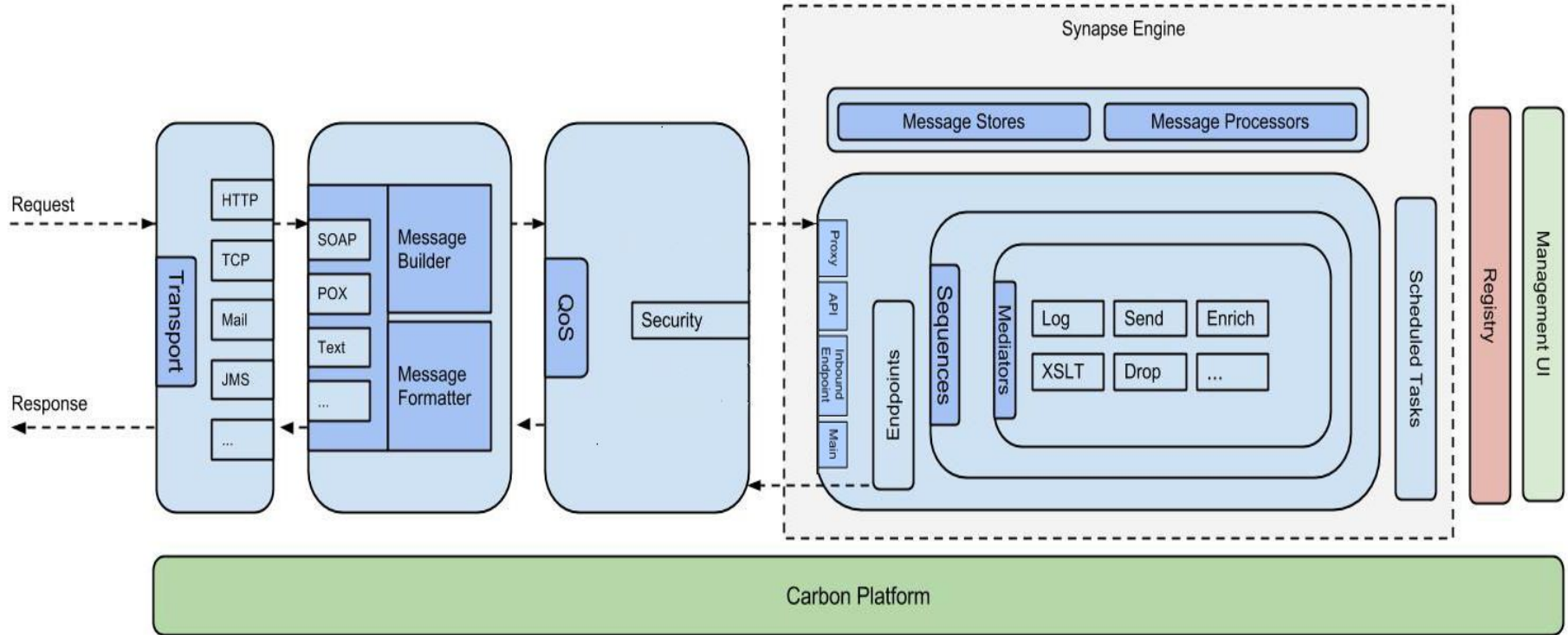# WSO$_2$ ESB

Introduction to Wso2 ESB

It is a software architecture constructs that enables communication among various applications.

It is build on apache synapse which is build using apache axis2

It perform variety of Enterprise Integration Patterns including

- Filtering
- Transformation
- Routing SOAP, binary, xml, text messages passes through http/s, JMS, mail etc.

Architecture:

Functionalities of WSO2

Integration of existing software(applications, services, data, systems) applications to new software solutions.

- **Message mediation** - manipulate direction, destination protocol flow config.
- **Service virtualization** - wrapping existing system with new service interface
- **Protocol conversion** eg.JMS to HTTP
- **Supports EIP**
- **Quality of service** - apply security, throttling, caching
- **Connectors** to cloud services and api - eg. twitter ,email, paypal etc
- **Configuration driven** - functionalities driven by config. And not by code
- **Extensibility** - integrate with any protocol/system

Evolution of Integration

- Avoid point to point integration with an ESB.

Connectors:

It is a collection of templates that contain operations that can be invoke by ESB configurations.

Basically they are use to wrap the api of an external services such as twitter, email google spreadsheet etc.

 Download existing connectors from [here](#) and simply load into esb

Writing Tasks

A scheduled tasks in WSO2 ESB allows you to run a piece of code triggered by a timer

To activate task you have to add it to task list .