



# **OpenID Enhanced Authentication Profile (EAP) Working Group**

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# What is the EAP WG?



- Working group description at <http://openid.net/wg/eap/>
- Chartered to:
  - “Develop a security and privacy profile of the OpenID Connect specifications that enable users to authenticate to OpenID Providers using strong authentication specifications. The resulting profile will enable
    - use of IETF Token Binding specifications with OpenID Connect and
    - integration with FIDO relying parties and/or other strong authentication technologies.”

# Two EAP Specifications



- Token Bound Authentication
  - Defines how to apply Token Binding to OpenID Connect ID Tokens
  - [http://openid.net/specs/openid-connect-token-bound-authentication-1\\_0.html](http://openid.net/specs/openid-connect-token-bound-authentication-1_0.html)
- EAP ACR Values
  - Defines “acr” values strong authentication profiles
  - [http://openid.net/specs/openid-connect-eap-acr-values-1\\_0.html](http://openid.net/specs/openid-connect-eap-acr-values-1_0.html)

# Token Binding Update



- IETF Token Binding specs went to IESG telechat May 10, 2018
  - IESG review the last step before going to the RFC Editor
- OAuth Token Binding spec
  - <https://tools.ietf.org/html/draft-ietf-oauth-token-binding>
  - Defines Token Binding of OAuth 2.0 access tokens, refresh tokens, authorization codes, JWT authorization grants, and JWT client authentication
- OpenID Connect Token Binding spec
  - [http://openid.net/specs/openid-connect-token-bound-authentication-1\\_0.html](http://openid.net/specs/openid-connect-token-bound-authentication-1_0.html)
  - Defines Binding of OpenID Connect ID Tokens
- Continuing to define metadata about Token Binding implementations
- Implementation available for interop testing
  - Created by Brian Campbell
  - See <https://www.ietf.org/mail-archive/web/unbearable/current/msg01332.html>

# Two ACR Values Defined



- “phr” – Phishing-Resistant
  - An authentication mechanism where a party potentially under the control of the Relying Party cannot gain sufficient information to be able to successfully authenticate to the End User's OpenID Provider as if that party were the End User
- “phrh” – Phishing-Resistant Hardware Protected
  - An authentication mechanism meeting the requirements for phishing-resistant authentication above in which additionally information needed to be able to successfully authenticate to the End User's OpenID Provider as if that party were the End User is held in a hardware-protected device or component
- Phishing-Resistant definition based on 2008 OpenID Provider Authentication Policy Extension (PAPE) specification

# Status



- Working group active
  - Chairs Brian Campbell and Mike Jones
- Calls scheduled every two weeks on Thursdays
- For more information, see the working group page
  - <http://openid.net/wg/eap/>