Baseline Expectations 2020: Continuing to Raise the Bar

IAM Online
Wednesday, December 4, 2019

David Bantz, University of Alaska
Albert Wu, Internet2/InCommon
Baseline Expectations for Federation Participants

1. Describe the Program goals and process
2. Current State
3. Next Steps
**CTAB:** Community Trust & Assurance Board

<table>
<thead>
<tr>
<th>Name</th>
<th>Institution</th>
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</thead>
<tbody>
<tr>
<td>Mary-Catherine Martinez, Chair</td>
<td>InnoSoft</td>
</tr>
<tr>
<td>Rachana Ananthakrishnan</td>
<td>Globus/University of Chicago</td>
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<tr>
<td>Brett Bieber</td>
<td>University of Nebraska-Lincoln</td>
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<td>David Bantz, Vice-Chair</td>
<td>University of Alaska</td>
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<tr>
<td>Chris Hable</td>
<td>University of Michigan</td>
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<tr>
<td>John Hover</td>
<td>Brookhaven National Laboratory</td>
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<tr>
<td>Adam Lewenberg</td>
<td>Stanford University</td>
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<tr>
<td>Jon Miner</td>
<td>University of Wisconsin-Madison</td>
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<tr>
<td>John Pfeifer</td>
<td>University of Maryland, College Park</td>
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<tr>
<td>Chris Whalen</td>
<td>Research Data and Communication Technologies</td>
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<tr>
<td>Tom Barton</td>
<td>University of Chicago</td>
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<tr>
<td>Brad Christ</td>
<td>Eastern Washington University</td>
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<tr>
<td>Albert Wu</td>
<td>Internet2 (non-voting)</td>
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<tr>
<td>Ann West</td>
<td>Internet2 (non-voting)</td>
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[https://incommon.org/community/leadership/](https://incommon.org/community/leadership/)
InCommon’s **Baseline Expectations** program

**Dimensions**
- Security
- Privacy
- Transparency/Accountability
- User Experience
- Facilitate federated access

**Processes**
- Community Requirements
- Community Consensus
- Community Dispute Resolution

**Participation Agreement**
requires everyone to adhere to Baseline Expectations

*Mostly, it consists of tons of communication and help*
Collaboration

Interoperability

Assurance

Foundation

Attribute bundle(s) (tbd)

MFA signaling (tbd)

Sirtfi, TLS 1.2 (2020?)

Error URL (2020?)

Metadata useful; REFEDS Assurance
Federation Participants

- Research SPs
- University IdPs
- Vendor SPs

“share the road”
Community Consensus

1. Raise an issue on technical-discuss@incommon.org or participants@incommon.org

2. Community Trust and Assurance Board (CTAB) facilitates discussion, calling in subject matter experts, stakeholders, and others

3. Aim for consensus
WE REJECT: KINGS,
PRESIDENTS AND VOTING.
WE BELIEVE IN:
ROUGH CONSENSUS
AND RUNNING CODE.
IETF 83
Baseline Expectations v1  (2018-2019)

1. Operated as core institutional service: Organizational-level authority, generally accepted security practices, accurate metadata
2. Technical, admin, and security contacts, MDUI information, and privacy policy URL
3. Attributes required to obtain service are appropriate and made known publicly
4. SP uses user info only for access and authorization (not shared)
5. Logos
Implementing Baseline Expectations 2018-2019

- Official transition to Baseline; Direct participant outreach begins
- Deadline to meet Baseline Expectations

Daily Baseline Counts

- All entities: 5330 of 5335 meet the metadata expectation (100%)
- IdPs: 451 of 552 meet the metadata expectation (100%)
- SPs: 4779 of 4783 meet the metadata expectation (100%)
- Orgs: 774 of 776 meet the metadata expectation for all entities (100%)
Benefits of implementing BE requirements:

Federation maturity - with base of uniform sound operating principles
- Confidence in relying on federation rather than 1:1 integrations
- Exercise consensus & dispute resolution processes (speaks to stability)

Spur to other national/international identity federations
- Or eduGAIN?

Contribute to efficiency of on-boarding (SP / IdP interaction)

Model even for non-federated entities
("Your SP should adhere to BE as good practices!")
Next Steps? Baseline Expectations 2020

*Community members have advocated for these potential components of BE2020:*

**TLS**: hardening for all endpoints

**Sirtfi**: self-evaluation and assertion of conformance*

**errorURL**: in IdP metadata (refer if SP doesn’t receive needed attributes)

**MFA**: signaling using REFEDS MFA authentication context

**R&S** and/or other standard *attribute bundles*

* Security Incident Response Trust Framework for Federated Identity [https://refeds.org/sirtfi](https://refeds.org/sirtfi)
Managing Risks  (weak trust vs burdensome requirements)
Survey: possible components of BE 2020

<table>
<thead>
<tr>
<th>(87 responses)</th>
<th>Prioritize</th>
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<tbody>
<tr>
<td>TLS 1.2 +</td>
<td>46</td>
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<tr>
<td>SIRTFI</td>
<td>32</td>
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<tr>
<td>error URL</td>
<td>36</td>
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<tr>
<td>R&amp;S attr.</td>
<td>28</td>
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<tr>
<td>REFEDS MFA</td>
<td>29</td>
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Survey summary details:

<table>
<thead>
<tr>
<th>(87 responses)</th>
<th>Prioritize</th>
<th>Y 2021</th>
<th>pos &quot;O&quot;</th>
<th>neg &quot;O&quot;</th>
<th>P+Y/2+pos-negO</th>
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<tbody>
<tr>
<td>TLS 1.2 +</td>
<td>46</td>
<td>26</td>
<td>7</td>
<td>3</td>
<td>63.0</td>
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<tr>
<td>SIRTFI</td>
<td>32</td>
<td>43</td>
<td>3</td>
<td>4</td>
<td>52.5</td>
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<tr>
<td>error URL</td>
<td>36</td>
<td>38</td>
<td>3</td>
<td>7</td>
<td>51.0</td>
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<tr>
<td>R&amp;S attr.</td>
<td>28</td>
<td>33</td>
<td>11</td>
<td>11</td>
<td>44.5</td>
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<tr>
<td>REFEDS MFA</td>
<td>29</td>
<td>34</td>
<td>7</td>
<td>11</td>
<td>42.0</td>
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</table>
“...make me pure...but not yet!”
St. Augustine

<table>
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<tr>
<th>Prioritize</th>
<th>In 2021</th>
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</thead>
<tbody>
<tr>
<td>Encrypt Endpoint with TLS</td>
<td>46</td>
</tr>
<tr>
<td>Support Sirtfi</td>
<td>32</td>
</tr>
<tr>
<td>Require error URL</td>
<td>36</td>
</tr>
<tr>
<td>Release R&amp;S Attributes</td>
<td>28</td>
</tr>
<tr>
<td>Support REFEDS MFA Profile</td>
<td>29</td>
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</table>
Some possible next steps... *What do you think?*

1. BE 2020 Community Consensus to determine components: TLS, errorURL, Sirtfi, MFA signalling, attribute bundle(s)?

2. Increase collaboration and common BE in other federations? In eduGAIN?

3. Automated checks to ensure that contact information, UI elements and other aspects of metadata are accurate and complete?

4. **CTAB Open Meeting @ TechEx 12 - 1:40 pm Wednesday 11 Dec**
Resources

● Baseline Expectations for Trust in Federation website
  https://www.incommon.org/federation/baseline

● Baseline Expectations for Trust in Federation document
  http://doi.org/10.26869/TI.34.1

● Community Consensus Process
  http://doi.org/10.26869/TI.107.1

● Community Dispute Resolution Process
  http://doi.org/10.26869/TI.118.1

● InCommon Baseline Expectations: Designing How to Transition the Community
  http://doi.org/10.26869/TI.120.1

Please evaluate today’s session

https://www.surveymonkey.com/r/IAMOnline-Dec2019