**ZARPH**
PAYMENT & CASH SOLUTIONS

# Experts in Cash Management

We create hardware and software solutions that optimize and maximize cash management and payments processes. Our technologies ensure innovation, competitiveness, high performance and added value to our customers and partners.

Deposit systems specially designed for integration in the banking environments, which allows institutions to offer a differentiating service to their clients. This solution enables banks to reduce their branches' queues, giving autonomy to their customers, in a convenient and quick way. Deposits are validated and credited in real time to a selected account and confirmed in real-time by the bank.

### Security (Exposure Time)

A deposit of 200 notes takes 20 seconds.

### Security (Identification)

Identification through bank card with offline pin validation.

### Efficiency

Equipment with the fastest processing speed in the market; self-service and available 24x7x364.

### Innovation

Management and monitoring of network and business data through ZGS platform.

### Flexibility

Integration with the bank core system, through the Zarph integration protocol.

**ZARPH**
PAYMENT & CASH SOLUTIONS

# Options

## Hardware Machine

### TD 412 Bank (Real-time cash deposit Solution Integrated with Bank core system)

- With Escrow: deposit up to 200-note per bundle
- Without Escrow: unlimited deposit until machine is full
- Processing speed: 700 note per minute
- Safe capacity: up to 35,000 notes
- Storage type : Canvas bag
- Display: Standard 5" touch
          Optional 12.1" touch
- Safe: Standard CEN IV
          Optional UL
- Safe Lock: Code and Key
- User authentication: Card reader, RFID reader, or User and Pin
- Operating system: Linux
- Receipt printer
- Communication: TCP/IP

## Software Platform

### Deposit Management
### Solution

- **Zarph Server:** Zarph software dedicated to the network management of terminals that implement the communication protocol, through which the equipment requests authorization to provide services to Bank clients
- **Bank Server:** Bank software that implements a dialog protocol with Zarph Server, from which banking services are provided
- **CIT Server:** Implementation of the Zarph protocol can be with a Cash In Transit company to handle the depletion of the fleet
- **ZGS:** Zarph Web Platform for the monitoring and the control of the terminals network. Implementation of business data

## Architecture

- Zarph Server acts as a network controller server for TD 412 terminals
- Zarph Server will need an SSL/TLS Server certificate
- Pre-defined deposit flow that can be used directly after bank's themes and logo is configured
- Customized flow is possible upon bank's request. The following steps should be considered: Receive the changes proposal, Analyze and discuss the changes proposal, Develop customized application

## Integration

- Synchronous RESTful Web-Services with JSON resource representation
- The communication is started by Zarph Server
- All the messages (request/response) have three groups: Header, Status, and Data

## User Permissions

- User roles management
- System Management: ensures access to the functions of adding an equipment as well as editing your settings
- Remote equipment operations (non-financial): ensures access to remote functions like: Restart, In Service, Out of Service
- Technical: ensures access to the technician menu on the machine
- Financial Date: Ensures access to the visualization of the financial data (Period locks, transactions, machine balances per currency, denominations per currency…)

## System Management

- Network Management Module: Centralized management of the entire network of equipment installed. Allows remote management of the equipment

## Business Data Management

- Transaction's information in real-time
- Allows elaboration of specific reports, consolidation of data and update the cash management

**TD-412 Dimensions (HxWxD)**
1200 mm x 560 mm x 510 mm
(47.24 in x 22.04 in x 20.07 in)