ATLANTIC ZEISER

PMP *production*

Card Production Management

Everything under control ...

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PMP-production is a powerful, intelligent and highly secure software platform for the efficient management of card production, personalization and mailing. Its wide range of functionalities forms a complete end-to-end solution: from order acceptance to delivery. PMP-production was developed according to international standards like Common Criteria, EMV and Global Platform.

One modular platform – many solutions

PMP-production is Atlantic Zeiser's platform for the holistic management of all processes related to card production and fulfillment. The platform has a modular structure and can be configured to meet your requirements. The basic package includes mainly production management functionalities. Additional modules and options can be incorporated at any time. PMP-production comes with a client-server architecture. Since internal communication is encrypted, clients can be located far away from the server and even a decentralized production is possible.
Self-explanatory graphical user interfaces allow for intuitive operation.

At a glance

"Whether basic package or tailor-made configuration: with its wide range of flexible modules PMP-production always provides a solution to meet and grow with your requirements."

Production Management

Initially, PMP-production is set-up by, on the one hand, incorporating the available production machines and defining their functionalities. Through open interfaces, machines from any manufacturer can be integrated. On the other hand, the workflow for the production of each specific product (for instance a certain GSM card, EMV banking card or ID card) is defined.
When orders (of previously defined products) come in, the production workflow starts: As soon as the order is accepted, the necessary data for card personalization and mailing is prepared. Production jobs are created and distributed to machines. During and after the production process, response data is generated (for instance a PIN) and optional reports are prepared (production, quality, stock or other customized reports). Production QA can perform a last check on finished products before delivery.
Every card and document is tracked throughout the production process. Damaged cards can be reproduced automatically.

Production Planning and Optimization

The PMP-production planning tool optimizes the utilization of all production capacities and leads to a higher net throughput by reducing job changeover times. All job related data (i.e. product, quantity, deadline, priority) as well as the available resources (i.e. machines, personnel, material) are analyzed and the ideal production sequence is generated.

Scripting

For the personalization of chip cards, PMP-production offers two script languages: PCL and PMP-GPS (Global Platform Scripting). Using these script languages new personalization routines can be created and existing ones can be modified. The scripts can be used in any combination for handling multi application chip cards.

Key Management

If keys are required for data preparation or during the personalization process, the key administration module comes into play. It offers efficient and highly secure management of temporary and permanent keys and administers integrated hardware security modules (HSM). In addition, the tool supports the generation of random numbers, i.e. for the personalization of EMV compliant banking cards, as well as asymmetric (RSA) and symmetric (Triple DES, AES) cryptographic algorithms.

External Communication

PMP-production makes the communication with third parties (e.g. home location registers (HLR) or trust and authentication centers) secure. Data transfers like the exchange of certificates, (partial) keys and digital signatures are safeguarded through encryption.

Stock Management

The stock management module administers and controls all materials used in the production process, like cards, paper and envelopes. As a result, the card issuer perfectly controls the storage, quantity, and movement of inventory. The precise location of each specific item is always available. Even external warehouses, distributors or POS can be integrated.

Quality Assurance

With PMP-production, quality checks can be performed at different stages to achieve the best possible results. Examples are the sample inspection of goods received and finished goods or test programs which automatically check the chip after personalization. Also, when new products are defined they pass through the phases "experimental" and "pending" before they are set to "released".

Security Functions & Auditing

Security is often a key requirement in card processing. PMP-production offers a comprehensive security concept with various elements. Apart from key management and encrypted communication, a user, role and rights management with access control can be implemented. Detailed auditing provides information on all security-relevant actions performed by the users. The automatic system back-up covers all data and configuration files, as well as access control and system keys.

Production Setup

Product Definition

Equipment Administration

Production Management

Order Acceptance	Card Manufacturing	Response Data
Data Preparation	Card Personalization Scripting	Reports
Production Planning & Optimization	Card Mailing	Production QA

Key Management

External Communication

Stock Management

Quality Assurance

Security Functions & Auditing

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Technical Data

Security modules

SafeNet ProtectServer Gold
- SAFENET HSM PSG PL25
  (FIPS 140-2-Level 3)
- SAFENET HSM PSG PL220
  (FIPS 140-2-Level 3)
- SAFENET HSM PSG PL600
  (FIPS 140-2-Level 3)

SafeNet ProtectServer External

Additional security modules (hardware and software)
are optional (such as nCipher or RACAL)

Interfaces

UMI (Universal Machine Interface)

XOF (XML-based Order Format): XML-based order and
product interface

SOAP

CRYPTOMAThIC CardInk

Customized filters

Operating systems

SuSE Linux Enterprise Server
(for servers and clients)

Windows XP (for clients)

Database

Oracle 9i and 10g

Cryptographic algorithms and tools

RSA (asymmetric)

DES, Triple DES, AES (symmetric)

SSL

MAC, Retail MAC, DES3-MAC

PKI key cards like MICARDO

Others on request

Chip personalization applications & technologies

MIFARE
- MIFARE Mini (MF1|CS20)
- MIFARE Standard (MF1|CS50)
- MIFARE 4ki (MF1|CS70)

Other memory Cards

M/Chip Lite

M/Chip Select

VISA Smart Debit Credit (VSDC)

EMVLiteY

Mondex

G&D: STARDC_M, STARDC_V

TIBC

MICARDO

Global Platform

Common Personalization

MULTOS

PCL-Applications

PMP-GPS-Applications

JCOP Initialization

JTOP Initialization

EMV applications for local markets

Others on request