InCommon Assurance Call

Update from the
MFA Interoperability Profile Working Group

April 6, 2016

Karen Herrington, Virginia Tech,
Chair of the MFA Interoperability Working Group

Host: Chris Spadanuda, University of Wisconsin-Milwaukee,
Chair of the InCommon Assurance Advisory Committee

The InCommon Assurance Advisory Committee (AAC) welcomes three new* members.

AAC Roster

- Chris Spadanuda, University of Wisconsin-Milwaukee (IdP) - Chair
- Warren Anderson, LIGO (SP)
- **Brett Bieber, University of Nebraska-Lincoln (IdP) ***
- Paul Caskey, InCommon/Internet2 (InCommon staff)
- David Crotts, Virginia Tech (auditor)
- Jacob Farmer, Indiana University (member at large)
- **Ted Hanss, University of Michigan (InCommon Steering) ***
- **Joanna Rojas, Duke University (auditor) ***

Ex-Officio (non-voting)
- Tom Barton, University of Chicago (InCommon TAC)
- Klara Jelinkova, Rice University (InCommon Steering)

2016 Internet2 Global Summit in Chicago

InCommon Baseline Practices BoF

Wed., May 18, 2016

7:30am – 8:30am

Please join us!

Multifactor Authentication (MFA) Interoperability Profile

Karen Herrington
April 6, 2016

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Mission

- Working group formed at the request of the Assurance Advisory Committee

- Charge - To develop and document requirements for creating and implementing an interoperability profile to allow the community to leverage MFA provided by an InCommon Identity Provider by allowing SPs to rely on a standard syntax and semantics regarding MFA.

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Deliverables

- Profile
- Technologies
- Use Cases
- Adoption plan

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Work to date

- Weekly calls since the beginning of February – building on the work begun by Jacob Farmer in 2015

- MFA Baseline Profile

- Baseline Profile

- Usage Guidance document

- Technologies document describing Authentication Factors and Threat Resistance

- Use Cases

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MFA Baseline Profile

- Maintained focus on the authentication event

- Defined in terms of risks mitigated

- Mitigated risks include non-real-time attacks such as phishing, offline cracking, online guessing and theft of a (single) factor

- Asserted through authentication context

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Baseline Profile

- To establish a base over which other profiles could be defined

- To be used by SPs in conjunction with other profiles in SAML requests to indicate that a higher level profile is preferred, but base level is acceptable

- To provide a value for systems to affirmatively assert when authentication is done successfully but *without* MFA (necessarily) being used

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Usage Guidance document

- Provides advice on the use of the profiles in practice

- More explanation about risks that must be mitigated

- Guidance about what constitutes an acceptable "second factor"

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Technologies document

- Two tables intended to aid in the selection of acceptable multi-factor authentication technologies for use with the profiles

- Table 1 describes commonly used authentication factors and summarizes their resistance to common threats

- Table 2 summarizes Authentication Types or Groups of Types which meet the needs of authentication profiles

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Use Cases

- Solicited use cases for MFA Base level profile
- Some of the most promising for the MFA Base level profile are University System use cases
- Federal services (FICAM) a possibility

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What's Next?

- Continuing calls
- Refining documents
- Writing final report
- Preparing for community review in mid-April
- Timeline intended to be in sync with TIER release

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Keeping Informed

- MFA Interoperability Profile Wiki
https://spaces.internet2.edu/x/CY5HBQ

- InCommon Assurance Wiki
https://spaces.internet2.edu/x/4SM

- Join the InCommon Assurance list:
  - Email sympa@incommon.org with this in the subject: **subscribe assurance**

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Questions/Feedback?

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Thank you for joining the InCommon Assurance Call

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