

## NORTH AMERICA PRESS RELEASE

### ID Production System for GEN2 RFID Cards Unveiled at RFID Journal Live! 2008

Greenville, SC, USA, 16 April 2008 – In partnership with SPECSid, ThingMagic and Vanguard ID Systems, Digital Identification Solutions is demonstrating the ability to print and encode GEN2 RF identification cards on demand and in less than one minute using desktop ID card printers at this weeks RFID Journal Live 2008 in Las Vegas, NV.

While GEN2 RFID is commercially proven for inventory/product management and tracking, it is a relatively new method for identifying and/or tracking people. Current “people” applications are limited to border crossing programs, such as the new enhanced drivers license used by or under consideration for use in U.S. States bordering Canada and Mexico.

The solution being shown this week at RFID Journal Live! 2008 ([www.rfidjournalevents.com/live](http://www.rfidjournalevents.com/live)) uses ID cards from Vanguard ID Systems (<http://www.vanguardid.com>). These card blanks contain a GEN2 UHF inlay that can be encoded during the card printing process, then read nearly 30 feet away, making them ideal for applications where a card needs to be read well before the cardholder reaches a checkpoint.

The enrollment and card production software is provided by SPECSid ([www.specsid.com](http://www.specsid.com)), a division of the Canadian-based firm SPECS Computer Software Ltd. that specializes in custom solutions for advanced identification needs. The software manages the enrollment of cardholder data, including the capture of a digital photo, and then instructs an **EDISecure**<sup>®</sup> XID580ie ID card printer ([www.xid580ie.com](http://www.xid580ie.com)) from Digital Identification Solutions to encode a value into the GEN2 inlay of a blank card and personalize it by printing the cardholders personal data and photo onto the card. The encoding and printing process takes about 45 seconds and is initiated via a single print command. The SPECSid software accomplishes the encoding by communicating with a ThingMagic (<http://www.thingmagic.com>) M4e or M5e GEN2 encoder that is embedded into the **EDISecure**<sup>®</sup> XID printer.

The **EDISecure**<sup>®</sup> XID580ie printer from Digital Identification Solutions ([www.digital-identification.com](http://www.digital-identification.com)) utilizes retransfer printing, often referred to as reverse image and high definition printing, to print an image onto one or both sides of an ID card. Retransfer type printing is the preferred method for printing whenever electronics of any type, such as the GEN2 tag/inlay, are embedded into a card. Retransfer type card printing is almost always preferred when the card body is made of materials other than PVC, which is the case with the Vanguard cards. The cards are made with Teslin<sup>®</sup>, which is an alternative plastic material that offers increased durability and flexibility for many card applications.

Because of the long read range associated with GEN2 UHF RFID cards, it is customary to encode a simple unique number into the card that does not contain sensitive personal information about the cardholder. Instead, the unique number is used to retrieve the cardholder's information and present it on a computer terminal as the cardholder approaches a checkpoint or gate, which helps to expedite processing people through such checkpoints. Plus, the technology can be used to read and collect many unique IDs at once, which, for example, can prove useful when a vehicle containing multiple occupants approaches a checkpoint.

GEN2 RF technology embedded into ID cards has the potential to displace some of today's smart card technologies due to the relatively low cost of the cards and the long read range. For example, a blank GEN2 ID card may sell for \$1.00 or less, whereas the typical HF (13.56 MHz) card, such as MIFARE or iClass, used with many building access control systems sell for \$2 to \$5 each. Also, HF cards typically need to be within an



inch of a card reader before they can be read, which means GEN2 UHF cards have the clear advantage if long read range is a requirement.

A likely future application of GEN2 RF technology for human identification will be to monitor who is in a building and where within the building they are located. Strategically located readers can detect who is in proximity and serve as an internal GPS system for locating employees, contractors and visitors, which can be critically important in times of crisis or emergency evacuation.

The Digital Identification Solutions demonstration is located in the Vanguard ID Systems booth at RFID Journal Live! 2008.

**About Digital Identification Solutions**

The Digital Identification Solutions Group, headquartered in Esslingen near Stuttgart, is a global provider of advanced identification solutions with a worldwide installed base of well in excess of 5,000 systems. In spring 2006, the Group introduced the latest **EDIsure**<sup>®</sup> XID Retransfer Printer Generation. The company has sales, marketing and support operations in Europe, the Middle East, Asia, China, Mexico and the United States. Together with its vast network of certified partners, Digital Identification Solutions is in a position to deliver state-of-the-art solutions virtually anywhere in the world. The company combines cutting-edge technology, extensive industry know-how and an impressive array of references in the private and public sector.

For further information on the company, please visit [www.digital-identification.com](http://www.digital-identification.com)

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