

Signing HTTP Requests and Responses

Use case:

Non-repudiation for
backend JSON API
calls

Example 1: A payment request sent as a JSON payload to an API endpoint

Example 2: A JSON API response from a bank containing the financial information.

1. Just use a JWT (maybe with content-negotiation)
2. Detached JWT (RFC7515 appendix-F)
3. Detached JWT unencoded payload (RFC7797)
4. Unencoded JWS JSON Serialization (RFC7797)
5. Draft-Cavage-HTTP-Signing combined with RFC7235 (Auth header) and RFC3230 (Digests)
6. JSON Canonicalisation + SHREQ

Scheme	Self- Constrained	Human Readable	Deals with accidental body corruption	Deals with accidental header corruption	Uses JOSE
JWT					
Detached JWT					
Detached Unencoded					
Unencoded JSON Serialisation					
Draft Cavage					
JCS + SHREQ					