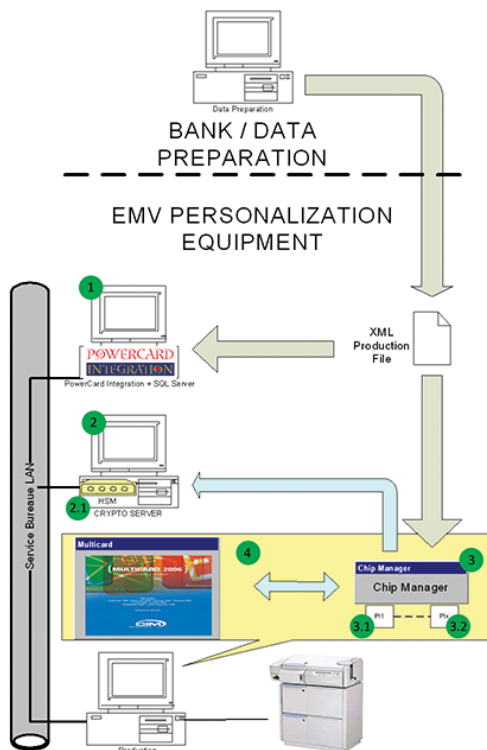


# EMV POWER SUITE

Migrate from magnetic stripe cards to Smart Cards with a full Turnkey solution. CIM has put together another much hailed turnkey solution including hardware, software and services required to quickly and easily deploy your EMV or other smart card program in only a matter of months. Our complete solution seen here is also available as a modular offering to meet your organization's needs:

Simply choose your modules below or let CIM manage a complete turnkey process for you.



## 1. POWERCARD INTEGRATION™

Increase the productivity of your existing card personalization equipment with CIM's machine independent PowerCard Integration™ software.

From a central point on your production floor you can now manage automated data upload, job allocation, job prioritization, workflow management and reporting for all card types, including Smart Cards. Ideally suited for environments of high volume issuers or those of small card runs across multiple products, PowerCard Integration™:

- Improves SLA compliance
- Increase average card output rates
- Simplifies error control and tracking and more...

...and is the perfect compliment to CIM's EMV Personalization Suite...

## 2. CHIP MANAGER

Issuing EMV chip cards can be as simple as issuing magnetic stripe cards with an intuitive and easy to integrate chip data profile management tool such as CIM's Chip Manager. Chip Manager integrates with your existing card personalization client/equipment over a thin interface to manage the delivery of chip data and applicative keys to the personalization device. Chip Manager is designed to be chip and equipment independent, offering maximum flexibility in an EMV card issuance program. Chip Manager can support open platform and native chips where the chip O/S command scripts are made available by the manufacturer.

### Main Characteristics

- Machines Independent chip personalization supports existing: CIM, Datacard\*, NBS\*
- Optimized performance with CIM's Multicard equipment operating Software.
- Compatible with CIM Linkware™ allowing in-line operation of CIM Pro Series to increase output.
- Optimized for PowerCard Integration™ card production Management software, allows:
  - Static card data to be received directly from PowerCard Integration™ to speed processing.
  - Communications configuration via XML file for easy in-house updates.
- Open platform allows data input from applications other than PowerCard Integration™.
- Compatible with multiple chip readers or PIN Pad via serial or USB.
- Chip Electrical Profile is modified in the "XML configuration file".



## EMV POWER SUITE

- No software development is required to:
  - Assign, modify, add or remove profile parameters
- Chip data can be received as fixed data or variables within XML input file
- Allows changes or additions of static data.
- Allows creation of Chip Internal Files, TLV, Elementary file, secret files and directories.
- Automatically determines chip profile in bureaus where more than one chip type is used.
- Automatically calls correct key set from Crypto Server where personalization is done for more than one Bank.
- Allows integration of non EMV applications such as: Electronic purse, rewards and more.

### Technical and Other Characteristics

- Commands scripts for CombOS chip are built-in
- Support all EMV applications: VSDC 1.4.0 (SDA/DDA) M/Chip 4.0 Lite and M/Chip 4.0
- Programs both SDA, DDA or CDA chips of any size
- Supports open platform chips: Advantis/TIBC, Multos and Java
- Allows chip personalization of various native chips through a plug-in or applet\*
- Operates with Windows 2000/XP

### 2. CRYPTO MANAGER™

Successful EMV Migration requires a dedicated and robust Cryptographic Key Management system. CIM, a leader in the management of EMV migration programs, has developed the Crypto Manager™ application, built around the highly secure (FIPS 140 Level3) Ecom Gold HSM and compatible with the CHIP MANAGER application. Crypto Manager™ is a server based Windows application that allows simple management of EMV chip data, issuer personalization keys and secure information transfer between the EMV personalization system (Chip Manager™) and your card production management application (or PowerCard Integration™).

### Main Characteristics

- Easy configuration and setup of multiple Bank EMV key sets; especially practical if personalizing for more than one Bank.

- Browser-based User Interface for key and HSM administration
- HSM board has is tamper proof and contains min 4 Mb protected memory sector
- Unlimited number of simultaneous chip personalization sessions across network
- Designed to VISA and MasterCard logical and security standards for EMV
- PIN BLOCK ISO2 translation allows 3DES encryption of card PIN
- Supports DES, 3DES and RSA encryption algorithms
- Import and Export Symmetric Keys
- Remote access and operation via TCP/IP

### Security

- Certification: FIPS 140-2, Level 3 validated.
- All cryptographic operations in the protected memory sector of HSM
- TRUE RNG generates truly random cryptographic keys and it meets the ANSI X9.31 standard
- Tamper resistant HSM
- Battery backed secure key storage
- Cryptographic keys are instantly erased when
  - Physical tamper is detected
  - The battery is removed
  - The card (PCI) is removed

### Performance

- The processing speed can go up to 600 RSA (1024 bit) signature operations /sec
- Expandable through concurrent operation of HSM adaptors limited only by number of PCI slots
- Updating of the firmware via FTP or CD

### 3. MULTICARD

If you are running CIM's adaptable range of card personalization equipment, then simplify your EMV software integration and maximize the functionality of the EMV suite by implementing CIM's MultiCard card personalization equipment management software.

MultiCard simplifies reporting, user performance tracking, job tracking, operator equipment management and machine setup per job.

\* May require some development and support from the manufacturer



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