

SAMLv2.0 HTTP POST "SimpleSign" Binding Version 1.0

4 Committee Draft 04

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36 37 http://docs.oasis-open.org/security/saml/Post2.0/sstc-saml-binding-simplesign-cd-04.html http://docs.oasis-open.org/security/saml/Post2.0/sstc-saml-binding-simplesign-cd-04.odt

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This specification is an addition to the bindings described in the SAML V2.0 Bindings specification [SAMLBind].

Abstract:

This specification defines a SAML HTTP protocol binding, specifically using the HTTP POST method, and not using XML Digital Signature for SAML message data origination authentication. Rather, a "sign the BLOB" technique is employed wherein a conveyed SAML message is treated as a simple octet string if it is signed. Conveyed SAML assertions may be individually signed using XMLdsig. Security is optional in this binding.

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1 Introduction

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- 117 This specification defines a SAML HTTP protocol binding, specifically using the HTTP POST method, and
- which specifically does not use XML Digital Signature [XMLSig] for SAML message data origination
- authentication. Rather, a "sign the BLOB" technique is employed wherein a conveyed SAML message,
- along with any content (e.g. SAML assertion(s)), is treated as a simple octet string if it is signed.
- Additionally, it is out of the scope of this specification whether or not conveyed SAML assertions are
- authenticated via XML Digital Signature. Security is optional in this binding.
- 123 The next subsection gives a general overview of SAML Protocol Binding concepts, followed by notation
- and namespace declarations. The binding itself is defined in Section 2.

1.1 Protocol Binding Concepts

- Mappings of SAML request-response message exchanges onto standard messaging or communication
- protocols are called SAML protocol bindings (or just bindings). An instance of mapping SAML request-
- response message exchanges into a specific communication protocol <FOO> is termed a <FOO> binding
- 129 for SAML or a SAML <FOO> binding.
- 130 For example, a SAML SOAP binding describes how SAML request and response message exchanges
- are mapped into SOAP message exchanges.
- The intent of this specification is to specify the given binding in sufficient detail to ensure that
- independently implemented SAML-conforming software can interoperate when using standard messaging
- or communication protocols.
- Unless otherwise specified, this binding should be understood to support the transmission of any SAML
- protocol message derived from the samlp:RequestAbstractType and samlp:StatusResponseType
- types. Further, when this binding refers to "SAML requests and responses", it should be understood to
- mean any protocol messages derived from those types.
- 139 For other terms and concepts that are specific to SAML, refer to the SAML glossary [SAMLGloss].

1.2 Notation

- The key words "MUST", "MUST NOT", "REQUIRED", "SHALL", "SHALL NOT", "SHOULD", "SHOULD
- NOT", "RECOMMENDED", "MAY", and "OPTIONAL" in this specification are to be interpreted as
- described in IETF RFC 2119 [RFC2119].
- 144 Listings of productions or other normative code appear like this.

Example code listings appear like this.

Note: Notes like this are sometimes used to highlight non-normative commentary.

148 Conventional XML namespace prefixes are used throughout this specification to stand for their respective 149 namespaces as follows, whether or not a namespace declaration is present in the example:

Prefix	XML Namespace	Comments
saml:	urn:oasis:names:tc:SAML:2.0:assertion	This is the SAML V2.0 assertion namespace [SAMLCore].
samlp:	urn:oasis:names:tc:SAML:2.0:protocol	This is the SAML V2.0 protocol namespace [SAMLCore].

Prefix	XML Namespace	Comments
SOAP-ENV:	http://schemas.xmlsoap.org/soap/envelope	This namespace is defined in SOAP V1.1 [SOAP11].

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This specification uses the following typographical conventions in text: <ns:Element>, XMLAttribute,

Datatype, OtherKeyword. In some cases, angle brackets are used to indicate non-terminals, rather than

XML elements; the intent will be clear from the context.

1.3 Normative References

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188 189	[SSL3]	A. Frier et al. <i>The SSL 3.0 Protocol</i> . Netscape Communications Corp, November 1996.
190 191	[SSTCWeb]	OASIS Security Services Technical Committee website, http://www.oasis-open.org/committees/security.
192 193 194	[XHTML]	XHTML 1.0 The Extensible HyperText Markup Language (Second Edition). World Wide Web Consortium Recommendation, August 2002. See http://www.w3.org/TR/xhtml1/ .

195 **[XMLSig]** D. Eastlake et al. *XML-Signature Syntax and Processing*. World Wide Web
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197 http://www.w3.org/TR/xmldsig-core/.

1.4 Conformance

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1.4.1 HTTP POST-SimpleSign Binding

200 An implementation shall be considered conforming if it conforms to all normative requirements of section 201 2.

2 HTTP POST-SimpleSign Binding

- 203 The HTTP POST binding, defined in [SAMLBind], defines a mechanism by which SAML protocol
- 204 messages may be transmitted within the base64-encoded content of an HTML form control. When using
- that binding, SAML protocol messages and/or SAML assertions are signed using [XMLSig], which is an
- 206 XML-aware, XML-based, invasive digital signature paradigm necessitating canonicalization of the
- 207 signature target.

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- 208 This document specifies an alternative HTTP POST-based binding where the conveyed SAML protocol
- 209 messages including their content, i.e. any conveyed SAML assertions are signed as simple "BLOBs"
- 210 ("Binary Large Objects", aka binary octet strings).
- Note that this binding defines the conveyance of an individual SAML request or response message via
- 212 HTTP POST. Thus this binding MAY be composed with the HTTP Redirect binding (see Section 3.4 of
- [SAMLBind]) or the HTTP Artifact binding (see Section 3.6 of [SAMLBind] to transmit request and
- 214 response messages in an overall SAML protocol exchange, the definition of which is termed a "SAML
- 215 Profile" [SAMLProf], using two different bindings.

2.1 Required Information

- 217 Identification: urn:oasis:names:tc:SAML:2.0:bindings:HTTP-POST-SimpleSign
- 218 Contact information: security-services-comment@lists.oasis-open.org
- 219 **Description:** Given below.
- 220 **Updates:** None. Rather, it provides an <u>alternative</u> to the HTTP POST Binding defined in [SAMLBind]

221 2.2 Overview

- 222 The HTTP POST-SimpleSign binding is intended for cases in which the SAML requester or responder
- need to communicate using an HTTP user agent (as defined in HTTP 1.1 [RFC2616] as an intermediary,
- and when data origination authentication and integrity protection of the SAML message is not required, or
- when a lighter-weight signature mechanism (as compared to [XMLSig] is appropriate. This may be
- 226 necessary, for example, if the communicating parties do not share a direct path of communication. It may
- 227 also be needed if the responder requires an interaction with the user agent in order to fulfill the request,
- such as when the user agent must authenticate to it.
- Note that some HTTP user agents may have the capacity to play a more active role in the protocol
- exchange and may support other bindings that use HTTP, such as the SOAP and Reverse SOAP
- 231 bindings. This binding does not require such capabilities—it assumes nothing apart from the capabilities
- 232 of a common web browser.

2.3 Relay State

- 234 RelayState data MAY be included with a SAML protocol message transmitted with this binding. The value
- 235 MUST NOT exceed 80 bytes in length and SHOULD be integrity protected by the entity creating the
- 236 message, either via a digital signature (see section 2.5) or by some independent means.
- 237 If a SAML request message is accompanied by RelayState data, then the SAML responder MUST return
- 238 its SAML protocol response message using a binding that also supports a RelayState mechanism, and it
- 239 MUST place the exact data it received with the request into the corresponding RelayState parameter in
- the response message.

- 241 If no such value is included with a SAML request message, or if the SAML response message is being
- 242 generated without a corresponding request, then the SAML responder MAY include RelayState data to be
- interpreted by the recipient based on the use of a profile or prior agreement between the parties.

2.4 Message Encoding and Conveyance

- This section describes how to encode a SAML protocol message, and thus any SAML assertion(s) it may contain, into HTML FORM "control(s)" [HTML401] (Section 17), thus enabling the SAML protocol
- 247 message to be conveyed via the HTTP POST method.
- 248 A SAML protocol message is form-encoded by:
 - 1. Applying the base-64 encoding rules to the XML representation of the message. The resulting base64-encoded value MAY be line-wrapped at a reasonable length in accordance with common practice.
 - 2. Encoding the result from the prior step into a "form data set", in the same fashion as is specified for "successful controls" in [HTML401] (Section 17.13.3), as a form "control value". The HTML document also MUST adhere to the XHTML specification, [XHTML].
 - a. If the SAML protocol message is a SAML request, then the form "control name" used to convey the SAML protocol message itself MUST be SAMLRequest.
 - b. If the SAML protocol message is a SAML response, then the form "control name" used to convey the SAML protocol message itself MUST be SAMLResponse.
 - c. Any additional form controls or presentation, other than those noted below for including a signature, MAY be included but MUST NOT be required in order for the recipient to nominally process the SAML protocol message itself.
- SAML protocol messages, and any SAML assertions contained within the SAML protocol messages,
 MAY be signed using [XMLSig], and if so, any such signatures MUST remain intact. Additionally, SAML
 protocol messages MAY be signed using the technique given below in section 2.5. This technique is
 referred to as the "SimpleSign technique". The SimpleSign signature value is conveyed in a form control
 value named Signature, and the signature algorithm is conveyed in a form control value named
 SigAlg. These form control values are included in the form data set constructed in step 2 above.
- 268 If the SAML protocol message is signed using SimpleSign, the Destination XML attribute in the root
- SAML element of the SAML protocol message MUST contain the URL to which the sender has instructed
- 270 the user agent to deliver the message. The recipient MUST then verify that the value matches the location
- at which the SAML protocol message has been received. Also, the signer's certificate or other keying
- information MAY be included in a form control named KeyInfo. This form control, if present, MUST
- 273 contain a base-64 encoded <ds: KeyInfo> element [XMLSiq] (base-64 encoding is done as in step 1.
- 274 above).

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- 275 If a "RelayState" value is to accompany the SAML protocol message, it MUST be in a form control named
- 276 RelayState, and included in the form data set constructed in step 2 above, and also included in any
- 277 signed content if the message is signed.
- 278 The action attribute of the form MUST be the recipient's HTTP endpoint for the protocol or profile using
- 279 this binding to which the SAML protocol message is to be delivered. The method attribute MUST be
- 280 "POST". The enctype attribute specifies the form content type and MUST be application/x-www-
- 281 form-urlencoded.
- All of the above form attributes and form controls, to which values are assigned per the above discussion,
- 283 comprise the form data set. The form data set is then encoded into an HTTP response message-body
- as a <FORM> element. The HTTP response message is then sent to the user agent.
- Any technique supported by the user agent MAY be used to cause the submission of the form (to cause it
- to be conveyed to the SAML protocol message recipient), and any form content necessary to support this

- 287 MAY be included, such as submit controls and client-side scripting commands. However, the recipient
- MUST be able to process the message without regard for the mechanism by which the form submission is
- 289 initiated.

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- Note that any form control values included MUST be transformed so as to be safe to include in the
- 291 XHTML document. This includes transforming characters such as quotes into HTML entities, etc.
- 292 [HTML401][XHTML]

2.5 SimpleSign Signature

294 To construct a signature of a SAML message conveyed by this binding:

- 1. The signature algorithm used MUST be identified by a URI, specified according to [XMLSig] or whatever specification governs the algorithm. The following signature algorithms (see [XMLSig]) and their URI representations MUST be supported with this encoding mechanism:
 - DSAwithSHA1 http://www.w3.org/2000/09/xmldsig#dsa-sha1
 - RSAwithSHA1 http://www.w3.org/2000/09/xmldsig#rsa-sha1
- 2. A string consisting of the concatenation of the raw, unencoded XML making up the SAML protocol message (NOT the base64-encoded version), the RelayState value (if present), and the SigAlg value, is constructed in one of the following ways (each individually ordered as shown):

```
SAMLRequest=value&RelayState=value&SigAlg=value
SAMLResponse=value&RelayState=value&SigAlg=value
```

Note that if there is no RelayState value, the entire parameter should be omitted from the signature computation (and not included as an empty parameter name), resulting in a string of one of these forms:

```
SAMLRequest=value&SigAlg=value
SAMLResponse=value&SigAlg=value
```

- 3. The resultant octet string is fed into the signature algorithm.
- 4. The value yielded by the signature algorithm is base64 encoded (see [RFC2045]), and used as the value for the Signature form control as discussed in section 2.4, above.

Note that this is subtly different from the signature approach defined by the HTTP-Redirect binding [SAMLBind]. Experimentation shows that many web browsers alter linefeeds when submitting form controls that span multiple lines. Since base64-encoded data often wraps, it is not possible to guarantee that the values submitted will match what the original signer produced, resulting in verification failures. Using the raw XML content as a component of the octet string addresses this issue.

The original XML MUST be concatenated with the other information as shown above without regard for any embedded whitespace, even if the result spans multiple lines. The specific whitespace characters present will be safely encoded in base64 and then recovered by the relying party for use in verifying the

326 signature.

2.6 SimpleSign Signature Verification

To verify a received SAML protocol message, which was signed using SimpleSign and conveyed by this binding, the receiver MUST extract the form control values for the RelayState (if present), SigAlg, and SAMLRequest (or SAMLResponse) values (as appropriate) from the received HTTP message. Then the receiver reconstructs the string as described in section 2.5 step 2, above. The signature value conveyed in the Signature control value is then checked against this string per the signature algorithm given by the SigAlg control value, and using (as appropriate, see [XMLSig]) the keying material obtained via the

2.7 Message Exchange

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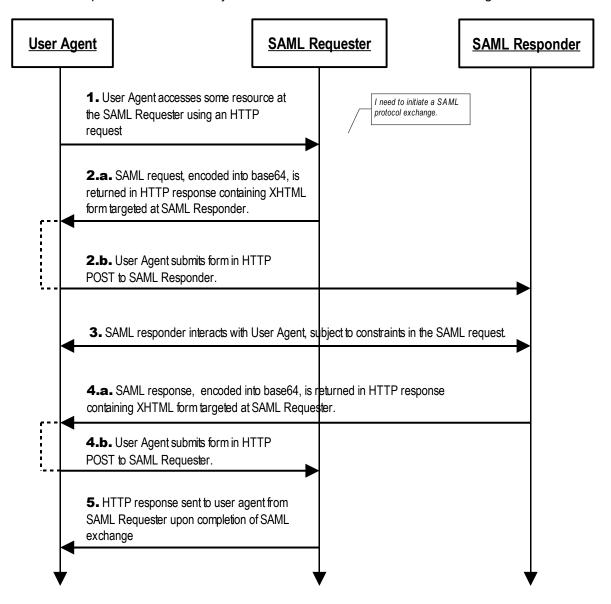
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The system model used for SAML conversations via this binding is a request-response model. However, a SAML request message is sent to the user agent via an HTTP response message, and subsequently delivered to the SAML responder via an HTTP request message issued by the user agent. Any HTTP interactions before, between, and after the foregoing exchanges take place is unspecified. Both the SAML requester and responder are assumed to be HTTP responders. See the following diagram illustrating the messages exchanged. Note that although the diagram illustrates both the SAML request and the SAML response being conveyed via the HTTP POST-SimpleSign binding, one or the other of the SAML request or the SAML response could be conveyed via a different SAML HTTP-based binding.



- 1. Initially, the user agent makes an arbitrary HTTP request to a system entity. In the course of processing the request, the system entity decides to initiate a SAML protocol exchange.
 - (a) The system entity acting as a SAML requester responds to an HTTP request from the user agent by returning a SAML request. The request is returned in an XHTML document containing the form and content defined in Section 2.4, above. (b) The user agent delivers the SAML request by issuing an HTTP POST request to the SAML responder.
 - 3. In general, the SAML responder MAY respond to the SAML request by immediately returning a SAML response or it MAY return arbitrary content to facilitate subsequent interaction with the user agent necessary to fulfill the request. Specific protocols and profiles may include mechanisms to indicate the requester's level of willingness to permit this kind of interaction (for example, the IsPassive attribute in <samlp: AuthnRequest> [SAMLCore].
 - 4. Eventually the responder SHOULD (a) return a SAML response to the user agent to be (b) returned to the SAML requester. The SAML response is returned in the same fashion as described for the SAML request in step 2, if this or a similar binding is employed for this step. Otherwise, details may vary.
- 5. Upon receiving the SAML response, the SAML requester returns an arbitrary HTTP response to the user agent.

2.7.1 HTTP and Caching Considerations

- HTTP proxies and the user agent intermediary should not cache SAML protocol messages. To ensure this, the following rules SHOULD be followed.
- 365 When returning SAML protocol messages using HTTP 1.1, HTTP responders SHOULD:
 - Include a Cache-Control header field set to "no-cache, no-store".
- Include a Pragma header field set to "no-cache".
- There are no other restrictions on the use of HTTP headers.

2.7.2 Security Considerations

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- 370 The presence of the user agent intermediary means that the requester and responder cannot rely on the
- transport layer for endpoint-to-endpoint (i.e. SAML Requester to/from SAML Responder) authentication,
- integrity or confidentiality protection. This binding defines the SimpleSign approach as a means for
- 373 signing the conveyed SAML protocol messages and optional RelayState in order to provide endpoint-
- to-endpoint integrity protection and data origin authentication.
- 375 This binding SHOULD NOT be used if the content of the request or response should not be exposed to
- the user agent intermediary. Otherwise, confidentiality of both SAML requests and SAML responses is
- 377 OPTIONAL and depends on the environment of use. If on-the-wire confidentiality is necessary, SSL 3.0
- 378 [SSL3]or TLS 1.0 [RFC2246] SHOULD be used to protect the overall HTTP messages, and the conveyed
- SAML protocol messages, in transit between the user agent and the SAML requester and responder.
- In general, this binding relies on message-level authentication and integrity protection via signing and does not support confidentiality of messages from the user agent intermediary.
 - **NOTE:** Cryptographically-based security is entirely OPTIONAL in this binding. If no security mechanisms are employed, then there is essentially no runtime assurance as to the identity of any of the communicating entities.
- If the SAML protocol messages are signed (using the SimpleSign approach or [XMLSig]) then the

 Destination XML attribute in the root SAML element of the SAML protocol message MUST contain the

 URL to which the sender has instructed the user agent to deliver the message. The recipient MUST then

- verify that the value matches the location at which the message has been received.
- Note also that the SimpleSign technique, if employed, binds the RelayState value (if present) to the SAML
- protocol message, unlike the [XMLSig]-based technique of the HTTP POST binding [SAMLBind]. Thus, if
- a SAML protocol message is not signed using SimpleSign, but is signed using the [XMLSig]-based
- technique, then the caveats with respect to any conveyed RelayState value, presented in section 3.5.5.2
- of [SAMLBind], should be taken into account.

2.8 Error Reporting

- 395 A SAML responder that refuses to perform a message exchange with the SAML requester SHOULD
- 396 return a response message with a second-level <samlp:StatusCode> value of
- 397 urn:oasis:names:tc:SAML:2.0:status:RequestDenied.
- 398 HTTP interactions during the message exchange MUST NOT use HTTP error status codes to indicate
- failures in SAML processing, since the user agent is not a full party to the SAML protocol exchange.
- 400 For more information about SAML status codes, see the SAML assertions and protocols specification
- 401 [SAMLCore]

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2.9 Metadata Considerations

- 403 Support for the HTTP POST-SimpleSign binding SHOULD be reflected by indicating URL endpoints at
- which requests and responses for a particular protocol or profile should be sent. Either a single endpoint
- or distinct request and response endpoints MAY be supplied [SAMLMeta]. The identification URI given in
- section 2.1 is used as the value for the Binding attribute of any endpoint elements.

2.10 Note to Implementors

- 408 SAML protocol message recipients can distinguish between HTTP-SAML messages constructed via this
- specification's HTTP POST-SimpleSign binding and ones constructed via the HTTP POST binding
- 410 [SAMLBind] by examining received HTTP messages for an XHTML form field with a name attribute value
- of Signature. If this is present, then the message MUST be processed in accordance with this
- 412 specification. If not present, then the HTTP message MAY be processed in accordance with the HTTP
- 413 POST binding specification.

2.11 Example

- 415 In this example, a <LogoutRequest> and <LogoutResponse> message pair is exchanged using the
- 416 HTTP POST-SimpleSign binding. The messages are signed as described in section 2.5, above. If the
- 417 messages were unsigned, they would be the same as shown below, except that the hidden form controls
- 418 named Signature and SigAlg would be missing.
 - First, here are the actual SAML protocol messages being exchanged:

```
420
            <samlp:LoqoutRequest xmlns:samlp="urn:oasis:names:tc:SAML:2.0:protocol"</pre>
421
            xmlns="urn:oasis:names:tc:SAML:2.0:assertion"
422
                ID="d2b7c388cec36fa7c39c28fd298644a8" IssueInstant="2004-01-
423
            21T19:00:49Z" Version="2.0">
                <Issuer>https://IdentityProvider.com/SAML</Issuer>
424
                <NameID Format="urn:oasis:names:tc:SAML:2.0:nameid-</pre>
425
            format:persistent">005a06e0-ad82-110d-a556-004005b13a2b</NameID>
426
                <samlp:SessionIndex>1</samlp:SessionIndex>
427
428
            </samlp:LogoutRequest>
429
```

```
432
                ID="b0730d21b628110d8b7e004005b13a2b"
433
            InResponseTo="d2b7c388cec36fa7c39c28fd298644a8"
434
                IssueInstant="2004-01-21T19:00:49Z" Version="2.0">
435
                <Issuer>https://ServiceProvider.com/SAML</Issuer>
436
                <samlp:Status>
437
                    <samlp:StatusCode</pre>
438
            Value="urn:oasis:names:tc:SAML:2.0:status:Success"/>
439
                </samlp:Status>
440
            </samlp:LogoutResponse>
441
```

The initial HTTP request from the user agent in step 1 is not defined by this binding. To initiate the logout protocol exchange, the SAML requester returns the following HTTP response, containing a SAML request message. The SAMLRequest parameter value is actually derived from the request message above.

```
HTTP/1.1 200 OK
445
            Date: 21 Jan 2004 07:00:49 GMT
446
447
            Content-Type: text/html; charset=iso-8859-1
448
            <?xml version="1.0" encoding="UTF-8"?>
449
            <!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.1//EN"</pre>
450
451
            "http://www.w3.org/TR/xhtml11/DTD/xhtml11.dtd">
452
            <html xmlns="http://www.w3.org/1999/xhtml" xml:lang="en">
            <body onload="document.forms[0].submit()">
453
454
455
            <noscript>
456
            >
457
            <strong>Note:</strong> Since your browser does not support JavaScript,
458
            you must press the Continue button once to proceed.
459
            460
            </noscript>
461
462
            <form action="http://ServiceProvider.com/SAML/SLO/Browser" method="post">
463
            <div>
464
            <input type="hidden" name="RelayState"</pre>
465
            value="0043bfc1bc45110dae17004005b13a2b"/>
466
            <input type="hidden" name="SAMLRequest"</pre>
            value="PHNhbWxwOkxvZ291dFJlcXVlc3QgeG1sbnM6c2FtbHA9InVybjpvYXNpczpuYW11
467
468
            czp0YzpTQU1M0jIuMDpwcm90b2NvbCIqeG1sbnM9InVybjpvYXNpczpuYW1lczp0
469
            YzpTQU1MOjIuMDphc3N1cnRpb24iCiAqICBJRD0iZDJiN2MzODhjZWMzNmZhN2Mz
470
            OWMyOGZkMjk4NjQ0YTqiIElzc3VlSW5zdGFudD0iMjAwNC0wMS0yMVQxOTowMDo0
            OVoiIFZlcnNpb249IjIuMCI+CiAgICA8SXNzdWVyPmh0dHBz0i8vSWRlbnRpdHlQ
471
472
            cm92aWRlci5jb20vU0FNTDwvSXNzdWVyPqoqICAqPE5hbWVJRCBGb3JtYXQ9InVy
473
            bjpvYXNpczpuYW11czp0YzpTQU1MOjIuMDpuYW11aWQtZm9ybWF0OnBlcnNpc3Rl
474
            bnQiPjAwNWEwNmUwLWFkODItMTEwZC1hNTU2LTAwNDAwNWIxM2EyYjwvTmFtZU1E
475
            PqoqICAqPHNhbWxwOlNlc3Npb25JbmRleD4xPC9zYW1scDpTZXNzaW9uSW5kZXq+
            Cjwvc2FtbHA6TG9nb3V0UmVxdWVzdD4K"/>
476
            <input type="hidden" name="Signature"</pre>
477
478
            value="J4if7CCeHVfn4H6hMZN5fij0jQIyZ/laoFUZWz4LCRN3J82UeoyYvAiTDoQOUZHT
479
            RJNU11WGub1pW4OR9MH5bwfLEa8XDivA118dR0O7YN5L/U5rmbxnGl09pV0jT44c
480
            RNeqtbLW0YF4plfcqq7E5iOSljE3QLkiaAdkAec2a4HwPFkn/JP7w011Mc6kU8ML
481
            CBbZAa3+94ZvVwHBEdyCdU+1yEvf+JGxTw66BwI2ugmPfxvoJdsOOAWwS3KhAFhL
482
            LSPXnhb3nd/ovKNNV/khZYwqsFTFNTMA+0JraKsZiCRtEZzEPXaP9KilrjPIIvRV
            xDQhETj96flk5zMkEM3ruw=="/>
483
            <input type="hidden" name="SigAlg"</pre>
484
            value="http://www.w3.org/2000/09/xmldsig#rsa-sha1"/>
485
486
            </div>
            <noscript>
487
488
            <div>
489
            <input type="submit" value="Continue"/>
490
            </div>
491
            </noscript>
492
            </form>
493
            </body>
```

442

443

```
494 </html>
495
```

496

497 498 After any unspecified interactions may have taken place, the SAML responder returns the HTTP response below containing the SAML response message. Again, the SAMLResponse parameter value is actually derived from the response message above.

```
499
            HTTP/1.1 200 OK
500
            Date: 21 Jan 2004 07:00:49 GMT
501
            Content-Type: text/html; charset=iso-8859-1
502
            <?xml version="1.0" encoding="UTF-8"?>
503
            <!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.1//EN"</pre>
504
505
            "http://www.w3.org/TR/xhtml11/DTD/xhtml11.dtd">
506
            <html xmlns="http://www.w3.org/1999/xhtml" xml:lang="en">
507
            <body onload="document.forms[0].submit()">
508
509
            <noscript>
510
511
            <strong>Note:</strong> Since your browser does not support JavaScript,
512
            you must press the Continue button once to proceed.
513
            514
            </noscript>
515
516
            <form action="https://IdentityProvider.com/SAML/SLO/Response"</pre>
517
            method="post">
518
            <div>
519
            <input type="hidden" name="RelayState"</pre>
520
            value="0043bfc1bc45110dae17004005b13a2b"/>
            <input type="hidden" name="SAMLResponse"</pre>
521
522
            value="PHNhbWxwOkxvZ291dFJlcXVlc3QgeG1sbnM6c2FtbHA9InVybjpvYXNpczpuYW11
523
            czp0YzpTQU1M0jIuMDpwcm90b2NvbCIgeG1sbnM9InVybjpvYXNpczpuYW11czp0
524
            YzpTQU1MOjIuMDphc3N1cnRpb24iCiAqICBJRD0iZDJiN2MzODhjZWMzNmZhN2Mz
525
            OWMyOGZkMjk4NjQ0YTgiIElzc3VlSW5zdGFudD0iMjAwNC0wMS0yMVQxOTowMDo0
526
            OVoiIFZlcnNpb249IjIuMCI+CiAgICA8SXNzdWVyPmh0dHBzOi8vSWRlbnRpdHlQ
527
            cm92aWR1ci5jb20vU0FNTDwvSXNzdWVyPqoqICAqPE5hbWVJRCBGb3JtYXQ9InVy
            bjpvYXNpczpuYW11czp0YzpTQU1MOjIuMDpuYW11aWQtZm9ybWF0OnBlcnNpc3R1
528
529
            bnQiPjAwNWEwNmUwLWFkODItMTEwZC1hNTU2LTAwNDAwNWIxM2EyYjwvTmFtZU1E
530
            PgogICAgPHNhbWxwOlN1c3Npb25JbmRleD4xPC9zYW1scDpTZXNzaW9uSW5kZXg+
            Cjwvc2FtbHA6TG9nb3V0UmVxdWVzdD4K"/>
531
532
            <input type="hidden" name="Signature"</pre>
            value="DCDqAwIDqSwyXGvG2cYvNjmj7P1kt0+kbCfRjq9gGTrN4KKPxvQl5EsFrWRkMOdx
533
534
            xuwPldWPKvfqX6rt+pKwLqCt1TqRj+71y+VdGS80RsBeEIURRn9wSu+pKsWiHexw
535
            KnIe65bjONbq2db44QOWZ1De76fLi05Psy/7HZTQuMoDRFYSR//VyNGHQmf9Sxi6
536
            mkmrYMXPOyZAUfNhX4eLaXFfwCHt0yRrEcm/PAEDDa7uqe8Uo5ilstgXDWDodWdk
537
            Szk8ZS1irjFkvtxH7FJlm9ADtlW/SoX92jGjMIrdQwCyArI6o8KTiDp/cjDjHZGi
            XLx2WvS7GEibA7Qd+5hSBQ=="/>
538
539
            <input type="hidden" name="SigAlg"</pre>
            value="http://www.w3.org/2000/09/xmldsig#rsa-sha1"/>
540
541
            </div>
542
            <noscript>
543
            <div>
544
            <input type="submit" value="Continue"/>
545
            </div>
            </noscript>
546
547
            </form>
548
            </body>
549
            </html>
```

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