SIEMENS

SIMATIC

RFID systems
RF-MANAGER 2008 Service Pack 3

Compact Operating Instructions

06/2010
A5E02472233-03

Legal information

Warning notice system

This manual contains notices you have to observe in order to ensure your personal safety, as well as to prevent damage to property. The notices referring to your personal safety are highlighted in the manual by a safety alert symbol, notices referring only to property damage have no safety alert symbol. These notices shown below are graded according to the degree of danger.

⚠ DANGER

indicates that death or severe personal injury **will** result if proper precautions are not taken.

⚠ WARNING

indicates that death or severe personal injury **may** result if proper precautions are not taken.

⚠ CAUTION

with a safety alert symbol, indicates that minor personal injury can result if proper precautions are not taken.

CAUTION

without a safety alert symbol, indicates that property damage can result if proper precautions are not taken.

NOTICE

indicates that an unintended result or situation can occur if the corresponding information is not taken into account.

If more than one degree of danger is present, the warning notice representing the highest degree of danger will be used. A notice warning of injury to persons with a safety alert symbol may also include a warning relating to property damage.

Qualified Personnel

The product/system described in this documentation may be operated only by **personnel qualified** for the specific task in accordance with the relevant documentation for the specific task, in particular its warning notices and safety instructions. Qualified personnel are those who, based on their training and experience, are capable of identifying risks and avoiding potential hazards when working with these products/systems.

Proper use of Siemens products

Note the following:

⚠ WARNING

Siemens products may only be used for the applications described in the catalog and in the relevant technical documentation. If products and components from other manufacturers are used, these must be recommended or approved by Siemens. Proper transport, storage, installation, assembly, commissioning, operation and maintenance are required to ensure that the products operate safely and without any problems. The permissible ambient conditions must be adhered to. The information in the relevant documentation must be observed.

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Disclaimer of Liability

We have reviewed the contents of this publication to ensure consistency with the hardware and software described. Since variance cannot be precluded entirely, we cannot guarantee full consistency. However, the information in this publication is reviewed regularly and any necessary corrections are included in subsequent editions.

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A5E02472233-03
℗ 07/2010

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Introduction

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Purpose and background of this documentation

This Product Information describes the new functionalities supported by RF-MANAGER 2008 Service Pack 3. RF-MANAGER 2008 Service Pack 3 includes all functionalities of the RF-MANAGER 2008 Service Pack 1 and RF-MANAGER 2008 Service Pack 2.

New features from Service Pack 3

The RF670R reader is supported as of RF-MANAGER 2008 Service Pack 3.

New features from Service Pack 2

With RF-MANAGER 2008 Service Pack 2 or higher, the RF660R reader with new firmware version V1.3 according to the ETSI standard E 302 208 V1.2.1 is supported. 4 exclusive RFID channels have been defined within the frequency spectrum. The procedure "Listen Before Talk" is no longer used. ETSI-SRD no longer applies.

Furthermore, the RF-MANAGER offers the possibility to address readers that can be operated according to the settings for the frequency range CHINA.

There are, for example, two new system functions available in Service Pack 2 that permit easy and high-performance access to any tag memory areas.

The mobile reader SIMATIC RF610M now also supports EPC IDs with a length of 240 bits.

This ALEDataBridgeClient is already fully installed following installation of Service Pack 2, and it can be started via "SIMATIC > RF-MANAGER 2008 Runtime > AleDataBridgeClient". This demo application is based on the ALE+ Client API Library and uses the ALE interface to make files available in .csv (text), .sql (database), and .xml (structured text) formats.

New features from Service Pack 1

In production, RFID readers are generally connected to the corresponding SIMATIC S7 controllers via interface modules. These controllers manage the connected readers and process the read files or control the production sequence. However, in production scenarios there is also a certain percentage of PC-based RFID workplaces.

Service Pack 1 permits that readers which generally are connected via interface modules can be operated direct on the RF-MANAGER instead.

System overview

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Serially connected readers

This Service Pack supports the following systems with the corresponding serially connected readers:

- RF600 system (UHF range):
  - RF620R
  - RF630R
- RF300 system (HF range):
  - RF310M
    (from the 2nd generation (G2) of the PSION basic device with the MLFB 6GT2803-0AB00)
  - RF310R (also supports ISO tags)
  - RF340R (also supports ISO tags)
  - RF350R (also supports ISO tags)
  - RF380R (also supports ISO tags)

Readers connected via Ethernet

The following readers connected via Ethernet are also supported. Support for the RF670R reader is new in Service Pack 3.

- RF670R
- RF660R with firmware V1.3
- RF610M

System overview

This results in the following system overview:

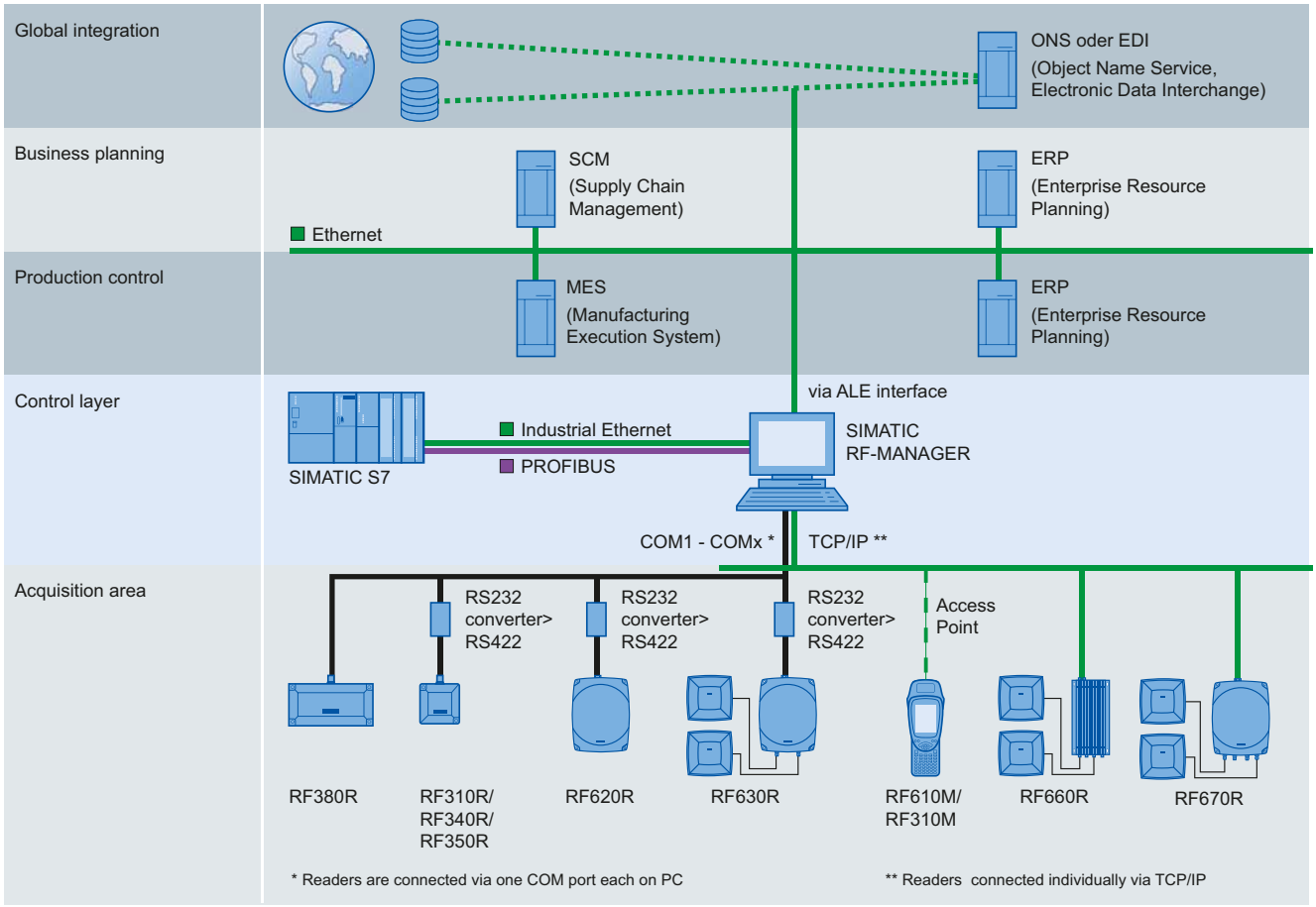

Figure 2-1 RF-MANAGER 2008 SP3 system overview

Installation 3

Requirement

SIMATIC RF-MANAGER 2008 must be installed.

Procedure

1. Start the file "RF-MANAGER_2008_SP3.exe" by double-clicking on the filename.
2. Follow the on-screen instructions.

Result

RF-MANAGER 2008 Service Pack is now installed on your computer.

In the installation folder, usually "C:\Program Files\ Siemens\SIMATIC RF-MANAGER\RF-MANAGER 2008 Support", five additional folders have been created by launching the Service Pack:

- ALEDatabridgeClient

  ALEDataBridgeClient is already fully installed following installation of the Service Pack, and it can be started via "SIMATIC > RF-MANAGER 2008 Runtime > AleDataBridgeClient". This demo application is based on the ALE+ Client API Library and uses the ALE interface to make files available in .csv (text), .sql (database), and .xml (structured text) formats.
  The documentation for the ALEDataBridgeClient can be found in the folder, along with the source files.

- ALE+Client Demo

  The ALE+Client Demo is already fully installed following installation of the Service Pack, and it can be started via "SIMATIC > RF-MANAGER 2008 Runtime > ALE+Client Demo". This demo application is based on the ALE+ Client API Library and uses the ALE interface to provide an overview of the functional scope of the interface. All supported commands can be run, and reports for files and messages can be displayed.
  Along with the source files, the folder contains comprehensive documentation on the use of the ALE+ interface and the ALE+Client Demo.

- RF610M
  The "RF610M" folder contains components to be installed on the respective devices if RF610M units are used with RF-MANAGER, as well as the installation documentation.

- RF310M

  The "RF310M" folder contains components to be installed on the respective devices if RF310M units are used with RF-MANAGER, as well as the installation documentation.

  Prerequisites: RF310M from the 2nd generation (G2) of the PSION basic device with the MLFB 6GT2803-0AB00

- Project samples

  The "Project samples" folder contains numerous example configurations for the new devices. The mode of operation of the readers and their integration into the RF-MANAGER can be followed in the projects.

ALEDataBridgeClient

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In addition to the support for new RFID devices, the Service Pack also contains a further sample application to connect to the ALE interface of the RF-MANAGER.

Functions

This "ALEDataBridgeClient" can transform RFID data that was collected by the readers, processed by RF-MANAGER, and provided to the client via the ALE interface into a series of standard formats. CSV and XML formats are supported, as well as writing to an SQL database. The contents of the table can be defined via the client.

The client is also supplied as binary file and in source code. In this way, it can also serve as a basis for custom applications.

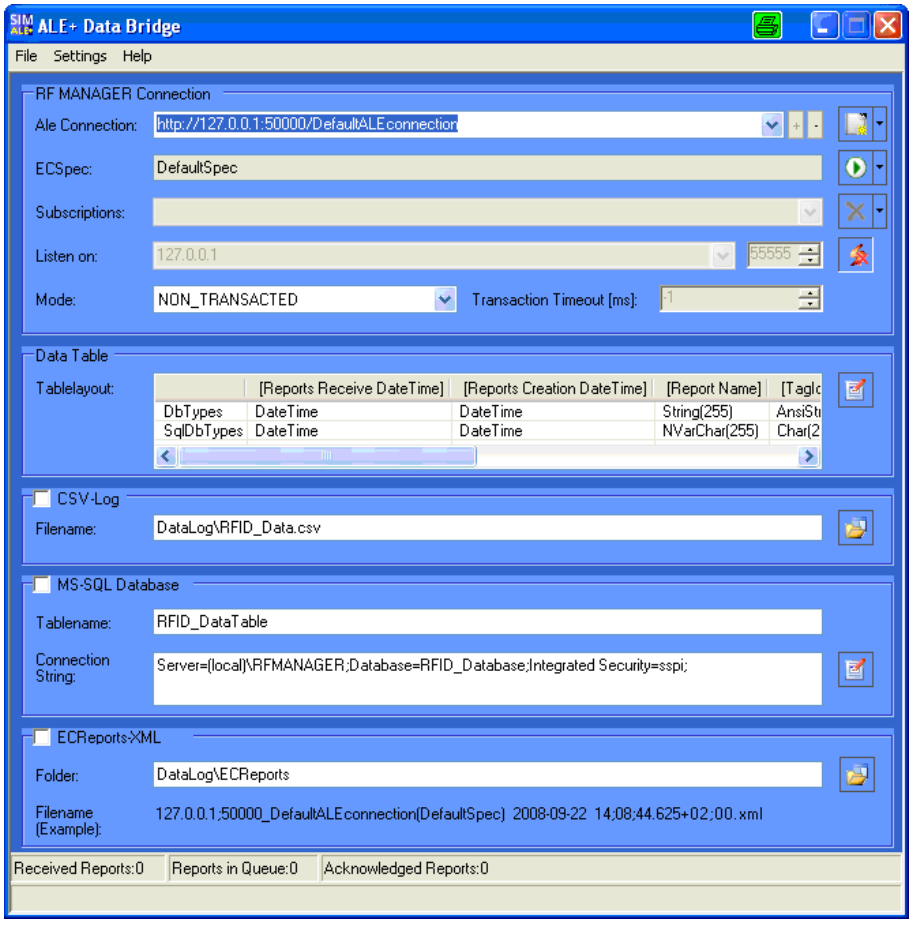

Figure 4-1 ALEDataBridgeClient