

# SIF 2 Enabled Application Product Standard

Copyright © 2003-2009 SIF Association, All Rights Reserved

## NAME

SIF 2 Enabled Application

## LABEL FOR LOGO

SIF 2 Enabled Application

## DESCRIPTION

The SIF 2 Enabled Application Product Standard defines the requirements for an application to be considered conformant to the SIF Implementation Specification (*see below*). The following definitions are used in this document:

- The *SIF Implementation Specification* is one of any release of the Schools Interoperability Framework Implementation Specification in the 2.x major release cycle for which a sanctioned test suite is provided for use in certification, supplemented by any *Interpretations* applicable to this particular version and revision of the Specification. For a description of *Interpretations*, *see* Section 9 of the Schools Interoperability Framework Certification Policy.
- A *SIF-enabled Application* is a software product or service that communicates with a SIF Zone Integration Server (*see below*). *See* Section 3.3 of the SIF Implementation Specification.
- A *SIF Zone Integration Server (ZIS)* manages SIF-enabled Applications within a logical entity known as a *Zone*. *See* Section 3.3 of the SIF Implementation Specification.
- *TLS* is version 1.0 of the Transport Layer Security protocol, as specified in IETF RFC 2246.
- *SSL3* is version 3.0 of the Secure Sockets Layer protocol, as specified in the IETF Internet Draft The SSL Protocol Version 3.0. For a discussion of TLS backward compatibility with SSL3, *see* Appendix E to IETF RFC 2246.
- *SSL2* is version 2.0 of the Secure Sockets Layer protocol, as specified in the Netscape Draft RFC The SSL Protocol. For a discussion of TLS backward compatibility with SSL2, *see* Appendix E to IETF RFC 2246.
- *HTTP* is version 1.1 of the Hypertext Transport Protocol, as specified in IETF RFC 2616.
- The *SIF HTTPS Protocol* defines a transport protocol that combines a subset of HTTP with TLS, SSL3 and/or a limited subset of SSL2. *See* Section 3.3.7 of the SIF Implementation Specification.
- *XML* is version 1.0, Third Edition, of the Extensible Markup Language, as specified in the W3C Recommendation of 4 February 2004.
- The *SIF Messaging Protocols* define the sequencing and processing of SIF messages. *See* Section 4 of the SIF Implementation Specification.
- The *SIF Message Specification* defines an XML Schema (XSD) for messages exchanged between a SIF ZIS and a SIF-enabled Application. *See* Section 5 of the SIF Implementation Specification.
- The *SIF Data Model* defines an XML Schema (XSD) for data exchanged between a SIF ZIS and a SIF-enabled Application. *See* Section 6 of the SIF Implementation Specification.
- A GUID is a Globally Unique Identifier (also known as a UUID or Universally Unique Identifier), as

specified in the IETF RFC 4122.

## **CONFORMANCE REQUIREMENTS**

The conformance requirements of the SIF 2 Enabled Application Product Standard for a SIF-enabled Application are derived from the SIF Implementation Specification. A SIF-enabled Application must demonstrate that it can:

- Register with the ZIS and, if applicable, request data objects via the ZIS using version 2.\* or equivalent (\*).
- Encrypt, transport, and authenticate encapsulated SIF messages in a manner that conforms with the SIF HTTPS protocol.
- Exchange messages that are uniquely identified by a GUID and sequenced and processed in a manner that conforms with the SIF Message Handling Protocols.
- Produce messages that conform to the data definitions of the SIF Message Specification in the one SIF Implementation Specification version referenced by the test suite. Required and mandatory elements must be supported; optional and conditional elements may be supported at the discretion of the implementer.
- Produce messages containing data objects that conform to the SIF Data Model in the one SIF Implementation Specification version referenced by the test suite. Required and mandatory elements must be supported; optional and conditional elements may be supported at the discretion of the implementer.
- Receive/process messages that conform to the data definitions of the SIF Message Specification in any SIF Implementation Specification version in the 2.x major release cycle.
- Receive/process messages containing data objects that conform to the data definitions of the SIF Message Specification in any SIF Implementation Specification version in the 2.x major release cycle.

There are no requirements placed upon a SIF-enabled Application that constrain the way that the conformance requirements are met, and in particular there are no requirements concerning how any software components are integrated together to constitute a conforming product or service.

## **OPERATIONAL ENVIRONMENT**

None.

## **PORTABILITY ENVIRONMENT**

None.

## **OVERRIDING STANDARDS**

None.

## **INDICATORS OF CONFORMANCE**

A test report from a currently approved formal release of the SIF 2 Enabled Application Test Suite is required. The Test Suites will be hosted on the SIF Association's web server and accessed over the Internet.

## **MIGRATION**

There are no migration issues from prior versions of this Product Standard.

---

*Copyright © 2003-2009 SIF Association, All Rights Reserved  
Issue 2 - October 2009*

---

***Revision History:***

<b>Issue</b>	<b>Date</b>	<b>Change History</b>
1	December 2007	First release of the SIF 2 Enabled Application Product Standard.
2	October 2009	Removed hyperlinks to SSL Protocol documents as they were obsolete. The requirements for certification remain unchanged.