



OpenID Connect Working Group

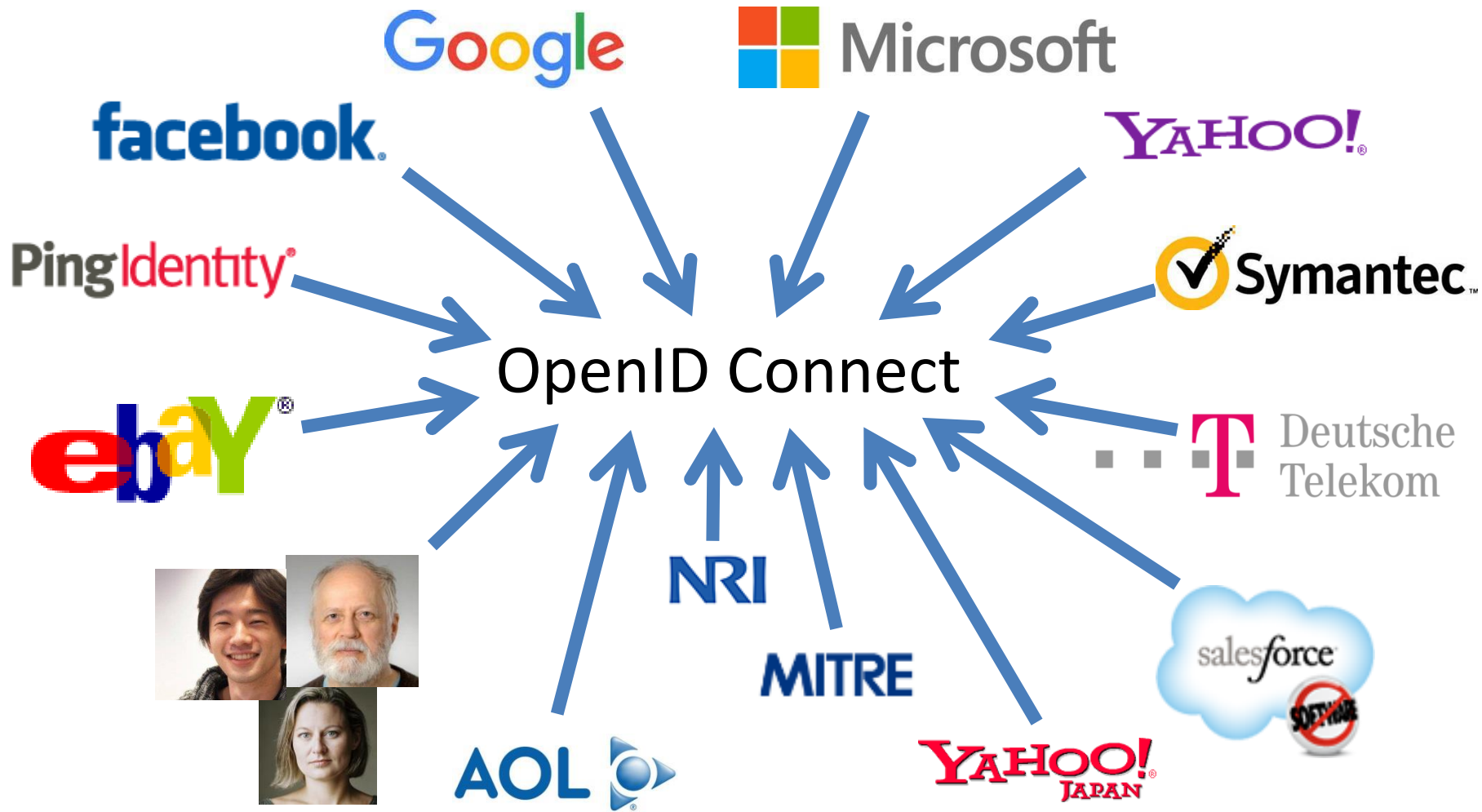
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Working Together





You're Probably Already Using OpenID Connect!

- If you have an Android phone or log in at AOL, Deutsche Telekom, Google, Microsoft, NEC, NTT, Salesforce, Softbank, Symantec, Verizon, or Yahoo! Japan, you're already using OpenID Connect
 - Many other sites and apps large and small also use OpenID Connect



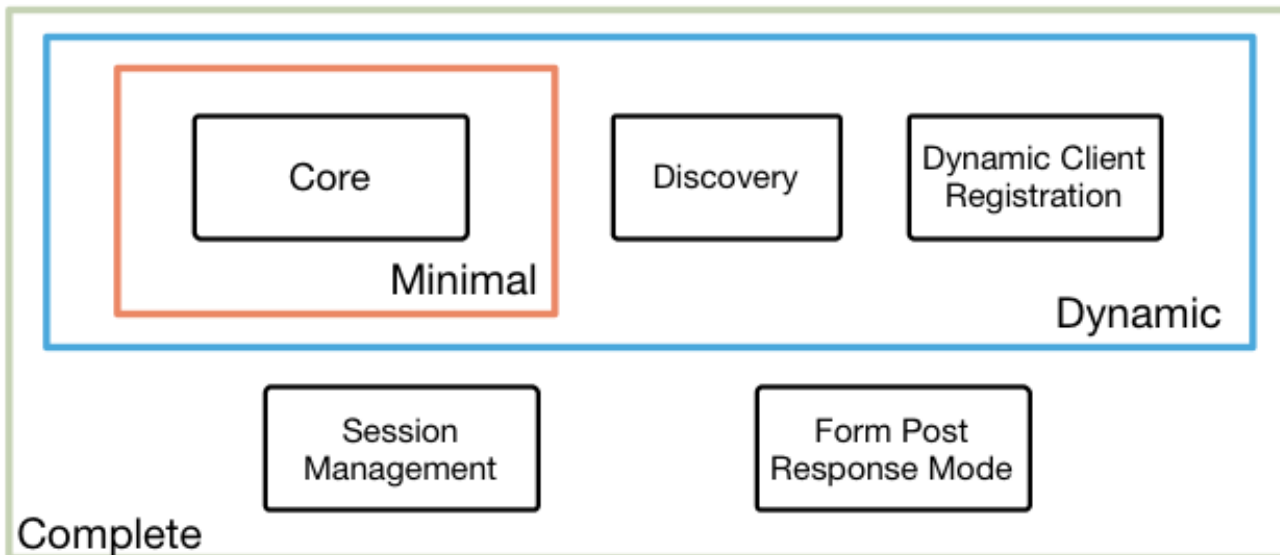
OpenID

OpenID Connect

4 Feb 2014

OpenID Connect Protocol Suite

<http://openid.net/connect>



Underpinnings





Numerous Awards

- OpenID Connect won 2012 European Identity Award for Best Innovation/New Standard
 - <http://openid.net/2012/04/18/openid-connect-wins-2012-european-identity-and-cloud-award/>
- OAuth 2.0 won in 2013
- JWT/JOSE won in 2014
- OpenID Certification program won 2018 Identity Innovation Award and 2018 European Identity Award





Session Management / Logout

- Three approaches being pursued by the working group:
 - Session Management
 - http://openid.net/specs/openid-connect-session-1_0.html
 - Uses HTML5 postMessage to communicate state change messages between OP and RP iframes
 - Front-Channel Logout
 - http://openid.net/specs/openid-connect-frontchannel-1_0.html
 - Uses HTTP GET to load image or iframe, triggering logout
 - Similar to options in SAML, WS-Federation
 - Back-Channel Logout
 - http://openid.net/specs/openid-connect-backchannel-1_0.html
 - Server-to-communication not using the browser
 - Can be used by native applications, which have no active browser
- All support multiple logged in sessions from OP at RP
- Unfortunately, no one approach best for all use cases
- Certification tests being developed
 - WG plans to test multiple implementations before making specs Final



OpenID Federation Specification

- OpenID Connect Federation specification
 - http://openid.net/specs/openid-connect-federation-1_0.html
- Enables establishment and maintenance of multi-party federations using OpenID Connect
- Defines hierarchical JSON-based metadata structures for federation participants
- Implementer's Draft status reached
- Substantial changes since then
 - *Please review!*



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Identity Assurance

- OpenID Connect for Identity Assurance
 - <https://openid.net/specs/openid-connect-4-identity-assurance.html>
- Representation for verified person data
 - Enables legal compliance for some use cases
- New specification by Torsten Lodderstedt
 - ***Please review!***



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Native SSO Specification

- Enables SSO across apps by the same vendor
- Assigns a device secret issued by the AS
- New specification being written by George Fletcher
 - *Watch the mailing list for WG draft soon to come*



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Second Errata Set

- Errata process corrects typos, etc. discovered
 - Makes no normative changes
- Edits under way for second errata set
- See http://openid.net/specs/openid-connect-core-1_0-24.html for current Core errata draft
- ***I plan to work on the errata edits during IIW***



OpenID

Current Related Work

- International Government Profile (iGov) WG
 - Developing OpenID Connect profile for government & high-value commercial applications
- Enhanced Authentication Profile (EAP) WG
 - Enables Token Bound ID Tokens
 - Enables integration with FIDO and other phishing-resistant authentication solutions
- **Mobile Operator Discovery, Registration & authentication (MODRNA) WG**
 - Mobile operator profiles for OpenID Connect
- Financial-grade API (FAPI) WG
 - Enables secure API access to high-value services



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OpenID Certification

- Enables OpenID Connect and FAPI implementations to be certified as meeting requirements of defined conformance profiles
- Now OP and RP Connect certification profiles for:
 - Basic OP and Basic RP
 - Implicit OP and Implicit RP
 - Hybrid OP and Hybrid RP
 - OP Publishing and RP Using Configuration Information
 - Dynamic OP and Dynamic RP
 - Form Post Response Mode for OP and RP
- FAPI OP certification launched April 1, 2019
- See <http://openid.net/certification/>
 - And accompanying certification presentation!





OpenID

Open Conversation

- How are you using OpenID Connect?
- What would you like the working group to know and do?