

Contents

- [1 Scenario Setup](#)
- [2 Problem Statement](#)
- [3 ICM Available & MRD Interruptibility](#)
- [4 What does the Agent see? Are they overlooking something?](#)
- [5 What has the Agent been doing lately?](#)
- [6 What Happened with Chat 1113?](#)
 - ◆ [6.1 Can we view the Audit Trail?](#)
 - ◆ [6.2 Database](#)
- [7 Let's Complete It!](#)
- [8 Resolution](#)

Scenario Setup

Ensure all agents are logged out

Agent Console

1. Using Search, find the ActivityID of an integrated agent's previously-completed chat activity.
2. Note the ActivityID, then log out

Database Server

1. In the eGActiveDB's table egpl_casemgmt_activity, update this ActivityID's activity_status to 5000 and activity_sub_status to 5900

Problem Statement

Agent logs in and is ready, but receives no emails or chats. From the ICM Script Editor we can see that the user is Logged In and Ready, but not ICM Available in both EIM and WIM skill groups.

Real-Time Data - eimInbound {All Customers}									
Skill Group	LOG	IA	READY	IDLE	TALK	OUT	OTHER	ACWw	ACWn
CUCM_PIM.EIM_INBOUND.IPTA	1	0	1	0	0			0	0

Real-Time Data - wim {All Customers}									
Skill Group	LOG	IA	READY	IDLE	TALK	OUT	OTHER	ACWw	ACWn
CUCM_PIM.CIM_WIM.IPTA	1	0	1	0	0			0	0

ICM Available & MRD Interruptibility

ICM Available is defined in the ICM Schema Guide: *"An agent is ICM available if s/he is Routable and Available for the MRD. This means that the agent can be routed a task by ICM software."*

When a user is ready but not ICM Available in a skill group (i.e. email), this typically means that they are working on a non-interruptible task in another skill group (i.e. chat). Per the CIM SRND, Media Routing Domain (MRD) interruptibility should be configured as follows:

Agent_Ready_But_Not_"ICM_Available"

MRD	Interruptible?
Inbound Email	Yes
Outbound Email	Yes
Chat	No
Blended Collaboration	No

Voice is also non-interruptible in nature.

The first step would be to confirm the MRD interruptibility is all configured properly. If the email skill group is marked as non-interruptible, then agents will not be shown as ICM Available for chat when working on emails. We can see below that the Email MRD is marked correctly as Interruptible.

Attributes

Name * EIM_INBOUND

Media routing domain ID * 5003

Media class * CIM_EIM

Task

			Override Media Class Default
Life	300	seconds	<input type="checkbox"/>
Start timeout	10000	seconds	<input checked="" type="checkbox"/>
Max duration	28800	seconds	<input type="checkbox"/>

Calls in Queue

Max 2

Max per call type

Max time in queue seconds

Service level threshold * 30

Service level type * Ignore Abandoned Calls

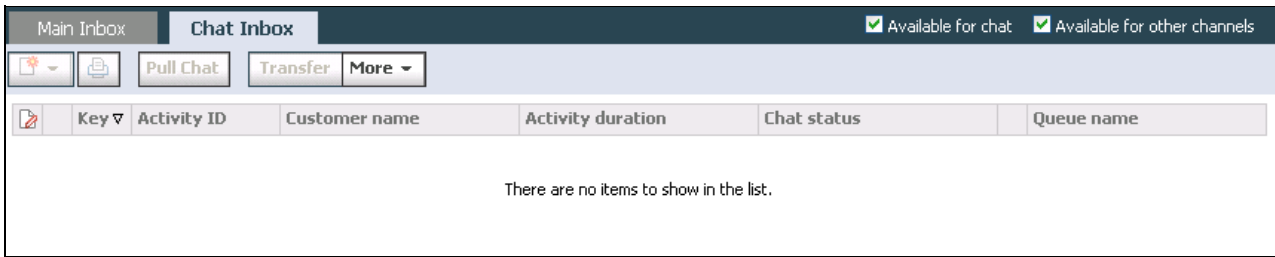
Interruptible

Description

What does the Agent see? Are they overlooking something?

Sometimes an agent may not realize that they have a chat that has ended but not yet been completed sitting in their Chat Inbox. Confirm what the agent sees in both of their inboxes. In this case, the agent has 0 activities in the Chat Inbox and Main Inbox, and is ready for both Chat and Other Channels.

Agent_Ready_But_Not_"ICM_Available"



What has the Agent been doing lately?

We need to look at some recent activities handled by the agent and see if there is anything odd shown. To start, we need to know the eAgentID - the agent's USER_ID in EIM/WIM.

```
SELECT * FROM egpl_user WHERE user_name = 'JDoe'
```

USER_ID	SALUTATION	FIRST_NAME	FIRST_NAME_FURIGAMA	MIDDLE_NAME	MIDDLE_NAME_FURIGAMA	LAST_NAME	LAST_NAME_FURIGAMA	SUFFIX	USER_NAME	PASSWORD
1002		John				Doe			JDoe	C39CC396C2ACC393

Our agent's USER_ID is 1002, so we can look for recently-handled activities by the agent - i.e., the last 50 activities.

```
select top(50)* from egpl_casemgmt_activity where assigned_to = 1002 order by WHEN_MODIFIED desc
```

	ACTIVITY_ID	CASE_ID	DEPARTMENT_ID	ACTIVITY_MODE	ACTIVITY_TYPE	ACTIVITY_SUB_TYPE	ACTIVITY_STATUS	ACTIVITY_SUB_STATUS	ACTIVITY_PRIORITY	WHEN_CREATED	WHO_CREATED	WHEN_MODIFIED
35	1139	1056	999	100	1	1	9000	9100	NULL	2011-05-01 23:01:29.663	12	2011-05-01 23:04:00
36	1137	1055	999	100	1	1	9000	9100	NULL	2011-05-01 22:59:28.007	12	2011-05-01 23:04:00
37	1134	1054	999	100	2000	2001	9000	9100	0	2011-04-26 19:22:15.000	12	2011-04-26 23:22:00
38	1118	1047	999	100	1	1	9000	9100	NULL	2011-04-12 19:09:13.507	12	2011-04-20 16:37:00
39	1120	1048	999	100	2000	2001	9000	9100	0	2011-04-12 19:10:13.000	12	2011-04-12 19:10:00
40	1114	1045	999	100	2000	2001	9000	9100	0	2011-04-12 14:27:42.000	12	2011-04-12 14:29:00
41	1113	1044	999	100	2000	2001	5000	5900	0	2011-04-11 20:24:29.000	12	2011-04-11 20:24:00
42	1109	1042	999	200	1	6	9000	9100	NULL	2011-04-11 20:23:21.490	1002	2011-04-11 20:23:00
43	1108	1042	999	100	1	1	9000	9100	NULL	2011-04-11 20:21:23.723	12	2011-04-11 20:23:00
44	1107	1040	999	100	1	1	9000	9100	NULL	2011-04-11 19:32:27.007	12	2011-04-11 20:20:00
45	1105	1040	999	200	1	6	9000	9100	NULL	2011-04-11 19:29:08.080	1002	2011-04-11 19:29:00
46	1104	1040	999	100	1	1	9000	9100	NULL	2011-04-11 19:27:54.720	12	2011-04-11 19:29:00
47	1103	1039	999	100	1	1	9000	9100	NULL	2011-04-11 18:45:34.670	12	2011-04-11 19:16:00
48	1102	1039	999	200	1	6	9000	9100	NULL	2011-04-11 18:37:51.300	1002	2011-04-11 18:38:00
49	1100	1039	999	100	1	1	9000	9100	NULL	2011-04-11 18:37:00.973	12	2011-04-11 18:37:00
50	1099	1038	999	200	1	6	9000	9100	NULL	2011-04-11 17:27:06.207	1002	2011-04-11 17:28:00

We can see amid all of the completed activities with ACTIVITY_STATUS=9000 and ACTIVITY_SUB_STATUS=9100 that there is one activity with ACTIVITY_STATUS=5000 and ACTIVITY_SUB_STATUS=5900. Using the tables available in the 4.3 Troubleshooting Guide, we can break down ACTIVITY_ID=1113:

Value	Meaning
-------	---------

What does the Agent see? Are they overlooking something?

Agent_Ready_But_Not_"ICM_Available"

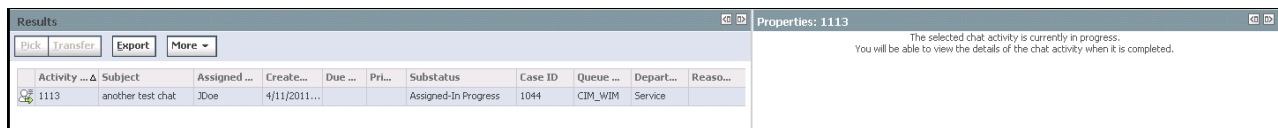
ACTIVITY_MODE=100	Inbound
ACTIVITY_TYPE=2000	Chat
ACTIVITY_SUB_TYPE=2001	General Chat
ACTIVITY_STATUS=5000	Assigned
ACTIVITY_SUB_STATUS=5900	In Progress

Activity 1113 is likely the cause of our agent not being ICM Available.

What Happened with Chat 1113?

Can we view the Audit Trail?

We can first search for the activity to check the audit trail. However, in this case, the chat is still "In Progress" so we won't find much more than we already know.



Activity ...	Subject	Assigned ...	Create...	Due ...	Pri...	Substatus	Case ID	Queue ...	Depart...	Reaso...
1113	another test chat	JDoe	4/11/2011...			Assigned-In Progress	1044	CM_WIM	Service	

Properties: 1113
The selected chat activity is currently in progress.
You will be able to view the details of the chat activity when it is completed.

Database

The rest of this investigation will have to be done in the database. Looking at the eglv_attendee table, we can see the attendees of a chat session.

```
SELECT * FROM eglv_attendee where activity_id = 1113
```

	ACTIVITY_ID	ATTENDEE_ID	ATTENDEE_HOME	AGENT	STATUS	START_MSG_ID	END_MSG_ID	ACTIVITY_VIEWED
1	1113	1000	43app	0	2	1	7	0
2	1113	1002	43app	1	2	1	7	1

Using the [4.2 Schema Guide](#), we can translate the AGENT and STATUS columns.

- **AGENT:** *This specifies whether the attendee is an agent or customer.*
 - ◆ 1: Agent
 - ◆ 0: Customer
- For our activity, we see two ATTENDEE_ID's - 1 AGENT and 1 Customer.

- **STATUS:** *This column stores the status of the attendee in the session. An attendee (customer or agent) can be participating in the session or have left it.*
 - ◆ 1: Session assigned
 - ◆ 2: Session closed
- For our activity, we can see that both attendees have closed the session.

Let's Complete It!

Our investigation has concluded that this activity has already completed and should be marked as such. We can do a simple update query in the eGActiveDB to resolve this issue.

What has the Agent been doing lately?

Agent_Ready_But_Not_"ICM_Available"

```
UPDATE egpl_casemgmt_activity  
SET activity_status = 9000, activity_sub_status = 9100  
where activity_id = 1113
```

The agent must log out and log back in again for the change to be reflected. Once this is done, the ICM Script Editor's Real Time Monitor confirms that the completed chat resolved the ICM Availability issue.

Real-Time Data - eimInbound {All Customers}									
Skill Group	LOG	IA	READY	IDLE	TALK	OUT	OTHER	ACWr	ACWh
CUCM_PIM.EIM_INBOUND.IPTA	1	1	1	0	0			0	0

Real-Time Data - wim {All Customers}									
Skill Group	LOG	IA	READY	IDLE	TALK	OUT	OTHER	ACWr	ACWh
CUCM_PIM.CIM_WIM.IPTA	1	1	1	0	0			0	0

Resolution

Something went wrong when the activity was being completed and caused the egpl_casemgmt_activity columns ACTIVITY_STATUS and ACTIVITY_SUB_STATUS to not be updated to reflect the completion. This is commonly seen in scenarios where chat sessions were active when services were stopped or network connectivity was lost. Environments experiencing instability problems are more prone to this type of issue than others.