How To configure and use Forced Authorization Codes in Cisco Unified Communications Manager 7.x

Read This document and it's entirety before implementing FAC

Some companies, colleges and universities, restrict certain users to dial certain string of numbers such as Long Distance, International, or 411 dialing, in order to that in UCM 7.x you must use FAC

Step 1.- Designing Force Authorization Codes

Let's proceed to configure a few Forced Authorization Codes, but first we are going to assume that we have 3 users in our company, and that as such we will configure 3 different levels of access to the PSTN, because this company is small we will only use levels, 1, 2, and 3, and large environments I will suggest you to use 10, 20,30. Incrementing authorization codes establishes a level of "access", you can specify authorization levels in the range of 0 to 255, ok let's design our level of access.

Level 1.-Users in level 1 will have access to 911 and local dialing only

Level 2.-Users in level 2 will have access to 911, 411, Local, Long Distance dialing only

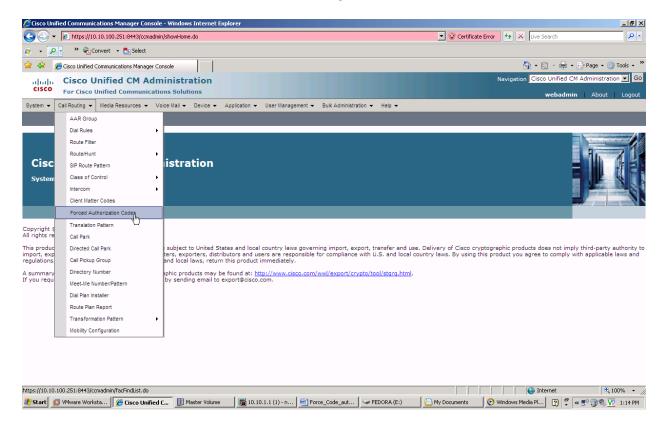
Level 3.-Users in level 3 will have access to 911, 411, Local, Long Distance, and International dialing

-Our users are going to be,

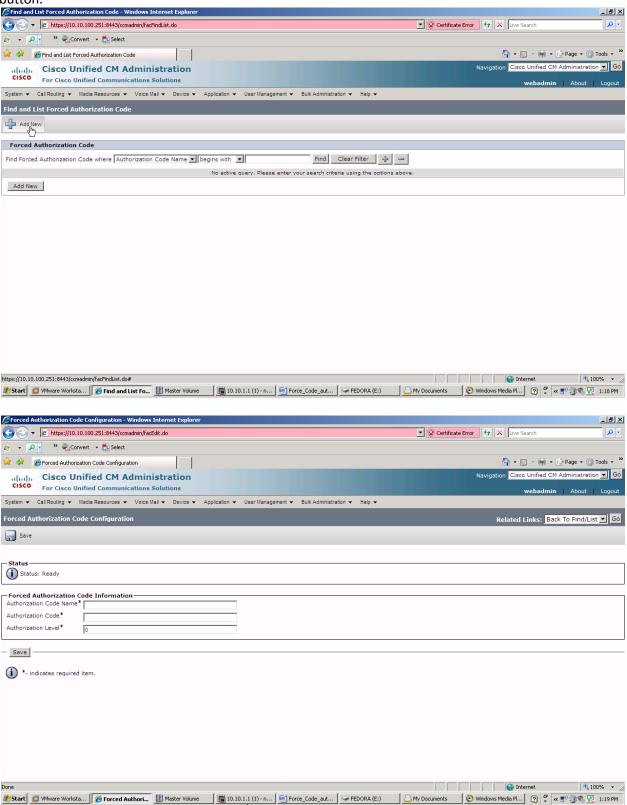
Cesar Fiestas with authorization code 123456 and authorization level 3 Jane Doe with authorization code 654321 and authorization level 2 Joe user with authorization code 999999 and authorization level 1

Step 2.-Configuring Forced Authorization Codes

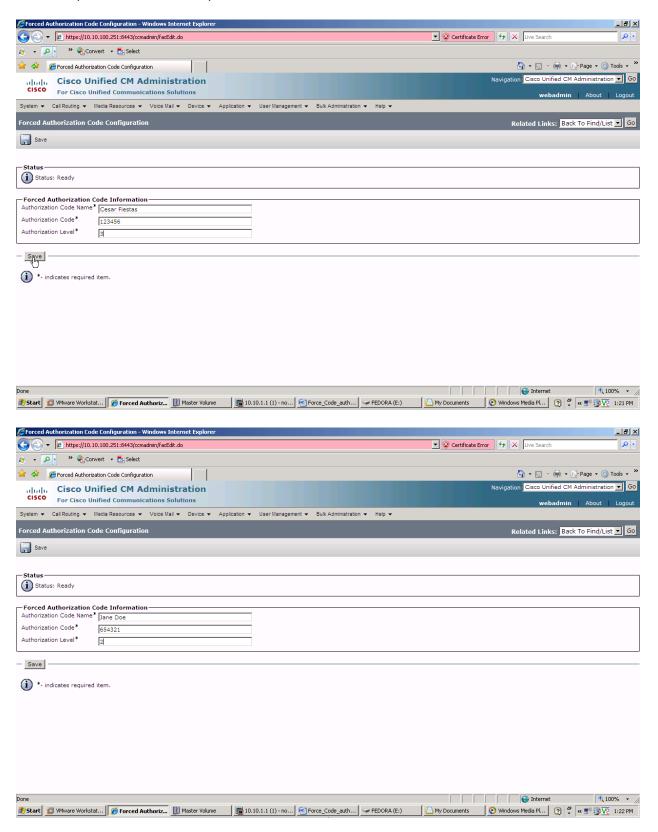
Go to the administration page of Cisco Unified Communications Manager, select Call Routing TAB, then select Force Authorization Codes as shown in the images below.



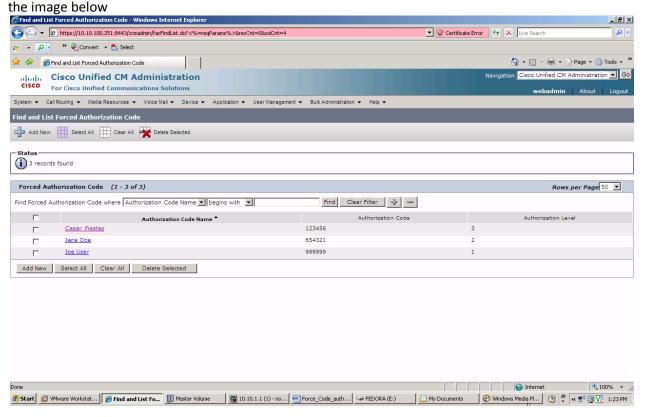
Proceed to create our users along with their respective authorization levels by clicking the ADD NEW button.



Now, let's proceed to create couple of our users.



Great!, we have now created our users along with their respective FAC codes and levels, take a look at



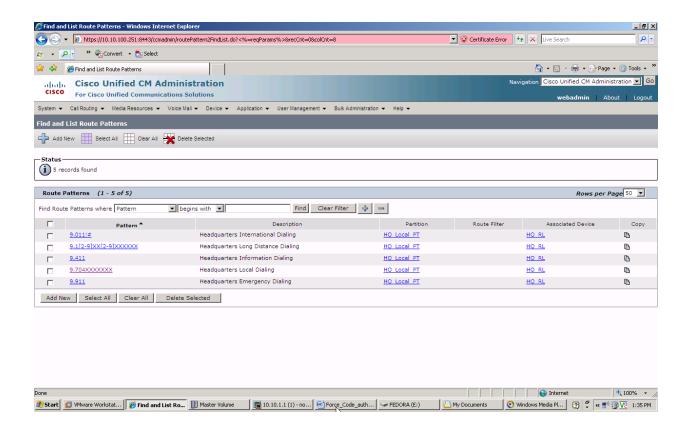
Step 3. Configuring Route patterns

For testing purposes I have configured the following route patterns and we will be applying FAC/Authorization levels to the International, Long Distance, Local and 411 route patterns, remember we don't want to apply a Forced Authorization Code to 911!

9.011!# International Dialing 9.1[2-9]XX[2-9]XXXXXX Long Distance Dialing 9.411 Information Dialing 9.704XXXXXXX Local Dialing

9.911 Emergency Dialing

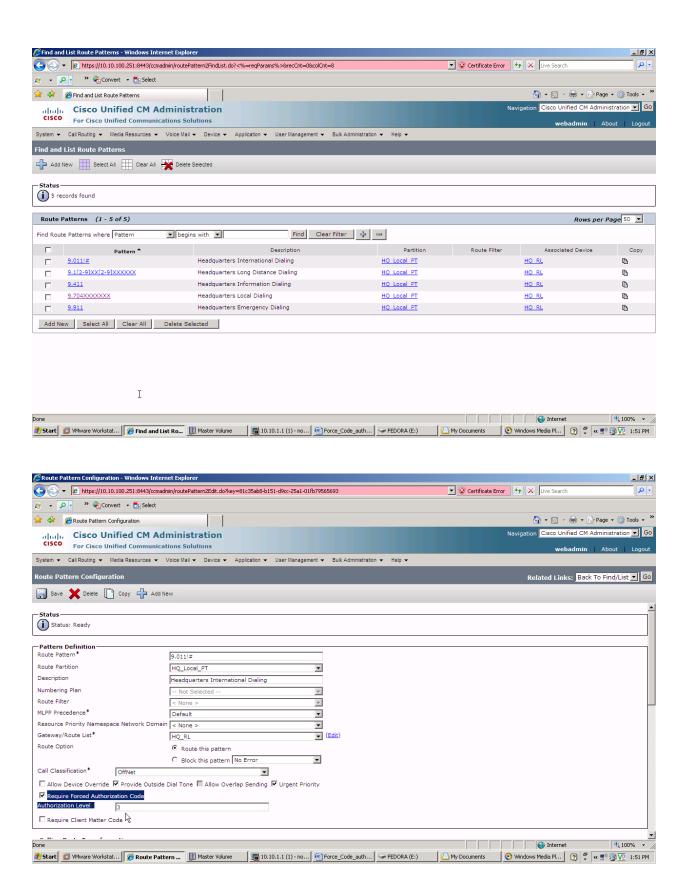
Take a look at the image shown below



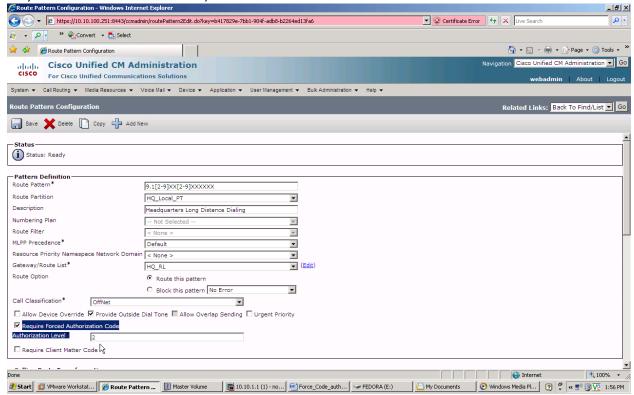
Now since we have 3 users configured with Forced Authorization Codes, we will now proceed to modify and place a restriction in our route patterns so that when a User dials a certain string of numbers matching a certain route pattern configured to require a Force Authorization Code/Authorization Level.

Let's proceed to set up the 9.011!# Route pattern which is international Dialing with a FAC/Authorization level code of 3, which is our higher authorization level code,

Go to the Administration page of Cisco Unified Communications Manager, select the Call Routing TAB, then select the Route/Hunt TAB, then select the Route Pattern TAB



Let's proceed to set up the 9.1[2-9]XX[2-9]XXXXXX Route pattern which is Long Distance Dialing with a FAC/Authorization level code of 2, which is our mid level authorization level code



Things to know:

What happened when a user hears the tone played by UCM?

The user will need to enter their respective FAC, once the user have entered their FAC, it will be a period of time before the call is completed, you can adjust this timer by modifying the T302 timer in System-Service Parameters-RespectiveUCM-Cisco Callmanager Service, before adjusting the T302 Timer read it's help page!

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