



What are Design Patterns?

Reusable templates that guide the enterprise to implement a set of technologies in standard ways

How do Design Patterns relate to the Enterprise?

Design Patterns translate OI&T's strategic goals, as documented in the Enterprise Technology Strategic Plan (ETSP), into "real world" direction to guide system design

How can I learn more?

To learn more about this Design Pattern, contact Joseph Brooks (Joseph.Brooks2@va.gov)

To read the full document, see the TS website: www.techstrategies.oit.va.gov

To ask questions about Design Patterns in general, reach out to askCTS@va.gov

Enterprise Design Patterns: SOA Design Patterns for VistA Evolution - Web Technologies Data Sharing

- **Design Pattern Scope:** Serves as an appendix to the original SOA VistA COTS and non-COTS documents
- **Design Pattern Guidance:** Outlines the major technologies available at VA that can be used to accomplish the capabilities described in the first set of SOA Design Patterns
- **Future Updates:** Provides a snapshot of available technologies at a given point in time, and will therefore be updated in the 2015 fiscal year



The Web Technologies Data Sharing Design Pattern is a follow-up to the first set of SOA Design Patterns in that it provides additional implementation guidance

The original SOA Design Patterns for VistA Evolution discussed at a high-level how the VA should enable the use of enterprise shared services (ESS) to store and retrieve information by creating a single interface to access VistA data. The Web Technologies Design Pattern came out of subsequent meetings with subject matter experts regarding the first set of SOA Design Patterns.

This document provides information on **actual tools and technologies** that VA has paid for and deployed in the IT infrastructure. In doing so, it gives more specific implementation guidance on how to use available technologies to achieve the vision laid out in original SOA Design Patterns.

This Design Pattern highlights two of the major infrastructure capabilities that have already been provided for at the VA

These two technologies are: (1) the Data Access Services (DAS) Generation 2 and (2) the VA Enterprise Messaging Infrastructure (eMI). Generally speaking, Enterprise Application Services and SOA Support Infrastructure Services are provided by **both** DAS Generation 2 and eMI.

1. **DAS Generation 2** is focused on accessing data across the enterprise. For example, DAS Generation 2 provides the enterprise shared persistent data stores that can be found in the data layer
2. **eMI** is used for messaging and providing a registry for enterprise services. Examples of eMI capabilities include acting as an application gateway and federating across DoD and VA data sources

The Web Technologies Data Sharing Design Pattern will be updated in the 2015 fiscal year to reflect the latest technologies available across VA

The Web Technologies Data Sharing Design Pattern is not an exhaustive list of the currently available technologies. Instead, it provides a useful **reference point** to talk about the **types of technologies that exist** at VA (as of February 2014), which can be leveraged to meet the goals of the SOA VistA Design Patterns.

Future updates to the increment will again focus on the technologies that can be used to provide SOA capabilities at the VA.

