

# **TOPPAN FORMS**

November 22, 2010

## **NEWS RELEASE**

### **Toppan Forms, Connect Technologies, and Atmark Techno Partner to provide “NFC Reader Writer SDK for Android”**

Toppan Forms Co., Ltd. (Toppan Forms hereunder), the information management solution company, Connect Technologies Corp. (Connect Technologies hereunder) and Atmark Techno, Inc. (Atmark Techno hereunder) have partnered to provide “NFC Reader Writer SDK for Android” – a software development kit for Android platform.

Toppan Forms has been focusing on development and provision of Near Field Communication products that comply with NFC global standard for various platforms. The partnership with Connect Technologies and Atmark Techno allows the company to provide NFC products for Android platform. Additionally, the partnership intends to build an integration outsourcing service for development.

Software products such as driver and SDK for NFC reader writer provided by Toppan Forms can be functional on Atmark Techno’s “Amadillo” series development environment. Under the same environment, Connect Technologies plans to provide integration services covering development support and outsourcing.

Before, to make NFC products applicable to Android platform, there were several hurdles. The partnership allows companies to easily obtain development environment as well as to support and outsource development.

Toppan Forms intends to provide NFC related service surrounding cellular phone development market and related business for global market, and aim to attain 500 million yen in revenue in 2011 by providing Android related products.



#### 【SDK Kit】

- SDK
- NFC Reader Writer
- Driver
- Test Card (Mifare, Felica 2 Cards Each)
- Manual

#### 【Board Computer for Development】

- Atmark Techo “Amadillo-440”

#### 【Price】

- 298,000 Yen per Kit
- \* The SDK consists of SDK library, driver (comply to GPL), and sample application using SDK library. Only the reader writer function will currently be provided but card emulation function is planned to be supported in the future.
- \* SDK development kit can also be provided stand alone (stand alone SDK development kit's price is 198,000 Yen per package).
- \* Development service in accordance to customer's environment can be provided (price based on discussion starting at 750,000 Yen) Please ask for details.

#### ■ About NFC (Near Field Communication: ISO 18092, 21481)

NFC - the near field communication standard that uses 13.56 MHz frequency band which has been certified by ISO/IEC as an international standard in December 2003 - is co-developed by NXP Semiconductor that developed MIFARE of which 1.8 billion chips has been shipped globally, and Sony Corporation that developed FeliCa of which 400 million chips has been shipped.

#### 【NFC Basic Functions】

##### 1. Card Emulation

It will function as “FeliCa” and “MIFARE” smart card.

##### 2. Reader Writer Emulation

It will function as “FeliCa” and “MIFARE” reader writer.

##### 3. Peer to Peer

NFC devices can interactively be communicated without the hassle of verification between devices. It also has a “Hand Over” functionality where NFC devices verifies each other and actual communication are handed over to Bluetooth and WIFI communication for faster data transfer.

■ About Connect Technologies Corp.

Company Name: Connect Technologies (Mothers: 3736)

HQ Address: Nishi Shinjuku Building 4F 7-7-29 Nishi Shinjuku Shinjuku-ku Tokyo  
Japan

Established: May 17, 2000

Representative: Toshimi Horiguchi CEO and President

Business: Software Development specializing in network solution surrounding cellular phone

URL: <http://www.connect-tech.co.jp>

■ About Atmark Techno, Inc.

Company Name: Atmark Techno, Inc.

HQ Address: AFT Building 6F 2 Chome Higashi 5 Jo Chuo-ku Sapporo Hokkaido

Established: November 17, 1997

Representative: Tomohiro Saneyoshi CEO and President

Business: Planning, design, development, production, and sales of Computer Embedded Hardware and Software

URL: <http://www.atmark-techno.com>

- “Android” is a registered trademark or trademark of Google Inc.
- “Amadillo” is a registered trademark of Atmark Techno Inc.
- ”MIFARE” is a registered trademark of NXP Semiconductors
- “FeliCa” is a registered trademark of Sony Corporations.
- “FeliCa” is a contact-less smart card technology method developed by Sony Corporation.
- “Bluetooth” is a registered trademark of Bluetooth SIG Inc., U.S.A.