Company Presentation

Cross Border Technologies
- The technology licensing company -
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## Overview

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<td>Axel Bialke, Dr. Andreas vom Felde, Eric Kim</td>
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Our Corporate Objective

International Technology Licensing, and IP Sales

- Experts in technology sales and B2B licensing with decades of experience
- Specialist in semiconductor, communication, automotive and software Markets
- Excellent B2B network in Japan, Europe, Korea, Taiwan and US
- Advisor in technology scouting, business development and market development
Company Executives

Axel Bialke, *1963, Germany

CEO & MD Cross Border Technologies Japan

• spend 30 yrs. in high tech Industry, e.g. marketing and business development
• lived and worked 15+ yrs. in Japan and developed business exceeding 1 bill. €
• Specialist in semiconductor, Mobile communication, automotive technologies, software, NFC technologies
• Huge network in Japan, multilingual, perfect in Japanese

Andreas vom Felde, *1960, Germany (Ph.D.)

MD Cross Border Technologies Europe

• spend 28 yrs. in high-tech Industry, e.g. material science, applied research, information technology and finance
• specialist in semiconductor, IT, Software, environmental technologies
• Broad Network in Europe and US

Eric Kim, *1973, Korea,

MD Cross Border Technologies Korea

• More than 15 yrs. in high tech Industry, e.g. marketing and business development and sales
• Strong background in technology of semiconductors, mobile communication, software, imaging/camera, etc
• Broad Network in Korea, USA and EU
Market Segments

- Semiconductors
- Automotive technologies (Telematics)
- Telecommunications
- NFC technologies
- Software

Automotive technologies (Telematics)
Network in Korea
Taiwan, China

Company Profile
Network in US

Company Profile
Technology Licensing & Sales in Japan, Korea and Europe

We license & sell to new markets, or to markets you have not been successfully licensed yet

- Exceptional expertise regarding Japanese, Korean, Taiwanese, European and US high-tech markets, products, players, trends etc.
- Wide ranging contacts up to board level of most mayor high-tech companies in order to introduce your technology IP and finding potential licensing partners for you
- Knowledge of customer’s needs for acquiring new technologies

We generate fast additional revenues

- Development the right licensing strategy for your technology
- Facilitation of the negotiations in order to get the best license contract condition

We minimize your risk and costs

- Business with or without retainer possible. Main target is commission on revenue we develop for you

Service we offer
Our Services

- Worldwide B2B Technology Licensing & Sales
- Consulting
Licensing Process

1. Technology presentation from your side

2. Contract between Cross Border Technologies and you

3. Sales and business development activities

4. Contract or sales agreement between licensee and you

5. Sales start
Technology scouting

- Scouting of technologies for semiconductor, automotive and telecommunication products in Europe, Japan, Korea, Taiwan and US
Our Technology portfolio

- NFC technologies
- Semiconductor IP
- Telecommunication IP
- Automotive IP
- Software
**NFC Protocol stack**
Protocol stack for Near Field Communication purpose, supporting MIFARE, FELICA, RFID etc.

**NFC Firmware**
Complete Layer 2 & Layer 3 NFC firmware. Includes RTOS Kernel, ETSI HCI, complete NFC forum tags & 100 additional worldwide tags.

**DCLB Interface (for NFC)**
DCLB interface is a firmware implementation which enables transparent and fast communication between NFC CLF and SE

**NFC SOC IP**
Complete NFC digital and analog IP for SOC integration. Including DCLB I/F and future integration of 900 MHz RF. HCI & NCI version
Silicon IP

**SLID (Ultrafast recognition IP)**
SLID is an innovative recognition digital IP, which enables ultra-fast parallel recognition of objects. Application targets are face, sound, voice, weather pattern, stock pattern, DNA, stereo match recognition. SLID is >30000 times faster than similar CPU and DSP solutions and also enables search of fuzzy values (e.g., “red”ish instead of red). Totally new use cases are able to realize with SLID.

**Cryptographic and Communication IP**
RSA, ECC, AES, DES/TDES, TRNG, Viterbi, FFT, RS Encoder

**APB and AHB peripherals**
SWP, ISO-7816-3, UART, I2C, SPI, I2S, Timers and other peripheral IP
eSi-RISC IP Core

- 5-stage pipelined RISC load-store architecture
- Single 16/32-bit configurable and extendable architecture targeted at embedded applications
- Supports von-Neumann, Harvard and modified Harvard memory architectures
- Optimize power through configurable instruction set
- Supports user-defined instructions for a further level of application optimization
- Excellent code density
- Implemented in as little as 8.5k ASIC gates for minimum 16-bit configuration
- Proven in silicon down to 40nm, ASIC performance up to 700MHz in 40nm
- Up to 2.52 CoreMark per MHz
- Configurable AMBA AXI, AHB and APB bus interfaces
Ceramic Ink
Ceramic ink is an inorganic substance which has extreme thermal, UV and discoloration stability. Screen-printed on a PCB, heat dissipation will improve drastically. Also ceramic ink can be used like solder resist or printed additionally on top of existing solder resist. Hence performance of applications like LED or TV mother boards improves dramatically, as e.g. smaller heat sinks can be used.
Telecommunications IP

Audio / Video Codecs (Encoder & Decoder)
MP3, AAC, WMA, MPEG 2 MC, Bluetooth SBC, AAC Plus, 3D Audio Surround, Graphic Equalizer, GSM buzz removal, H.264 BP, H.264 HP, H.263 Encode & Decode, VC-1, JPEG, BSAC, HE-AAC

BlueCode+ 4.0  Bluetooth protocol stack
The portable Bluetooth higher layer stack BlueCode+ is one of the leading design tools worldwide for the integration of Bluetooth in embedded platforms. The flexible API BlueFace+MPA provides all the Bluetooth functions of the application software.

NFC Protocol stack
Protocol stack for Near Field Communication purpose, supporting MIFARE, FELICA, RFID etc.
Power Gold Technology
Over passivation metallization Power Gold enhances ICs and creates new products.

Race Multimedia Engine
RACE (Robust Automotive Connectivity and Entertainment) IVI software suite provides the media and connectivity solution for the Connected Car of the future. Key components of RACE include Multi Media Engine (MME), Smartphone connectivity (MirrorLink and AllGo ConnectTM) and Cloud connectivity.
RACE MME offers a full featured, highly configurable and portable media engine that provides access to multiple types of media devices (iAP/USB/MTP/SD/CD) and has an API that makes it GUI agnostic. It is currently offered on Linux and is portable to any Posix compliant OS.
Fast Boot Android
Key hurdle in the adoption of Android in the Automotive IVI and Navigation markets is the time it takes to boot up the system. FAST BOOT ANDROID is solving the boot-up problem by a mechanism by which true coldboot can be achieved at a fraction of the time it takes for normal boot-up. Using innovative techniques that restore the state of the kernel and Android framework, AllGo has managed to cut down the boot-up time to about 1/4th of the normal cold-boot.

iAP
The iPod Accessory Protocol / iAP (also known as Apple Accessory protocol or AAP) is used for communication between iPods/iPhone and accessories such as docking stations and car adaptors.
**Toner Saver**
Enterprise solution to save Toner or ink costs for companies >500 persons. Save 50% of Toner or ink costs. Easy operation, Print Log, Network Install available.

**BVQ**
Business Volume Qualicision, datacenter tool for balancing and cost optimization of data storage
Cross Border Technologies represents and sells Products & Technologies of the following companies in the indicated markets:

**Stollmann E&V GmbH**
Mendelssohnstrasse 15d, 22761 Hamburg, Germany
URL: [www.stollmann.de](http://www.stollmann.de)
Technology: NFC & Bluetooth Protocol Stack
Market: Japan, Korea

**Infineon Technologies AG**
Am Campeon 1-12, 85579 Neubiberg, Germany
URL: [http://www.infineon.com](http://www.infineon.com)
Technology: DCLB
Market: worldwide

**Denso Corporation**
Showa Cho 1-1, 448-8661Kariya-Shi
Japan
URL: [http://www.denso.co.jp](http://www.denso.co.jp)
Consulting service
Cross Border Technologies represents and sells Products & Technologies of the following companies in the indicated markets:

**AOT Technologies Co., Ltd.**  
Matsuba Cho 4-7-4-101, 277-0827 Kashiwa-City, Chino City  
Chiba Prefecture, Japan  
**Technology:** Recognition IP for semiconductor solution  
**Market:** worldwide

**AIN Co., Ltd.**  
374-2 Toyohira, 391-0213 Chino City  
Nagano Prefecture, Japan  
**URL:** [http://www.valley.ne.jp/~ain/](http://www.valley.ne.jp/~ain/)  
**Technology:** Ceramic ink  
**Market:** worldwide

**Ryoyo Electro Corporation**  
1-12-22 Tsukiji, Chuo Ku, Konwa Bldg.  
Tokyo 104-8408, Japan  
**Consulting service**  
**URL:** [http://www.ryoyo.co.jp](http://www.ryoyo.co.jp)
Cross Border Technologies represents and sells Products & Technologies of the following companies in the indicated markets:

**Spline Network Inc.**
Manu Life Place Shibuya 8F, Shibuya 2-16-5, Shibuya Ku, Tokyo 150-0002, Japan
URL: [http://www.spline-network.co.jp/](http://www.spline-network.co.jp/)
Technology: Toner Saver 3.0
Market: Europe, Hongkong, Korea

**Kronegger GmbH**
Parkring 1, 8074 Grambach, Austria
URL: [www.kronegger.com](http://www.kronegger.com)
Technology: NFC Firmware
Market: worldwide

**Critical Manufacturing**
Rua Engº Frederico Ulrich, nº 2650, 4470-605 Moreira da Maia, Portugal
URL: [http://www.criticalmanufacturing.com](http://www.criticalmanufacturing.com)
Technology: Manufacturing Execution & Intelligence Software
Market: Japan, Korea
Our current Customers

Cross Border Technologies represents and sells Products & Technologies of the following companies in the indicated markets:

**Allgo Embedded System**
2729, 80 ft road, HAL 3rd stage, Indiranagar, 560038 Bangalore, India
**URL:** [http://www.allgosystems.com/](http://www.allgosystems.com/)
**Technology:** RACE Multimedia, Mirrorlink, Fast Boot Android, iAP
**Market:** Japan, Korea

**Tatvik Technologies Pvt Ltd**
#3302/A, 1st Fl., 8th Cross, 12th A Main, HAL 2nd St., 560008 Bangalore, India
**URL:** [http://www.tatvik.com/](http://www.tatvik.com/)
**Technology:** Audio & Video Codecs
**Market:** Japan, Korea

**Ensilica Limited**
RG402AT Wokingham, West Forest Gate, Wellington Road, Berkshire
**URL:** [http://www.ensilica.com/](http://www.ensilica.com/)
**Technology:** 16 and 32-bit configurable processor family, APB and AHB peripherals, Communication IP, Cryptographic IP
**Market:** Japan, Korea
### Locations & Contact

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<tr>
<th>Location</th>
<th>Address</th>
<th>Telephone</th>
<th>Fax</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Cross Border Technologies GmbH (Germany)</strong>&lt;br&gt;Headquarters&lt;br&gt;Steinseestrasse 24, D-85667 Oberpframmern&lt;br&gt;Germany</td>
<td>+49 8093 606 9801&lt;br&gt;+49 8093 888 9067</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Cross Border Technologies Inc. (Japan)</strong>&lt;br&gt;Cross Border Technologies K.K.&lt;br&gt;Tsuzuki-Ku, Nagasaki 1-41-408&lt;br&gt;224-0063 Yokohama-City&lt;br&gt;Japan</td>
<td>+81 45-507-3922&lt;br&gt;+81 45-507-3925</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Cross Border Technologies Korea Ltd.</strong>&lt;br&gt;Mokdong Jungang Bukro 38, Appt. 112-402&lt;br&gt;Yangcheon-Gu,&lt;br&gt;158-758 Seoul&lt;br&gt;Korea</td>
<td>+82 2-2654-4628&lt;br&gt;+82 1515-010-2371 3532</td>
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**Contact for all locations**

Email [info@crossborder-technologies.com](mailto:info@crossborder-technologies.com)

URL [www.crossborder-technologies.com](http://www.crossborder-technologies.com)

### About Us
Our Website:
www.crossborder-technologies.com
Cross Border Technologies has won a number of top-innovative customers, who are reflecting our track record. Please feel free to contact them for references about us:

**Stollmann E&V GmbH**  
Mendelssohnstrasse 15d  
22761 Hamburg, Germany  
URL: [www.stollmann.de](http://www.stollmann.de)  
Contact: Christian Luehrs (Managing Director)  
Mail: cl@stollmann.de

**Infineon Technologies AG**  
Am Campeon 1-12  
85579 Neubiberg, Germany  
URL: [http://www.infineon.com](http://www.infineon.com)  
Contact: Juergen Spaenkuch (VP Contactless Platform)  
Mail: juergen.spaenkuch@infineon.com

**RYOYO Electro Corporation**  
Konwa Bldg., 1-12-22 Tsukiji, Chuo Ku  
Tokyo 104-8408, JAPAN  
URL: [http://www.ryoyo.co.jp](http://www.ryoyo.co.jp)  
Contact: Satoru Fukuomoto, Deputy General Manager  
Mail: satoru_fukumoto@ryoyo.co.jp