SIEMENS
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SIMATIC RF1000
RFID system

Access control for machinery and equipment

The growing demand for security and traceability increasingly calls for solutions enabling access to machines and systems which can be regulated and documented. Electronic access management consolidates process security while enhancing productivity and efficiency by preventing damage which could be caused by unauthorized access.

With the new SIMATIC RF1060R reader, Siemens provides an RFID-based solution which enables simple and versatile implementation of electronic authorization management. Existing employee ID provides the basis for identification, which increases user friendliness and minimizes costs.

SIMATIC RF1060R allows realization of finely-graded access concepts, documentation of processes or storage of user-specific instructions to be stored according to the customer-specific application. And all with one card.

Typical application examples

- Controlled machine access
- Logging of access data
- Traceability of access and changes
- Individual control of access rights
- Definition of any number of user groups with different access rights
- Integration in the company-wide industrial security concept

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Task

- Identification of operating personnel at machines and plants
- Access control
- Audit Trail

Solution

One-time login with RFID card

1. Card is held to the reader
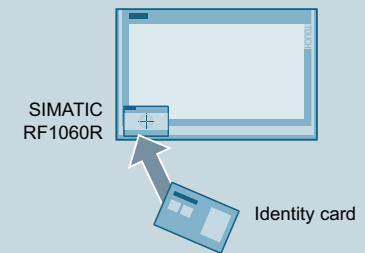2. UID* is read out once
3. Automatic login

Continuous login with RFID card

1. Card is placed in holder
2. UID* is continuously read out
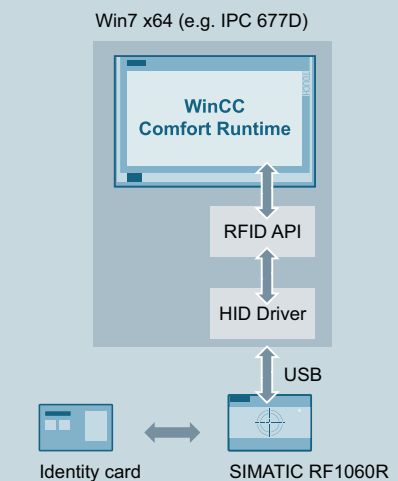3. Automatic login
4. Card is removed → automatic logout

Login with card and password

1. Card is held to the reader
2. UID* is read out once
3. User enters password
4. Login

Registration local to panel

SIMATIC RF1060R

Identity card

Connection concept RFID reader

Win7 x64 (e.g. IPC 677D)

WinCC Comfort Runtime

RFID API

HID Driver

USB

Identity card   SIMATIC RF1060R

Highlights

- Individual control of access rights using existing employee ID card
- Diagnostics via 3-color LED status display
- Secure and documented access to machines prevents operating errors

- Simple integration into existing hardware (HMI devices and panels)
- Low installation depth thanks to lean design
- Flexible cable design

Technical specifications

- RFID system in the HF range: Frequency 13.56 MHz
- Standards: ISO 14443 A / B (MIFARE), ISO 15693
- USB port

- Integration into SCADA systems (WinCC, PCS7)
- IP65 degree of protection
- Temperature range -25 to +55 °C

Ordering data

Device		MLFB	Description
SIMATIC RF1060R		6GT2831-6AA50	Integrated access control reader with USB connection (1.8 m connecting cable)
Card holder for RF1060R		6GT2890-0CA00	Molded holder for access IDs in card and token (round) form
USB cable		6GT2891-0UE50	Optional USB cable 0.5 m for installation in devices with limited space requirements

* UID = Unique Identification Number