

Trustway CDP Device

Manage the creation and security of EMV smart card personalization elements



Atos offers the Cryptographic Data Preparation (CDP) device, security coprocessor manages the creation and security of EMV smart card personalization elements. The CDP device is physically a system consisting of a Linux rack mounted server, connected to a cryptographic security device (Trustway crypt2pay) by a Ethernet dedicated link. CDP Device can secure Banking and Financial Institutions.

Operating mode

Network connected to one or more system(s) computer(s), the CDP device performs safely cryptographic processing implemented in the process of preparation of EMV smart cards personalization data. The CDP device can be shared across multiple information system hosts.

It may be managed:

- remotely, by means of communication and exchanges;
- locally, by a operator using a Graphical User Interface (GUI);
- a combination of both above.

Each application of information system hosts using the CDP device has a base key and security settings that are specific on the CDP device. Remote administration functions can be implemented by each host (back office) information system application, which is connected to the CDP device. The distribution of the administration functions between the local operator and the back office application depends on the features supported by this application.

The Man / Machine Interface offers the means to set up, configure, launch treatments and monitor the CDP device according to the profile of the active operator.

Access to the functions and rights of the operators according to their profile are managed by the access rights policy implemented by the CDP device application Super-Administrator.

There are two operating modes:

Processing Mode

The CDP device receives batch files and real time requests, processes, and sends response to the corresponding senders of the batch files and real time requests.

Administration Mode

The CDP device receives command batch files, puts them on hold but does not process them. Real time requests receive a 'server down' exception as response.

Service

With over 30 years of presence in the security, Atos Big Data & Security (BDS) has acquired extensive professional experience in the field of electronic banking.

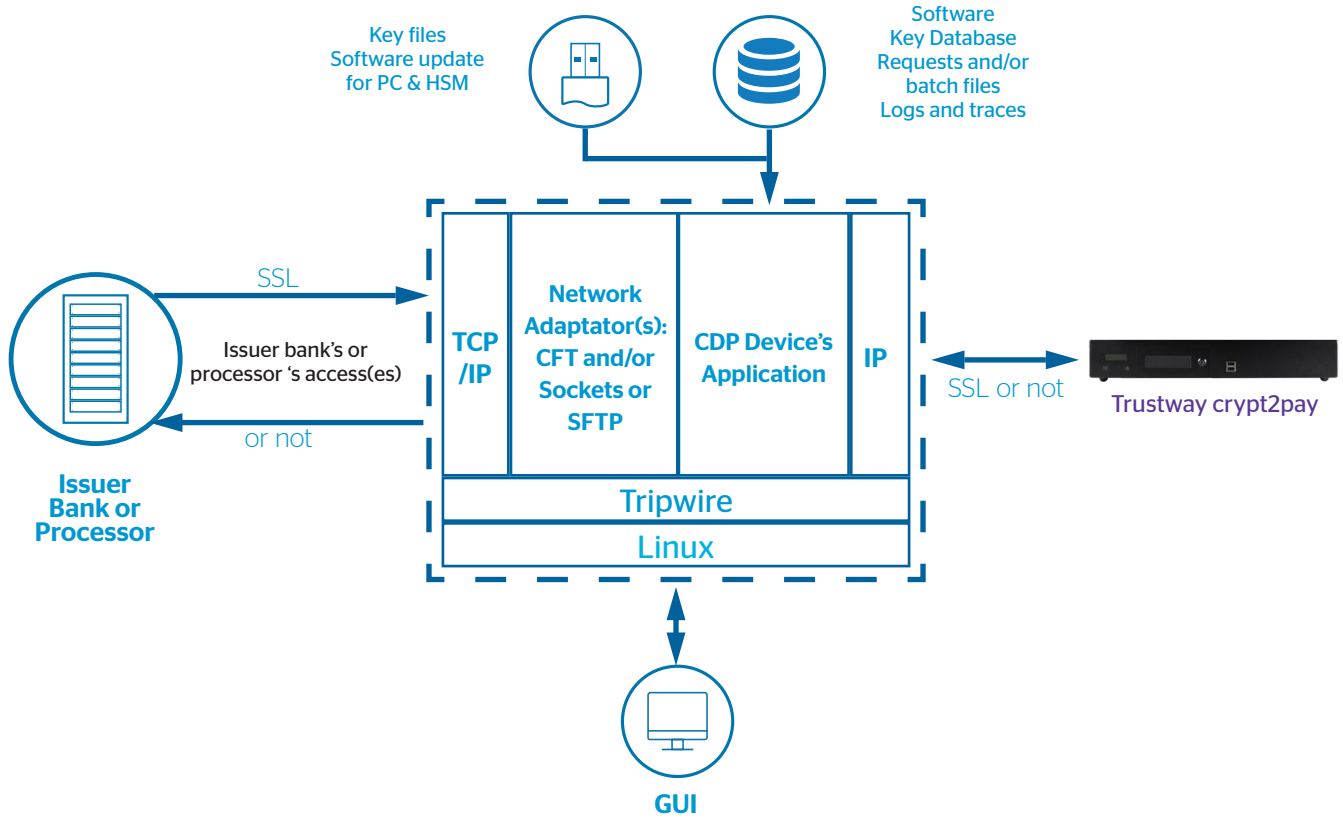
Atos teams can provide banking institutions of global consulting, integration, maintenance and support services. Through a network of recognized partners, Atos takes an active part in the implementation of complete payment systems with renowned editors as: ACI Worldwide, Wordline, eFunds, SOPRA Banking Software, S2M. Many banks and card management centers cards already rely on the technology and experience of Atos BDS.

Certifications

Atos has been recognized, through its products, like EMV vendor by Visa and MasterCard International.

The CDP device solutions

The device CDP is an Atos product, approved in France by the Groupement Cartes Bancaires "CB"



Characteristics

Product functionalities

- 4 to 12 digits PIN generation
- ISO-0 PIN block encryption for storage
- PIN block export for transfer in ISO-0, ISO-3 or IBM3624 format
- Import of PIN block format ISO-0, ISO-3 or IBM3624 format for storage in ISO-0 format
- Computation of cryptographic elements for the ISO-2 track and its smart card equivalent: algorithms IBM3624, PVV, CVV/CVC, CVV'/CVC', CVV2/CVC2, iCVV/iCVC
- Computation of cryptographic elements for smart card: IVCVC3, DAC, derived master personalization key and EMV issuer keys, signature of EMV data (SDA), RSA smart card generation, certification of smart card public keys
- Encryption of EMV data groups
- Computation or control of MAC
- 1, 2 or 3 levels of key for PIN block transfer

Technical performances

Nominal performance	50,000 cards in 30 minutes to 1 hour.
Capacity of a file	200,000 cards

Security

Secure access through the original input data control and differentiation of operator profile	Operator, Administrator, Security Officer, Super Administrators, Auditors
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Find out more about us atos.net/en/products/cyber-security/digital-identities/cryptographic-data-preparation-device

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