# Anritsu

# Testing IP-based Video Telephony/ IMS Application

## for CDMA2000 1xEV-DO Rev. A

Signalling Tester
## MD8470A
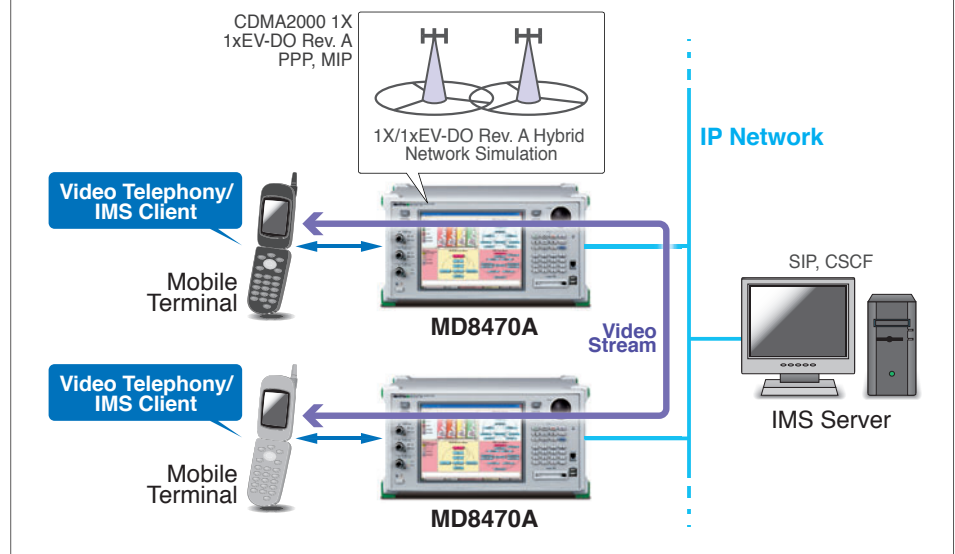
## IP-based Video Telephony Service and IMS

The high data speed and Quality-of-Service (QoS) capability of the 1xEV-DO Rev. A standard enhances CDMA2000 mobile communications. The IP Multimedia Subsystem (IMS) architecture offers multimedia services over IP networks and is a key technology in achieving IP convergence. IP-based Video Telephony is an advanced service supported by 1xEV-DO Rev. A and IMS, bringing challenges for mobile-phone manufacturers to develop and release quality applications with appeal for subscribers.

## Establishing Test Environment for IP-based Video Telephony Application

IP-based video telephony requires a wide range of new technologies, such as a new 1xEV-DO Rev. A bearer, Multi-Flow Packet Application, QoS, IMS including Session Initiation Protocol (SIP) signalling, and a video telephony application. This combination of new technologies makes verification of system operation difficult. However, by simulating a CDMA2000 network, the all-in-one MD8470A Signalling Tester provides an ideal benchtop test and verification environment. When combined with an external IMS server, it supports a highly integrated, end-to-end, video telephony test environment to assure proper functioning and good end-user experience.

**IP-based Video Telephony/IMS Application Test Setup Example**



CDMA2000 1X
1xEV-DO Rev. A
PPP, MIP

1X/1xEV-DO Rev. A Hybrid Network Simulation

IP Network

Video Telephony/ IMS Client

Mobile Terminal

**MD8470A**

Video Stream

SIP, CSCF

IMS Server

Video Telephony/ IMS Client

Mobile Terminal

**MD8470A**

## Benefits of MD8470A Signalling Tester Environment

- Early testing in development phase reduces problems at field testing
- Sharing same test environment in different development labs increases troubleshooting efficiency
- Integrated and easy-to-setup simulation environment reduces learning curve