

EPC® Translator Library 2.0

The most comprehensive software library available for encoding and decoding RFID and barcode data

Support GS1 TDS 2.0

All RFID applications must translate between business data and the binary information encoded in the different memory banks of the tag. But implementing the EPC Tag Data Standard and ISO/IEC 15962 is time-consuming and error-prone. Spending engineering time on this takes away from time spent making your product better.

Allow the EPC Translator Library to simplify your workload

If you've already experienced the capabilities of the free web-based tool and now wish to create your own application, consider licencing the EPC Translator Library. This is a commercial-grade software designed to manage all your RFID and barcode data translation requirements. Its API is thoughtfully designed for swift integration with any application, ensuring that it "just works".

Electronic Product Code (EPC)

Our system supports all EPC schemes including the 12 new ones defined in GS1 TDS 2.0. You can translate easily back and forth between data formats. Whether it's in barcode form, GS1 Digital Link, EPC Pure Identity URI (as used in EPCIS), EPC Tag URI (as used in ALE), and bits on the tag in bytes, words, or hexadecimal, the system seamlessly translates between these formats.

User Memory

If you need to manage data within the User Memory of RFID tags, the EPC Translator Library provides fast and efficient encoding and decoding based on the "Packed Objects" standard.

TID Memory

The EPC Translator Library simplifies TID decoding, allowing you to access information about the tag manufacturer, model, capabilities, and the manufacturer's serial number.





EPC translator library allows you to easily translate data from the output of a barcode scanner directly into bitstream encoded into the EPC memory of an RFID tag.



Designed for Integration

The EPC Translator Library is designed for fast integration into any Java, Scala, or other JVM-based software application, or any C#, VB, or other .NET application. It is delivered as a single JAR or DLL file that is easily imported into your development environment and included in your software application. Full web-based documentation is provided for all API methods. An ANSI C source-code edition is also available for embedded applications.

Fully Tested, Fully Supported

The EPC Translator Library undergoes extensive unit testing with every release, including over 14,000 test cases for the EPC alone. With the EPC Translator Library, you do not have to worry about whether some corner case has been missed. An annual maintenance contract provides you with a rapid response to any questions or problems that may arise. Licensed by GS1 Global Office, the EPC Translator Library provides the assurance you need to develop your software while ensuring full compliance with GS1 standards.

Specifications

Standards Compliance

- EPC Tag Data Standard 2.0
- ISO/IEC 15962 ("packed objects") EPC Formats

All the Data Format you need

- GS1 Element String (barcode)
- GS1 Digital Link
- EPC Pure Identity URI, Tag URI, Raw URI
 - EPC Binary Encoding (byte array, word array, hexadecimal string)

All RFID memory banks

- EPC Memory
 - o All GS1 TDS EPC schemes
- User Memory
 - Full encoding/decoding using "packed objects" access method
 - All GS1 AIs supported
- TID Memory
 - o Decode the content of TID memory

Licensing options

- Two different licences:
 - End User devoted to companies that want to translate data formats
 - OEM devoted to companies that want to embed the libraries in commercial software
- Initial fees + annual fees (10% of initial fees) starting from 4,250 USD.

Contact information:

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