | Session ID | Session sequence number | qIndex | Remarks  |
|--------|------------|-------------------------|--------|--|
| CQDR1  | 100        | 0                       | 1      | Detailed queue information for CSQ1 (targetType = 0; indicates CSQ-based routing). |
| ACDR1  | 100        | 0                       | 1      | Agent A and original call information with wrap-up code.                           |

**Table 7: Basic ACD Call Wrap-Up—Agent State-Change Records**

| Record | Reason       | Remarks                       |
|--------|--------------|-------------------------------|
| ASDR1  | 4 (Reserved) | Agent A is selected for call. |
| ASDR2  | 5 (Talking)  | Agent A answers call.         |
| ASDR3  | 6 (Work)     | Call ends.                    |
| ASDR4  | 3 (Ready)    | Agent A goes to Ready state.  |

## Basic Agent-Based Routing Call

1. Call reaches a Unified CCX route point, executes a script, and selects agent A.
2. System allocates agent A for the call and rings agent A's phone, and agent A answers the call.

**Table 8: Basic Agent-Based Routing Call—Agent State-Change Records**

| Record | Reason       | Remarks                       |
|--------|--------------|-------------------------------|
| ASDR1  | 4 (Reserved) | Agent A is selected for call. |
| ASDR2  | 5 (Talking)  | Agent A answers call.         |
| ASDR3  | 3 (Ready)    | Call ends.                    |

**Table 9: Basic Agent-Based Routing Call—Call-Related Detail Records**

| Record | Session ID | Session sequence number | qIndex | Remarks   |
|--------|------------|-------------------------|--------|---|
| CCDR1  | 100        | 0                       | —      | —   |
| CRDR1  | 100        | 0                       | 1      | Overall queue information.  |
| CQDR1  | 100        | 0                       | 1      | Detailed information for the routing attempt (targetType = 1; indicates agent-based routing). |
| ACDR1  | 100        | 0                       | 1      | Agent A and original call information.  |

**Table 10: Basic Agent-Based Routing Call—Agent State-Change Records**

| Record | Reason       | Remarks                       |
|--------|--------------|-------------------------------|
| ASDR1  | 4 (Reserved) | Agent A is selected for call. |
| ASDR2  | 5 (Talking)  | Agent A answers call.         |
| ASDR3  | 3 (Ready)    | Call ends.                    |

## Transfer to Route Point

1. Call reaches a Unified CCX route point, executes a script, and queues for one CSQ.
2. System allocates agent A for the call and rings agent A's phone, and agent A answers the call.
3. Agent A transfers the call to a Unified CCX route point.
4. Call executes a script, queues for one or more CSQs, and connects to agent B.
5. Server begins a new session and CDR as soon as agent A starts the consult call.
6. Server writes the CDR for the consult call either when agent A completes the transfer or when agent A or the script terminates that call.

**Table 11: Transfer to Route Point—Call-Related Detail Records**

| Record | Session ID | Session sequence number | qIndex | Remarks  |
|--------|------------|-------------------------|--------|--|
| CCDR1  | 100        | 0                       | —      | Transfer field will be 1.  |
| CRDR1  | 100        | 0                       | 1      | Overall queue information for the first segment of the call (before the transfer).         |
| ACDR1  | 100        | 0                       | 1      | Agent A and original call information.   |
| CQDR1  | 100        | 0                       | 1      | Detailed queue information for the CSQ that is selected by the first route point's script. |
| CCDR2  | 101        | 0                       | —      | Consult call from agent A to route point.  |
| CCDR3  | 100        | 1                       | —      | Second leg of original call to new route point.  |
| CRDR3  | 100        | 1                       | —      | Overall queue information for the second segment of the call (after the transfer).         |
| CQDR3  | 100        | 1                       | 1      | Queue information for second leg of call.  |
| ACDR3  | 100        | 1                       | 1      | Agent B and original call information.   |

## Conference to Agent

1. Call reaches a Unified CCX route point, executes a script, and queues for one CSQ.
2. System allocates agent A for the call and rings agent A's phone, and agent A answers the call.
3. Agent A calls another logged-in agent (agent B), and conferences agent B into the original call.
4. Server begins a new session and CCDR as soon as agent A starts the consult call.
5. Server writes the CCDR for the consult call either when agent A completes the conference or when agent A or agent B terminates the consult call.



- Note**
1. The server does not create a new CCDR or CRDR after the conference is completed.
  2. An asterisk (\*) indicates that another record has the same name, but the record is for a different agent.

*Table 12: Conference to Agent—Call-Related Detail Records*

| Record | Session ID | Session sequence number | qIndex | Remarks  |
|--------|------------|-------------------------|--------|--|
| CCDR1  | 100        | 0                       | —      | Conference field will be 1.  |
| CRDR1  | 100        | 0                       | 1      | Overall queue information.   |
| ACDR1  | 100        | 0                       | 1      | Agent A and original call information.   |
| CQDR1  | 100        | 0                       | 1      | Detailed queue information for CSQ1 (targetType = 0; indicates CSQ-based routing). |
| CCDR2  | 101        | 0                       | —      | Consult call from agent A to agent B.  |
| ACDR1* | 100        | 0                       | 0      | Agent B and original call information.   |

## Workflow Redirect to Route Point

1. Call reaches a Unified CCX route point.
2. Workflow for that route point redirects the call to a second route point.

*Table 13: Workflow Redirect to Route Point—Call-Related Detail Records*

| Record | Session ID | Session sequence number | Remarks   |
|--------|------------|-------------------------|---|
| CCDR1  | 100        | 0                       | Caller to first route point (redirect field will be 1). |
| CCDR2  | 100        | 1                       | Caller to second route point.                           |

## ACD Call Unanswered

1. Call reaches a Unified CCX route point, executes a script, and queues for one or more CSQs.
2. System allocates agent A for the call and rings agent A's phone, but agent A does not answer the call within the timeout specified in the Select Resource or Connect step.
3. Call goes into queue and is presented to agent B, who answers the call.



**Note** An asterisk (\*) indicates that another record has the same name, but the record is for a different agent.

**Table 14: ACD Call Unanswered—Call-Related Detail Records**

| Record | Session ID | Session sequence number | qIndex | Remarks  |
|--------|------------|-------------------------|--------|--|
| CCDR1  | 100        | 0                       | —      | —  |
| CRDR1  | 100        | 0                       | 1      | Overall queue information.   |
| CQDR1  | 100        | 0                       | 1      | Detailed queue information for the CSQ selected by the route point script. |
| ACDR1  | 100        | 0                       | 1      | Agent A information, ring time > 0 and talk time = 0.                      |
| ACDR1* | 100        | 0                       | 1      | Agent B information, talk time > 0.  |

**Table 15: ACD Call Unanswered—Agent State-Change Records**

| Record | Agent | State         | Reason Code | Remarks                                       |
|--------|-------|---------------|-------------|---|
| ASDR1  | A     | 4 (Reserved)  | —           | Agent A is selected for call.                 |
| ASDR2  | A     | 2 (Not Ready) | 32763       | Server retrieves call from the agent's phone. |
| ASDR3  | B     | 4 (Reserved)  | —           | Agent B is selected for call.                 |
| ASDR4  | B     | 5 (Talking)   | —           | Agent B answers call.                         |

## Agent-to-Agent Non-ACD Call

1. Agent A goes off-hook and calls agent B.
2. Agent B answers, the two agents talk for a while, and agent B hangs up.

Table 16: Agent-to-Agent Non-ACD Call—Call-Related Detail Records

| Record | Session ID | Session sequence number | Remarks                         |
|--------|------------|-------------------------|---------------------------------|
| CCDR1  | 100        | 0                       | Agent A to agent B information. |

Table 17: Agent-to-Agent Non-ACD Call—Agent State-Change Records

| Record | Agent | State         | Reason Code | Remarks                        |
|--------|-------|---------------|-------------|--------------------------------|
| ASDR1  | A     | 2 (Not Ready) | 32762       | Agent A goes off-hook.         |
| ASDR2  | B     | 2 (Not Ready) | 32761       | Call rings at agent B's phone. |
| ASDR3  | B     | 3 (Ready)     | —           | Agent B hangs up.              |
| ASDR4  | A     | 3 (Ready)     | —           | —                              |

## Agent-to-Agent Non-ACD Call Transfer

1. Agent A receives a non-ACD call from an unknown party.
2. Agent A places a consult call to agent B, agent B answers the call, and agent A completes the transfer.
3. Agent B then hangs up.

Table 18: Agent-to-Agent Non-ACD Call Transfer—Call-Related Detail Records

| Record | Session ID | Session sequence number | Remarks  |
|--------|------------|-------------------------|--|
| CCDR1  | 100        | 0                       | Unknown party to agent A information (transfer field will be 1). |
| CCDR2  | 101        | 0                       | Agent A to agent B information.                                  |
| CCDR3  | 100        | 1                       | Unknown party to agent B information.                            |

Table 19: Agent-to-Agent Non-ACD Call Transfer—Agent State-Change Records

| Record | Agent | State         | Reason Code | Remarks                                |
|--------|-------|---------------|-------------|--|
| ASDR1  | A     | 2 (Not Ready) | 32761       | First call rings at agent A's phone.   |
| ASDR2  | B     | 2 (Not Ready) | 32761       | Consult call rings at agent B's phone. |
| ASDR3  | A     | 3 (Ready)     | —           | Agent A completes transfer.            |

| Record | Agent | State     | Reason Code | Remarks           |
|--------|-------|-----------|-------------|-------------------|
| ASDR4  | B     | 3 (Ready) | —           | Agent B hangs up. |

## Agent-to-Agent Non-ACD Call Conference

1. Agent A receives a non-ACD call from an unknown party.
2. Agent A places a consult call to agent B, and agent B answers the call.
3. Agent A establishes a conference; agent A, agent B, and the caller are in conversation.
4. Agent A hangs up.
5. Agent B hangs up.

*Table 20: Agent-to-Agent Non-ACD Call Conference—Call-Related Detail Records*

| Record | Session ID | Session sequence number | Remarks  |
|--------|------------|-------------------------|--|
| CCDR1  | 100        | 0                       | Unknown party to agent A information (conference field will be 1). |
| CCDR2  | 101        | 0                       | Agent A to agent B information.                                    |

*Table 21: Agent-to-Agent Non-ACD Call Conference—Agent State-Change Records*

| Record | Agent | State         | Reason Code | Remarks                                |
|--------|-------|---------------|-------------|--|
| ASDR1  | A     | 2 (Not Ready) | 32761       | First call rings at agent A's phone.   |
| ASDR2  | B     | 2 (Not Ready) | 32761       | Consult call rings at agent B's phone. |
| ASDR3  | A     | 3 (Ready)     | —           | Agent A hangs up.                      |
| ASDR4  | B     | 3 (Ready)     | —           | Agent B hangs up.                      |

## ACD Call Consult Transfer

1. Agent A is connected and talking to an incoming ACD call.
2. Agent A puts the call on hold and places a consult transfer to agent B.
3. Agent A completes the transfer and then agent B answers.

Table 22: ACD Call Consult Transfer—Call-Related Detail Records

| Record | Session ID | Session sequence number | qIndex | Remarks   |
|--------|------------|-------------------------|--------|---|
| CCDR1  | 100        | 0                       | —      | Original call and agent A information (transfer field will be 1). |
| CRDR1  | 100        | 0                       | 1      | Overall queue information.  |
| ACDR1  | 100        | 0                       | 1      | Agent A information.  |
| CQDR1  | 100        | 0                       | 1      | Queue information.  |
| CCDR2  | 101        | 0                       | —      | Agent A and agent B information.                                  |
| CCDR3  | 100        | 1                       | —      | Original call and agent B information.                            |
| ACDR3  | 100        | 1                       | 0      | Agent B information.  |

Table 23: ACD Call Consult Transfer—Agent State-Change Records

| Record | Agent | Reason       | Remarks                                       |
|--------|-------|--------------|---|
| ASDR1  | A     | 4 (Reserved) | Agent A is selected for original call.        |
| ASDR2  | A     | 5 (Talking)  | Agent A answers.                              |
| ASDR3  | B     | 4 (Reserved) | Agent A calls agent B, agent B's phone rings. |
| ASDR4  | A     | 3 (Ready)    | Agent A competes the transfer.                |
| ASDR5  | B     | 5 (Talking)  | Agent B answers.                              |
| ASDR6  | B     | 3 (Ready)    | Caller hangs up.                              |

## ACD Call Blind Transfer to Agent Extension(ACD/Non-ACD)

1. Agent A is connected and talking to an incoming ACD call.
2. Agent A places a blind transfer to agent B's extension.
3. Agent B answers, Agent A moves to Ready state.

Table 24: ACD Call Blind Transfer to Agent Extension-Call-Related Detail Records

| Record | Session ID | Session sequence number | qIndex | Remarks  |
|--------|------------|-------------------------|--------|--|
| CCDR   | 100        | 0                       | -      | Contact and agent information.                         |
| CRDR   | 100        | 0                       | 1      | Overall queue information of CSQ of incoming ICD call. |



| Record | Session ID | Session sequence number | qIndex | Remarks              |
|--------|------------|-------------------------|--------|----------------------|
| ACDR1  | 100        | 0                       | 1      | Agent A information. |
| CQDR   | 100        | 0                       | 1      | Queue information.   |
| ACDR2  | 100        | 0                       | 0      | Agent B information. |

**Table 25: ACD Call Blind Transfer to Agent extension - Agent State-Change Records**

| Record | Agent | Reason       | Remarks   |
|--------|-------|--------------|---|
| ASDR1  | A     | 4 (Reserved) | Agent A is selected for original call.                              |
| ASDR2  | A     | 5 (Talking)  | Agent A answers.  |
| ASDR3  | B     | 4 (Reserved) | Agent A initiates blind transfer to agent B, agent B's phone rings. |
| ASDR4  | A     | 3 (Ready)    | Agent A after blind transfer.                                       |
| ASDR5  | B     | 5 (Talking)  | Agent B answers.  |
| ASDR6  | B     | 3 (Ready)    | Caller hangs up.  |

## ACD Call Blind Transfer to Route Point

1. Agent A is connected and talking to an incoming ACD call.
2. Agent A initiates a blind transfer to a route point.
3. Agent B answers, Agent A moves to Ready state.

**Table 26: ACD Call Blind Transfer to Route Point - Call-Related Detail Records**

| Record | Session ID | Session sequence number | qIndex | Remarks  |
|--------|------------|-------------------------|--------|--|
| CCDR   | 100        | 0                       | —      | Contact and agent information.                         |
| CRDR1  | 100        | 0                       | 1      | Overall queue information of CSQ of incoming ICD call. |
| ACDR1  | 100        | 0                       | 1      | Agent A information.                                   |
| CQDR1  | 100        | 0                       | 1      | Queue information.                                     |
| ACDR2  | 100        | 0                       | 0      | Agent B information.                                   |
| CQDR2  | 100        | 0                       | 1      | Queue information.                                     |

| Record | Session ID | Session sequence number | qIndex | Remarks  |
|--------|------------|-------------------------|--------|--|
| CRDR2  | 100        | 0                       | 1      | Overall queue information for CSQ after blind transfer is initiated. |

Table 27: ACD Call Blind Transfer to Route Point - Agent State-Change Records

| Record | Agent | Reason       | Remarks   |
|--------|-------|--------------|---|
| ASDR1  | A     | 4 (Reserved) | Agent A is selected for original call.                              |
| ASDR2  | A     | 5 (Talking)  | Agent A answers.  |
| ASDR3  | B     | 4 (Reserved) | Agent A initiates blind transfer to agent B, agent B's phone rings. |
| ASDR4  | A     | 3 (Ready)    | Agent A after blind transfer.                                       |
| ASDR5  | B     | 5 (Talking)  | Agent B answers.  |
| ASDR6  | B     | 3 (Ready)    | Caller hangs up.  |

## Agent Places Consult Call and Resumes Call

1. Agent A is connected to an incoming ACD call.
2. Agent A presses the **Transfer** button on the phone to initiate a consult call with agent B.
3. Agent A receives a dial tone, drops the consult call, and resumes the incoming call.

Table 28: Agent Places Consult Call Then Resumes Call—Call-Related Detail Records

| Record | Session ID | Session sequence number | qIndex | Remarks   |
|--------|------------|-------------------------|--------|---|
| CCDR1  | 100        | 0                       | —      | Original call and agent A information.  |
| CRDR1  | 100        | 0                       | 1      | Overall queue information.  |
| CQDR1  | 100        | 0                       | 1      | Detailed queue information for CSQ1 (targetType = 0; indicates CSQ-based routing).  |
| ACDR1  | 100        | 0                       | 1      | Includes talk time both before and after the canceled consult call, and contains hold time for the duration of the canceled consult call. |
| CCDR2  | 101        | 0                       | —      | Agent A information, no called-party information.   |

**Table 29: Agent Places Consult Call Then Resumes Call—Agent State-Change Records**

| Record | Agent | Reason       | Remarks                                |
|--------|-------|--------------|--|
| ASDR1  | A     | 4 (Reserved) | Agent A is selected for original call. |
| ASDR2  | A     | 5 (Talking)  | Agent A answers.                       |
| ASDR3  | A     | 3 (Ready)    | Caller hangs up.                       |

## Agent Consults Agent and Resumes Call

1. Agent A is connected to an incoming ACD call.
2. Agent A puts that call on hold and initiates a consult transfer to agent B.
3. Agent B answers, talks to agent A for some time, and then hangs up without agent A completing the transfer.
4. Agent A resumes the original call.

**Table 30: Agent Consults Agent Then Resumes Call—Call-Related Detail Records**

| Record | Session ID | Session sequence number | qIndex | Remarks  |
|--------|------------|-------------------------|--------|--|
| CCDR1  | 100        | 0                       | —      | Original call and agent A information.   |
| CRDR1  | 100        | 0                       | 1      | Overall queue information.   |
| CQDR1  | 100        | 0                       | 1      | Detailed queue information for CSQ1 (targetType = 0; indicates CSQ-based routing).   |
| CCDR2  | 101        | 0                       | —      | Agent A to agent B.  |
| ACDR1  | 100        | 0                       | 1      | Includes talk time both before and after the consult call, and contains hold time for the duration of the canceled consult call. |

**Table 31: Agent Consults Agent Then Resumes Call—Agent State-Change Records**

| Record | Agent | Reason       | Remarks                                       |
|--------|-------|--------------|---|
| ASDR1  | A     | 4 (Reserved) | Agent A is selected for original call.        |
| ASDR2  | A     | 5 (Talking)  | Agent A answers.                              |
| ASDR3  | B     | 4 (Reserved) | Agent A calls agent B, agent B's phone rings. |
| ASDR4  | B     | 5 (Talking)  | Agent B answers.                              |
| ASDR5  | B     | 3 (Ready)    | Agent B disconnects from consult call.        |

| Record | Agent | Reason    | Remarks                           |
|--------|-------|-----------|-----------------------------------|
| ASDR6  | A     | 3 (Ready) | Caller disconnects original call. |

## Basic Outbound Call Accepted

1. Call is presented to agent A, and agent A accepts the call.
2. System places the call from agent A to the customer.

*Table 32: Basic Outbound Call Accepted—Call-Related Detail Records*

| Record | Session ID | Session sequence number | Remarks                   |
|--------|------------|-------------------------|---------------------------|
| CCDR1  | 100        | 0                       | —                         |
| ACDR1  | 100        | 0                       | Call result is 1 (voice). |

*Table 33: Basic Outbound Call Accepted—Agent State-Change Records*

| Record | Reason       | Remarks                                  |
|--------|--------------|--|
| ASDR1  | 4 (Reserved) | Agent A is presented with outbound call. |
| ASDR2  | 5 (Talking)  | Agent A accepts call.                    |
| ASDR3  | 3 (Ready)    | Call ends.                               |

## Basic Outbound Call Rejected and Later Accepted

1. Call is presented to agent A, and agent A rejects the call.
2. Call is then presented to agent B, and agent B accepts the call.
3. System places the call from agent B to the customer.

*Table 34: Basic Outbound Call Rejected and Later Accepted—Call-Related Detail Records*

| Record | Session ID | Session sequence number | Remarks                    |
|--------|------------|-------------------------|----------------------------|
| CCDR1  | 100        | 0                       | —                          |
| ACDR1  | 100        | 0                       | Call result is 9 (reject). |
| ACDR2  | 100        | 0                       | Call result is 1 (voice).  |

**Table 35: Basic Outbound Call Rejected and Later Accepted—Agent State-Change Records**

| Record | Reason       | Remarks                                  |
|--------|--------------|--|
| ASDR1  | 4 (Reserved) | Agent A is presented with outbound call. |
| ASDR1  | 3 (Ready)    | Agent A rejects call.                    |
| ASDR1  | 4 (Reserved) | Agent B is presented with outbound call. |
| ASDR2  | 5 (Talking)  | Agent B accepts call.                    |
| ASDR3  | 3 (Ready)    | Call ends.                               |

## Basic Outbound Call Accepted and Transferred to Another Agent

1. Call is presented to agent A, and agent A accepts the call.
2. System places the call from agent A to the customer.
3. Agent A transfers the call to agent B.

**Table 36: Basic Outbound Call Accepted and Transferred to Another Agent—Call-Related Detail Records**

| Record | Session ID | Session sequence number | Remarks   |
|--------|------------|-------------------------|---|
| CCDR1  | 100        | 0                       | —   |
| ACDR1  | 100        | 0                       | Call result is 1 (voice).                         |
| CCDR2  | 200        | 0                       | Consult call from agent A to agent B information. |
| CCDR3  | 100        | 1                       | Outbound call at agent B information.             |
| ACDR2  | 100        | 1                       | Call result is 20 (transfer).                     |

**Table 37: Basic Outbound Call Accepted and Transferred to Another Agent—Agent State-Change Records**

| Record | Reason       | Remarks                                  |
|--------|--------------|--|
| ASDR1  | 4 (Reserved) | Agent A is presented with outbound call. |
| ASDR2  | 5 (Talking)  | Agent A accepts call.                    |
| ASDR3  | 3 (Ready)    | Agent A transfers call to agent B.       |
| ASDR1  | 4 (Reserved) | Agent B is presented with outbound call. |
| ASDR2  | 5 (Talking)  | Agent B on outbound call.                |
| ASDR3  | 3 (Ready)    | Call ends.                               |

## Basic Outbound Call Accepted and Transferred to Route Point

1. Call is presented to agent A, and agent A accepts the call.
2. System places the call from agent A to the customer.
3. Agent A transfers the call to a route point.
4. Call reaches a Unified CCX route point, executes a script, and queues for one CSQ.
5. System allocates agent B for the call and rings agent B's phone, and agent B answers the call.

**Table 38: Basic Outbound Call Accepted and Transferred to Route Point—Call-Related Detail Records**

| Record | Session ID | Session sequence number | qIndex | Remarks  |
|--------|------------|-------------------------|--------|--|
| CCDR1  | 100        | 0                       | —      | —  |
| ACDR1  | 100        | 0                       | —      | Call result is 1 (voice).  |
| CCDR2  | 200        | 0                       | —      | Consult call from agent A to route point information.                              |
| CCDR3  | 100        | 1                       | —      | Outbound call is queued.   |
| CRDR1  | 100        | 1                       | 1      | Overall queue information.   |
| CQDR1  | 100        | 1                       | 1      | Detailed queue information for CSQ1 (targetType = 0; indicates CSQ-based routing). |
| ACDR1  | 100        | 1                       | 1      | Agent B and original call information.   |

**Table 39: Basic Outbound Call Accepted and Transferred to Route Point—Agent State-Change Records**

| Record | Reason       | Remarks                                  |
|--------|--------------|--|
| ASDR1  | 4 (Reserved) | Agent A is presented with outbound call. |
| ASDR2  | 5 (Talking)  | Agent A accepts call.                    |
| ASDR3  | 3 (Ready)    | Agent A transfers call to route point.   |
| ASDR1  | 4 (Reserved) | Agent B is selected for call.            |
| ASDR2  | 5 (Talking)  | Agent B answers call.                    |
| ASDR3  | 3 (Ready)    | Call ends.                               |

# Chat Scenarios

## Chat-Related Detail Records Flow

The following table presents an example of the general flow of detail records for incoming chat contacts.

**Table 40: General Flow of Detail Records for Incoming Chat Contacts**

| Chat activity                                  | Detail record activity                                   |
|--|--|
| Contact reaches Unified CCX                    | Begins TCDR in memory.                                   |
| Contact is queued to a CSQ                     | —  |
| Agent is allocated to the contact              | Writes ASDR (Busy).                                      |
| Agent answers and contact is dequeued from CSQ | Collects TCQDR in memory.                                |
| Contact disconnects                            | Collects TACDR, TCCDR. Writes TCCDR, TCDR, TCQDR, TACDR. |
| Agent leaves Work state                        | Writes ASDR (Ready).                                     |

If the contact drops before agent is connected, TCQDR is collected and written when the contact disconnects.

## Chat Contact Unanswered

1. Contact reaches Unified CCX and queues for one or more CSQs.
2. System allocates agent A for the contact and offers the contact to the agent, but agent A does not answer the contact within the configured timeout period.
3. Call goes into queue and is presented to agent B, who answers the call.

**Table 41: Chat Contact Unanswered Scenario—Chat-Related Detail Records**

| Record   | Remarks                   |
|--|---------------------------|
| Contact is queued to a CSQ                         | —                         |
| Agent is allocated to the contact                  | Writes ASDR (Busy).       |
| Agent does not accept the contact                  | Writes ASDR (Not Ready).  |
| Contact is requeued to CSQ                         | Collects TACDR1.          |
| Contact is allocated to a different agent          | Writes ASDR (Busy).       |
| Agent answers and contact is dequeued from the CSQ | Collects TCQDR in memory. |

| Record                  | Remarks  |
|-------------------------|--|
| Contact disconnects     | Collects TACDR2, TCCDE. Writes TACDR1, TACDR2, TCDR, TCQDR, TCCDR. |
| Agent leaves Work state | Writes ASDR (Ready).   |