



**Media Inquiries:**

**Matt Krebsbach**

Waggener Edstrom Worldwide

512-527-7015

[mkrebsbach@waggeneredstrom.com](mailto:mkrebsbach@waggeneredstrom.com)

## **TOSHIBA ANNOUNCES NEXT GENERATION SECURITY FEATURE TO IMPROVE DATA SECURITY FOR SELF-ENCRYPTING HARD DRIVES**

*New Security Feature Automatically Wipes Protected Data When Drive is Connected to an Unknown Host System*

**IRVINE, Calif., April 12, 2011** – Toshiba announces the first<sup>1</sup> family of self-encrypting hard disk drives (HDDs) engineered to automatically invalidate protected data when connected to an unknown host. The new Toshiba Self-Encrypting Drive (SED) models enable OEMs to configure different data invalidation options that align with various end-user scenarios. Designed to address the increasing need for IT departments to comply with privacy laws and regulations governing data security, the drives are ideally suited for PC, copier and multi-function printer, and point-of-sale systems used in government, financial, medical, or similar environments with an acute need to protect sensitive information.

Building on the industry-standard Trusted Computing Group “Opal” Specification, the new Toshiba MKxx61GSYG models leverage advanced access security and on-board encryption alongside second generation data wipe technology. Whether to protect against data loss resulting from lost or stolen notebooks or to maintain the security of document image data stored within copier and printer systems, Toshiba SEDs can securely invalidate protected data. Data invalidation attributes can be set for multiple data ranges, enabling targeted data in the drive to be rendered indecipherable by command, on power cycle, or on host authentication error—an industry first. This flexibility provides systems designers with a powerful set of data security options that can be easily incorporated into existing system architecture.

With the latest enhancement to Toshiba’s SED technology, the risk of data theft is reduced in cases where the drive is removed from its defined host environment and connected to an unknown system. At power ON, the SED and host perform an authentication process. If the

authentication fails, the drive can be configured to simply deny access or crypto-erase sensitive user data.

Scott Wright, product manager, Toshiba Storage Device Division, notes, “Digital systems vendors recognize the need to help their customers protect sensitive data from leakage or theft. Toshiba’s security technologies provide designers of copiers, printers, PCs, and other systems with new capabilities to help address these important security concerns.”

Toshiba’s latest SED and data wipe security features will be demonstrated this week during an event at Toshiba headquarters in Japan for media and analysts. Customer sampling and volume production of the MKxx61GSYG models will occur in Q2, and Toshiba will focus on working closely with targeted OEMs and security ISVs to help them closely integrate the latest wipe technology features.

For more information on the Toshiba line of industry-leading enterprise-class small form factor SSDs and HDDs, visit [www.toshibastorage.com](http://www.toshibastorage.com).

#### ***Product Specifications***

Model number	MK6461GSYG	MK5061GSYG	MK3261GSYG	MK2561GSYG	MK1661GSYG
Capacity (formatted) <sup>2</sup>	640GB <sup>2</sup>	500GB	320GB	250GB	160GB
Number of platters	2			1	
Seek time		12msec			
Interface		Serial ATA			
Interface speed		3.0Gbps			
Rotational speed		7,200 RPM			
Buffer		16MB			
External dimensions (W x D x H in mm)		69.85 x 100.0 x 9.5			
Weight (g)	115g (max)		98g (max)		
Power					
Seek		2.3 Watts (typ.)			
Read/write		2.1 Watts (typ.)			
Encryption Algorithm		AES 256 <sup>3</sup>			
Wipe technology function		Supported			

#### ***About Toshiba Storage***

Toshiba is a one-of-a-kind global storage company, offering hard disk drives (HDDs), optical disk drives (ODDs), solid state drives (SSDs) and NAND flash memories – technologies that drive a wide range of consumer electronics, computer and automotive applications, as well as enterprise solutions for the global marketplace. Toshiba leads in the development, design and manufacture of mobile, retail and enterprise hard disk drives. In North America, the Storage Device Division of Toshiba markets high-quality storage peripherals to original equipment manufacturers, original design manufacturers, value-added resellers, value-added dealers, systems integrators, distributors and retailers worldwide. Inherent in the Toshiba storage family are the high-quality engineering and manufacturing capabilities that have established Toshiba products as innovation leaders worldwide. For more information, visit [www.toshibastorage.com](http://www.toshibastorage.com).

***About Toshiba***

Toshiba is a world leader and innovator in pioneering high technology, a diversified manufacturer and marketer of advanced electronic and electrical products spanning digital consumer products; electronic devices and components; power systems, including nuclear energy; industrial and social infrastructure systems; and home appliances. Toshiba was founded in 1875, and today operates a global network of more than 730 companies, with 204,000 employees worldwide and annual sales surpassing 6.2 trillion yen (US\$75 billion). Visit Toshiba's web site at [www.toshiba.co.jp/index.htm](http://www.toshiba.co.jp/index.htm).

***About Toshiba America Information Systems Inc. (TAIS)***

Headquartered in Irvine, Calif., TAIS is comprised of four business units: Digital Products Division, Imaging Systems Division, Storage Device Division and Telecommunication Systems Division. Together, these divisions provide mobile products and solutions, including industry-leading portable computers; televisions, TV/DVD Combination products, Blu-ray Disc and DVD products and portable devices; imaging products for the security, medical and manufacturing markets; storage products for automotive, computer and consumer electronics applications; and telephony equipment and associated applications.

TAIS provides sales, marketing and services for its wide range of products in the United States and Latin America. TAIS is an independent operating company owned by Toshiba America, Inc., a subsidiary of Toshiba Corporation. Toshiba is a world leader and innovator in pioneering high technology, a diversified manufacturer and marketer of advanced electronic and electrical products spanning information and communications systems; digital consumer products; electronic devices and components; power systems, including nuclear energy; industrial and social infrastructure systems; and home appliances. Toshiba was founded in 1875, and today operates a global network of more than 740 companies, with 204,000 employees worldwide and annual sales surpassing 6.3 trillion yen (US\$68 billion). For more information on Toshiba leading innovations, visit the company's web site at [www.toshiba.com](http://www.toshiba.com).

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1. As of April 12, 2011. Source: Toshiba.
2. One Gigabyte (1GB) means  $10^9 = 1,000,000,000$  bytes using powers of 10. A computer operating system, however, reports storage capacity using powers of 2 for the definition of 1GB =  $2^{30} = 1,073,741,824$  bytes, and therefore shows less storage capacity. Available storage capacity will also be less if the computer includes one or more pre-installed operating systems, pre-installed software applications, or media content. Actual formatted capacity may vary.
3. AES 256 (256-bit Advanced Encryption Standard) is the selected encryption algorithm by the U.S. National Institute of Standards and Technology. This is the standard form of encryption used by the U.S. government. AES defines three possible key lengths: 128, 192, and 256 bits. The longer the key, the stronger the encryption.