

Troubleshoot Voice Queue Routing Decisions with Analyzer Report

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Introduction

This document describes how to use Analyzer reports in order to investigate queue routing decisions and parked contacts in Webex Contact Center.

Prerequisites

Requirements

Cisco recommends that you have knowledge of these topics:

- Webex Contact Center (WxCC) 2.0
- Analyzer Reports
- Queue Routing
- Skills-Based Routing
- Flow Designer

Components Used

The information in this document is based on these software and hardware versions:

- Webex Contact Center (WxCC) 2.0

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

Overview

Queue routing investigations are a common activity in Webex Contact Center. you can report that a voice contact remained parked or queued even though agents appeared to be available.

Understanding the routing decision requires correlating multiple data points, such as queue configuration, team distribution, skill assignment, and agent activity during the affected timestamps. While some of this information is available through stock Analyzer reports, you often need additional visibility in order to determine why a contact was not routed.

This document focuses on voice interactions only. Digital channels such as chat, email, SMS, and social messaging are outside the scope of this article.

The custom Analyzer report template described in this document helps consolidate routing-related information and provides additional visibility when you investigate parked contacts and queue routing behavior in Webex Contact Center.

Analyzer Report Template

The Agent State - TAC (Technical Assistance Center) report template provides visibility into agent activity during a specified period. The report can be used to review agent state transitions, team assignments, and skill assignments when you investigate queue-routing scenarios.

You can find the Agent State - TAC report template attached to this article in the bottom.

Report Contents

The report contains the below fields:

- Team Name
- Agent Name
- Agent Skills
- Activity State
- Idle Code Name
- Reason
- Activity Start Timestamps
- Activity End Timestamps
- Contact Session ID

Import the Report Template

Import the attached Agent State - TAC report template into Analyzer.

Troubleshoot

Identify the Affected Queue

Obtain the Interaction ID associated with the reported issue.

Use the CSR Report - Yesterday (Customer Session Record) report in order to locate the interaction and identify:

- Queue Name
- Parked period
- Contact duration

Record the timeframe during which the contact remained parked, since it is required for the remainder of the investigation.

Review Queue Configuration

Navigate to Control Hub and review the queue configuration.

Verify:

- Queue Name
- Team Distribution
- Routing Type
- Queue settings

Determine which teams are eligible to receive contacts from the affected queue.

Review Skill Configuration

Determine whether the queue uses skill-based routing.

If skill-based routing is enabled, verify whether skills are assigned:

- Directly on the queue
- Through Flow Designer

If skills are assigned through **Flow Designer**, review the flow and identify all skills applied before the **Queue Contact** activity.

Document the skill requirements applied to the contact.

Run the Agent State Report

Configure the report timeframe in order to match the parked period identified earlier.

Review the below fields:

- Team Name
- Agent Name
- Agent Skills
- Activity State
- Idle Code Name
- Activity Start Timestamp
- Activity End Timestamp

Validate Agent Eligibility

Compare the queue routing requirements against the agents identified in the report.

Verify:

- Agent belongs to an eligible team.
- Agent possesses the required skills.
- Agent activity state allows routing.
- Agent was active during the parked period.

Determine the Routing Outcome

After completing the analysis, determine whether the routing behavior was expected.

Common findings include:

- No agent belonged to the assigned team.
- No agent possessed the required skills.
- Agents were not in a routable state.
- Team distribution restricted the eligible agent pool.
- Queue-level or flow-level skills restricted the eligible agent pool.

Scenario 1: Flow-Level Skills Restrict Routing

Using the **Interaction ID**, review the **CSR Report - Yesterday** report and identify the queue and parked period associated with the contact.

In this example:

- Queue Name: **QueueOne**
- Activity State: **parked**
- Activity Duration: **2 min 1 sec**
- Required Skills: **English >= 5**
- Activity Start Timestamp: **10/4/2026 6:31:34 AM**

- Activity End Timestamp: **10/4/2026 6:33:35 AM**

Drill Down

Search

Fields

Measures

Activity Count

Activity Duration

Activity End Timestamp

Activity Span

Activity Start Timestamp

routing.predicted.CSAT

routing.predicted.Handle Time

Call Paused Count

Call Resumed Count

Callback Request Time

Email Date

Email Disposition

	Activity State	Queue Name	Activity Duration	Required Skills	Activity Start Timestamp	Activity End Timestamp	Next State	
	new	N/A	275 ms	N/A	10/4/2026 6:31:34 AM	10/4/2026 6:31:34 AM	parked	E
	flow-started	N/A	0 ms	N/A	10/4/2026 6:31:34 AM	10/4/2026 6:31:34 AM	N/A	N
	flow-activity	N/A	0 ms	N/A	10/4/2026 6:31:34 AM	10/4/2026 6:31:34 AM	N/A	E
f9-b4...	queued	QueueOne	2 min 1 sec	English>+5	10/4/2026 6:31:34 AM	10/4/2026 6:33:35 AM	ended	N
f9-b4...	parked	QueueOne	2 min 1 sec	English>+5	10/4/2026 6:31:34 AM	10/4/2026 6:33:35 AM	ended	E
	flow-activity	N/A	0 ms	N/A	10/4/2026 6:31:34 AM	10/4/2026 6:31:34 AM	N/A	E
	flow-activity	N/A	0 ms	N/A	10/4/2026 6:33:35 AM	10/4/2026 6:33:35 AM	N/A	E
f9-b4...	ended	QueueOne	0 ms	N/A	10/4/2026 6:33:35 AM	10/4/2026 6:33:35 AM	N/A	E

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Review Queue Configuration

Navigate to **Control Hub > Contact Center > Queues** and review the configuration of the affected Queue.

Verify the below:

- Team Distribution
- Skills-Based Routing configuration
- Skill Assignment Type

In this example:

- The queue is associated with **Team3_osweidan_TS**.
- Skills-Based Routing is enabled.
- Skills are configured through **Assign skills in flows** rather than directly on the queue.

QueueOne

Active

Contact routing settings

Skills-based routing

☒ Use skills-based routing for this queue
Turn this option on to route contacts to agents with a required skill set. You can't change this once you've created the queue.

Skill assignment type

☐ Assign skills to the queue
Configure skill requirements for this queue. Only agents who meet the criteria can support contacts.

☒ Assign skills in flows
Configure skill requirements each time this queue is used in a different flow. Assign teams to ensure that agents who meet the criteria are always available. For more flow activity setup, [go to Flow Designer Queue Contact](#).

Agent assignment *

Choose how agents are assigned to the queue. You can't change this once you've created the queue.

Teams

Run the Agent State Report

Execute the Agent State - TAC report using the parked timeframe identified in the CSR report.
Using the team identified from the queue configuration, filter the report on the **Team Name** column:

SettingsShareExportAgent State - TAC

Time Zone : (UTC-05:00) Central Daylight Time (America/Chicago)

Module1

DurationToday

Team Name	Agent Skills	Activity State	Idle Code Name	Reason	Activity Start Timestamp
Team3		idle	lunch	N/A	10/04/26 04:04:41
Team3		logged-out	lunch	MACHINE Logged Out	10/04/26 05:03:10
Team3	True, Task1=5, Task2=5	idle	lunch	N/A	10/04/26 06:11:17
Team3	True, Task1=5, Task2=5	available	N/A	N/A	10/04/26 06:13:15
Team3	True, Task1=5, Task2=5	idle	lunch	agent-wss-disconnect	10/04/26 06:44:32
Team3	True, Task1=5, Task2=5	logged-out	lunch	MACHINE Logged Out	10/04/26 06:46:32

Validate Agent Eligibility

Review the below fields:

- Agent Name
- Agent Skills
- Activity State
- Idle Code Name
- Activity Start Timestamp
- Activity End Timestamp

Compare the routing requirements against the agents returned by the report.

Queue Requirements

- Queue Name: QueueOne
- Team: Team3
- Required Skill: English >= 5

The Agent State report confirms that:

- The agent belongs to the correct team.
- The agent was in the **available** state during the parked period.
- The agent was available from **06:13:15 AM** until **06:44:32 AM**, which overlaps the parked timeframe (**06:31:34 AM - 06:33:35 AM**).
- The agent assigned skills are:
 - Task1 = 5
 - Task2 = 5
 - Chat = True

Settings Share Export Agent State -TAC Time Zone : (UTC-05:00) Central Daylight Time (America/Chicago)

Module1

Duration Today

Agent Na...	Agent Skills	Activity State	Idle Code Name	Reason	Activity Start Timestamp	Activity End Timestamp	Contact
Admin4 Test	N/A	idle	lunch	N/A	10/04/26 04:04:41	10/04/26 05:03:10	N/A
Admin4 Test	N/A	logged-out	lunch	MACHINE Logged Out	10/04/26 05:03:10	10/04/26 05:03:10	N/A
	Chat=True, Task1=5, Task2=5	idle	lunch	N/A	10/04/26 06:11:17	10/04/26 06:13:15	N/A
Agent	Chat=True, Task1=5, Task2=5	available	N/A	N/A	10/04/26 06:13:15	10/04/26 06:44:32	N/A
	Chat=True, Task1=5, Task2=5	idle	lunch	agent-wss-disconnect	10/04/26 06:44:32	10/04/26 06:46:32	N/A
	Chat=True, Task1=5, Task2=5	logged-out	lunch	MACHINE Logged Out	10/04/26 06:46:32	10/04/26 06:46:32	N/A

This scenario demonstrates that agent availability alone does not guarantee contact delivery. Even when an agent belongs to the correct team and is available during the parked period, skill requirements applied through **Flow Designer** can prevent the contact from being routed if the agent does not possess the required skill assignment.



Note: In this scenario, the root cause was that the available agent did not possess the required skill (English >= 5) applied through Flow Designer. If an agent is assigned to the correct team and possesses the required skill, the next step is to review the agent availability during the parked period. Verify that the agent was in a routable state and available to receive contacts throughout the timeframe identified in the CSR report.

Scenario 2: No Available Agents During the Parked Period

Using the **Interaction ID**, review the **CSR Report - Yesterday** report and identify the queue and parked period associated with the contact.

In this example:

- Queue Name: **TestQ**
- Activity State: **parked**
- Activity Duration: **2 min 1 sec**
- Activity Start Timestamp: **10/5/2026 6:59:03 AM**
- Activity End Timestamp: **10/5/2026 7:01:04 AM**
- Required Skills: **Not Applicable**

Drill Down

req

Fields

Measures

Callback Request Time

Required Skills

ID	Activity State	Queue Name	Activity Duration	Required Skills	Activity Start Timestamp	Activity End Timestamp	Next State
	new	N/A	224 ms	N/A	10/5/2026 6:59:03 AM	10/5/2026 6:59:03 AM	parked
	flow-started	N/A	0 ms	N/A	10/5/2026 6:59:03 AM	10/5/2026 6:59:03 AM	N/A
	flow-activity	N/A	0 ms	N/A	10/5/2026 6:59:03 AM	10/5/2026 6:59:03 AM	N/A
19-43d3-8...	queued	TestQ	2 min 1 sec	N/A	10/5/2026 6:59:03 AM	10/5/2026 7:01:04 AM	ended
19-43d3-8...	parked	TestQ	2 min 1 sec	N/A	10/5/2026 6:59:03 AM	10/5/2026 7:01:04 AM	ended
	flow-activity	N/A	0 ms	N/A	10/5/2026 6:59:03 AM	10/5/2026 6:59:03 AM	N/A
	flow-activity	N/A	0 ms	N/A	10/5/2026 7:01:04 AM	10/5/2026 7:01:04 AM	N/A
19-43d3-8...	ended	TestQ	0 ms	N/A	10/5/2026 7:01:04 AM	10/5/2026 7:01:04 AM	N/A

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Review Queue Configuration

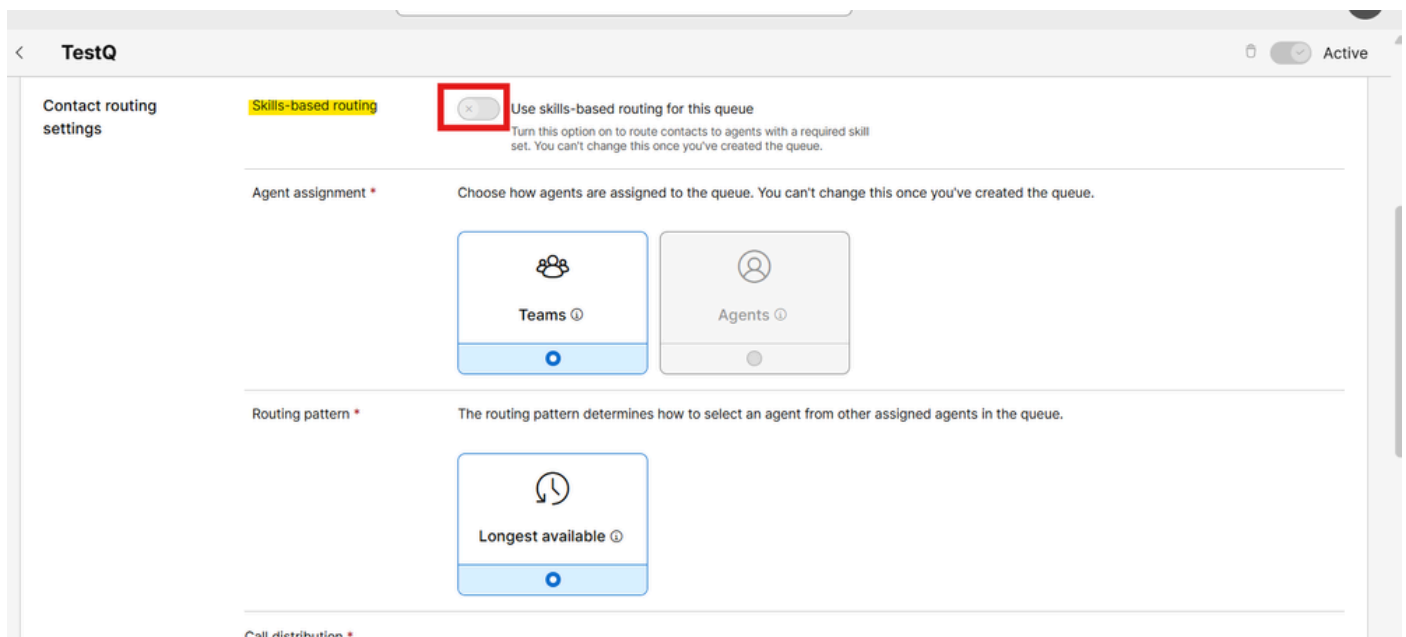
Navigate to **Control Hub > Contact Center > Queues** and review the configuration of the affected Queue.

Verify the below:

- Team Distribution
- Skills-Based Routing configuration
- Skill Assignment Type

The investigation confirms:

- **Skills-Based Routing** is disabled.
- Agent assignment is configured using **Teams**.
- The queue uses the **Longest Available** routing pattern



Review Team Distribution

Review the **Call Distribution** configuration.

In this example, the queue distributes contacts to:

- **Sales**
- **Team3**

These teams represent the agent pool eligible to receive contacts from the queue.

Call distribution *

Create a call distribution group to add a team or more to this queue. To distribute a call to more teams, create multiple groups. Be aware that call distribution is independent of other flow-defined queue logic.

Create a group

Group Details

Priority	Group Name	Switching Time	Actions
1	Group 1	NA	

Team Details	Team name	Site Name	Team type
	Sales	Site_	Agent Based
	Team3	Site_	Agent Based

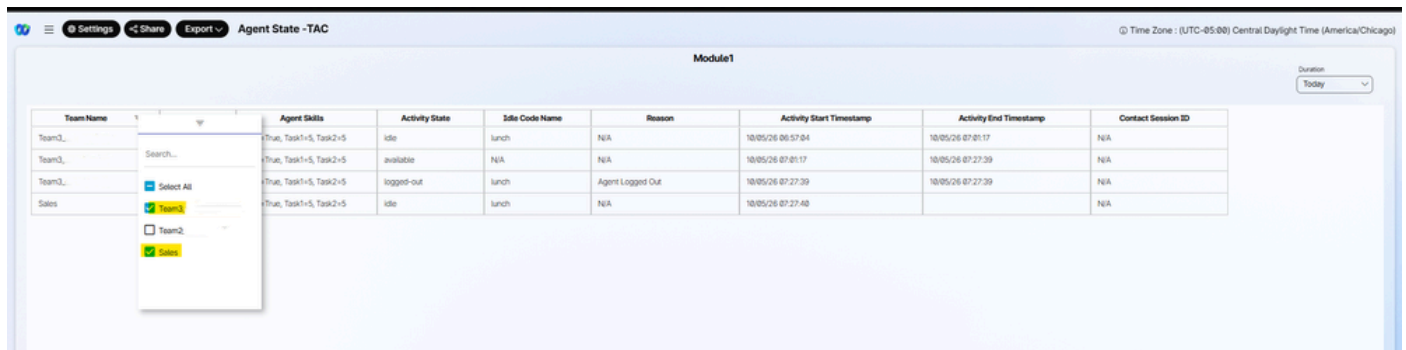
Run the Agent State Report

Execute the **Agent State - TAC** report using the parked timeframe identified in the CSR report:

Start Time: 10/5/2026 6:59:03 AM

End Time: 10/5/2026 7:01:04 AM

Using the team identified from the queue configuration, filter the report on the **Team Name** column:



The screenshot shows the 'Agent State - TAC' report for 'Module1'. A dropdown menu for 'Team Name' is open, showing options: Team3, Search..., Select All, Team1, Team2, and Sales. The table below shows agent activity for various teams.

Team Name	Agent Skills	Activity State	Idle Code Name	Reason	Activity Start Timestamp	Activity End Timestamp	Contact Session ID
Team3	True, Task1=5, Task2=5	Idle	lunch	N/A	10/05/26 06:57:04	10/05/26 07:01:17	N/A
Team3	True, Task1=5, Task2=5	available	N/A	N/A	10/05/26 07:01:17	10/05/26 07:27:39	N/A
Team3	True, Task1=5, Task2=5	logged-out	lunch	Agent Logged Out	10/05/26 07:27:39	10/05/26 07:27:39	N/A
Sales	True, Task1=5, Task2=5	Idle	lunch	N/A	10/05/26 07:27:40		N/A



The second screenshot shows the same report with the 'Team Name' filter set to 'Team3'. The table displays the activity for the selected team.

Team Name	Agent Name	Agent Skills	Activity State	Idle Code Name	Reason	Activity Start Timestamp	Activity End Timestamp	Contact Session ID
Team3	Agent	Chat= True, Task1=5, Task2=5	Idle	lunch	N/A	10/05/26 06:57:04	10/05/26 07:01:17	N/A
Team3	Agent	Chat= True, Task1=5, Task2=5	available	N/A	N/A	10/05/26 07:01:17	10/05/26 07:27:39	N/A
Team3	Agent	Chat= True, Task1=5, Task2=5	logged-out	lunch	Agent Logged Out	10/05/26 07:27:39	10/05/26 07:27:39	N/A
Sales		Chat= True, Task1=5, Task2=5	Idle	lunch	N/A	10/05/26 07:27:40		N/A

The Agent State report shows:

- Team: Team3
- State: Idle
- Start: 10/05/2026 06:57:04 AM
- End: 10/05/2026 07:01:17 AM
- Idle Code: lunch

The agent only became Available at:

07:01:17 AM

which is **after** the parked contact ended at:

07:01:04 AM

Conclusion

This scenario demonstrates that when no skill restrictions exist, agent availability becomes the primary routing criterion. Although the agent belonged to an eligible team, the agent remained in an Idle state throughout the parked period and only became available at **07:01:17 AM**, after the contact exited the queue at **07:01:04 AM**. Therefore, the observed routing behavior was expected.



Note: If an agent is available during the parked period, confirm that the agent is logged in to the correct team configured for the queue. An available agent who is not associated with an eligible team does not receive contacts from that queue.

Best Practices

When you investigate parked voice contacts in Webex Contact Center:

- Always start with the CSR Report - Yesterday report in order to identify the affected queue and parked timeframe.
- Review the queue configuration in **Control Hub** before you analyze agent activity.
- Verify whether skills are assigned at the queue level or dynamically through Flow Designer.
- Correlate the parked timeframe with the Agent State - TAC report.
- Validate team eligibility before reviewing agent availability.
- Confirm that agents possess any required skills before concluding that a routing issue exists.
- Use agent state transitions in order to determine whether an agent was routable during the parked period.