

SDF Protocol Mapping

ASDF interim working group meeting

Rohit Mohan, Bart Brinckman, Lorenzo Corneo

Dec 03, 2025

Status since last meeting

- Draft-02 published
- Added protocol mapping OpenAPI definitions from NIPC draft
- Open Issue
 - Inclusion of IP-based protocol mappings (HTTP/openapi, CoAP)
 - Should we remove it from the draft?
 - Or does someone want to take up a small PoC and contribute learnings?
 - NIPC explicit connection management sdfProtocolMap. Add support for use of protocol mapping outside of the SDF model?

NIPC

ASDF interim working group meeting

Bart Brinckman, Rohit Mohan, Braeden Sanford

Dec 03, 2025

Status since meeting

- Draft 15 released
 - <https://datatracker.ietf.org/doc/draft-ietf-asdf-nipc/>
- Changelog:
 - 24 closed in draft 14 and circulated on mailing list are not fully closed on github
 - 12 additional issues closed in draft15
 - 7 issues remaining:
 - 4 issues are in progress
 - 3 issues open, not yet started
 - Security considerations section
 - Text was fully reviewed, sections edited and completed and enhanced for readability (excluding 4.4 connection management)



Draft15 updates

Completed issues:

Proposed for closure, please perform final review by Dec 17:

- Jetty servlet implementation issues with path-based %-encoding #103 ([@Bart Brinckman \(bbrinckm\)](#))
- leverage contentFormat quality to indicate content-type #104 ([@Ari Keränen](#))
- naming #112 ([@Bart Brinckman \(bbrinckm\)](#))
- limited power budget #116 ([@Ari Keränen](#))
- 1.2 editorial #117 ([@Ari Keränen](#))
- 2.5 editorial #123 ([@Bart Brinckman \(bbrinckm\)](#))
- More details on data applications #129 ([@Ari Keränen](#))
- 3.2.1 App data registration issues #130 ([@Ari Keränen](#))
- make uuid in examples more unique #161 ([@Michael Richardson](#))
- GET /registrations/models return value #170 ([@Bart Brinckman \(bbrinckm\)](#))
- create Implementation Status section #106 ([@Michael Richardson](#))
- Move protocolmapping openAPI appendix to sdf protocol mapping draft #164 ([@Bart Brinckman \(bbrinckm\)](#))

Other completed work:

- Security considerations section
- Text was fully reviewed, sections edited and completed and enhanced for readability (excluding 4.4 connection management)

Work in progress

In progress:

- Application gateway function: Bridging #78 ([@Michael Richardson](#))
- IANA considerations ([@Rohit Mohan \(rohitmo\)](#))
- Problem types ([@Bart Brinckman \(bbrinckm\)](#))
- CDDL in all API definitions ([@Bart Brinckman \(bbrinckm\)](#))

Open:

- 4.4.1 Connection management details #135 ([@Ari Keränen](#))
- Connect API BLE fields #165 ([@Rohit Mohan \(rohitmo\)](#))
- Section 4.4: Should the protocol mapping part not move to sdfProtocolMapping draft #171 ([@Bart Brinckman \(bbrinckm\)](#))



Next steps

- Resolve remaining issues
- Make a proposal for binding/linking functionality in the gateway
- Final author review of the text

Goal: Have a draft ready by Christmas for a working group review round for both NIPC and SDF protocol mapping!