



IP Phone Application Demonstration

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Demo XML Phone Apps

Cisco.com

- Created for GDSS and Defence/HLS vertical
- Source code (except WAVE) available on APAC GDSS web site

See <http://wwwin-tools.cisco.com/sales/go/gdsg/asiapac/technical>

- Demonstration purposes only

Main Phone Service Menu

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WAVE and Simple LMR (Land Mobile Radio)



WAVE and Simple LMR

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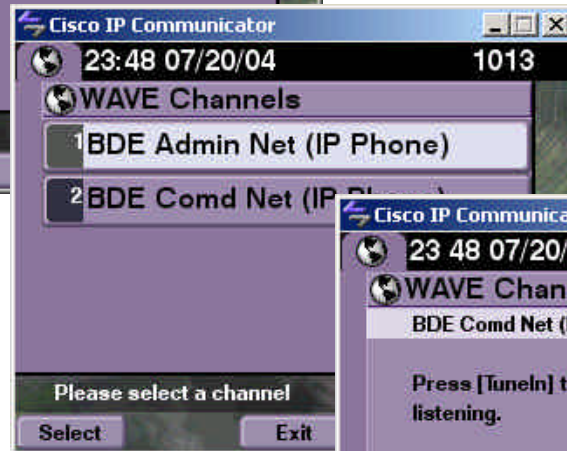
- **Allow the IP phone to be used as an LMR Client**
- **WAVE XML App provided by Twisted Pair as part of full WAVE solution – see www.twistpair.com**
- **Simple LMR developed to show LMR client capability of IP Phone without needing WAVE license**

WAVE

WAVE is a full featured LMR/Hoot/Voice application that offers a PC client, multiple channels, user profiles, voice recording etc, etc... The Phone XML Application is fairly straight forward, so if this is all the features you wish to demonstrate, then better to use the Simple LMR application.



 **Login**

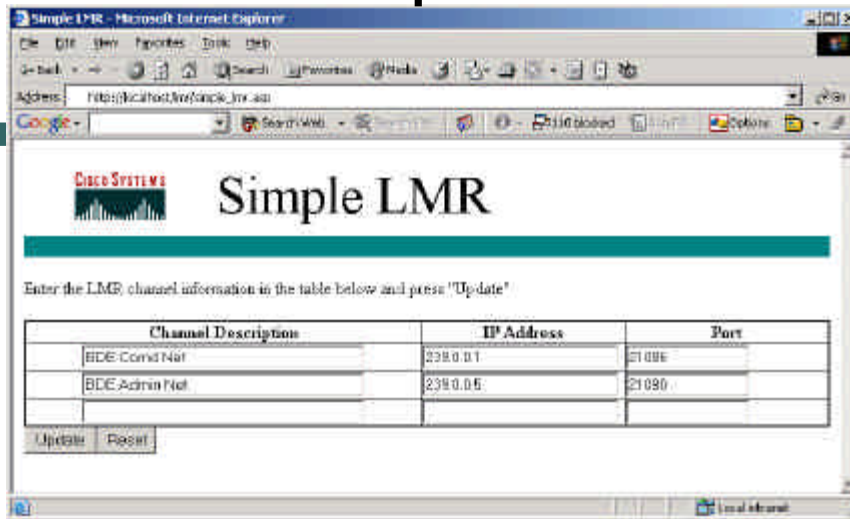


 **Select WAVE Channel**



**Tune-in
and Talk!**

1. Set up Channels



2. Select a Channel



Simple LMR is a Quick and Dirty Phone Service App designed to show the IP Phone integration with LMR without the need for a high end application like WAVE.

We found that this is good to show 3rd party System Integrators that have their own application similar to WAVE thereby giving them an option to develop their own Phone App capability

There are 2 components: First use the Web front end to set up the radio channels, then use the phone service app to tune in and talk.

Note that the PTT (URLDOWN tag) works just fine in Simple LMR on the 7970 – but doesn't work in WAVE.



3. Listen/Talk

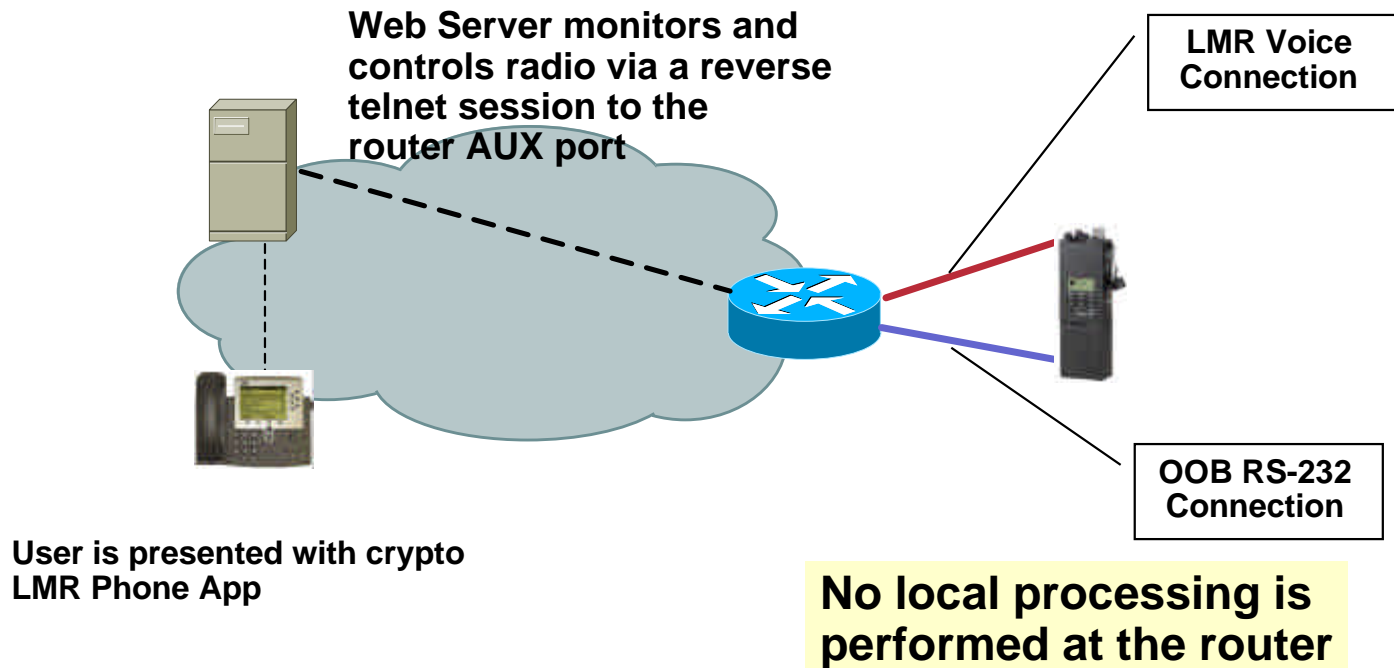
Simple LMR + Crypto



Crypto Control

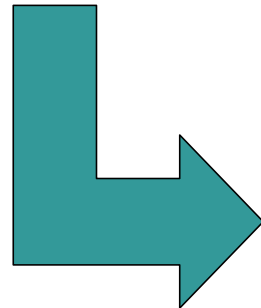
Cisco.com

Reverse telnet to AUX ports allows control of Crypto via RS-232





Crypto device showing
both channels as plain text



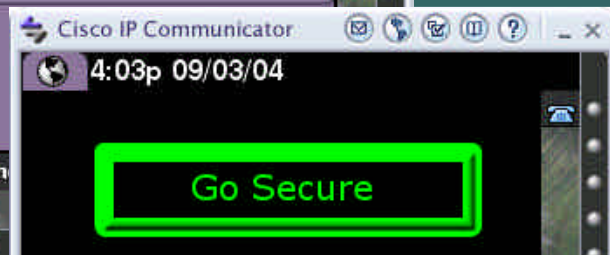
User Selects LMR+Crypto





User Selects the Radio Net

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Crypto device shows channel in Cipher Mode.



User Selects "Go Secure"

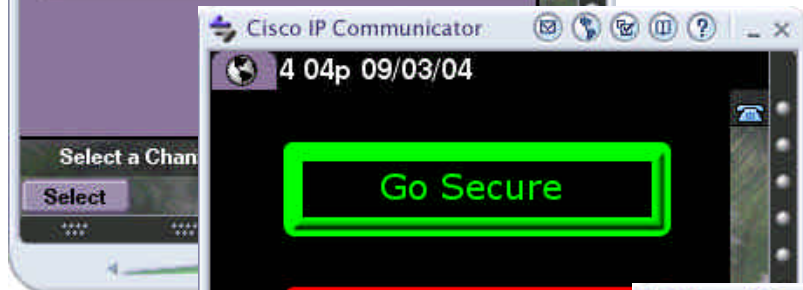


User Exits – Channel shows Z



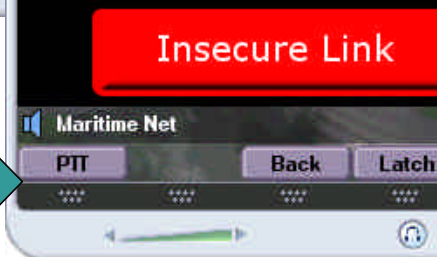


User Selects the Radio Net

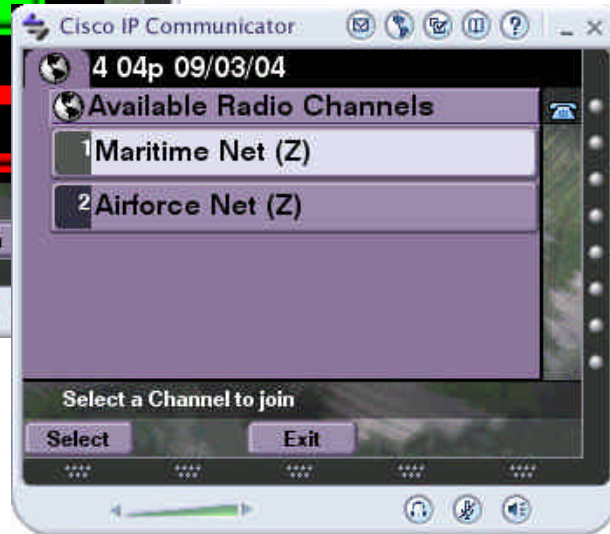
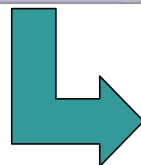


Crypto device shows both channels in Cipher Mode.

User Selects "Go Secure"



User Exits
Both channel show Z



Battle Map

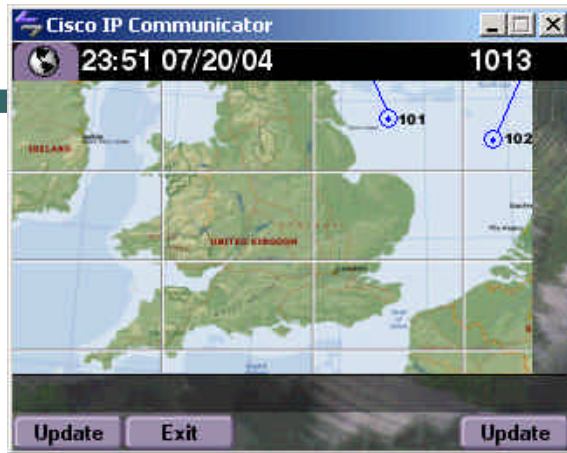


Battle Map

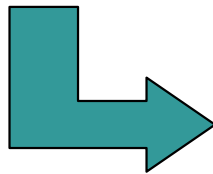
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- **Designed to show the capabilities of the 7970**
- **Offers a scrollable map, and pop up information**
- **Map in this demo is static, however it is fairly easy to create and use a dynamic map – such as the COP**
- **Demonstrates the ability to drill down onto a unit and make a call or tune into their radio network (via LMR)**

Top Level Map



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**Touch the screen to
Zoom in and use the
soft keys to Scroll**



Popup Information about Units



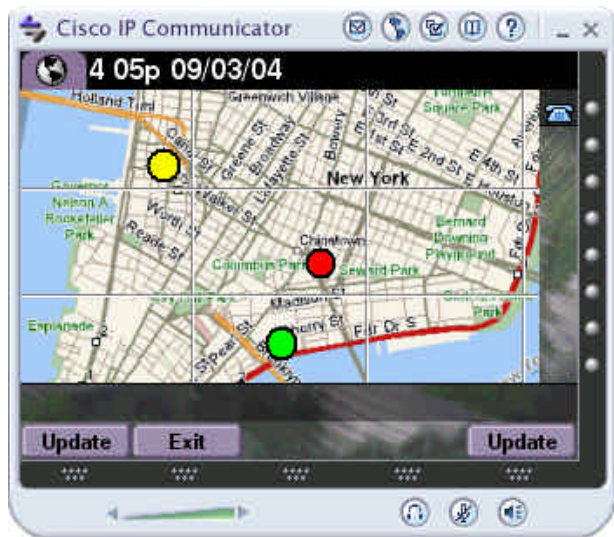
If linked to a back end directory/database, the Unit selected can be contacted by phone or via radio using LMR.

Note that this is for concept demonstration purposes only, so the Call softkey call ext 100 and LMR is hard coded for 239.0.0.1:21086

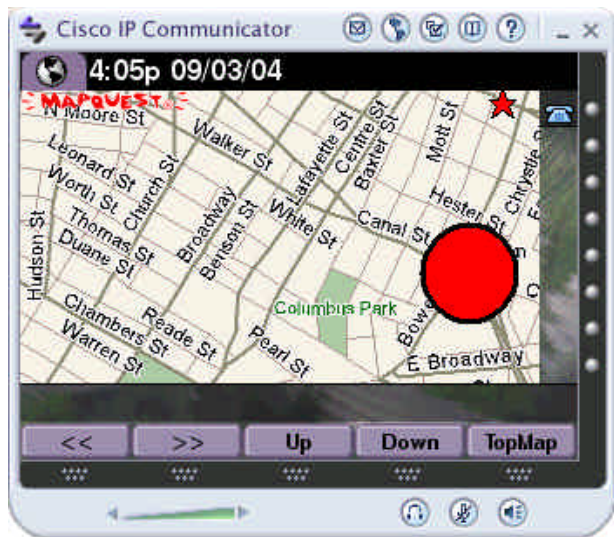


Situational Awareness for Public Safety





User zooms in on map



its reserved.

User Selects AO



Selects LMR to talk



Coalition Dialer



Coalition Dialler

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- Requirement came from JWID 04 where the Coalition Phone directory was not available
- Concept is that you can drill down into a National directory (ORBAT) using the Joint Staff System labels, then make the call.

National Level Selection

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Staff Selection



Position to Call



CISCO SYSTEMS

