

The new software SIMATIC RF-MANAGER 2008

Simple management of RFID systems

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SIMATIC Sensors

Answers for industry.

SIEMENS

Totally Integrated and Flexible

Simple management of RFID systems

With our SIMATIC RF-MANAGER, we are offering a totally integrated software solution for the IT connection of SIMATIC RF600 and SIMATIC RF300 from the acquisition level through to the ERP and MES level.

Compatible with the EPCglobal standards, SIMATIC RF-MANAGER stands for efficient engineering and smooth operation. This means that readers can be commissioned quickly and easily, RFID data can be efficiently preprocessed, individual devices can be managed and a great deal of time and effort can be saved.

Possible scenarios for implementation of the SIMATIC RF-MANAGER

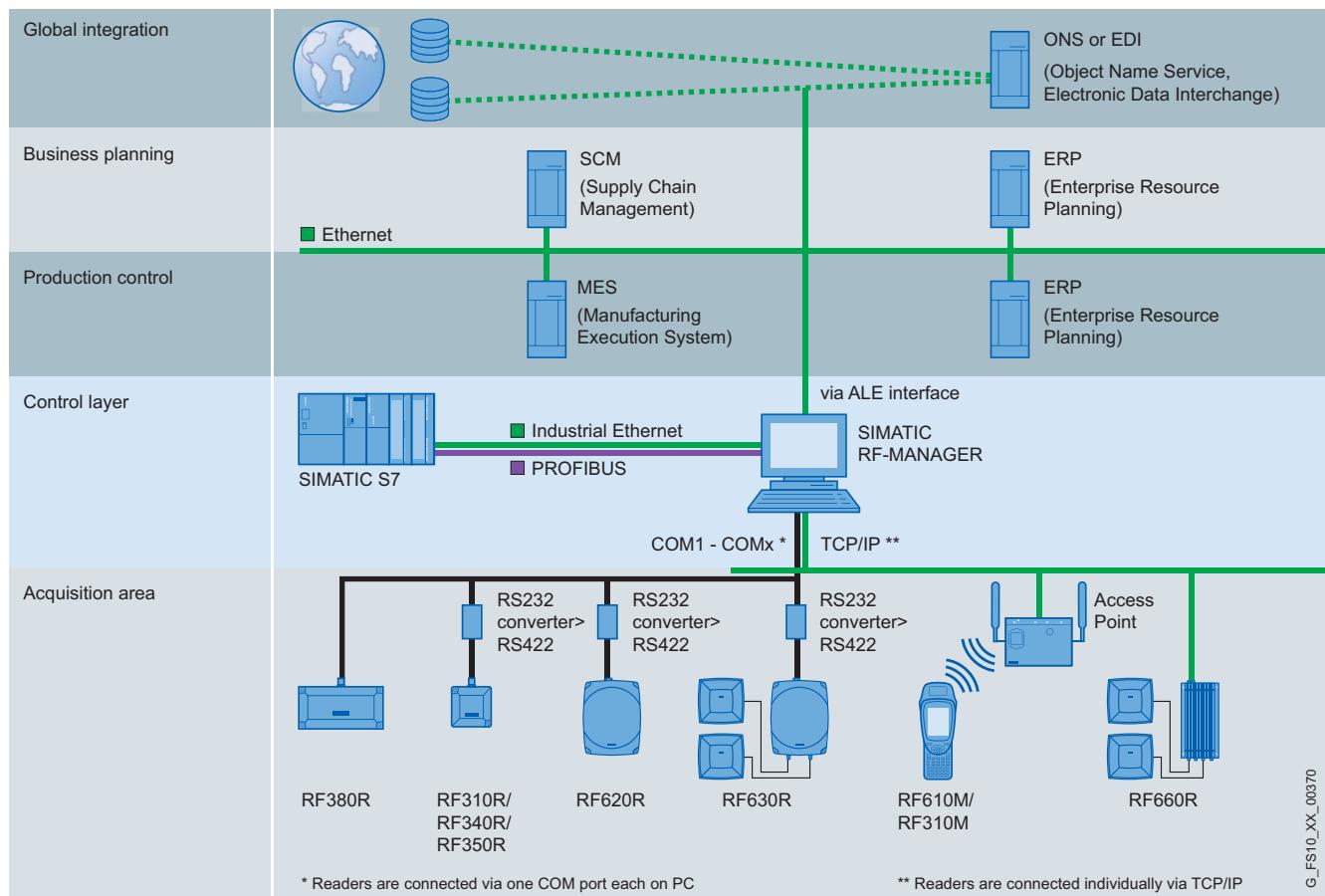
- Acquisition of the flow of goods at loading portals as a precondition for automation of the business processes
- Identification of products or pallets and their bulk detection
- Asset management for tracking and controlling mobile plant equipment
- Tracking & Tracing for enhanced product security and for simplifying recall campaigns
- Production logistics for optimizing the internal flow of materials and goods
- Operation of PC workplaces in production areas

Highlights

- Time savings due to rapid project engineering
- Reduction in commissioning times
- Smooth operation and simple diagnostics
- Complete flexibility with the higher-level system
- Comprehensive investment security
- Integration in the world of automation

New with Service Pack 1

- Support of all SIMATIC RF300 and RF600 write/read devices
- Forwarding and storage of RFID data in standard formats (CSV, XML, SQL)



Added value at all levels:

This is what SIMATIC RF-MANAGER can do!

SIMATIC RF-MANAGER manages the connected RFID readers, collects the supplied data and compresses it in accordance with the accuracy and quantity required by the higher-level enterprise systems (e.g. MES/ERP):

Configuration

- Generation of the RFID project using the convenient Engineering System

Device management

- Management and configuration of the connected readers
- Monitoring and diagnostics of the readers during operation

Data management

- Preprocessing and evaluation of the RFID data
- Preparation of the RFID data for the higher-level enterprise system
- Logical interconnection of RFID data with automation data from SIMATIC S7 controllers

Business integration

- Interfacing to the higher-level enterprise system
- Supplying RFID data and transferring RFID alarms

Time savings on creating the project

- Configuration instead of programming by means of convenient, multilingual user interface
- Guided kick-off assisted by a project wizard
- Rapid creation of an executable project due to special solution aids
- Efficient and clear editors make project engineering easy
- Uniform configuration of SIMATIC RF600 and SIMATIC RF300

Reduction in commissioning times

- Step-by-step commissioning by activating/deactivating individual readers and workplaces
- Optimization of readers at runtime and display of statistical data
- Simple testing of projects without readers connected, thanks to simulation software

The RF-MANAGER software comprises the Engineering System and Runtime components.

The Engineering System is used to perform all the necessary configuration tasks and to parameterize the components involved. The RFID project created in this manner is subsequently executed in the Runtime system. Runtime can execute on the same PC as the Engineering System or on a different PC or a SIMATIC Microbox 427B.

In the current version, RF-MANAGER 2008, readers (write/read devices) of the RF660R and RF610M type are supported exclusively. Depending on the scope of the RFID application, different software packages are available that differ in accordance with the number of supported readers (up to 50).



Guided kick-off assisted by a project wizard

Smooth operation and simple diagnostics

- Activation and evaluation of the digital inputs and outputs of the reader
 - Graphical status display of the participating components in a clear tree structure
 - Display of alarms and hardware status for rapid fault localization
 - Expansion and modification of the runtime application without any effect on normal operation
 - Grouping of readers into logical workplaces (e.g. incoming goods)

Preparation of the data for higher-level systems

- Multi-level filtering - ranging from filtering out irrelevant tags through to filtering according to user data and EPC criteria
 - Evaluation of RFID data through scripting
 - Display of RFID data and monitoring the RFID process
 - Common processing of barcode data (RF610M) and RFID data within RF-MANAGER

Logical interconnection of RFID data with automation data (SIMATIC S7)

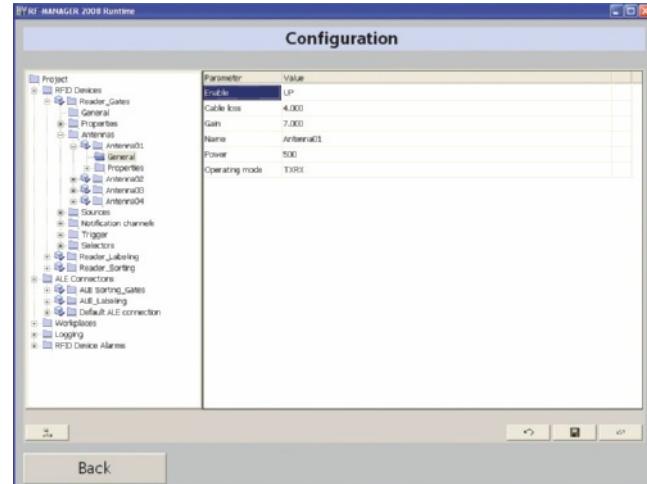
- Execution of control tasks depending on the read event or position of the tag (e.g. filter position)
 - Triggering of read/write tasks of the reader through the PLC
 - Transfer of RFID data to the PLC by means of variables

Flexibility with the higher-level system

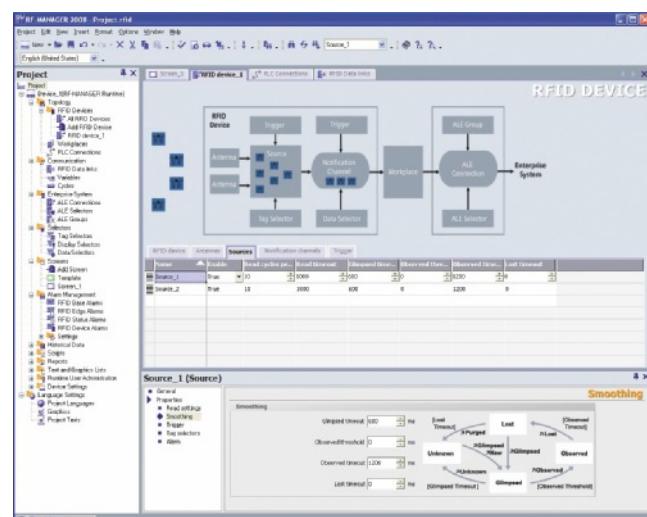
- Independent of the higher-level enterprise system used thanks to open interface (Application Level Events)
 - Direct transfer of RFID data to the MES/ERP system via reports
 - Individually configurable report contents

Comprehensive investment security

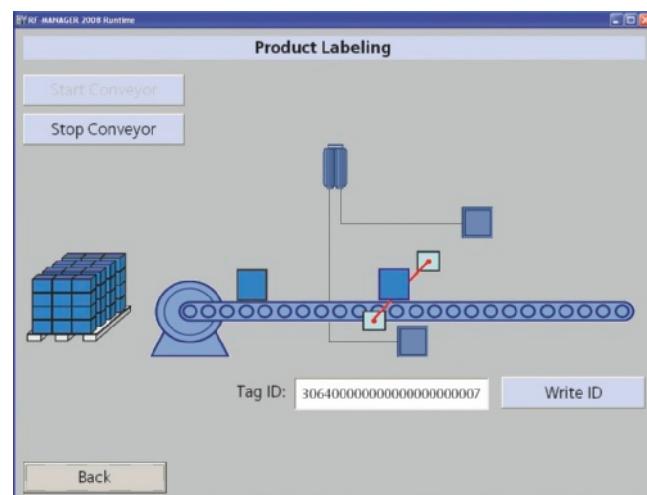
- Future-oriented thanks to EPCglobal compatible software architecture
 - Hardware is optimized for the software and vice-versa



Optimization at runtime and status display



Engineering System for configuring the RFID system



Monitoring the RFID process

SIMATIC RF-MANAGER

Technology overview

RF-MANAGER	Engineering System	Runtime
General data		
Current version	SIMATIC RF-MANAGER 2008 Service Pack1 (SP1)	
Supported devices	All SIMATIC RF600 and SIMATIC RF300 write/read devices	
Target systems	Standard PC	Standard-PC, SIMATIC Microbox PC 420, SIMATIC Microbox PC 427B
Type of delivery		
Contents	<ul style="list-style-type: none"> ■ RF-MANAGER configuring software ■ RF-MANAGER Runtime ■ Automation License Manager ■ Documentation as PDF ■ Getting Started project and ALE demo client ■ RF660R Configuration Software ■ Floating license for configuring software ■ Floating license for Runtime (as countable licenses) 	
Packages	Complete version <ul style="list-style-type: none"> ■ RF-MANAGER 2008 – 1 reader (Order No. 6GT2080-3CA00-8AA5) ■ RF-MANAGER 2008 – 5 readers (Order No. 6GT2080-3CC00-8AA5) ■ RF-MANAGER 2008 – 20 readers (Order No. 6GT2080-3CE00-8AA5) ■ RF-MANAGER 2008 – 50 readers (Order No. 6GT2080-3CG00-8AA5) Upgrade <ul style="list-style-type: none"> ■ RF-MANAGER 2008 – 1 reader (Order No. 6GT2080-3CA00-8AE5) ■ RF-MANAGER 2008 – 5 readers (Order No. 6GT2080-3CC00-8AE5) ■ RF-MANAGER 2008 – 20 readers (Order No. 6GT2080-3CE00-8AE5) ■ RF-MANAGER 2008 – 50 readers (Order No. 6GT2080-3CG00-8AE5) 	
Languages		
Documentation / configuring software / runtime software	English, German	
Hardware and software requirements		
Operating system	Windows XP Professional/SP2	Windows XP Professional/SP2 (standard PC), Windows XP Embedded/SP2 (SIMATIC Microbox)
Processor	At least Pentium 4 with 1.6 GHz processor	At least Pentium 3 with 933 MHz processor
Graphics	1024 x 768 or higher; recommended: 1280 x 1024 256	640 x 480 or higher 256
RAM	At least 1.0 GB; recommended: 2.0 GB	At least 512 MB; recommended: 1.0 GB
Spare memory / hard disk space	At least 1.5 GB	At least 256 MB (standard PC), CF card with at least 512 MB (SIMATIC Microbox)
Additional hardware	CD-ROM drive (for installing the software)	
Internet browser	Microsoft Internet Explorer V 6.0 SP1 / SP2	

1) Service Pack 1 can be downloaded under: <http://support.automation.siemens.com>

SIMATIC Microbox PC 427B

The SIMATIC Microbox PC 427B is the compact and rugged embedded PC for mounting on standard rails or walls or notebook installation and for operation in the machine.

Tested in combination with the new SIMATIC RF-MANAGER, the SIMATIC Microbox PC 427B provides the optimum solution also for retrofitting due to its compact construction and flexible mounting possibilities.



Get more information

Product information for SIMATIC sensors:
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Product information for SIMATIC Microbox:
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Siemens AG
Industry Sector
Postfach 48 48
90327 NÜRNBERG
GERMANY

www.siemens.com/automation

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