

# GNAP Meeting Interim 2021-10

draft-ietf-gnap-core-protocol-08  
draft-ietf-gnap-resource-servers-01

January 20, 2021

Justin Richer • Aaron Parecki • Fabien Imbault

# Agenda

- Core draft update
- Current Process
- IETF 113 Hackathon
- Next Steps

# Core Draft Changes

- Security considerations, editorial updates, formatting, terms, some other stuff
  - No protocol changes
- No new drafts published since last IETF (will be for IETF 113)
- <https://gnap-core-protocol-editors-draft.netlify.app/>

# Security Considerations

- Cuckoo Tokens
- 302 Redirects

# Clarify Token Rotation vs. Grant Update

- Previously looked like two ways to do the same thing
  - Intent was slightly different purposes
  - Both similar to OAuth 2 Refresh Token use cases
- Token rotation:
  - Create a new access token with the same rights
  - Always get rid of old access token (if possible)
  - New token “**replaces**” old token in system
- Grant update:
  - Create a new access token, with possibly new characteristics
  - New token **doesn't affect** old tokens in system

# Current Process

- Editors working through issue backlog
  - Slow but steady progress
  - Most issues have proposed resolutions
  - Details still being worked out on GitHub and in editor calls
- Focus on core draft right now
- Preparing for IETF 113...

# IETF 113 Hackathon

- **Let's all get together and implement GNAP!**
  - AS
  - Client Instance
  - RS
- Plug things together from different implementations, see what breaks
- Existing implementations to play with
  - Java AS, client, and RS
  - PHP client
  - Python CLI client, AS
  - Rust AS
  - Go?

# Hackathon Interoperability Parameters

- Interaction
  - Redirect start/finish
- Signing & Key Proofing
  - HTTP Signatures w/rsa-pss-sha512 & Content-Digest w/sha512
  - Libraries and reference implementations in Java, Rust, Go, Python
- Single key-bound access token
- Arbitrary access rights (ie: not server-enforced)
- Dynamic keys (no pre-registration required)
  
- **Other parameters and methods are encouraged!**



# Developing Community

- Conformance Suite
  - Potential future project for complete specification testing
  - Could re-use OpenID Foundation conformance suite
    - <https://gitlab.com/openid/conformance-suite>
- OpenAPI / AsyncAPI
  - Formal definitions for use with API descriptors

# Next Steps

- Formal Analysis (in progress)
  - Already brought to light several considerations
  - Goal to automate testing
- Outreach to other communities
- Implementations
- Resource Servers Draft
  - It just expired :-)
  - But we haven't forgotten it!