

~~JOSE~~ JWS signed Vouchers

draft-ietf-anima-jws-voucher-00

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ANIMA Working Group

JWS Voucher

RFC8366 specifies CMS signed JSON

This draft proposes

- JWS signed JSON

Document renamed from JOSE-signed, to JWS-signed.

BRSKI: Bootstrapping of Remote Secure Key Infrastructures

JOSE: JSON Object Signing and Encryption (RFC 7515)

CMS: Cryptographic message Syntax (RFC 5652)

Overview of Document

Table of Contents

1. Introduction	2
2. Terminology	3
3. JSON Web Signatures	3
3.1. Unprotected Header	4
3.2. Protected Header	4
4. Privacy Considerations	4
5. Security Considerations	4
6. IANA Considerations	4
6.1. Media-Type Registry	4
6.1.1. application/voucher-jose+json	4
7. Acknowledgements	5
8. Changelog	5
9. References	5
9.1. Normative References	5
9.2. Informative References	6
Appendix A. Examples	7
A.1. Example Voucher Request (from Pledge to Registrar)	7
A.2. Example Parboiled Voucher Request (from Registrar to MASA)	9
A.3. Example Voucher Result (from MASA to Pledge, via Registrar)	12
Authors' Addresses	15

```
<CODE BEGINS> file "voucher_request_01-header.b64"
{
  "alg": "ES256",
  "x5c": [
    "MIIB2jCCAYCgAwIBAgIGAWeGdcSLMAoGCCqGSM49BAMCMD0xCzAJBg\
VBAYTAkFRMRUwEwYDVQQKDAxKaW5nSmluZ0NvcnAxZmVzAVBgNVBAMMDkppbm\
KaW5nVGVzdENBMCAXDTE4MTIxMjAzMjg1MVoYDzI5OTkxMjMxMjM1OTU5Wj\
SMQswCQYDVQGEwJBUTEVMBMGA1UECgwMSmluZ0ppbmdDb3JwMRRMwEQYDVQ\
FEwowMTIzNDU2Nzg5MRcwFQYDVQQDDA5KaW5nSmluZ0RldmJjZTBZMBMGBY\
GSM49AgEGCCqGSM49AwEHA0IABMVGg8Z5pjf5jXnyrUrXyZ1kPgqBe3NXu1\
TADe+r/v6JzIHL355IgcHC3axpibqJM/bWRaEyjqcCJj4jJkowCujVTBTMC\
GCSsGAQQBgU5SAgQfDB1tYXNhLXRlc3Quc2llbWVucy1idC5uZXQ6OTQ0Mz\
TBgNVHSUEDDAKBggrBgEFBQcDAjA0BgNVHQ8BAf8EBAMCB4AwCgYIKoZIzj\
EAwIDSAAwRQIgWtPzIIXY2ixRXJtExKEhhZda4X+EplZomEI2zA0dsjoCIQ\
3JpQmRXMGn/p4Bu9izii92eclTx4/04rlm7MyLqkhdA=="
  ]
}
<CODE ENDS>
```

Payload:

ichardson & Werner Expires 25 June 2021 [Pag
nernet-Draft JOSE-voucher December

```
<CODE BEGINS> file "voucher_request_01-payload.b64"
{
  "ietf-voucher-request:voucher": {
    "created-on": "2020-10-22T02:37:39.000Z",
    "nonce": "eDs++/FuDHGUnRxn3E14CQ==",
    "serial-number": "0123456789"
  }
}
<CODE ENDS>
```

Signature:

```
<CODE BEGINS> file "voucher_request_01-signature.b64"
Vj9pyo43KDEq0e5tokwHpNhVM0uUkLCatwNQxfSCKH8GRQ2iTT2fqD39k40\
-7S-vheDHHuBHFSWb502EPwkda
<CODE ENDS>
```

Options

Uses the JWS **Compact** serialization.

- This format encodes the three pieces (protected headers, payload and signature) in Base64URL, appropriate for use in a URL.
- This choice was arbitrary, but was driven by being easier to use with available libraries.
 - This layer of Base64 encoding was not necessary, since HTTPS is 8-bit clean.

Conclusion

Adopted July 2021

Very short and sweet.

Makes no YANG changes to RFC8366.

`draft-ietf-anima-jws-voucher-00`