



Webex Contact Center Enterprise digital channels implementation and troubleshooting powered by Webex Connect LTRCCT-2003

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Learning Objectives

Upon completion of this lab, you will be able to:

- Understand the basic troubleshooting approach
- Know where and what logs to collect.
- Know how to use the debugger to check for failues

Scenario

This lab is designed to introduce the audience to the digital channels (Webex Connect) platform, its architecture, and its provisioning. In addition, this lab will provide instructions to verify if Webex Connect has been provisioned successfully.

Task 1: Enable agent for digital channel, and sync user to Engage

Webex Engage is where the customer/agent facing gadgets are hosted. All the customization for the chat takes place in Engage. You will always access Engage directly from Control Hub.



Step 1: Log in to CCE Admin

On the desktop, open a web browser and navigate to, https://ccedata.dcloud.cisco.com/cceadmin. Log in with the administrator username and password found in the credentials document. If you use Chrome and enter the username of administrator@dcloud.cisco.com, the password will be automatically populated for you.

Step 2: Create and enable an agent for Digital Channels capability.

In this step, you will need to create an agent. For each seat, an agent has to be created with the login name of *user##@dcloud.cisco.com* where the numbers are your seat number. Example, *user01@dcloud.cisco.com*, *user02@dcloud.cisco.com*, etc.

In CCE Admin, navigate to the Agent configuration.

Next, create an agent for your seat number. The login name must be in the format of user##@dcloud.cisco.com where the ## is your seat number. Ex. user01@dcloud.cisco.com, user02@dcloud.cisco.com, user09@dcloud.cisco.com, user10@dcloud.cisco.com, etc.

Refer the screenshot below to use as an example to create your agent.

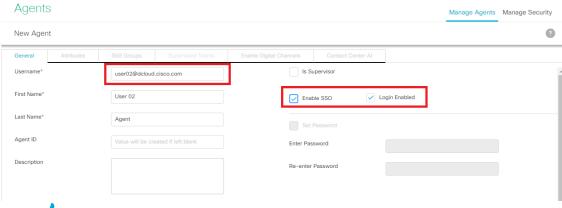
• Username example: <u>user02@dcloud.cisco.com</u>

• First Name: User 02

• Last Name: Agent

Check the following checkboxes: Enable SSO and Login Enabled.

Leave other configurations as default.





Once created, select the agent corresponding to your seat name, then select the Enable Digital Channels menu. Select the **Support Digital Channel** checkbox, then provide an email address in the format of **user##@dcloud.cisco.com**. It is critical that you provide a unique email address so that Webex Engage does not have issues.

Once you have made these changes, select the Save button at the bottom of the form.

Agents Edit User 02 Agent (user02@dcloud.cisco.com) General Attributes Skill Groups Supervised Teams Enable Digital Channels Contact Center Al Support Digital Channel Email Address* user02@dcloud.cisco.com

Step 3: Perform a Manual Sync

From the main screen, select the Digital Channels card, then select Digital Channels Settings and navigate to the User Sync tab. Now click on 'Sync Now' and note down the timestamp.

Step 4: Is the sync successful? Why Not?

(a) Let's verify from an ICM Database perspective, if the agent is 'Digital Channel' enabled or not?

PasswordChangeRequired column in the Person table is used to detect if the agent has Digital Channel *enabled* (1) or *not enabled* (0).

- Using **mRemote**, RDP into the **AW-HDS-DDS** server and start SQL Server Management Studio (pinned to the Toolbar of the AW-HDS-DDS server)
- Run the following SQL query -- **select * from Person where LoginName LIKE 'user''** to ensure PasswordChangeRequired is set to 1 for your user.



(b) Next, let us check the Cloud Connect logs

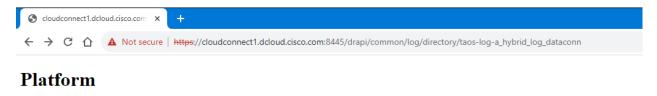
File Name: dataconn.log

Via CLI: file list activelog /hybrid/log/dataconn/dataconn.* detail

Via browser:

https://cloudconnect1.dcloud.cisco.com:8445/drapi/common/log/directory/taos-log-a_hybrid_log_dataconn

```
admin:
admin:file list activelog /hybrid/log/dataconn/dataconn.* detail
19 May,2024 00:01:58
                         86,713 dataconn.2024-May-18.0.log.gz
20 May, 2024 00:02:11
                          87,178 dataconn.2024-May-19.0.log.gz
21 May, 2024 00:02:10
                          220,814 dataconn.2024-May-20.0.log.gz
                          155,309 dataconn.2024-May-21.0.log.gz
22 May, 2024 00:01:57
                          152,826 dataconn.2024-May-22.0.log.gz
23 May, 2024 00:01:30
24 May, 2024 00:01:45
                          153,327 dataconn.2024-May-23.0.log.gz
25 May, 2024 00:00:32
                          507,606 dataconn.2024-May-24.0.log.gz
26 May, 2024 00:00:11
                          157,481 dataconn.2024-May-25.0.log.gz
27 May, 2024 00:00:50
                          159,187 dataconn.2024-May-26.0.log.gz
28 May, 2024 00:00:19
                          156,890 dataconn.2024-May-27.0.log.gz
28 May, 2024 10:48:42
                        3,264,879 dataconn.log
dir count = 0, file count = 11
admin:
```



Filename	Size
GC-2024-05-16_14-46-02.log	3450
<u>dataconn.log</u>	709332
dataconn_error.log	421736

Note: For this lab purpose, download the log file using the browser by right-clicking on the dataconn.log file >> Save link as.

Open the dataconn.log file in Notepad++ and go to the timestamp that the 'Sync Now' was initiated in Step 3 above and search for keyword **CCEDataSyncOperations**. Here you will see the Sync operation task and the result.

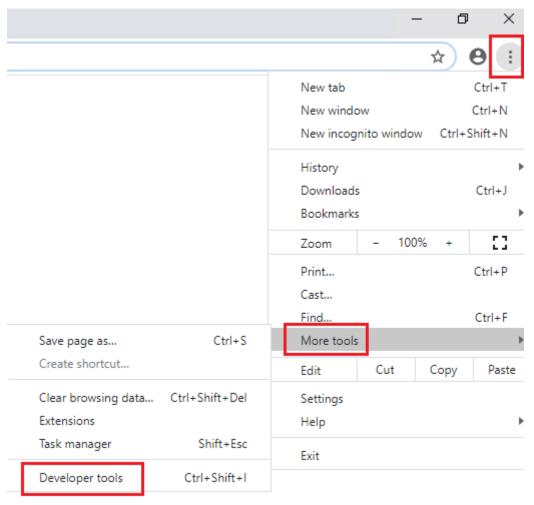


Task 2: Why did the start button not load for the glitch.me website?

Let's start by collecting the network console logs.

On the Chrome browser:

- Click on the Settings icon and navigate to Developer tools > More tools > Developer tools.
- On Developer tools > Console tab, click on the gear symbol and check the options:
 Preserve log, Show timestamps, Log XMLHttpRequests.
- On Developer tools > Network tab, click on the gear symbol and check the option:
 Preserve log.
- Close the settings page.





Now load the URL in the browser.

The console logs can now be collected by right-clicking on the 'Console' tab and select Save all as.

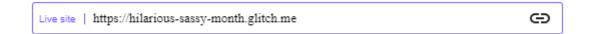
Open the console logs in Notepad++ and check for errors.

Clue: The solution is in the task title of this current section & task 4 of lab guide 6 - Chat Entrypoint.

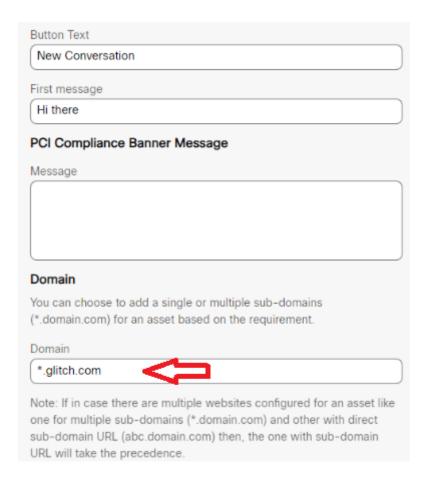


Solution for Task 2

The domain in the URL provided by glitch is glitch.me



However, the domain entered in the LiveChat website configuration is *glitch.com*



Navigate back to 'Task 4' of Lab Guide 6 and update the domain to *.glitch.me. Click save and then reload the glitch URL web page. Do you now see the start chat button?

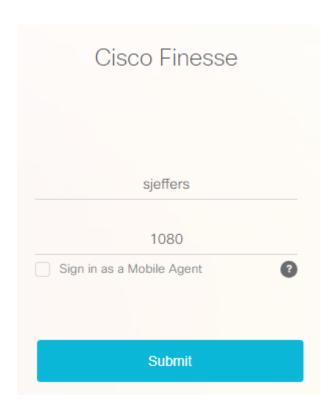




Task 3: Chat Routing

Step 1: Log into Finesse using the 'sjeffers' agent profile

On the desktop, open a web browser and navigate to, https://finesse1.dcloud.cisco.com/desktop. Log in with the username 'sjeffers' and password 'C1sco12345'. When asked for, enter '1080' as the extension.



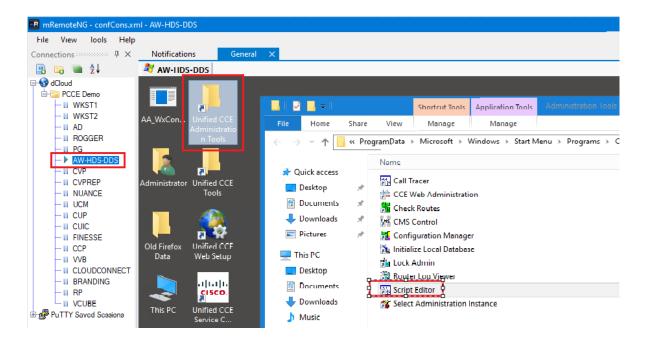
Step 2: Start 'Monitor Script' on ICM Script Editor

On WKST1, start mRemote and double-click on AW-HDS-DDS. Next, navigate to the

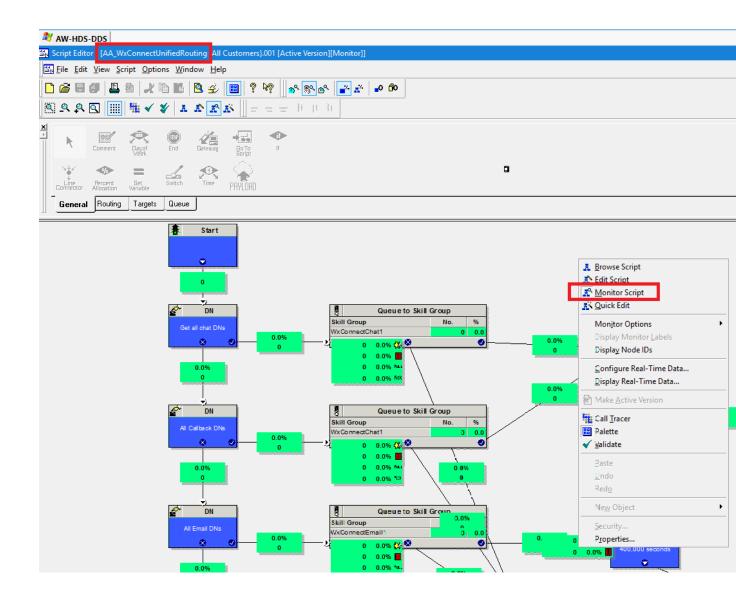


Unified CCE Administration Tools folder from the desktop home screen and doubleclick 'Script Editor

This will load the script **AA_WxConnectUnifiedRouting** and will have '*Monitor Script*' option turned on. We can use this to almost instantly verify incoming chat requests from an ICM perspective.

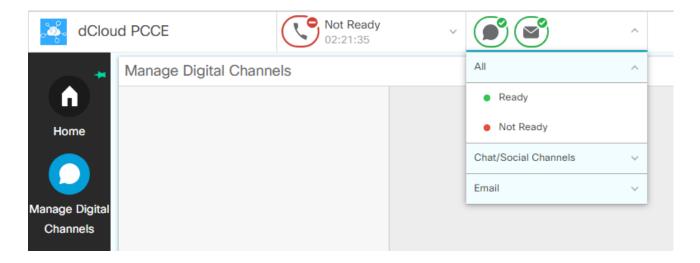






Step 3: Start a chat from the glitch.me website

On Finesse, go **Ready** for All non-voice channels.



Navigate back to your *.glitch.me website and click on the start chat button. Enter in the details requested in the chat form and then click 'Start Conversation'.



Step 4: Did the chat arrive on the agent desktop?

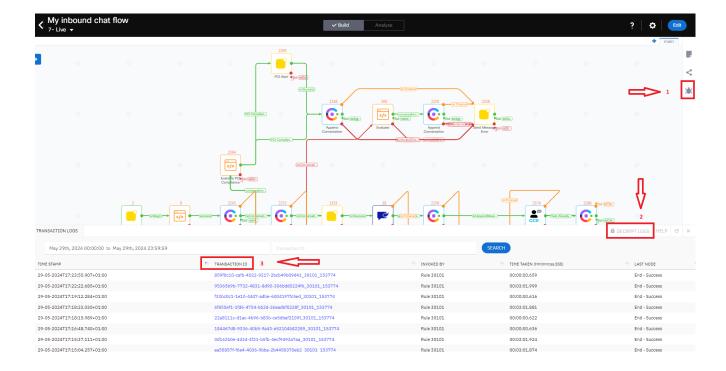
- 1. Did the chat arrive in the '*Manage Digital Channels*' gadget on the Finesse Agent Desktop?
- 2. On the AW-HDS-DDS server, check the ICM Script did the counters increase from the Start node onwards?

No? Alright, let us check the logs and traces.



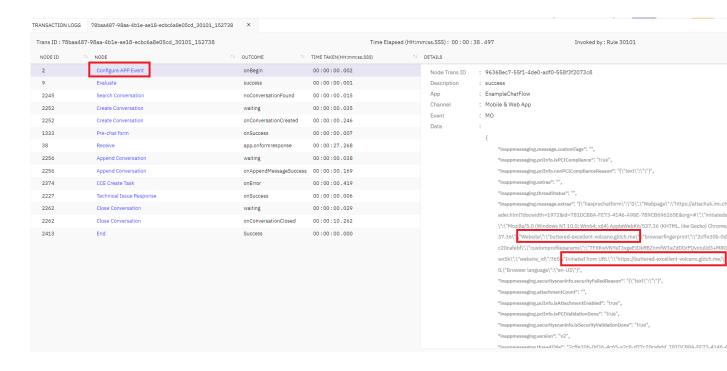
Log into your Connect Portal and navigate to Services and click on **Seat # Chat Flows**. Next, click on 'My inbound chat flow' and then:

- 1. Click on the debugger icon * to the right.
- 2. Next, click on 'Decrypt Logs'.
- 3. Find the timestamp of your most recently initiated Chat and click on the corresponding 'Transaction ID'.

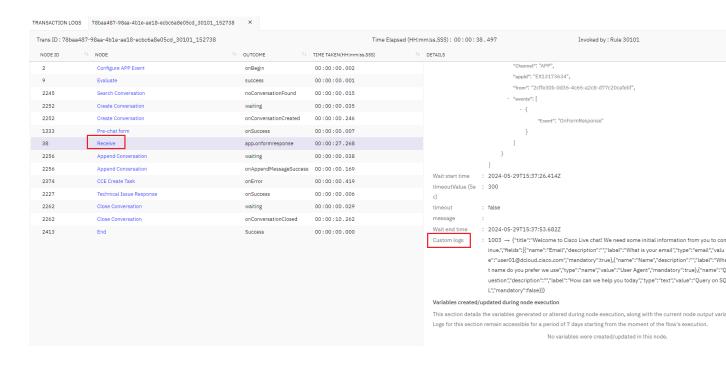




Click on 'Configure APP Event' and look for URL that the chat was initiated from:

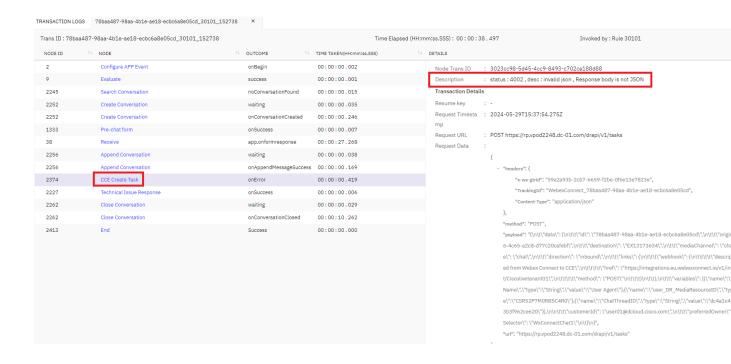


Click on the 'Receive' node and this will show the configured chat form questions and the responses entered by the customer.





Next, click on 'CCE Create Task' and check the outcome/Response for the request sent to CCE.



TRANSACTION LOGS	78baa487-98aa-4b1e-ae18-ecbc6a8e05cd_30101_152738	×									
Trans ID: 78baa487	37-98aa-4b1e-ae18-ecbc6a8e05cd_30101_152738		Time Elapsed (HH:n	:mm:ss.SSS): 00:00:38	38 . 497 Invoked by : Rule 30101						
NODE ID ↑↓	↑↓ NODE	U OUTCOME	TIME TAKEN(HH:mm:ss.SSS)	DETAILS							
2	Configure APP Event	onBegin	00:00:00.002	Request Timesta	: 2024-05-29T15:37:54,275Z						
9	Evaluate	success	00:00:00.001	mp	. 2024 00 271200710412702						
2245	Search Conversation	noConversationFound	00:00:00.015	Request URL	: POST https://rp.vpod2248.dc-01.com/drapi/v1/tasks						
2252	Create Conversation	waiting	00:00:00.035	Request Data	:						
2252	Create Conversation	onConversationCreated	00:00:00.246		{						
1333	Pre-chat form	onSuccess	00:00:00.007		- "headers": {						
38	Receive	app.onformresponse	00:00:27.268		"x-wx-gtrid": "59a2a93b-2cb7-6659-f2be-0f6e13e7823e",						
2256	Append Conversation	waiting	00:00:00.038		"TrackingId": "WebexConnect_78baa487-98aa-4b1e-ae18-ecbc6a8e05cd", "Content-Type": "application/json"						
2256	Append Conversation	onAppendMessageSuccess	00:00:00.169		"Content-type : application/json						
2374	CCE Create Task	onError	00:00:00.419		"method": "POST",						
2227	Technical Issue Response	onSuccess	00:00:00.006		"payload": "{\n\t\"data\": {\n\t\t\"id\": \"78baa487-98aa-4b1e-ae18-ecbc6a8e05cd\",\n\t\t\"or						
2262	Close Conversation	waiting	00:00:00.029		$6-4c65-a2c8-d77c20 cafebf!", \\ $						
2262	Close Conversation	onConversationClosed	00:00:10.262		$e\ ":\ ''chat\ '',\ ''direction\ '':\ ''inbound\ '',\ ''t\ ''links\ '':\ \{\ ''t\ ''webhook\ '':\ \{\ ''t\ ''des\ '''t\ '''des\ ''''t\ '''des\ ''''t\ '''des\ '''t\ '''des\ '''t\ ''''des\ ''''t\ ''''des\ '''t\ '''''des\ '''t\ '''''des\ '''t\ '''''des\ '''t\ '''''des\ '''t\ '''''des\ '''t\ '''''des\ '''t\ ''''''des\ '''t\ '''''des\ '''t\ '''''des\ '''t\ '''''des\ '''t\ ''''''des\ '''t\ '''''''''''''''''''''''''''''''$						
2413	End	Success	00:00:00.000		ed from Webex Connect to CCE\",\n\t\t\t\t\"href\": \"https://integrations.eu.webexconnect.io/vi						
					t/Ciscolivetenant01\",\n\t\t\t\\"method\": \"POST\"\n\t\t\\\n\t\t\\"variables\": [{\"name						
					Name\",\"type\":\"String\",\"value\":\"User Agent\"},\\"name\":\"user_DR_MediaResourceID\",						
					e\":\"CSR52P7M0RB5C4R0\"},{\"name\":\"ChatThreadID\",\"type\":\"String\";\"value\":\"dc4a:						
					3b3f962ce620\"}],\n\n\t\t\"customerId\": \"user01@dcloud.cisco.com\",\n\t\t\"preferredOwn						
					Selector\":\"WxConnectChat1\"\n\t}\n}",						
					"url": "https://rp.vpod2248.dc-01.com/drapi/v1/tasks"						
				4	}						
					: 2024-05-29T15:37:54.269Z						
				amp	20 T						
				Response Data	: NodeExecutionException occurred invalid json , Response body is not JSON						

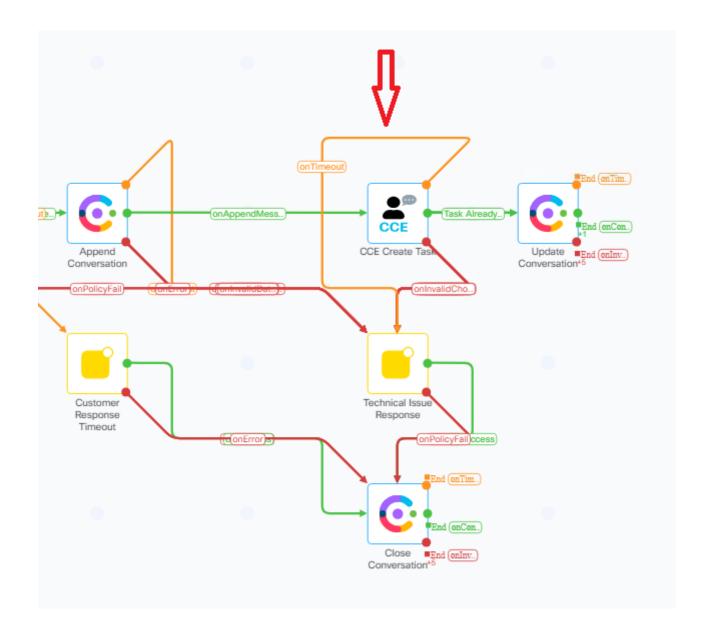


While the error description in this scenario may not indicate exactly what the issue is, we can check the next node that the call goes on to - Technical Issue Response.

TRANSACTION LOGS	78baa487-98aa-4b1e-ae18-ecbc6a8e05cd_30101_152	738	×				
Trans ID: 78baa487	Trans ID: 78baa487-98aa-4b1e-ae18-ecbc6a8e05cd_30101_152738						
NODE ID ↑↓	NODE	↑↓	OUTCOME	↑↓	TIME TAKEN(HH:mm:ss.SSS		
2	Configure APP Event		onBegin		00:00:00.002		
9	Evaluate		success		00:00:00.001		
2245	Search Conversation		noConversationFound		00:00:00.015		
2252	Create Conversation		waiting		00:00:00.035		
2252	Create Conversation		onConversationCreate	ed	00:00:00.246		
1333	Pre-chat form		onSuccess		00:00:00.007		
38	Receive		app.onformresponse		00:00:27.268		
2256	Append Conversation		waiting		00:00:00.038		
2256	Append Conversation		onAppendMessageSu	ccess	00:00:00.169		
2374	CCE Create Task		onError		00:00:00.419		
2227	Technical Issue Response		onSuccess		00:00:00.006		
2262	Close Conversation		waiting		00:00:00.029		
2262	Close Conversation		onConversationClosed	l	00:00:10.262		
2413	End		Success		00:00:00.000		



Taking a closer look at the script design, we see that the route to go from 'CCE Create Task' node to the 'Technical Issue Response' node is taken when there is a TimeOut.





Root Cause Analysis:

This dCloud environment has port 443 blocked.

And when configuring the '**Domain'** in the '**CCE Create Task**' node, we did not specify the port to be used and thereby defaults to port 443.

This then leads to a timeout for the request sent towards ICM from the 'CCE Create Task' node and this is why the chat session fails instantly.

To fix this problem, navigate to the location described in **Step 3** of **Lab Guide 5 - Flows** and add port **8445** to the '**Domain'** field, as shown in the screenshot below.

Click 'Save' and make the flow 'Live'.

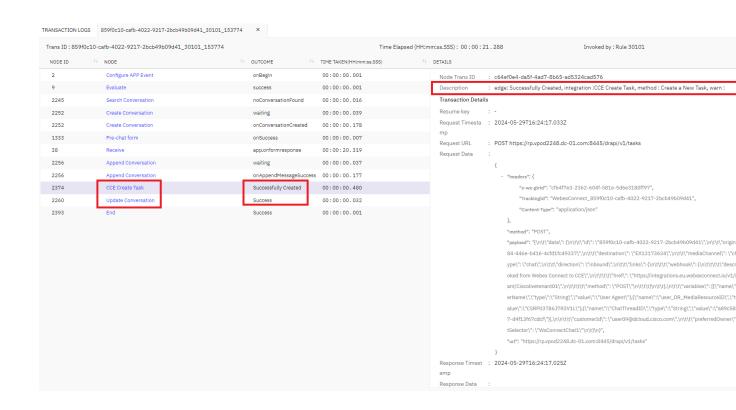
CCE Create Task Configuration **Transition Actions (Optional)** Method Name Create a New Task Node Runtime Authorization Webex Connect Default Authorization Tracking Id 🕕 Domain 1 WebexConnect_\$(flid) rp.vpod2248.dc-01.com:8445 Task Details Task Id 🕕 Conversation Id 0 \$(n2.inappmessaging.appld) \$(flid) \$(conversationId) Media Type 🕕 Media Channel ① Chat Live Chat/ In-App Messaging Preferred Owner Script Selector WxConnectChat1



Once the flow is 'Live', initiate a chat which will then arrive in the '*Manage Digital Channels*' gadget on the Finesse Agent Desktop.



For a successful chat flow, you will see the status for 'CCE Create Task' show 'Successfully Created' on the Debugger tool.





Cloud Connect Logs

Chat sessions can be tracked in the *digitalrouting.log* file on the Cloud Connect Server using the TransactionID fetched from the Debugger.

- Keyword to search for: NEW_TASK
- Log File Name: digitalrouting.log
- Via CLI: file list activelog /hybrid/log/digitalrouting

```
admin:file list activelog /hybrid/log/digitalrouting/digitalrouting.1*
digitalrouting.log
dir count = 0, file count = 1
```

Via browser:

https://cloudconnect1.dcloud.cisco.com:8445/drapi/log/digitalrouting



```
| CHRF | 2023-10-31 | 41:39:15.44| | Into-nic-17.0.0.1-8091-exe-6:60| | Webschment_85f0cil-cafb-6021-2017-20cid900644| | TackingIdTiler - Request with trackingId Nebeschment_85f0cil-cafb-602-2017-20cid900644| | Page 2023-10-31 | 41:39:15.44| | Entro-nic-17.0.0.1-8091-exe-6:60| | Webschment_85f0cil-cafb-602-8217-20cid900644| | DatativeRequestTiler - No handles found or filter not enabled for the request /dracking/refinal filter. | Christophene | Christo
```



ICM Logs – The activity can be tracked in the rtr and the mr-pim logs using the TranscactionID.

- Router logs (rtr)
- MR-PIM logs (mr-pim)

rtr logs:

mr-pim:



```
PG2A-pim5 Trace: Application->PG:
Message = NEW TASK: Length = 287 bytes
DialogueID = (10) Hex 000000000
SendSeqNo = (1) Hex 000000001
MRDomainID = (5016) Hex 00000198
PreviousTask = -1:-1:-1
PreferredAgent = Undefined
Service = Undefined
CiscoReserved = (0) Hex 00000000
ScriptSelector: WxConneotChatl
ApplicationString2: 859f0cl0-cafb-4022-9217-2bcb49b09d41
ServiceRequested = (0) Hex 00000000
QueueType = (0) Hex 00000000
QueueID = Undefined

PG2A-pim5 Trace: FG->Application:
Message = RUN_APPLICATION_SCRIPT_REQ; Length = 617 bytes
DialogueID = (10) Hex 00000001
InvokeID = (1145) Hex 00000001
InvokeID = (1145) Hex 00000001
ScriptID: DR_EstimatedWait
ScriptConfiguration:
EstimatedWaitTime = (300) Hex 0000012c
IcmTaskID = 154435:30695646: 0

.

PG2A-pim5 Trace: PG->Application:
Message = DO THIS WITH TASK; Length = 619 bytes
DialogueID = (10) Hex 00000008
IcmTaskID = 154435:30695646: 1
SkillGroup = (5239) Hex 00001477
Service = Undefined
Agent = (5172) Hex 00001434
AgentInfo:
Label:
ApplicationString2:
MRDID = (5016) Hex 00000000
PrecisionQueueID = (0) Hex 00000000
PrecisionQueueID = (0) Hex 00000000
```

You have completed this lab. Thank You.

