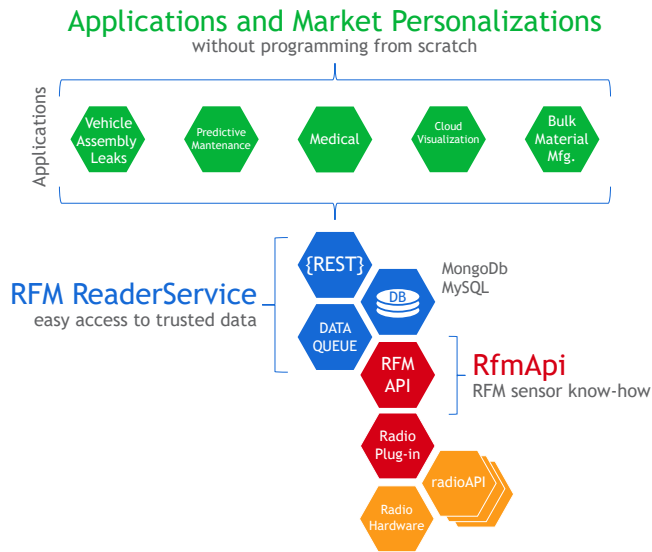




ReaderService Software

access Smart Passive Sensing Data over REST



RFM5144 ReaderService Software

APPLICATIONS

IoT sensing
Building performance
Factory 4.0 monitoring
Data center monitoring
Cold chain shipping

KEY FEATURES

REST with JSON messaging
Messaging queue and topic
Integrated database
Windows, Linux or MAC
Aggregates RFM5109/10 data
Drives RFM5108 RF readers
Smart Passive Sensing™

Simplifies RF reader programming

The RFM5144 ReaderService™ software provides industry standard REST interface access to Smart Passive Sensing™ data from RF readers and sensors. The sensor data is stored on an embedded database and provides both historical and current data values to support a range of sensing needs. The ReaderService includes the low-level RFM5140 RfmApi™ to handle RF reader and sensor communications as well as to perform advanced edge processing that converts the raw sensor data into trusted information.

Keep your attention on the high-level application

The ReaderService is a complete microservice able to run on Windows®, Linux® and MAC® operating systems. Communication is via standard HTTP commands and employs standard text-formatted JSON messages.

Software to simplify and speed integration tasks

Because the low-level reader functions are managed by the embedded RfmApi layer, integrating the ReaderService into your software is much faster. It can aggregate data from other RF readers including the basic RFM5108 readers.

Compliance and configurations

The ReaderService is available separately and as part of the RFM5109-B and the RFM5110-A smart reader systems. It works across regions.



RFM5144 ReaderService Software

Fixed wireless RF reader microservice software features

PARAMETER	VALUE
Manage readers	StartReaderDiscovery, GetDiscoveredReaders, Connect, GetReaderSettings, SetReaderSettings {Available reader settings include: enabled, power, defaultPropertyFileName, frequencyBand, inventoryTarget, linkFrequency, modulation, Q_Value, readTimeout, rxDecoding, selectedAntenna, session}
Advanced sensor management	SelectSensors, ReadSensor
Data management	ClearResultsFromBuffer, GetResults
Supported filter configurations	All RfmApi filter and processing algorithms are supported
Message manager	ActiveMQ message broker, last value read topic
Data output	SQL database access
Message and data format	JSON formatted text
Target readers	Ships with RFM5109-B, RFM5110-A readers
Compatible smart readers	Aggregated data from other RFM5109, RFM5110 smart RF readers, and from RFM5108 readers