Configuring a SAML Application with Apple IdMS

What does Apple IdMS support?

- SAML 2.0
 - For Mac and iOS client apps, SAML is supported via an embedded web view for Safari or Chrome.
- SP-Initiated POST-POST binding
- · IdP-Initiated POST-POST binding
- Apple IdMS support attributes: FirstName, LastName, email, UniqueID (40 character alphanumeric User ID)

Apple IdMS Metadata

- SAML Testing Environment (UAT) Metadata
 - Entity ID: https://idmsa.apple.com/IDMSWebAuth/SAMLLogin
 - IdP Endpoint: https://idmsac-uat.corp.apple.com/IDMSWebAuth/SAMLLogin
 - IdP Signing Certificate: Refer to the 'SAML Corp Metadata for UAT (Single Cert)' metadata at the end of the file
- SAML Production Environment Metadata
 - Entity ID: https://idmsa.apple.com/IDMSWebAuth/SAMLLogin
 - IdP Endpoint: https://idmsac.corp.apple.com/IDMSWebAuth/SAMLLogin
 - IdP Signing Certificate: Refer to the 'SAML Corp Metadata for Prod (Single Cert)' metadata at the end of the file

Sample Service Provider Metadata

The following data are required from the service provider to configure a SAML integration in the Apple IdMS portal:

- Entity ID: A unique ID for the Service Provider.
- Post back URL: The URL(s) which belong to the Service Provider, where the SAML response will be sent.
- Encryption Certificate: SP certificate used to encrypt the SAML response, sent by the Apple IdP.
- Response attributes: Attributes required by the Service Provider to be sent in the SAML response.
- Authorization Groups: Application groups against which authorization check is done.

Sample SAML Request

Sample SAML Response

```
<samlp:Response xmlns:samlp="urn:oasis:names:tc:SAML:2.0:protocol"</pre>
                xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
                Destination="ABC"
                 ID="A473e2f75-7f2c-4c5c-9329-9cd0988557c0"
                InResponseTo="ABC"
IssueInstant="2019-06-24T17:21:45.000Z"
                Version="2.0"
    <saml:Issuer xmlns:saml="urn:oasis:names:tc:SAML:2.0:assertion"
Format="urn:oasis:names:tc:SAML:2.0:nameid-format:entity"</pre>
                  >AppleSSO</saml:Issuer>
    <Signature xmlns="http://www.w3.org/2000/09/xmldsig#">
            <canonicalizationMethod Algorithm="http://www.w3.org/TR/2001/REC-xml-c14n-20010315#WithComments" />
<SignatureMethod Algorithm="http://www.w3.org/2001/04/xmldsig-more#rsa-sha256" />
             <Reference URI="#A473e2f75-7f2c-4c5c-9329-9cd0988557c0">
                <Transforms>
                    <Transform Algorithm="http://www.w3.org/2000/09/xmldsig#enveloped-signature" />
                 </Transforms>
                <DigestMethod Algorithm="http://www.w3.org/2001/04/xmlenc#sha256" />
<DigestValue>yq90ZGtUhrnXagYNfT5rmFZeR8swTN87HzcCLiwz0M0=</DigestValue>
             </Reference>
        </SignedInfo>
         <SignatureValue>ABC</SignatureValue>
            <X509Data>
                <X509Certificate>ABC=</X509Certificate>
             </X509Data>
        </KeyInfo>
    </Signature>
    <samlp:Status xmlns:samlp="urn:oasis:names:tc:SAML:2.0:protocol">
        <samlp:StatusCode Value="urn:oasis:names:tc:SAML:2.0:status:Success" />
    <saml2:EncryptedAssertion xmlns:saml2="urn:oasis:names:tc:SAML:2.0:assertion">
        Type="http://www.w3.org/2001/04/xmlenc#Element"
            <xenc:EncryptionMethod xmlns:xenc="http://www.w3.org/2001/04/xmlenc#"</pre>
                                    Algorithm="http://www.w3.org/2001/04/xmlenc#aes128-cbc"
            </ds:KeyInfo>
            <xenc:CipherData xmlns:xenc="http://www.w3.org/2001/04/xmlenc#">
    <xenc:CipherValue>ABC</xenc:CipherValue>
            </xenc:CipherData>
        </xenc:EncryptedData>
        <xenc:EncryptionMethod xmlns:xenc="http://www.w3.org/2001/04/xmlenc#"</pre>
```

SAML Corp Metadata for UAT (Single Cert)

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
    <EntityDescriptor xmlns:xsi="https://www.w3.org/2001/XMLSchema-</pre>
instance" xmlns="urn:oasis:names:tc:SAML:2.0:metadata"
 entityID="https://idmsa.apple.com/IDMSWebAuth/SAMLLogin">
    <IDPSSODescriptor
        WantAuthnRequestsSigned="false"
protocolSupportEnumeration="urn:oasis:names:tc:SAML:2.0:protocol">
        <KeyDescriptor use="signing">
            <ds:KeyInfo xmlns:ds="http://www.w3.org/2000/09/xmldsig#">
                <ds:X509Data>
<ds:X509Certificate>MIIEA;CCAuggAwIBAgIIf7gScHunBiEwD0YJKoZIhvcNA0ELB0
AwqYUxOzA5BqNVBAMMMkFwcGxlIFNTTyBmb3IqO2FycmllciBSb290IENlcnRpZmljYXRp
b24g0XV0aG9yaXR5MS0wIgYDV00LDBtJU10g02VydGlmaWNhdGlvbiBBdXRob3JpdHkxEz
ARBgNVBAoMCkFwcGxlIEluYy4xCzAJBgNVBAYTAlVTMB4XDTIwMDgyMDIxNTQy0VoXDTIy
MDgyMDIxNTQy0VowVDEiMCAGA1UEAwwZc2FtbHNpZ251YXQyMDIwLmFwcGxlLmNvbTEMMA
oGA1UECwwDSVNUMRMwE0YDV00KDApBcHBsZSBJbmMuM0swC0YDV00GEwJVUzCCASIwD0YJ
KoZIhvcNAOEBBOADggEPADCCAOoCggEBAKm+Um6Y80IF2t9bjLgZ3tMBPdr406RnUH+nga
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rP+1pvGLPnvIb7NLaKs00sI+ZbCwznmSNDdIzLkP8he0tkIu6txh1mgC29mI3e1sRqyFjh
jSgBdqdI+fXrbnUQ9/YkanJzaykQaUIsigcobv/
eWL8hGeqhdqR6xDt0YUrRDfCqer4Tr5W5CUe4AAC4Fx0zMszajLxCyYUG1G62Tvjg27Eok
CAYBGkWix33Z4em8UCAwEAAaOBpTCBojAMBgNVHRMBAf8EAjAAMB8GA1UdIwQYMBaAFA3G
8apLIeyGqdLMPh2+MI4C3edrMEIGCCsGAOUFBwEBBDYwNDAyBqqrBqEFB0cwAYYmaHR0cD
ovL29jc3AuYXBwbGUuY29tL29jc3AwMy1zc29hdXRoMDEwHQYDVR00BBYEFKfIW0icJy73
ZCizpFSvPLJfoJH6MA4GA1UdDwEB/
wQEAwIHqDANBqkqhkiG9w0BAQsFAAOCAQEABv2hmdmfm7XbMUSrQRm8FyTN4k/
sne0ZzlsG+pM5fr8PnrLD+PoRZZFehT6cw9co1Kd98mv407kXal8c7p58W/
+J2rBplCrvBi9Nv10W4esTLTMA8o8ilVU5GxHNc1MsvBCdnzYKMcv9eatgov3Y2EYFiieR
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jOC3mUP/viE2mhOQS8QBrI+8VrsCUwUqPTDSQqzcnkFOVy4A7kRv/
JS3iv5fEwhSu6dNJF640JpJKpELtiKAv5Th198lzSkj9L0XJ5ilISwX5uC91BUg==</
ds:X509Certificate>
                </ds:X509Data>
            </ds:KeyInfo>
        </KeyDescriptor>
        <!-- Supported Name Identifier Formats -->
        <NameIDFormat>urn:oasis:names:tc:SAML:2.0:nameid-
format:transient</NameIDFormat>
        <!-- AuthenticationRequest Consumer endpoint -->
        <SingleSignOnService
            Binding="urn:oasis:names:tc:SAML:2.0:bindings:HTTP-POST"
            Location="https://idmsac-uat.corp.apple.com/IDMSWebAuth/
SAMLLogin?CertVersion=v2020"
```

SAML Corp Metadata for PROD (Single Cert)

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
    <EntityDescriptor xmlns:xsi="https://www.w3.org/2001/XMLSchema-</pre>
instance" xmlns="urn:oasis:names:tc:SAML:2.0:metadata"
 entityID="https://idmsa.apple.com/IDMSWebAuth/SAMLLogin">
    <IDPSSODescriptor
        WantAuthnRequestsSigned="false"
protocolSupportEnumeration="urn:oasis:names:tc:SAML:2.0:protocol">
        <KeyDescriptor use="signing">
            <ds:KeyInfo xmlns:ds="http://www.w3.org/2000/09/xmldsig#">
                <ds:X509Data>
<ds:X509Certificate>MIIEATCCAumgAwIBAqIIDSnyDHyWRA8wD0YJKoZIhvcNA0ELB0
AwgYUx0zA5BgNV
BAMMMkFwcGxlIFNTTyBmb3Iq02FycmllciBSb290IENlcnRpZmljYXRpb24q0XV0
aG9yaXR5MSOwIqYDV00LDBtJU10q02VydGlmaWNhdGlvbiBBdXRob3JpdHkxEzAR
BgNVBAoMCkFwcGxlIEluYy4xCzAJBgNVBAYTAlVTMB4XDTIwMTExMDIxMTQwNVoX
DTIyMTExMDIxMTQwNVowUzEhMB8GA1UEAwwYc2FtbHNpZ25wcm9kdjEuYXBwbGUu
Y29tM0wwCqYDV00LDANJU10xEzARBqNVBAoMCkFwcGxlIEluYy4xCzAJBqNVBAYT
AlVTMIIBIjANBqkqhkiG9w0BA0EFAAOCA08AMIIBCqKCAQEA14n0ERTIbMyAVyAK
lXDBZdcfSszWzNbkH+bRJeUfhdwdy8J1bHBK+uX4DWJxUjnoR5diDyApdYS8G3zu
X9py6Lp84P/1QIGm9DrZztXMHi3ICwTVEX1U6F6nL/nctZ34WN2jREZtq9D/0eaw
gY5uWqwc0lxACXI4kaeapqCIL8/9m0pa4mp+3FNQv7qVS9CtTnVSBD+9SoAJZNJr
rkn8hcKBk7EI8CTZZqGbG0j8uq8UZj+j5+koTFd4vEwGh3PMeQAr69FNstPy7WMq
WftRp8goGZ4nfK+ZS6gX7Kd0mJK2FQosUYxk6c0WbscT8U5shNhI0xZoDS0NMVUU
FfMcoOIDAOABo4GlMIGiMAwGA1UdEwEB/wOCMAAwHwYDVR0jBBgwFoAUDcbxgksh
7Iap0sw+Hb4wjqLd52sw0qYIKwYBBQUHAQEENjA0MDIGCCsGAQUFBzABhiZodHRw
0i8vb2NzcC5hcHBsZS5jb20vb2NzcDAzLXNzb2F1dGgwMTAdBgNVHQ4EFgQUC00i
FiGyv/d2mDSdB5bt10LEJ2swDqYDVR0PAOH/BA0DAqeAMA0GCSqGSIb3D0EBCwUA
A4IBAQCXZmYuSYI5UxYq0LXv8Ybqj4LP3ZQaKizdph0Ihs8JbuSqGpe037W9KlAa
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ksVlS8u8/Fx8wH3B8bfC7nfcppcYQtxIAuG3QHIUatCZ0Hjh89Q+80i0/D6aDNYA
mOIqlaI37bxC5lVh+JSYQcry+wG8+NS0fgRWZWk9ZyR2hjfj7VDfyiyu6CDTPh5s
Tqm4tZY57od+5jASv6BqD0N/bqZi
</ds:X509Certificate>
                </ds:X509Data>
            </ds:KeyInfo>
        </KeyDescriptor>
        <!-- Supported Name Identifier Formats -->
        <NameIDFormat>urn:oasis:names:tc:SAML:2.0:nameid-
format:transient</NameIDFormat>
        <!-- AuthenticationRequest Consumer endpoint -->
        <SingleSignOnService
            Binding="urn:oasis:names:tc:SAML:2.0:bindings:HTTP-POST"
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```