# Update on JWS signed Vouchers

draft-ietf-anima-jws-voucher-01

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#### **JWS Voucher**

- RFC 8366 specifies CMS-signed JSON for Voucher artifacts
- This draft proposes JWS-signed JSON as another option
- Makes no YANG changes to RFC 8366

- Can be used by BRSKI RFC 8995
- BRSKI-PRM relies on JWS form factor

BRSKI: Bootstrapping of Remote Secure Key Infrastructure (RFC 8995)

BRSKI-PRM: BRSKI with Pledge in Responder Mode (draft-ietf-anima-brski-prm)

CMS: Cryptographic Message Syntax (RFC 5652)

JWS: JSON Web Signature (RFC 7515)

Voucher: A Voucher Artifact for Bootstrapping Protocols (RFC 8366)

### **JWS Options**

- JWS Compact Serialization (RFC 7515 #3.1) is currently used
  - Encodes the three pieces (header.payload.signature) in Base64URL
  - This choice was arbitrary, but was driven by easier use with available libraries

- JWS JSON Serialization (RFC 7515 #3.2)
  - To be analyzed in conjunction with other needs ... (OPC UA?)

## JWS Voucher - History of changes

- Small improvements and fixes in writing and consistent usage of terms
  - Pledge voucher-request (PVR)
  - Registrar voucher-request (RVR)
  - Media-Type: application/voucher-jws+json
  - JWS (instead of JWT or JOSE)
- Updated References

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#### JWS Voucher - Next Steps

- Further rework the draft (structure and application examples)
- Investigate 2<sup>nd</sup> JWS serialization option
- Circulate outcome on the mailing list for further discussion
- PoC implementation and interop in combination with BRSKI-PRM
- WG review appreciated

BRSKI-PRM: BRSKI with Pledge in Responder Mode (draft-ietf-anima-brski-prm)

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