



*RFID-Software  
at its best.*

# Flexible Scalability



## You-R® OPEN Hosts

You-R® OPEN Tubes run on a variety of hosts.

The options range from handhelds with offline capability to redundant cluster servers. Cascading of Tubes is possible as well. E.g. a local Tube running on a handheld and a central Tube running on a server can be combined flexibly.

Consequently the best price performance hardware architecture can be selected by the integrator.

# Efficient System Integration

## RFID projects need a professional platform

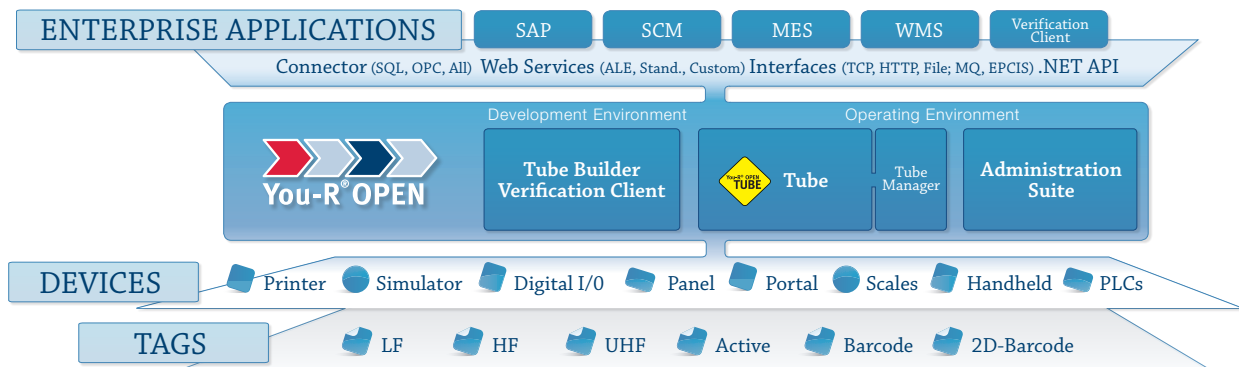
The focus is shifting away from hardware and software only towards the establishment of complex integrated systems through an RFID software platform. There is a growing need for reusable solution modules, which provide a faster and more reliable way to success than would be possible with a „green field“ approach.

You-R® OPEN addresses these needs as it operates as a mediator between heterogeneous RFID components and complex IT landscapes, which could be SAP modules as well as proprietary software systems.

## System Integration and Management Platform

The You-R® OPEN system integration platform consists of RFID edgware and middleware runtime components (You-R® OPEN Tubes, Tube Manager and Mobile Tube Manager) and tools for development (You-R® OPEN Tube Builder), installation, monitoring, maintenance and upgrade of an RFID device infrastructure (You-R® OPEN Administration Suite and Enterprise Administration Suite).

Futhermore the application called Verification Client is used to test several device functionalities, before they are implemented in an IT infrastructure. The system architecture on the whole is scalable, from small single site projects to large scale multi-site global installations or managed RFID solutions.



## Operating Environment and Solution Builder

You-R® OPEN is a dedicated RFID Operating ENvironment that handles data, device and configuration tasks of the system as well as integration aspects into a company's existing ERP and IT landscape. You-R® OPEN supports the entire RFID infrastructure - from smart labels to readers (active and passive RFID, UHF, HF, LF), barcode scanners, label printers, I/O devices e.g. light stacks, scales, light barriers and PLCs. These features allow the integration of RFID systems into a company's internal ERP landscape using web services or connectors, including ALE, EPCIS Microsoft .Net and Navision, HTTP,

TCP/IP, XML, PML, file, SQL and SAP's AII or direct integration methods into SAP. Furthermore it is possible to maintain, diagnose and update the software and system parameters of RFID hardware centrally via a remote connection. You-R® OPEN provides comprehensive tools and functions to develop, install, operate and maintain the best-fitting RFID infrastructure. TUBEs as local applications with local Business Logic can be configured as reusable solution modules. So You-R® OPEN is a perfect solution building platform, which can be installed onto handheld devices, PCs, workstations and servers.

## The You-R® OPEN Enterprise Administration Suite

- ▶ Supports managed service operation models - application service provider (ASP) scenarios
- ▶ Support for multi site, multi Administration Suite projects
- ▶ Server-based software for Administration Suite management
- ▶ Status monitoring for all Administration Suites
- ▶ Backup of deployed software and configuration information
- ▶ Various services ensure the data exchange to ASP platforms:  
Track & Trace, Topology, Dispatch and Notification
- ▶ Web-based user interface



## The You-R® OPEN Verification Client

- ▶ Test application to prove the functionality of Tubes (interface, taglist, data on tag)
- ▶ Connected to Tubes via Standard Web Service
- ▶ Possibility to switch between several data models
- ▶ Data on tag can be manipulated
- ▶ Sample data and transponder lists can be stored to file for later use
- ▶ Switch between normal or accumulative mode for listing tags
- ▶ Activation / deactivation of antenna field
- ▶ Status of connection status of device is shown
- ▶ Data visualization for different devices



## The You-R® OPEN Tube

- ▶ The Tube is a service oriented runtime component (SOA) responsible for linking data of a local identification point to IT-Backend Systems.
- ▶ Support of LE, HF, UHF and active UHF RFID devices, digital I/O and barcode devices, scales, simulation devices as well as built-in connectors to databases and the automation world
- ▶ Executable on hand-held devices, PCs, local workstations and servers
- ▶ Installation as independent, standalone application possible
- ▶ Scalable architecture including a programmable Control Logic in C# (C Sharp) inside the TubeBuilder
- ▶ Interface to SAP, web service, file, .Net Connector, AII, synchronous and asynchronous operation mode is supported
- ▶ Interfaces to the enterprise world with different technologies like web services, .Net API, TCP/IP, Flat File (e.g. XML), SQL, HTTP, MS MQ,
- ▶ EPCIS Services can be linked via EPSIS capture interface
- ▶ Built in health status information about antennas, readers and the Tube itself with configurable alerts
- ▶ EPCglobal functionality - all classes are supported including 64 and 96 bits EPC codes
- ▶ Built in Offline Buffer for transaction secure data linking
- ▶ Extendible with a Graphical User Interface (GUI) supporting local business processes
- ▶ Filtermechanisms for DataOnTag, EPC Patern, Timing
- ▶ Microsoft XP, Microsoft Windows 2003 Server platforms, Microsoft Windows 2000, Microsoft Windows CE 4.2 an higher and Pocket PC supported, Microsoft Vista
- ▶ On request LINUX/UNIX as operating environment





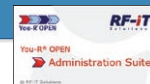
## The You-R® OPEN Tube Manager & Mobile Tube Manager

- ▶ Service-oriented software for managing Tubes in combination with the Administration Suite
- ▶ Responsible for starting and stopping Tubes on a host
- ▶ Mobile Tube Manager is responsible for data transfer between a mobile device and the Administration Suite
- ▶ Hosts all Tube specific programs and configurations
- ▶ Microsoft Windows XP SP2, Microsoft Windows 2003 Server, Microsoft Windows 2000, Microsoft Windows CE 4.2 and higher and Pocket PC supported, Microsoft Vista platforms supported
- ▶ On request LINUX/UNIX as operating environment



## The You-R® OPEN Administration Suite

- ▶ Server-based software for administration of a deployed RFID Landscape
- ▶ Web-based user interface
- ▶ Status and event monitoring of deployed RFID software and connected devices
- ▶ Tube Manager and Administration Suite backup of software and configuration information
- ▶ Track & Trace monitoring
- ▶ Track/view of firmware of reader and You-R® OPEN software components
- ▶ Statistics are shown in Status Monitor
- ▶ Tube Manager and Tube management (deployment, maintenance and reporting)
- ▶ User access control with login and password – different roles possible - customizable
- ▶ Email and SNMP alerts to inform administrators about health status changes
- ▶ Custom Tab to add specified functionalities like inventory reports
- ▶ Microsoft Windows XP, Microsoft Windows 2003 Server and Microsoft Windows 2000 platforms supported



## The You-R® OPEN Tube Builder

- ▶ Two Libraries are supported in an integrated development environment with catalogue of predefined Tubes
- ▶ Building Blocks for all abstraction layers of a Tube
- ▶ A range of devices is supported
- ▶ Configuration of and a catalogue of predefined Tubes
- ▶ Device management, configuration
- ▶ Data Management and filtering
- ▶ EPC and HF data modeling for Data on Tag (DoT) with additional built-in functionality
- ▶ Data model optimizer
- ▶ Control Logic-implementation of logic is based on an event driven programming model in C# (C Sharp)
- ▶ Configurable interfaces and connectors
- ▶ TUBE compilation and play mode
- ▶ Application creation inside the Tube Builder or in combination with Visual Studio .NET
- ▶ Configure deployment and runtime parameters
- ▶ Build Tube Templates for deployment over the Administration Suite
- ▶ Possibility to develop Tube applications (e.g. for hand-held devices) with GUI
- ▶ TUBE application for customizations via the Administration Suite
- ▶ Special UHF stray read filtering
- ▶ Comprehensive integrated documentation with step-by-step examples



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You-R® OPEN is delivered to partners via the Enterprise Developer Package or via the Hands-ON Package supporting a few devices to get started. With these packages a trained partner can integrate auto ID projects efficiently and develop You-R® OPEN based solutions. Runtime components are licensed on the basis of the number of devices, the number of installations for the Administration Suite and Enterprise Administration Suite and the number of running Tubes for solutions.