

SIF-enabled Application 1.5

Product Standard

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NAME

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LABEL FOR LOGO

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DESCRIPTION

The SIF-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 the Schools Interoperability Framework Implementation Specification, Version 1.5r1, 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 3.4.4 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 3.4.5 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 3.6 of the SIF Implementation Specification.
- *XML* is version 1.0, Second Edition, of the Extensible Markup Language, as specified in the W3C Recommendation of 6 October 2000.
- The *SIF Message Handling Protocols* define the sequencing and processing of SIF messages. *See* Section 3.5 of the SIF Implementation Specification.
- The *SIF Message Specification* defines an XML Document Type Definition (DTD) for messages exchanged between a SIF ZIS and a SIF-enabled Application. *See* Section 4 of the SIF Implementation Specification.
- The *SIF Data Model* defines an XML Document Type Definition (DTD) for data exchanged between a SIF ZIS and a SIF-enabled Application. *See* Section 5 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 for a SIF-enabled Application are derived from the SIF Implementation Specification. A SIF-enabled Application must demonstrate that it can:

- Encrypt, transport, and authenticate encapsulated SIF data objects 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.
- Exchange messages that conform to the data definitions of the SIF Message Specification. Required and mandatory elements must be supported; optional and conditional elements may be supported at the discretion of the implementer.
- Exchange messages containing data objects that conform to the SIF Data Model and that, with the exception of Common Elements (*see* Section 5.1 of the SIF Implementation Specification), are uniquely identified by a GUID. Required and mandatory elements must be supported; optional and conditional elements may be supported at the discretion of the implementer.

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-enabled Application Test Suite is required. The Test Suite 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.

Products certified against this Product Standard after the release of this issue must use the latest version of the SIF Certification Logo with the label specified above.

Revision History:

Issue	Date	Change History
1	August 30, 2004	First release of the SIF-enabled Application 1.5 Product Standard
2	December 2007	Revised label to be used with SIF Certification Logo. SIFA has a new SIF Certification Logo that now has a text label under the logo image for specification of the product standard, rather than just version information embedded within the image itself.
3	October 2009	<ul style="list-style-type: none">- Removed hyperlinks to SSL Protocol documents as they were obsolete. The requirements for certification remain unchanged.- Revised reference for GUID. Previously was "the IETF Internet Draft, A UUID URN Namespace, based on the earlier IETF Internet Draft, UUIDs and GUIDs" but the IETF Internet Draft has expired and has been superceded by IETF RFC 4122.