

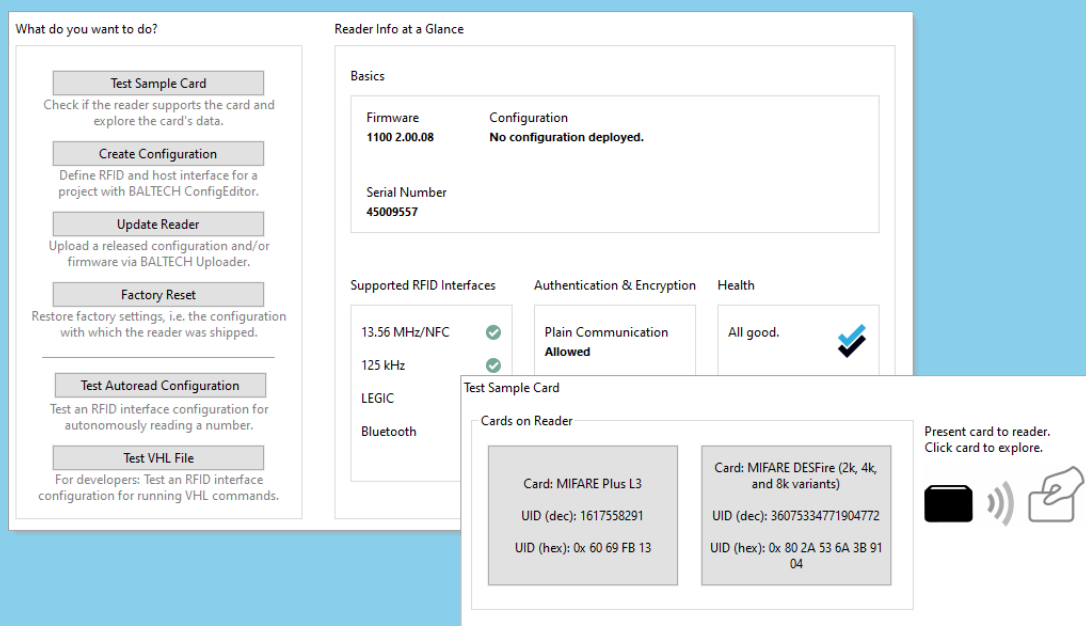
BALTECH ToolSuite

Manage readers and configurations throughout your project lifecycle

BALTECH ToolSuite is a collection of 3 tools for the management of BALTECH readers. Together, they offer all the features you need during an RFID project: from initial functionality testing and card analysis to configuration setup and deployment.

ID-engine Explorer

The perfect starting point to try out a BALTECH reader and its functionality. In later project phases, you can use *ID-engine Explorer* for testing and maintenance.



Features

- Access full reader info, e.g., serial number, firmware version, supported RFID interfaces, configuration, and reader health.
- Test sample project cards and return UIDs (serial numbers) for all supported card types.
- Analyze the card structure of MIFARE DESFire/Classic/Plus, and LEGIC cards.
- Test the reader's RFID interface as configured with *ConfigEditor* (see below).
- Factory-reset the reader to restore the configuration with which the reader was shipped.

ConfigEditor

Create, test, release, and maintain configurations that define reader behavior in a specific project. A wizard helps you with the setup, followed by a workflow overview that guides you through to a ready-to-deploy config.

The screenshot shows the ConfigEditor interface with the following sections:

- Use Case:** A sidebar on the left lists three options: 1. Use Case, 2. Host Interface, and 3. RFID Interface. The main area shows three radio button options:
 - Physical Access Control: Set up readers for an existing access control system.
 - Print Management: Set up readers for MFP applications.
 - Embedded or Desktop Applications: Set up readers for e.g. industrial PCs, vending machines, payment, or authentication applications.
- Your Workflow:** A central section showing a three-step process:
 - 1. Complete configuration:** Includes a text input field for 'Autoread MIFARE DESFire Number' with the instruction 'Enter a valid AID' and a 'Test Autoread Configuration' button.
 - 2. Test configuration:** Includes a 'Test Full Configuration with Host System' button.
 - 3. Prepare for deployment:** Includes a text input field for 'Administrative Information' with the instruction 'Enter a name' and a 'Release & Export Configuration' button.
- Configuration Components:** A sidebar on the right showing a list of components: 'Administrative Information', 'Autoread MIFARE DESFire Number', and 'Keyboard Emulation'. Below this is a form for 'Administrative Information' with fields for 'Version' (set to '01') and 'Name', and checkboxes for 'Support Legacy Firmware Versions' and 'Package with Specific Firmware Version'.

Features

Create Configurations

- Configure the RFID interface for “Autoread” mode, i.e., to autonomously read and convert UIDs (serial numbers) or programmed card numbers from a file, sector, or segment of the card.
- Configure the host interface including output format.
- Configure feedback to the card holder: Switch the beeper on or off, and customize the LED, e.g., to adjust intensity and pick from a variety of colors.
- Specify valid card number for offline access control (projects without host system).
- All common card types and host interfaces are supported out of the box. For specific requirements, you can order and import custom configuration components.

For developers:

- Configure the RFID interface for our macro command set *VHL (Very High Level)* to write code independent of your card type (learn more in the data sheet “*Cross-product properties*”).
- Configure encrypted host-reader communication with AES-128.

Test & release

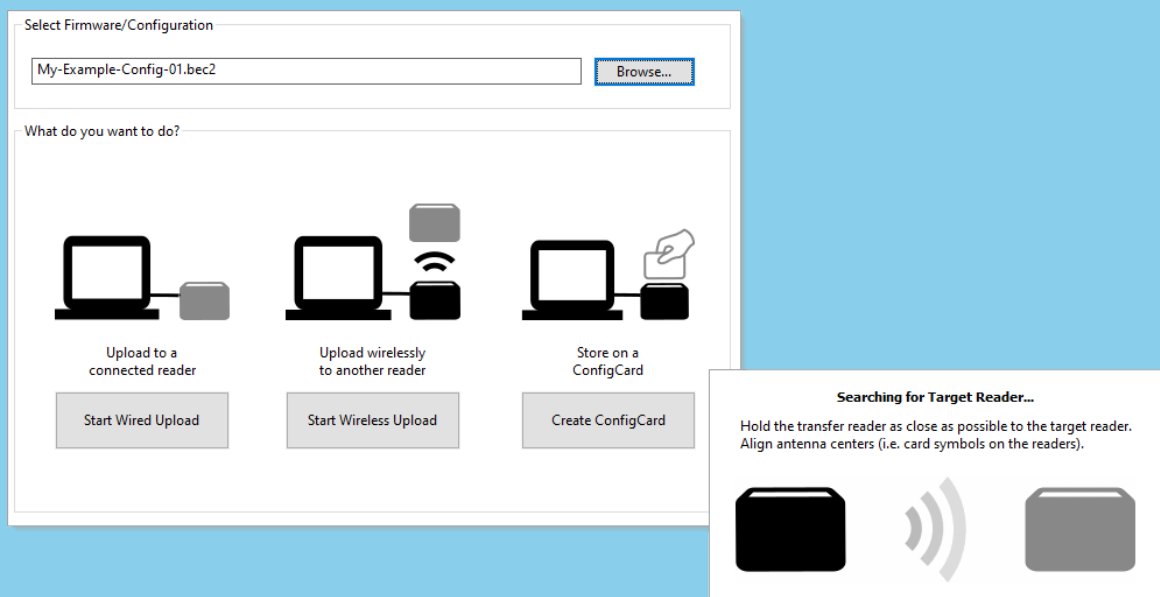
- Test “Autoread” components right in *ConfigEditor* and transfer the configuration to the reader for tests with your host system.
- Release configurations to freeze a defined version and export an end-to-end encrypted file for productive deployment with *Uploader* (see below).
- Store configurations on ConfigCards for contactless deployment.

Manage

- Package configuration & firmware to ensure consistent behavior across all readers in a project.
- Update configurations, e.g., to add support for another card type.
Automatic versioning helps you keep track of different configuration states.
- Copy a configuration to use it as a template for a different project.

Uploader

The tool for your technicians: Deploy configurations and firmware updates to productive readers – conveniently via various interfaces.



Features

- Wired upload of configuration and/or firmware via USB, RS-232, or Ethernet
- Wireless upload of configuration and/or firmware via NFC (requires a transfer reader connected to the PC)
- Store a configuration exported from *ConfigEditor* on a ConfigCard for contactless deployment (requires a transfer reader connected to the PC).

System requirements

- Windows 10 or above