Loway presents

QueueMetrics - CallCabinet Integration Tutorial

QueueMetrics-CallCabinet Integration

In this tutorial, we will detail how to setup your QueueMetrics or QueueMetrics-Live system in order for it to retrieve call recordings stored with Atmos CallCabinet Call Recording Solution.

Atmos CallCabinet for QueueMetrics-Live provides QueueMetrics' customers with secure and accurate cloud call recordings for their Asterisk PBX based call centers. It includes a pluggable listener module that allows customers to listen to recordings that are being stored remotely in the cloud.

This guide is divided in two sections: first, we will setup our Asterisk system so that it will automatically store our recordings on CallCabinet, after that we will setup our QueueMetrics system to be able to retrieve the recordings for QA purposes.

Asterisk Setup

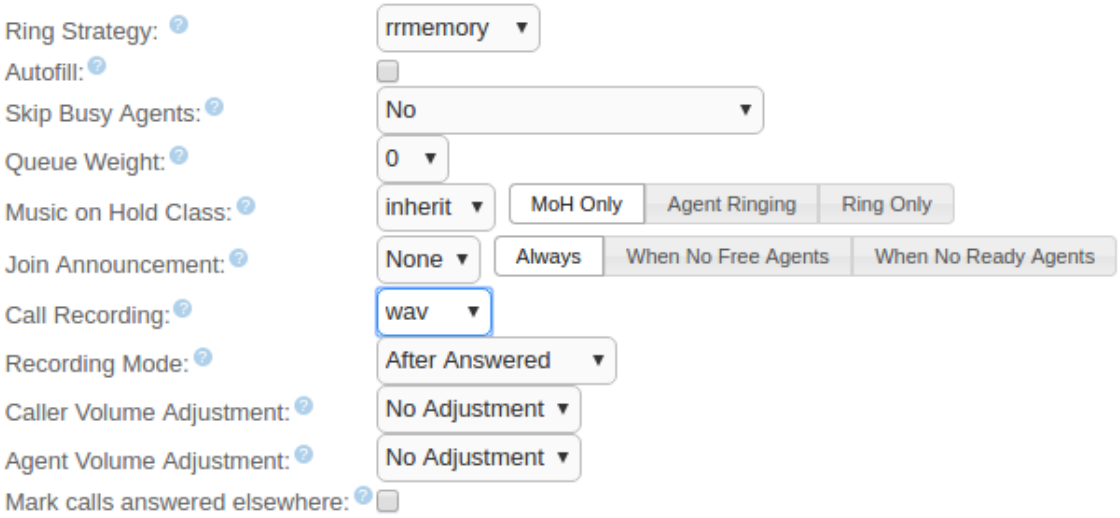
Prerequisites:

In order to store your files on CallCabinet we must make sure CCModule is installed and running on your system. For more information on how to setup CCModule, please refer to the following guide:

www.callcabinet.com/knowledge-base/setting-atmos-call-recording-asterisk

Now we need Asterisk to record our calls and place them in our repository folder (the folder specified in Ccconfig.txt). In this example we will use a Elastix-FreePbx system on a Centos 7machine.

First, let's turn on the recording feature for all calls on our queue.



Now, we need to enable a Post-Recording script that renames and moves the recordings to our repository (Default is /home/callcabinet/recordings). We will use a script called moverec.sh from Atmos, copy and paste the following lines and save them as moverec.sh

```
#Logic in the script is as follows:

#1) Calculate call duration (note - this goes from the call start time, which is not necessarily the start of the call recording):

CALLSTART=${5}T${6}

CALLSTARTSEC=`date -d "${5} ${6}" "+%s"`

CALLENDSEC=`date  "+%s"`

#Confirm the location of the recordings as set in the CCModule

CCSTAGING=/home/callcabinet/recordings

FOLDERS=`date +"%Y/%m/%d"`

CALLDUR=$((CALLENDSEC-CALLSTARTSEC))

if [ "$CALLDUR" -le 0 ]

then

    CALLDUR=0

fi
```

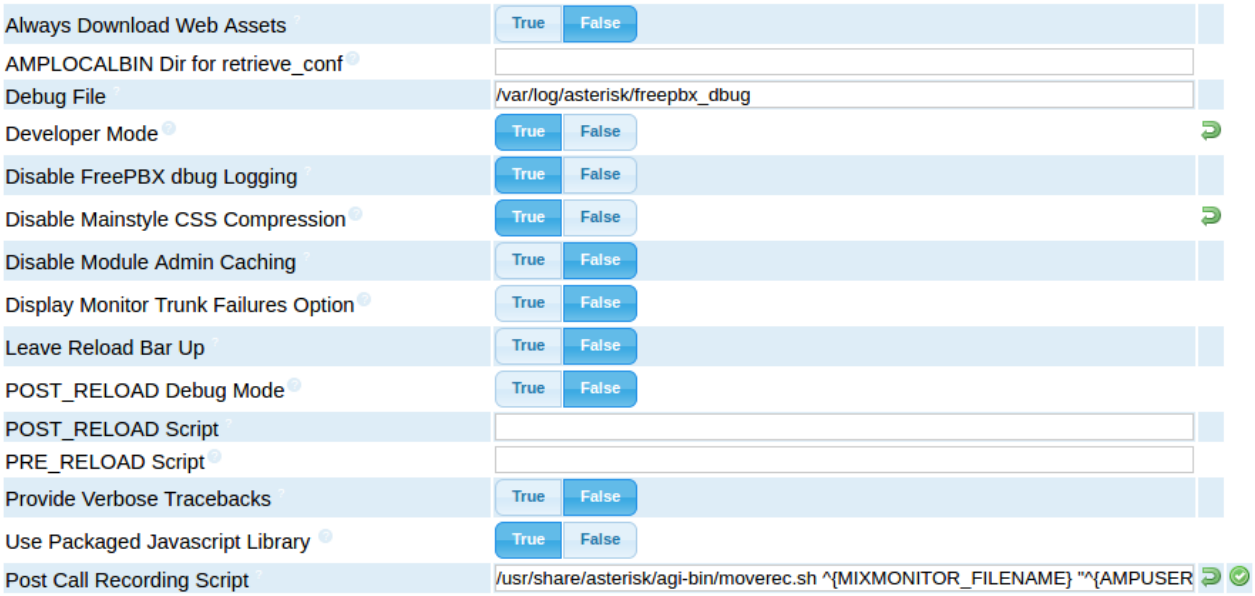
```
#2) Call Direction (there are easier ways to do this)
# Determine in our out call from prefix
FILEBASE=`basename $SRCFILE`
CALLDIR=${FILEBASE%%-*}

if [ "$CALLDIR" = "IN" ]
then
    CALLDIR="INCOMING"
    REMOTENUM=$CALLER
    if [ -z "$AMPUSER" ]
    then
        AMPUSER=`echo $FILEBASE | cut -d '-' -f 2`
    fi
    USEREXT=$AMPUSER
fi

if [ "$CALLDIR" = "OUT" ]
then
    CALLDIR="OUTGOING"
    USEREXT=$AMPUSER
    REMOTENUM=$CALLED
fi

if [ "$CALLDIR" = "force" ]
then
    CALLDIR="OUTGOING"
    USEREXT=$AMPUSER
```

```
    REMOTENUM=$CALLED
fi

if [ "$CALLDIR" = "" ]
then
    CALLDIR="INCOMING"
    USEREXT=$AMPUSER
    REMOTENUM=$CALLED
fi

#3) Rename the file
SRCFILE=$1
DSTFILE=${CALLSTART}_${CALLDUR}_${CALLDIR}_$4_$7_${8}.WAV
mkdir -p /home/callcabinet/recordings/${FOLDERS}
mv ${SRCFILE}* ${CCSTAGING}/${FOLDERS}/${DSTFILE}
```

We then place the moverec.sh into /usr/share/asterisk/agi-bin/. This script automatically renames and replaces your recordings in your repository, using a specific name format that contains various information about the recording, so that it can be easily retrieved later on.

We must make sure that the variable CCSTAGING is set to our repository folder, in our case this is /home/callcabinet/recordings.

Now, in order for the script to work, we must instruct FreePbx to execute it as a Post-Recording operation. To do so let's go to FreePBX Advanced Settings.



As we can see, there is a field called Post Call Recording Script. Here is where we must indicate the location of our moverec.sh script, together with a few parameters the script needs to work properly. If you saved moverec.sh in the /usr/share/asterisk/agi-bin/ folder, you should write:

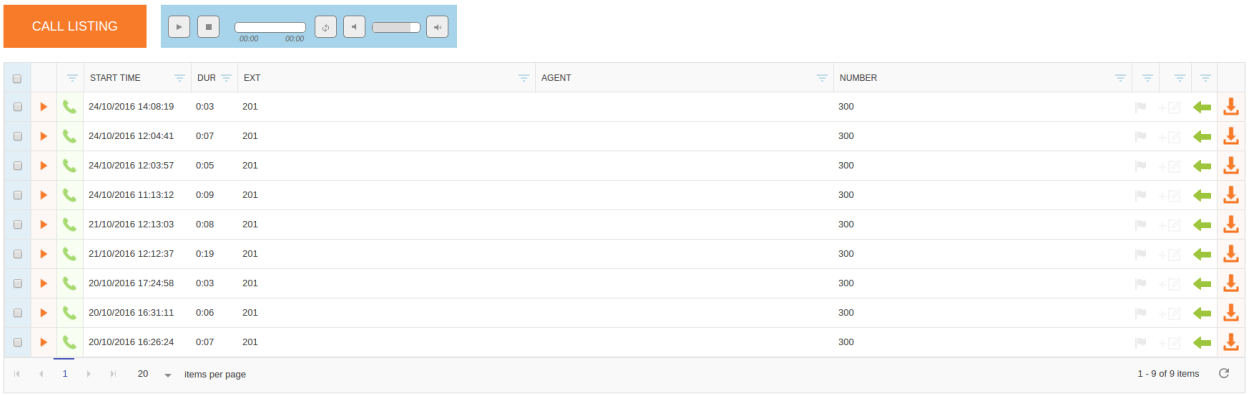
```
/usr/share/asterisk/agi-bin/moverec.sh ^{MIXMONITOR_FILENAME} "^{AMPUSER}" "^{CALLERID(number)}" "^{CDR(dst)}" ^{CDR(start)} "^{CDR(src)}" ^{UNIQUEID}
```

Remember that the moverec.sh script must be executable by the asterisk user.

The last thing we need to do is to make sure that in the CCconfig.txt configuration file, we set the following parameters like this:

```
FileNameDelimiter:<_>

FileNamePos1:<DateTime>

FileNamePos2:<Duration>

FileNamePos3:<Direction>

FileNamePos4:<Number>

FileNamePos5:<Ext>

FileNamePos6:<CustomerInternalRef>

Treesupport:<yes>
```

If everything has been correctly set up, you should now find your recordings in your CallCabinet web repository.



QueueMetrics Setup

To make sure QueueMetrics looks for your recordings on your CallCabinet online repository, you need only three things:

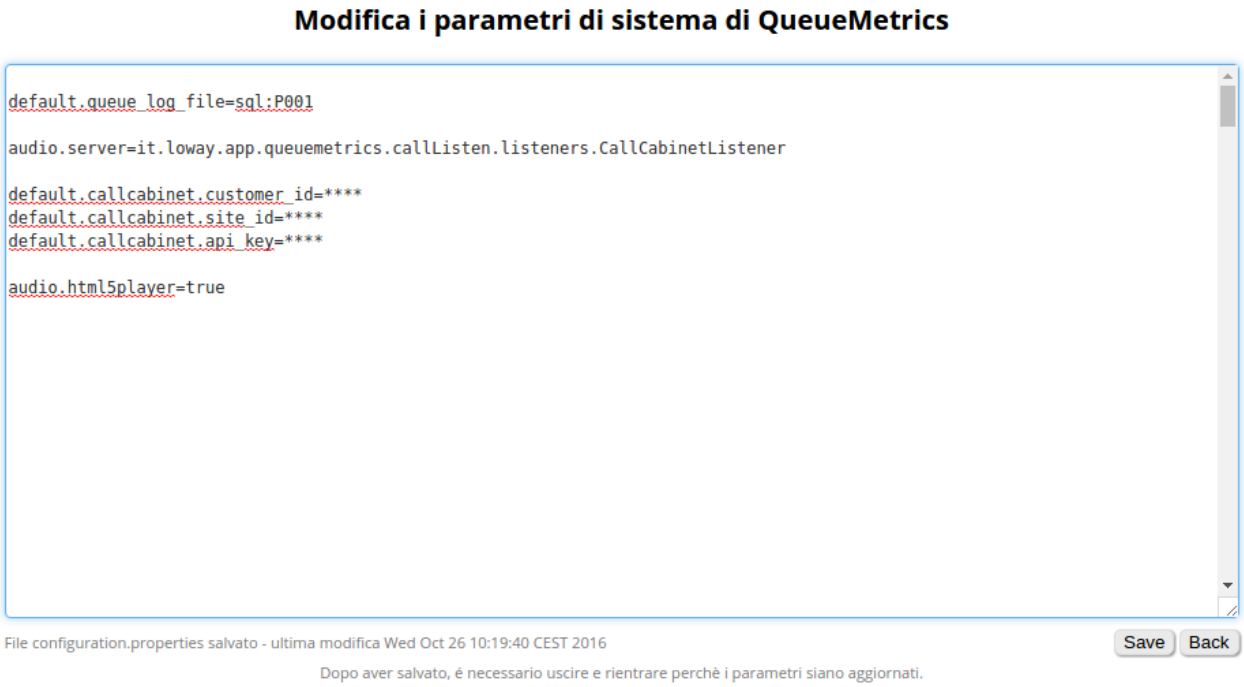
- Your CallCabinet Customer ID.
- Your CallCabinet Site ID.
- The Valid CallCabinet API Key.

The Customer ID and the Site ID are sent to you when you activate your CallCabinet account, as for the API Key you need to request it from the CallCabinet support at support@callcabinet.com .

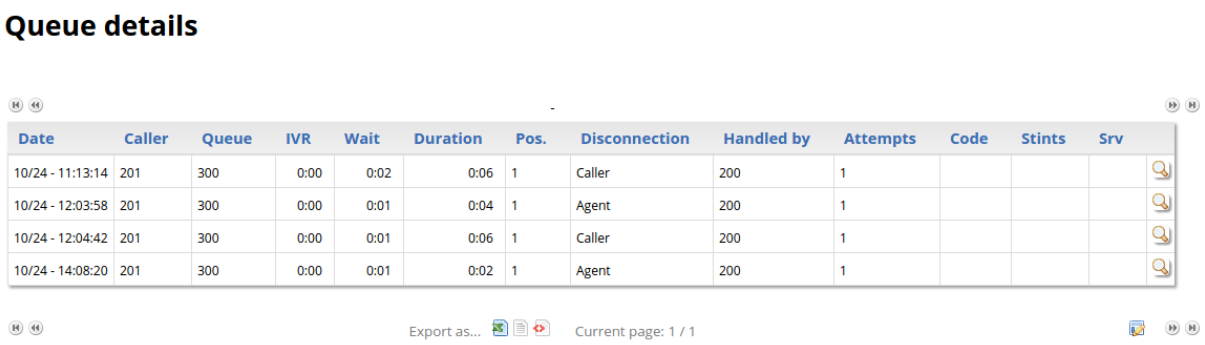
Once we have all of the above information, from QueueMetrics homepage we must go to Edit System Parameters and edit the following parameters:

```
audio.server=it.loway.app.queuemetrics.callListen.listeners.CallCabinetListener

default.callcabinet.customer_id=****

default.callcabinet.site_id=****

default.callcabinet.api_key=****

audio.html5player=true
```

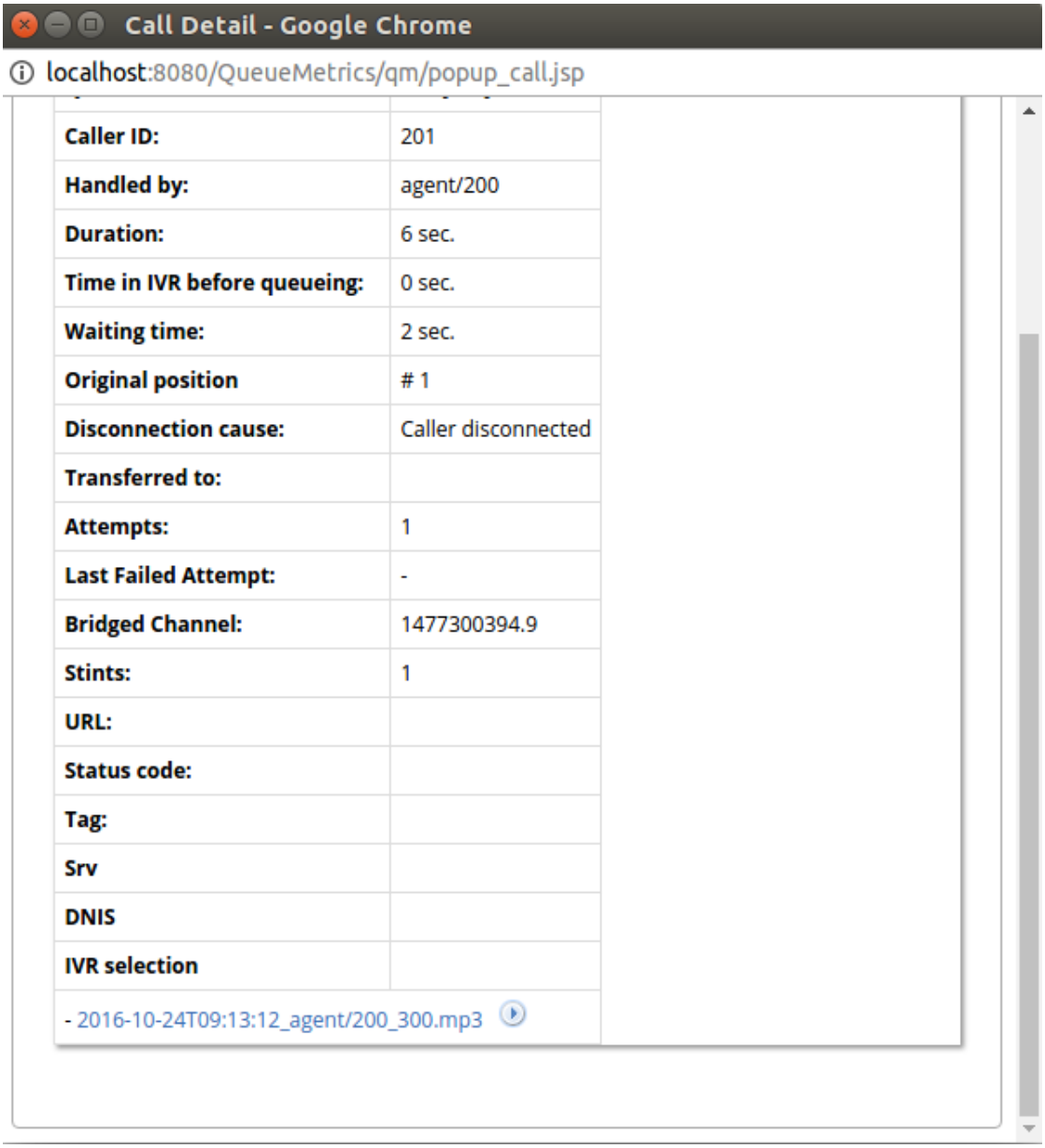
Make sure you replace the ** characters with your Customer ID, Site ID and API Key. The audio.html5player=true parameter instead, enables us to listen to the recordings directly on our browser.



We should be ready now, let's go back to the HomePage and take a look at any report containing some of the calls that we recorded.



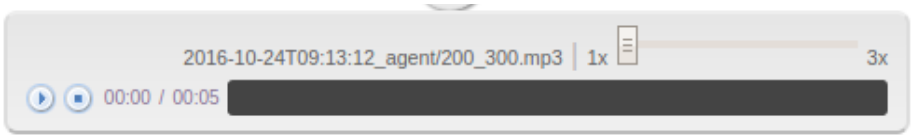
If we click on the Call Detail Icon (the magnifying glass icon on the right), we can see at the bottom that QueueMetrics retrieves the recordings related to that call's Call ID.



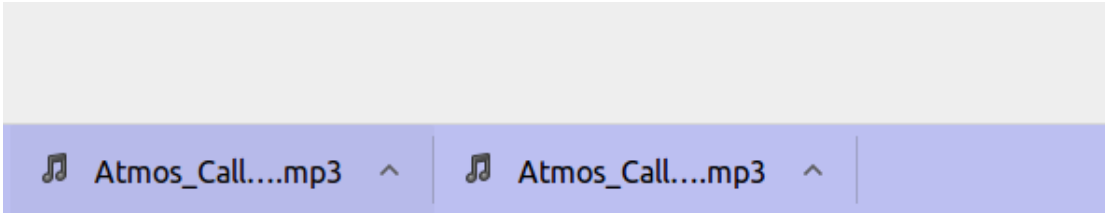
The name format QueueMetrics uses to represent a recording is the following:

```
DateTime_agent_queue.mp3
```

If we click on the Play icon just right of the recording name we can stream the recording directly without downloading it.



If we wish to download it instead, we can click on the recording name.



Multi-Site Configuration

QueueMetrics and CallCabinet both offer support for Multi-Site configurations, where the same customer has the need to monitor different PBXs with the need to differentiate between recorded files.

In CallCabinet, this is simply arranged by logging in the CallCabinet HomePage then going to Settings → Site → Add New Site.

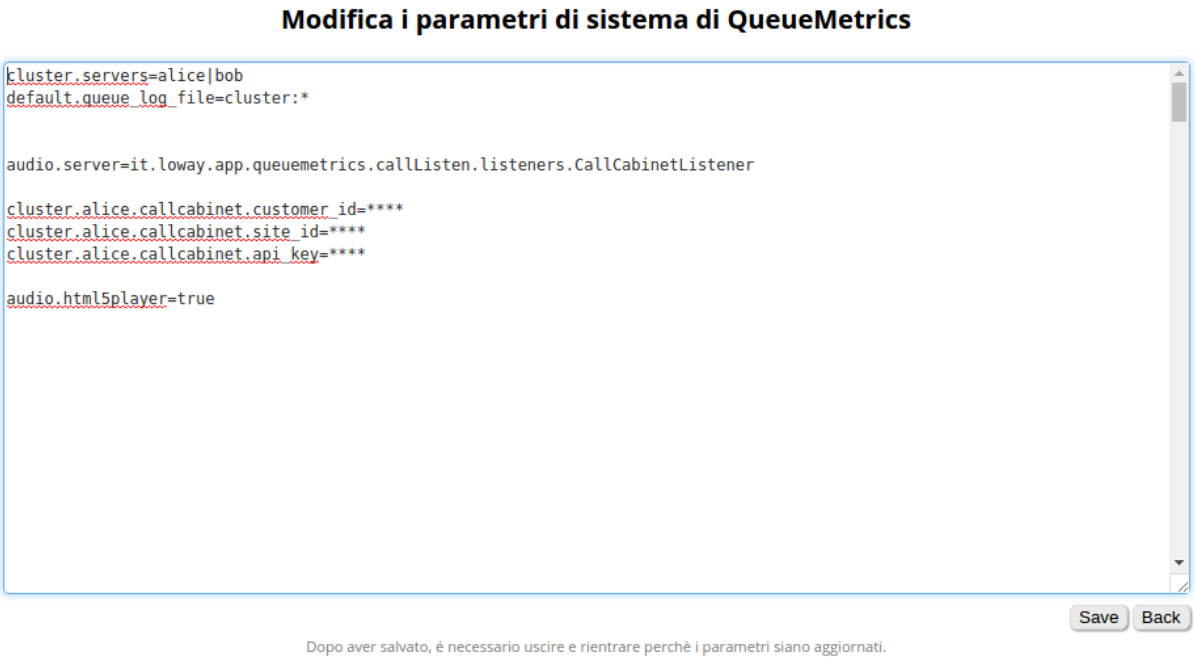
Doing this, will provide you with a different Site ID that will be used to access stored data coming from the New Site.

On the QueueMetrics side instead, we find the Cluster Functionality that is meant to allow the user to monitor different PBXs through the same QueueMetrics System.

In order to setup the Cluster Functionality correctly please refer to the QueueMetrics Manual.

manuals.loway.ch/QM_UserManual-chunked/ch20

Clusters allow the user to define different System Parameters for different PBXs, let's take a look at how it would work in a situation where we have two different PBXs named respectively Alice and Bob.



As we can see we will have defined, in the Edit System Parameters page, the names of the different PBX Servers, with the system property:

```
cluster.servers=alice|bob
```

Different PBX names will be separated with the "|" Pipe symbol. To define which PBX we want QueueMetrics to monitor we use the property:

```
default.queue_log_file=cluster:*
```

In this case we want QueueMetrics to monitor all of them so we use the "*" Star symbol, otherwise we could use the names of the different servers to monitor, separating them with the "|" Pipe symbol.

Now, we can define properties specific to each PBX Server, by using the following syntax:

```
cluster.alice.callcabinet.customer_id=****

cluster.alice.callcabinet.site_id=****

cluster.alice.callcabinet.api_key=****
```

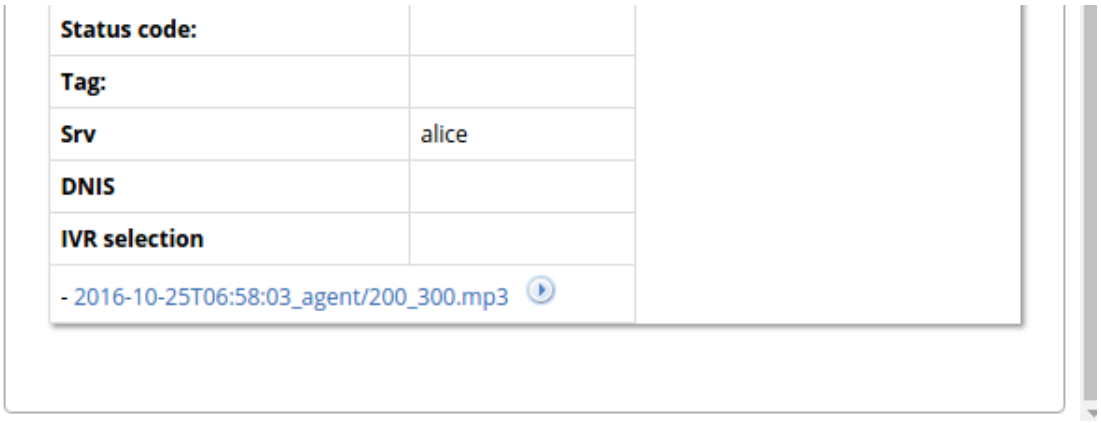
So, by using the prefix `cluster.ServerName.SystemParameter`, where ServerName is the name of the PBX (e.g. "alice") and SystemParameter is the name of the System Property to be set (e.g. `default.callcabinet.site_id`, without the "default." prefix), we can allow the same properties to have different values depending on the server we are currently monitoring.

After logging out and back in again, to make sure the changes to the System Parameters can take effect, we can launch a new report and take a look at the Call Details.

Queue details

Date	Caller	Queue	IVR	Wait	Duration	Pos.	Disconnection	Handled by	Attempts	Code	Stints	Srv	
10/25 - 08:55:42	201	300	0:00	0:01	0:03	1	Agent	200	1			alice	
10/25 - 08:58:04	201	300	0:00	0:01	32:05	1	Caller	200	1			alice	
10/25 - 09:59:49	201	301	0:00	0:02	0:06	0	Caller	200	1			alice	

As we can see, now QueueMetrics populates the Srv field with the name of the PBX Server on which the call took place. If we open the Call Details, QueueMetrics will access CallCabinet using the Site_ID, Customer_ID and Api_Key, we specified for that particular PBX Server.



That's all for this tutorial, make sure you check out our websites www.queuemetrics.com and www.queuemetrics-live.com.

For more information about Atmos CallCabinet for QueueMetrics-Live or in order to request your trial visit www.callcabinet.com/loway-queuemetrics-call-recording.

QueueMetrics References

For more technical information about QueueMetrics call center solution please refer to the User Manual.

Visit www.queuemetrics.com for a 30 days full featured trial.

Attend our Free Webinars for a live demonstration of QueueMetrics.