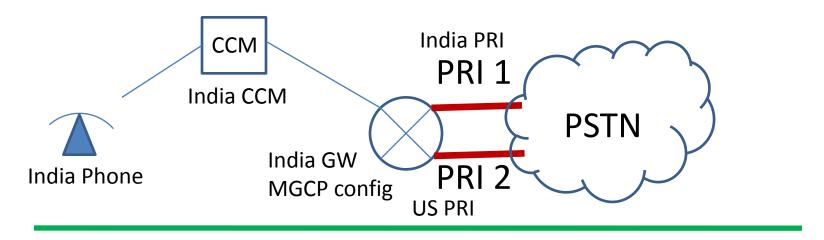
### **GeoLocation and Logical Partitioning**

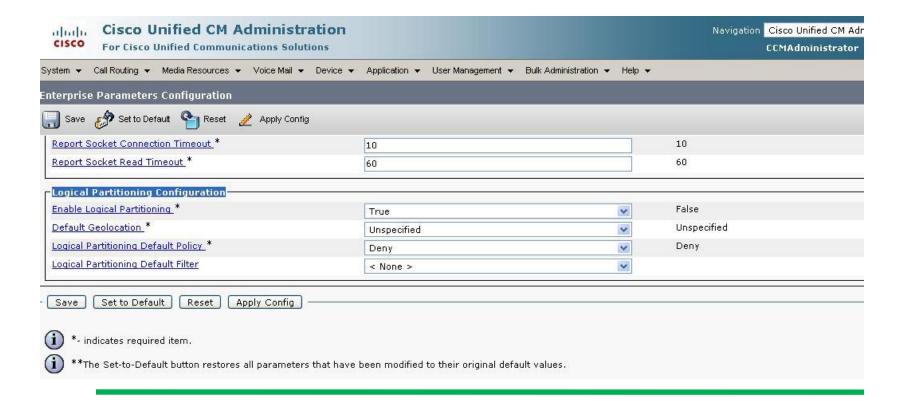
### Network Diagram



#### Call Flow Desired:

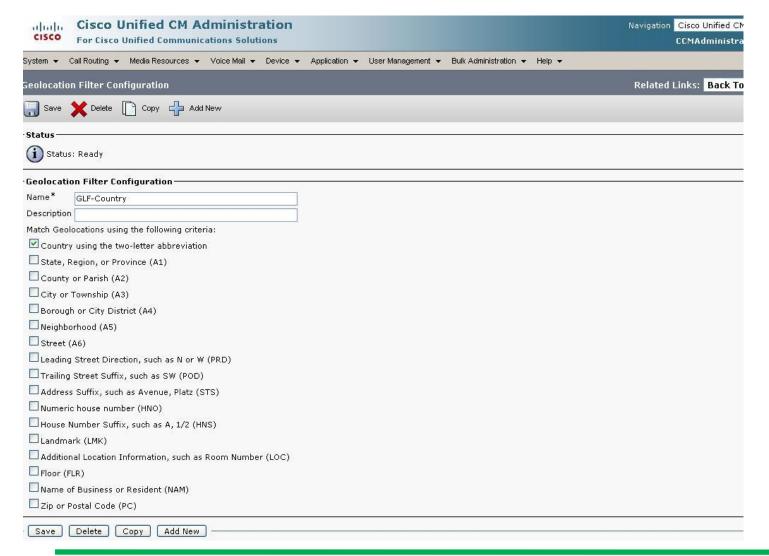
- An internal IP phone can call out PRI 1 and conference any time they desire
- The same internal IP phone can call out PRI 2 and conference any time they desire
- The IP phone CAN NOT call out PRI 1, place the call on hold, dial out PRI 2 and place all three parties in to a conference (This is considered Toll Fraud in India)

## For this setup we use GeoLocations and Logical Partitions



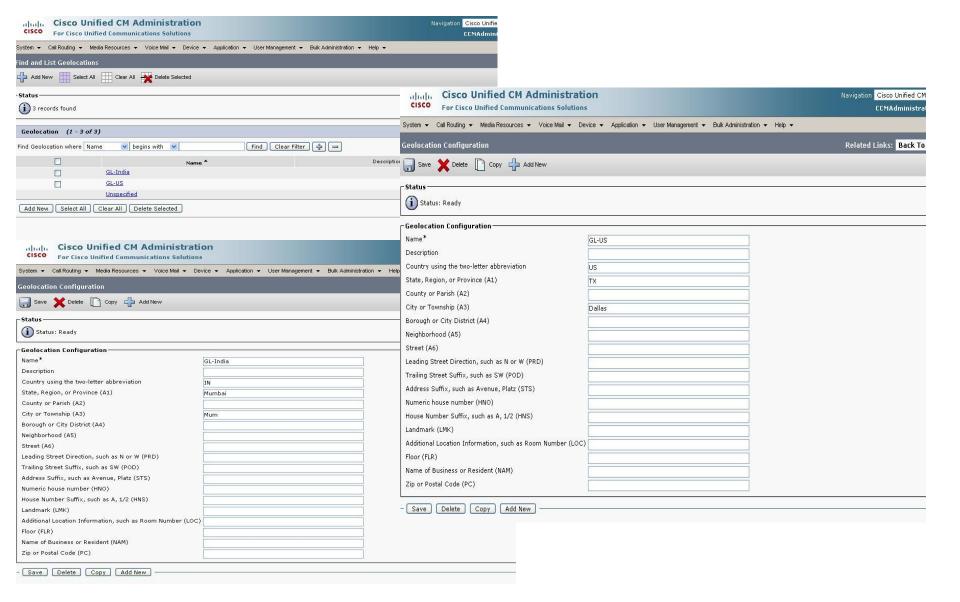
We begin by configuring the following pieces within the Enterprise Service Parameters

-Be aware if you set the Logical Partitioning Default Policy to "Deny" or "Allow"...This DOES matter!! ...Its set to "Deny" for this configuration

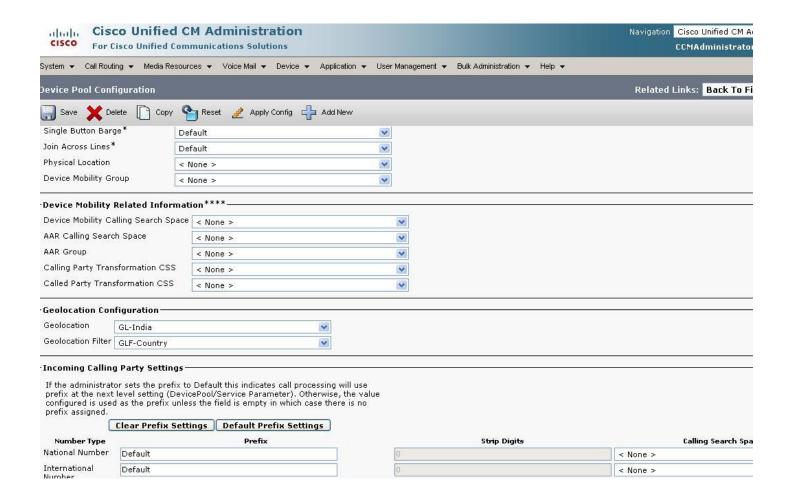


We then go to the GeoLocation Filter config and specify a single filter for this specific configuration. You would specify more if your configuration becomes very advanced.

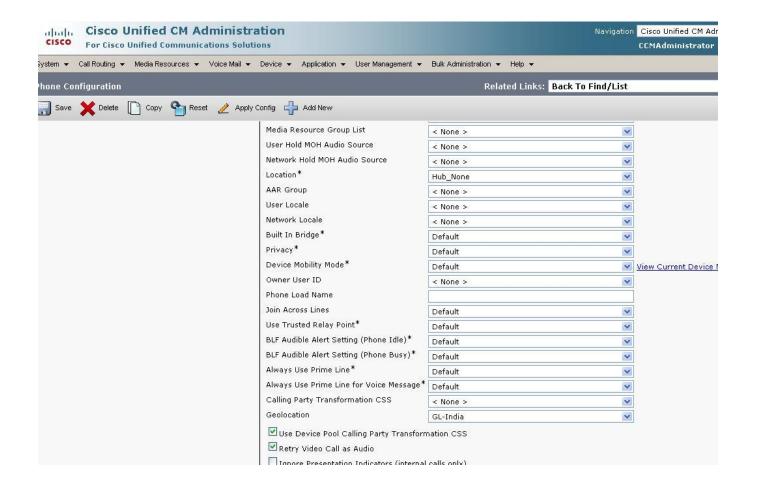
In this case we specify that we want to match only on "Country"



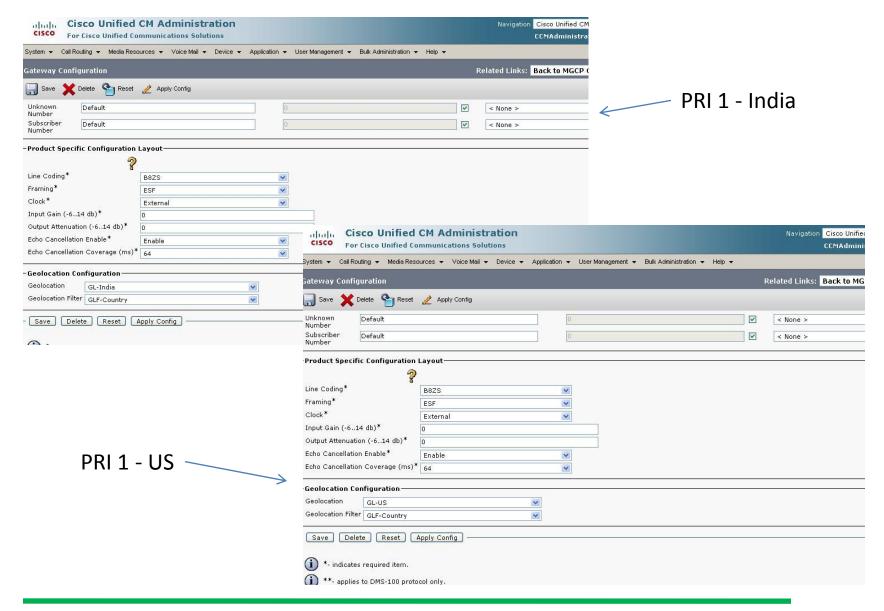
Next we go to the Geolocation Configuration and setup our certain specified locations that we would prefer to filter against. This is very simple and doesn't have to be configured any more than what you set your Geo Filter for, but I just did some extra.



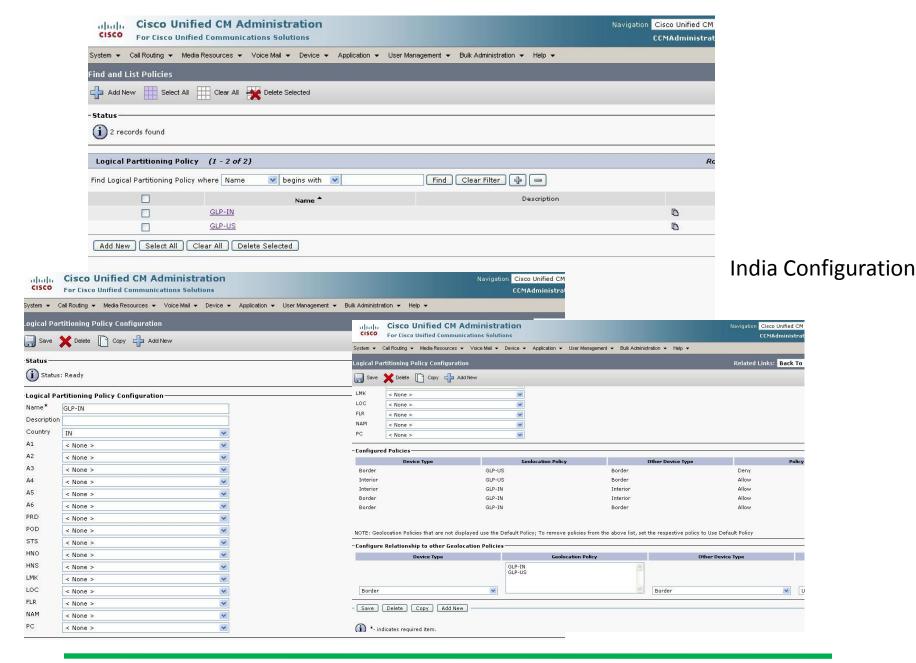
Next we go to the device pool configuration and find the Geo Config params. We set this in the location that the phone is physically sitting in.



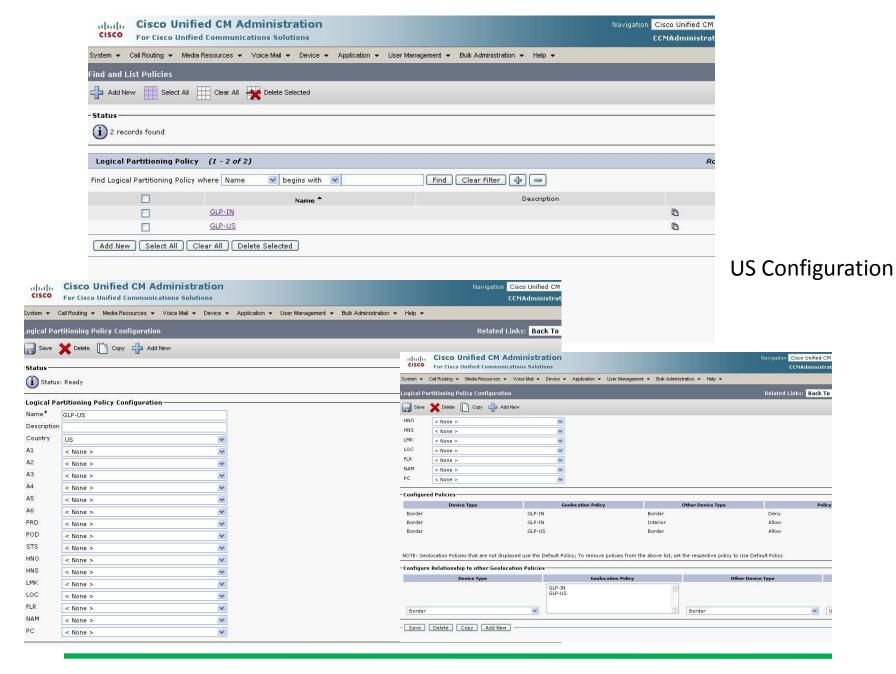
Next we go to the device configuration page for the phone and select the location that the phone is sitting in.



Next we go to the device configuration page for the PRI interfaces and then begin to configure them as individual units, instead of being looked at like they are the same.



Next comes the much more difficult part of configuring the Logical Partition Policies.



Next comes the US configuration.

### **Know your Border and Element Devices.**

### What is meaning of Border & Interior? How to know which device is Border vs Interior?

This is the terminology used to categorize the UCM devices based on its functionality:-

- -The devices which allow PSTN access or communication to inter-cluster trunk are called as "Border" devices.
- The VoIP endpoints are called as "Interior" devices.

### Typical "Border" devices are:-

Gateway (for example, H.323 Gateway)

Intercluster trunk (ICT), both gatekeeper-controlled and non-gatekeeper-

controlled

H.225 trunk

SIP trunk

MGCP port (E1, T1, PRI, BRI, FXO)

# Typical "Interior" devices are:-

Phones (SCCP, SIP, third party)

VG224 analog phones

MGCP port (FXS)

**CTI Route Points and CTI Ports** 

Cisco Unity Voice Mail (SCCP)

This derivation of Border & Interior is fixed based on UCM device and is not configurable for UCM 7.1.

The entire configuration above was done with the Enterprise Parameter set to a "Deny" State. See slide #2 ...

In some circumstances you might want to modify that to "Allow" and then simply setup everything that you want to "Deny" as it's a bit more difficult to do it as this configuration is setup.

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For this setup all you have to configure is the following:

- Enterprise Params
- Geo Filter
- Geo Config
- Device Pool
- Geo information on the IP phone
- Geo information on the PRI interfaces(the gateway is MGCP)
- Geo Policies (Border/Interior allow/deny config) within the Logical Partitioning