



# Dilithium

COMMUNICATIONS FOR A BORDERLESS WORLD .....

# ViVAS VIDEO VALUE ADDED SERVICES

## Video Surveillance

ViVAS™ Video Surveillance is the first mass consumer video monitoring application that leverages the video capabilities of 3G mobile technology and video handsets.

Video surveillance systems, similar to other home surveillance systems, have typically been based on proprietary systems that are designed, supplied, deployed, and supported by security companies. These proprietary systems are often complicated and can only be viewed via terminals that are costly to deploy.

Leading Singaporean operator SingTel offers Dilithium Video Surveillance service over its 3G network. When Video Surveillance was launched, SingTel experienced significant increase 3G data traffic and sharp increase in average revenue per user.

Dilithium Video Surveillance is based on the highly flexible and versatile Dilithium ViVAS (Video Value Added Services) solution as well as industry leading know-how on converged video solutions for the mobile, broadband and internet markets. ViVAS provides a rich and personalized user experience, enabling users to get access diverse video content when and where they want it.

Dilithium ViVAS is a hardware and software platform that provides reliable real-time streaming of video content to and from mobile wireless devices and SIP clients. The platform

incorporates a media server, SIP server, multimedia transcoding gateway, and a comprehensive service creation environment.

ViVAS incorporates many of Dilithium's patented technologies, including Unicoding™ that significantly reduces audio and video delays; MONA (Media Oriented Negotiation Acceleration), which decreases the session setup time to around one second, comparable to voice calls; and delayed charging capability that allows delivery of free media during call set up time.

Dilithium ViVAS is compatible with all major voice and video standards used in 3G and IP networks.



## KEY FEATURES

- **Surveillance Devices:** Cameras with fixed and moveable view are available. Cameras can be openly or covertly deployed. Pan tilt and zoom controls via DTMF digits on the mobile phone and via web browser are supported
- **Connectivity:** Ethernet and Wi-Fi.
- **Multiple Access Points:** Surveillance video is available via PC and mobile handsets. For mobile access, consumers can simply dial up a designated number and select the desired video feed to be viewed.
- **Control:** Using the numeric keypad of the mobile handset or buttons within the web browser, consumers can control camera angles, zoom, and switch from one camera feed to another.
- **Event Notification:** Video can be pushed to the mobile handset based upon a motion trigger.
- **Mobile Authentication:** The system can authenticate the caller based on the caller ID of the phone, a username/password within the web browser, and a unique personal identification number for service access.

## BENEFITS

### Consumers

- Easy-to-deploy and cost effective video surveillance solution
- Consumers receive live video feeds directly from their home to their mobile phone
- An intuitive video menu layout that facilitates camera selection and navigation
- Rapid video content connection (less than 1 sec)
- Unparalleled video quality

### Operators and Content Providers

- Improve ARPU with new revenue generating services
- Promote video usage among existing mobile phone users
- Strengthen subscriber loyalty
- Robust carrier grade solution with scalability up to multi-million users systems
- Open service description technology
- IMS infrastructure integration accessible by 2.5G/2.75G/3G mobile, Wireline/Wireless Broadband and HTTP



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**CORPORATE HEADQUARTERS**  
5401 Old Redwood Highway, Suite 100  
Petaluma, CA 94954, USA  
Tel: +1 707-792-3900  
Fax: +1 707-795-3744  
[www.dilithiumnetworks.com](http://www.dilithiumnetworks.com)

**ASIA PACIFIC HEADQUARTERS**  
50 Bukit Batok St. 23 #07-04  
MidView Building Singapore 659578  
Tel: +65 6896 5755  
Fax: +65 6267 8007

**EUROPEAN HEADQUARTERS**  
Wyvols Court, Swallowfield  
Reading, Berkshire, RG7 1WY, UK  
Tel: +44 118 988 0247  
Fax: +44 118 988 0360