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<th>Date</th>
<th>Author</th>
<th>Comments</th>
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<td>March 14, 2016</td>
<td>Naitik Patel</td>
<td>Create initial document.</td>
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1. Consent Registration API Introduction

A Consent Registration API solution allows Healthix participant’s users to access Consent Registration without having to log in separately. This document describes the method and specifications on how Healthix, the service provider can accept Consent Registration API credentials from its participant to authenticate against either Healthix’s HealthShare system or SAML authentication.

The Consent Registration API process utilized by Healthix authenticates for a valid member identity from its participants. Once that user identity has been validated, the Healthix’s application controls the member’s privileges and access within Consent Registration tool. If Healthix cannot validate the member’s identity successfully then no access to Consent Registration is allowed.

2. Registration & Authentication

Healthix uses SAML authentication to authorize members requesting access to Consent Registration via API service. SAML authentication for Consent Registration API enables members to access Healthix Consent Registration. In SAML authentication, Participant sends information required by Healthix via SOAP call. Healthix processes the information provided by Participant and creates member profile in its HealthShare user directory. For subsequent member access, Healthix uses the member profile created during the initial access to authenticate and authorize member.
3. Consent Registration API

Consent Registration API uses SAML authentication to allow participants to authenticate members for the Healthix Consent Registration access. The following diagram shows the workflow for Consent Registration API from participant to Healthix.

![Consent Registration Diagram](diag.png)
4. Steps for Consent Registration API

1. User clicks on the Consent Registration API button in their application.
2. Participant generates the request to Healthix with the following attributes and sends http post

<table>
<thead>
<tr>
<th>Item</th>
<th>Required</th>
</tr>
</thead>
<tbody>
<tr>
<td>Member’s MRN</td>
<td>Required</td>
</tr>
<tr>
<td>Facility ID</td>
<td>Required</td>
</tr>
</tbody>
</table>

3. Participant sends generated request to Healthix. (See Appendix - A)
4. Healthix process the SAML http header request received from participant.
5. For new members, Healthix create the member in Healthix.
6. Once authenticated and authorized, Healthix queries HealthShare for member Information.
7. Depending on member registration, Healthix generates response to the Participant’s request.
Appendix - A

Participant's request to Healthix:

POST http://zephyr:81/TestSaml/ HTTP/1.1
Accept: text/html, application/xhtml+xml, */*
Accept-Language: en-US
User-Agent: Mozilla/5.0 (Windows NT 6.1; WOW64; Trident/7.0; rv:11.0) like Gecko
Content-Type: application/x-www-form-urlencoded
Accept-Encoding: gzip, deflate

Host: zephyr:81
Content-Length: 8921
DNT: 1
Connection: Keep-Alive
Pragma: no-cache

SAMLResponse=
PHNhbwXwxOUlc3BvbnnNlIhhtbG5zOnNhbwWw9lnVybjpvYXNpczpunYW1lczp0YzpTQU1wMjluMDphc3NLcnRpb24IHhtbG5zOnh2PSJodHRwOi8vd3d3LnczLm9yZy8yMDAwL3NjaGVtYSIgeG1wcmVyPLFh0dHRwOi8vd3d3LnczLm9yZy8yMDAwLzAxLTIxZS9tb2RlcmdVcml0aGVsb3IvZ2VuZXJuZWNrZXQvU3ViamVjdE5hbWU+Q2F0aG9saWdub2RlcmdVcml0aGVsb3IvZ2VuZXJuZWNrZXQvU3ViamVjdE5hbWU+Q2F0aG9saWdub2RlcmdVcml0aGVsb3IvZ2VuZXJuZWNrZXQvU3ViamVjdE5hbWU+Q2F0aG9saWdub2RlcmdVcml0aGVsb3IvZ2VuZXJuZWNrZXQvU3ViamVjdE5hbWU+Q2F0aG9saWdub2RlcmdVcml0aGVsb3IvZ2VuZXJuZWNrZXQvU3ViamVjdE5hbWU+
Appendix - B

- Healthix decode Participant request to get user and patient attribute
  - SAML2.0 IDP Post SamlResponse url-decoded

SAMLResponse

PHNhbwVxwOJ1c3BvbnNiIiIltGtbG5zOnhWhWg9Ii1nVybjbjpyvXNCpzcwpuYW1lczp0Y2zpTQU1M0Jju
MDphc3Nlc3Rpb24iIiIltGtbG5zOnhWhWg9Ii1nVybjbjpyvXNCpzcwpuYW1lczp0Y2zpTQU1M0Jju
SigeG1sbmM2ZHMiIiIltGtbG5zOnhWhWg9Ii1nVybjbjpyvXNCpzcwpuYW1lczp0Y2zpTQU1M0Jju
OnhzsT0iIiIltGtbG5zOnhWhWg9Ii1nVybjbjpyvXNCpzcwpuYW1lczp0Y2zpTQU1M0Jju

SAML2.0 IdP Post SamlResponse url-decoded

SAMLResponse

PHNhbwVxwOJ1c3BvbnNiIiIltGtbG5zOnhWhWg9Ii1nVybjbjpyvXNCpzcwpuYW1lczp0Y2zpTQU1M0Jju
MDphc3Nlc3Rpb24iIiIltGtbG5zOnhWhWg9Ii1nVybjbjpyvXNCpzcwpuYW1lczp0Y2zpTQU1M0Jju
SigeG1sbmM2ZHMiIiIltGtbG5zOnhWhWg9Ii1nVybjbjpyvXNCpzcwpuYW1lczp0Y2zpTQU1M0Jju
OnhzsT0iIiIltGtbG5zOnhWhWg9Ii1nVybjbjpyvXNCpzcwpuYW1lczp0Y2zpTQU1M0Jju
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    <SignatureMethod Algorithm="http://www.w3.org/2000/09/xmldsig#rsa-sha1"/>
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    </Transforms>
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  </Reference>
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