

Update on BRSKI with Pledge in Responder Mode (BRSKI-PRM)

[draft-ietf-anima-brski-prm-08](#)

Repo URL: <https://github.com/anima-wg/anima-brski-prm>

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IETF 116 – ANIMA Working Group

BRSKI-PRM Status

History of main changes 05→ 06

- Issue #67, shortened the pledge endpoints to prepare for constraint deployments
- Included table for new registrar endpoints in section 5.3
- Addressed review comments from SECDIR early review (mainly editorial improvements)
- Addressed review comments from IOTDIR early review (Update of return codes in case of errors, terminology clarifications, consequent use of normative language, editorial improvements, update of references)

BRSKI-PRM Status

History of main changes 06 → 07 → 08

- WGLC resulted in a removal of the voucher enhancements completely from this document to RFC 8366bis, containing all enhancements and augmentations of the voucher, including the voucher-request as well as the tree diagrams
- Resolved editorial issues discovered after WGLC (still open issues remaining see next slide)
- Resolved comments from the Shepherd review as discussed in PR #85 on the ANIMA github (editorial, terminology alignments)

BRSKI-PRM

Open Issues collected after WGLC

- Discovery related issues
 - #79 discovery of registrar with BRSKI-PRM function set (DNS-SD subtypes vs. text parameters)
 - #80 pledge discovery using GRASP? → Alternative to be stated but ot-of-scope for the draft
- Interaction Pledge and Registrar-agent (and Infrastructure)
 - #81 Additional text to motivate and explain usage of agent-signed data
 - #82 Enhance text explaining that IDevID cannot be used as TLS server certificate
 - #87 Available information on registrar-agent (serial number sufficient, avoid requirement for IDevID CA certificates)
 - #88 IDevID certificate chain in PVR (omitted to address constraint environments)

BRSKI-PRM Open

Issues collected after WGLC (cont.)

- Interaction Registrar-agent and Registrar
 - BRSKI-PRM assumes the registrar can distinguish LDevID (registrar-agent) vs. IDevID (pledge) also on existing endpoints → proposal to keep this handling
 - #84 use of registrar endpoints for responder vs. initiator mode
 - #86 pledge/registrar recognition based on credential
 - #91 PER processing (refer to handling as in BRSKI to sent PVR and PER over the same connection)
 - #83 Clarify re-enrollment support in BRSKI-PRM (current focus initial enrollment)
 - #92 Necessity for new registrar enrollment endpoint
- Voucher Request and Voucher
 - #89 Naming: agent-proximity vs. agent-invited (or similar)
 - #90 Concept of second signature on voucher

BRSKI-PRM Status

Next Steps

- Address open issues (see [ANIMA git](#))
- Restructure section 5 and 6 for better readability and understanding
- Interop testing with others welcome 😊,
PoC implementations of all components available, please get in touch
- Finalization of document, shepherd writeup

Backup: BRSKI-PRM – Abstract Protocol Overview

