

# Interoperability Test Results for the Dialogic® Multimedia Products and 3G Phones

Updated September 2008

Technology Brief

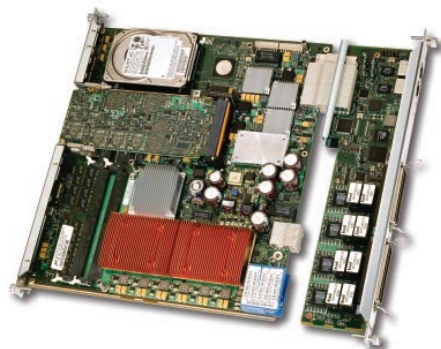
Dialogic® Multimedia Products provide the functionality required to create multimedia server and gateway solutions for 3G wireless, IP, and TDM networks using standard protocols for session and media control. Developers can use Dialogic Multimedia Products to deliver applications such as voice and video mail, CRBT, unified messaging, and video conferencing over IP and PSTN interfaces

Dialogic Multimedia Products include:

- **Dialogic® Multimedia Kit for PCIe (MMK for PCIe)** — A powerful, flexible, and cost-effective combination of hardware and software that enables developers to deliver innovative multimedia applications on a standards-based Rack Mount Server (RMS) with a PCI Express interface.



- **Dialogic® Multimedia Platform for AdvancedTCA (MMP for ATCA)** — A powerful and cost-effective product that enables developers to deliver innovative multimedia applications in the industry-standard AdvancedTCA form factor.



The Dialogic Multimedia Products can handle video calls on Third-Generation (3G) wireless networks using the 3G-324M interface. This capability allows developers to use Dialogic Multimedia Products to build multimedia solutions that can be connected to 3G wireless networks without external 3G-324M gateways.

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Because multiple vendors are making 3G video-capable mobile handsets available, testing for interoperability between various phone models and Dialogic Multimedia Products is important. Dialogic has taken the initiative, and has recently been engaged in extensive 3G interoperability testing. This document provides an overview of the test procedure and results to date.

## Test Methodology

Dialogic's test system combines one or more of the following applications on MMP for ATCA or MMK for PCIe:

- Dialogic 3G-324M Multimedia Gateway Demo application.
- Dialogic Multimedia Demo application.
- ISDN signaling gateway application built with Dialogic® signaling boards. The boards are needed when testing on MMP for ATCA, which does not support ISDN signaling.

Tests are performed on the 3G wireless networks in Europe and Singapore with off-the-shelf 3G handsets.

Each test consists of the following:

1. Call is made from one 3G phone to another to establish a baseline.
2. Call is made from a 3G phone to the multimedia application. Connection is verified.
3. Using the features available in the multimedia application, digits are verified as properly detected, and play and record operations are performed.
4. Quality of video, audio, and A/V synchronization are noted using subjective criteria. More objective test criteria are under study.

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## Test Results

Table 1 lists the 3G phone sets that have been tested successfully. More details are available upon request.

Vendor	Model	Vendor	Model
Benq	EF81	Samsung	u502
LG	U8330i		u700
	U8120		ZV10
Motorola	RazrV6		Z400
	RazrV9		Z540V
	u499		z560 u340
	V975	Sanyo	s750i
	V1075	Sharp	902SH
Nokia	E60		903SH
	E61i		550SH
	E65	Siemens	SXG75 (u503)
	N70	Sony-Ericsson	K610i
	N73		K800i
	N80		K810i
	N82		P990i
	N90		U880i
	N91		V600
	N93		V630i
	N95		V800
	6121		W900
	6288		W910i
	6280		u433 (Walkman)
	6680		Z610i
	RM-36V		Cybershot
		Toshiba	TS705

Table 1. Successfully Tested 3G Phone Sets

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