



# INTEGRATION AND DEVELOPMENT FRAMEWORK

## Business Models

With business models GoRPM can be extended to implement custom business rules when certain events occur, such as creating data, editing data, and deleting data. Business models can run synchronously during an operation or asynchronously for longer tasks. Business models have access to the full GoRPM Application Programming Interface (API), for accessing and modifying GoRPM data, as well as full access to standard .NET APIs. Business models can be written in any .NET language.



## REST Web Services

The GoRPM REST web service layer can be extended with additional services for use with custom GoRPM modules or communication with external systems. REST web services can be written in any .NET language and have full access to the GoRPM API as well as the standard .NET APIs.



## Data Importers

In addition to the built in imports which ship with GoRPM Studio, additional imports can be created in any .NET language. Data importers provide a simple user interface and the logic required to access data from a custom file type, a proprietary system, a web service, etc., and GoRPM Studio does the rest by importing the data into GoRPM. Custom data importers can be combined with other data importers to deal with complex data scenarios.

### Data Transforms

Custom data transforms can be used to manipulate source data as it flows through the data import pipeline. Data transforms can be written in Python within GoRPM Studio or created as plugins using any .NET language.





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## ➤ Third Party Authentication

With third party authentication (TPA) GoRPM can leverage other industry standard systems for user authentication such as Active Directory, Client Certificates and Smart Cards including DoD CAC cards, CAS, SAML, etc. TPA can be used exclusively or combined with the default username and password authentication provided by GoRPM. TPA can be used as part of a single sign-on (SSO) solution.



## ➤ Custom Modules

With custom modules custom user interfaces can be implemented using the GoRPM Javascript API. By combining custom modules and REST web services custom business logic can also be created with full access to the GoRPM API. Additionally, custom modules can be secured via the permissions system. Custom modules have full access to all GoRPM controls such as the entity selector and map viewer.

### Data Visualizers

A subset of custom modules, data visualizers provide charting and mapping capabilities for presenting data in custom interactive reports and dashboards.



## ➤ Reports

The reports API provides full access to GoRPM data via .NET objects or database views. Reports can generate any file type and work with most report writer software. Reports allow the optimal filtering of data, according to the requestor's permissions, to prevent data leaks. Reports can be written in any .NET language.

