

## Ambassador® for DOORS®

*“Bridging the Gap between Configuration and Requirements Management”*

### Ambassador®

Ambassador® for DOORS® is a **service-oriented architecture (SOA)** that facilitates the communication and data sharing between IBM Telelogic DOORS® Server and today’s leading Product Lifecycle Management (PLM) systems. More importantly, Ambassador® can be used to integrate IBM Telelogic DOORS® into any application.

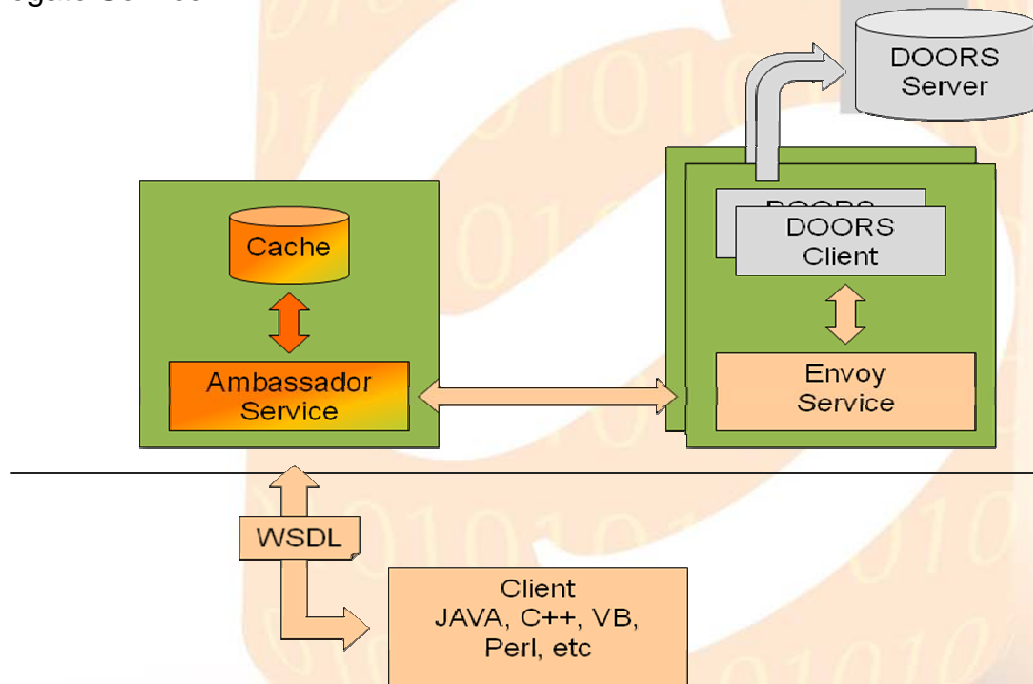
### What is service-oriented architecture (SOA)?

- Defined by the [W3C](#) as "a software system designed to support [interoperable machine-to-machine](#) interaction over a [network](#)“
- They expose API of the operations offered by the service written in the [Web Services Description Language](#) (WSDL)
- User Interfaces are provided by Implementation

### What is the Ambassador® Architecture?

Ambassador® consists of three services:

- Ambassador Enterprise Service
- Envoy Service
- Delegate Service





## **Ambassador<sup>®</sup> Enterprise Service**

The Ambassador Enterprise Service (AES) is the core service of Ambassador<sup>®</sup>. The AES performs many mission critical functions. AES is most noted for superb data performance, ensuring interoperability between systems, load balancing between multiple DOORS<sup>®</sup> Servers, and redundancy.

- **Manages**
  - Sessions (License Consumption)
  - Envoy Connections
  - Cache
  - File Transfers
  - Load Balancing
- **Cache**
  - Converts RTF from DOORS<sup>®</sup>
    - Into [Apache FOP](#) XML
    - From FOP to HTML
    - From FOP to PDF
  - Converts Pictures from DOORS<sup>®</sup> Into JPG format

## **Envoy Service**

The Envoy Service is essential to the AES and DOORS<sup>®</sup>.

- **Manages DOORS<sup>®</sup> Clients**
  - Starts N DOORS<sup>®</sup> Clients
  - Monitors QOS of DOORS<sup>®</sup> Clients
  - Stops DOORS<sup>®</sup> Clients
- **Handles request from the Ambassador<sup>®</sup> Enterprise Service by creating DXL Scripts dynamically and submitting the script to DOORS<sup>®</sup> and waiting for DOORS<sup>®</sup> to complete the request.**
  - The script generates XML
- **Transforms the XML response from DOORS<sup>®</sup> into JAVA Objects that are returned to the Ambassador<sup>®</sup>.**

## **Delegate Service**

Ambassador<sup>®</sup> can be integrated into any 3<sup>rd</sup> Party Product using the Delegate Service.

- **Adaptable to any programming language that supports Web Service Development**
  - JAVA, C++, Visual Basic, Perl, etc.
- **Therefore most any existing 3<sup>rd</sup> party thin or thick application can leverage DOORS<sup>®</sup> data and add value to their respective product by producing their own proprietary Delegate service.**

## Why is the Ambassador® the solution for your company?

### **Service-oriented architecture (SOA)**

Provides SOA that allows different applications to exchange data with one another as they participate in business processes. Further, allows methods for systems development and integration of other products.

### **Scalability**

Highly scalable and provides support for accessing multiple DOORS databases.

### **Performance**

Offers superb caching availability. The Ambassador Enterprise Service allows for immediate data processing and retrieval.

### **Redundancy**

Ensures that your information will always be accessible. The Envoy Service allows your users to access and retrieve data at anytime.

### **Web-based User Interface**

Provides an easy to use web-based interface that allows the user to navigate DOORS Projects, modules, and requirements.

### **Unified Access Control**

Offers a new unified access control method for system administrators to easily map user accounts across multiple platforms.

### **Package-based Installer**

Packaged-based installer allows System Administrators to easily deploy the Ambassador Enterprise Service, Envoy Service, and the Delegate Service. The Ambassador Delegate installation package is offered in shrink wrap and click wrap packages. Regardless of your preferred installation method, the Ambassador Delegate Setup Wizard easily guides you through a quick and easy installation.

### **Rapid Deployment**

Sometimes your deployment strategies call for a one stop solution. Ambassador Delegate is designed to integrate seamlessly into your network. However in some instances, network infrastructure may not be adequate or to scale for a rapid deployment. For situations such as this and Enterprise deployments, Ambassador Delegate is offered in a single server solution which is pre-configured by a Stoneworks Software Application Engineer prior to installation.



**STONEWORKS**  
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