

Administrators Guide

CUCM Query

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Applications for
Cisco Unified Communications

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ClickNDial

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Version: 1.X

SUPPORT@TELISCA.COM
TEL. +33 (0)1 46 45 05 12

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1 Presentation Product

CUCMQuery provide an access to CUCM configuration database through AXL SOAP APIs. It provides:

- Table list
- Table view
- Read SQL Queries
- Write SQL Queries with import parameters

2 Pre-requisites, installation

- CUCM Query runs on Microsoft Windows XP (SP2/SP3), Vista, Windows 7, Windows 8, Windows 10.
- CUCM Query uses .Net framework 2.0 & 3.5.

3 Administration

The launch screen includes the AXL SOAP settings. The parameters of configuration are saved in the CUCMQuery.bin file, in the user's personal directory (AppData). The CUCM password is not saved.

Setup List Tables Execute SQL

CallManager Publisher: 192.168.0.108

CallManager Admin login: administrator

CallManager Admin password:

CallManager Version: 8.0x AXL per minute: 25

Use https (SSL) for AXL SOAP: Mandatory for CCM 5

Connexion Version : 8.0.2.30000(1)

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ATTENTION : This application is intended to read and write directly in Cisco Unified Communication Manager (CallManager) SQL database. So it is reserved to skilled administrator that have a very good knowledge of database structure. Incorrect read or write in SQL database can have unpredictable results including (but not limited to) : loss of configuration, corrupted configuration, heavy load that affect production, CallManager crash. It is particularly important to avoid large queries with lot of lines and columns that may crash CallManager. telisca do not guarantee the use that can be made of this application and cannot be responsible of any inconvenience or damage that can result of the use of this application.

ATTENTION : Cette application permet de lire et écrire directement dans la base de données de Cisco Unified Communication Manager (CallManager). Aussi elle ne doit être utilisée que par un administrateur connaissant parfaitement la structure de la base de données et les conséquences de toute modification. Des requêtes de lecture ou d'écritures incorrectes peuvent causer des problèmes importants incluant (mais pas limitée) : perte de configuration, configuration incohérente, charge élevée qui affecte la production, plantage du CallManager. Telisca ne garantie donc pas l'usage qui peut être fait de cette application et ne peut être responsable de tout gêne ou dommages provoqués par l'utilisation de cette application.

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This screen makes it possible to define:

- The IP addresses or the DNS of the CUCM Publisher,
Note: It is recommended to install certificate SSL of the publisher locally, by taking care that name DNS is the same one as that appearing in the certificate.
- CUCM Application User which must be part of the group 'Standard Super User' (to have rights of execute AXL SOAP queries).
- CUCM version.

Enter the maximum number of updates via interface AXL SOAP per minute. This value must be lower or equal to the value defined in the Services Parameters of CUCM administration in the Database Layer, Advanced options (by default 20, with maximum of 50 in production).

Click on 'Connection' to test the entered values, they will then be saved in the CUCMQuery.bin file (except the password).

4 List tables

The folder 'List Tables' makes it possible to select a table of database CUCM and to visualize the contents of the first lines (parameter 'Maximum rows'). According To the level of license, this maximum value can be limited to 200. The result of the list can be saved in a textual file (CSV).

The screenshot shows the 'Telisca CUCM Query' application window. The 'List Tables' tab is active, and the 'device' table is selected. The 'Maximum rows' is set to 200. A 'Save Result to CSV file' button is visible in the top right. The table below displays the first 20 rows of the 'device' table.

pkid	name	description	tkmodel	tkdeviceprotocol	tkprotocolside	specialloadinformati	fkdevicepool	fkphonet
f3f132b8-902d-4...	MTP_2	MTP_CUCM8	110	6	0		1b1b9eb6-7803-...	
e2a5e6e1-5731-...	CFB_2	CFB_CUCM8	50	6	0		1b1b9eb6-7803-...	
ffdcbdc2c-50d8-4...	ANN_2	ANN_CUCM8	126	0	0		1b1b9eb6-7803-...	
bd35eeff-ad0e-4...	MOH_2	MOH_CUCM8	70	0	0		1b1b9eb6-7803-...	
2aec9aa0-dc3f-4...	MTP_3	MTP_192.168.0...	110	6	0		1b1b9eb6-7803-...	
1abe0ab7-9b74-...	CFB_3	CFB_192.168.0.1...	50	6	0		1b1b9eb6-7803-...	
6a6be724f8a4-4...	ANN_3	ANN_192.168.0...	126	0	0		1b1b9eb6-7803-...	
8618b6b-8d1c-4...	MOH_3	MOH_192.168.0...	70	0	0		1b1b9eb6-7803-...	
c9a7287c-7ce0-...	SEP001D452D2...	Auto 8000	437	0	1		1b1b9eb6-7803-...	68d2a466
75103b51-d95c-...	SEP000F8F28D...	Auto 8001	30006	0	1		1b1b9eb6-7803-...	89c98fe6
07fdd7e-5ae0-4...	SEP0024C4FE39...	Auto 8002	404	0	1		1b1b9eb6-7803-...	cdae8ae5
a1a9e691f0c4-4...	DP_8101		404	0	1			c53e801b
145637d7-1b1e-...	ModelProfileFor7...		30006	0	1			404d3a28
c0190473-d1d3-...	IPSMA	IPSMA	73	0	1		1b1b9eb6-7803-...	
ea5d52d6-bd7d-...	IPSMA9100	Filtrage Manager ...	72	0	1		1b1b9eb6-7803-...	
07a645c7-26d4-...	IPSMA9101	Filtrage Manager ...	72	0	1		1b1b9eb6-7803-...	
32d2c18c-ecce-...	ModelProfileFor0...		404	0	1			cdae8ae5
88228b90-718e-...	SEP001E4A9223...	Auto 8003	434	0	1		1b1b9eb6-7803-...	2706004c
*								

5 SQL queries

According To the level of license this folder makes it possible to load and execute or also create/update an SQL query in read or write access. These SQL queries are stored in a XML file containing the query and a key for validation. This key makes it possible to know, if the request were validated.

Attention, starting from CUCM 5.x the requests are case sensitive.

The result of the request can be saved in a textual file, in CSV format.

It should be noted that a request as below `Select * from device' is to be proscribed on an environment of several thousands of IP Phones because with certain versions of CUCM it generates a result (with the XML format) too bulky which causes a crash landing of the Tomcat server (for the versions CUCM < 8.0x).

At The Time of request on several tables, it should be taken care that the joints are well entered to avoid cross references being able to generate an enormous result equal to the product amongst line of each table. This can also cause a too bulky result which causes a crash landing of the Tomcat server (for the versions CUCM < 8.0x).

The screenshot shows the 'Telisca CUCM Query' application window. It has a menu bar with 'Setup', 'List Tables', and 'Execute SQL'. The main area contains an SQL query:

```
select distinct numplan.dnorpattern, routepartition.name as partition, numplan.alertingname, recordingprofile.name as profile,
typerecordingflag.name as option from devicenumplanmap
left join numplan on numplan.pkid = devicenumplanmap.fknumplan
left join routepartition on routepartition.pkid = numplan.fkroutepartition
left join recordingprofile on recordingprofile.pkid = devicenumplanmap.fkrecordingprofile
left join recordingdynamic on recordingdynamic.fkdevicenumplanmap = devicenumplanmap.pkid
left join typerecordingflag on typerecordingflag.enum= recordingdynamic.tkreordingflag
```

Below the query are buttons for 'Export CSV', 'Open SQL Query', and 'Execute SQL Query'. The results are displayed in a table with columns: dnorpattern, partition, alertingname, profile, and option. The table has 9 rows of data and a final row with an asterisk (*).

dnorpattern	partition	alertingname	profile	option
8000				Call Recording Disabled
8001				Call Recording Disabled
8002				Call Recording Disabled
8003				Call Recording Disabled
8101		Jean-Marc Lacoste		Call Recording Disabled
9000				Call Recording Disabled
9100		Filtrage Manager ...		Call Recording Disabled
9101		Filtrage Manager ...		Call Recording Disabled
*				

6 Batch Update

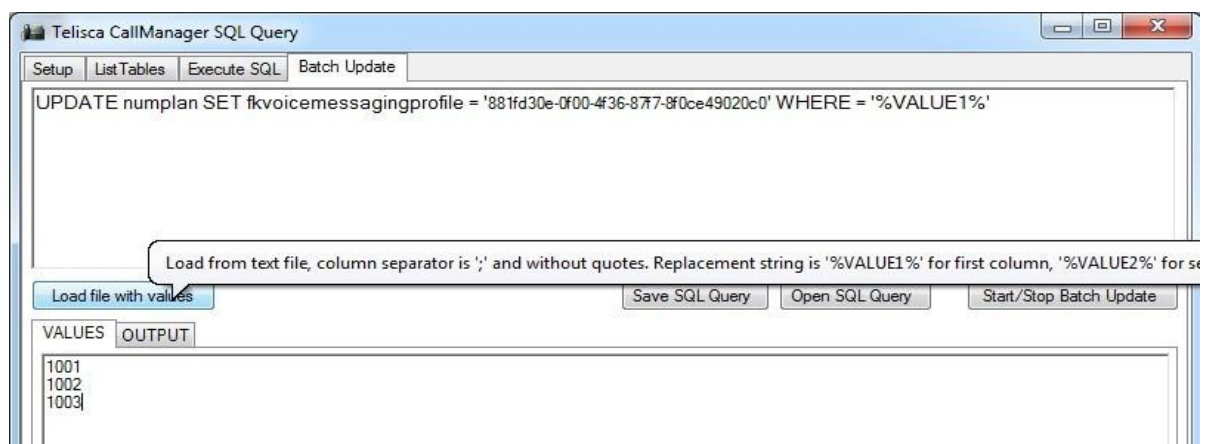
This folder is visible only with the suitable license.

This folder makes it possible to execute a query in batch mode with uploaded parameters. This query contains parameters %VALUEn%, or N (while starting to 1) contains the number of the column of the data file charged. It is possible to save or reload a present request starting from a textual file having the extension .sql.

From the button 'Load files with values' you can load a CSV file containing the data to be used.

One launches the execution in batch mode while clicking on 'Start/Stop batch Update', it is possible to stop it while clicking again on 'Start/Stop Update batch'.

The result of the request is posted in the OUTPUT folder, line by line with the XML format returned by AXL SOAP. The result of the request is added to a text file BATCH_yymmdd.log in the repertoire of execution of CUCMQuery.



7 Execution on command line

It is possible to execute CUCMQuery on command line with following syntax:

```
CUCMQuery <nom_requête>.xml <nom_fichier_résultat>.csv
```

Example: CUCMQuery c:\temp\Extract.xml c:\temp\Result.csv

The name of the file result is supplemented with the date and the hour of execution:

Example: Result_100603_1317.csv

One will be able for example to automate a daily execution of CUCMQuery while launching it from the Windows AT command.