



EDECS RFID Integration Software

(Expandable Data Exchange Communication System)

The EDECS RFID integration software is the solution for capturing and sharing data to business applications. EDECS is proven and commercially available software for data collection and local control of RFID readers, barcode scanners and other automatic data collection devices.

EDECS runs at over 2,000 RFID installations worldwide and is a key component in complex RFID networks, where high RFID data read rate and accuracy together with high data integrity are key requirements.

The **Kernel** starts and controls processes according to setup parameters, investigates if they are alive, provides intercommunication between processes, controls access to computer resources and provides logging facilities.

The **Generic Reader API** handles all interfaces and protocols with connected RFID/barcode equipment by a number of exchangeable reader driver modules designed for each types of RFID equipment.

The **Reader Management module** implements reader management and adds intelligent system monitoring for time setting, firmware, read rate and connections.

The **Data Filtering Processing** handles filtering, decoding and other operations on raw data, e.g. check for tag cross-readings and directionality.

The **Event Manager** creates event data based on RFID tag readings and data from other data capture devices. The event manager uses a range of processing plug-ins for creating events. Each plug-in operates independently using its own conditions, rules and actions.

The **Service Layer** provides a well-defined generic URL based interface and provides a range of functions available for other applications outside EDECS. To pull data from EDECS, a business application can call functions in the service layer API.

The **Service Layer API** handles data transmission between EDECS and a central server or local host system. A modular design with multiple processes makes data transmission using other transports very easy. Supported transports are 3G, GSM, PSTN, VANS, LAN/WAN/wireless.

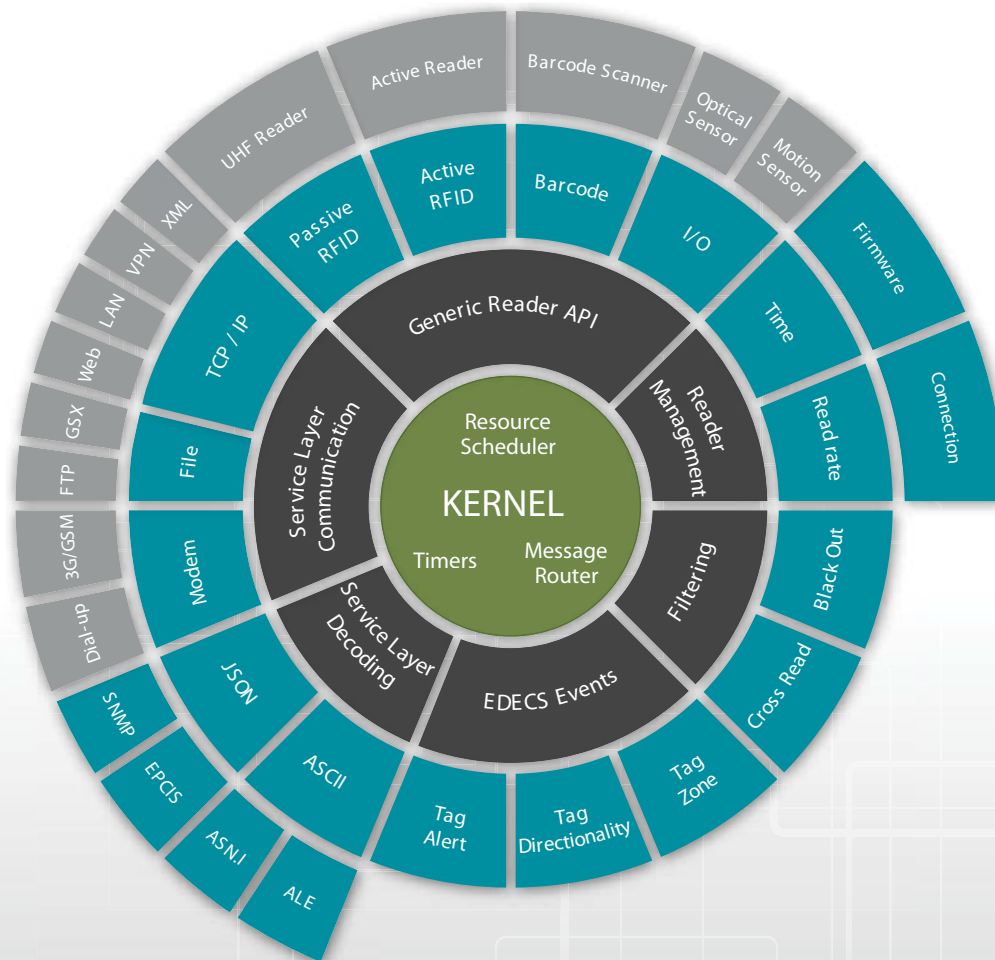
FEATURES

- Collects and filters tag readings from RFID readers and other data capture devices.
- Handles input from tag sensors and sensors attached to RFID readers e.g. motion sensor.
- Filters away unwanted RFID tags and cross-readings.
- Processes large data amounts through business logic for e.g. asset tracking and asset management.
- Designed for 24x7 operations with self-diagnostic tools.
- Embeds standard LLRP reader interface and a variety of proprietary interfaces.
- Operates with a high performance embedded database.
- Transmits and distributes data to multiple business applications.
- Enables central RFID network management and supervision.
- Runs on Windows and Linux platforms.



Technical specifications

Operating system	Win7, Windows XP/XPe, Linux Debian
Memory requirements	EDECS Case 10 MB RAM, 1MB mode per reader (file-mode) or 20 MB per reader (memory-mode)
Hard disc	Minimum 1 GB
Data transmission	WLAN, Ethernet, USB, RS-232, RS-485
UPS Support	Yes
Programming language	C++
Data interface	PSTN, VANS, GSM, 3G, LAN/WAN
Design principle	OOA / OOD
Data decoding	ASN1, ASCII, XML, ALE, EPCIS, JSON
RFID reader interface.	Active, passive, LLRP
Barcode	All
EPC Global certified	Yes
API	Yes (REST)



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