

draft-ietf-oauth-jwt-introspection-response-01

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Why?

- **High assurance level use cases** such as payments & electronic signing require signed access tokens due to auditing/non-repudiation requirements
- Use of structured access tokens not always possible
- Example:
 - Integrated authorization for multiple services (e.g. sign a contract + initiate corresponding payment) operated by different providers
 - Cannot use single JWT carrying all necessary data (privacy)
- Token Introspection (RFC 7662) better fits but currently lacks signed responses

JWT Introspection Request

- RS requests JWT response using Accept header value `application/jwt`

```
POST /introspect HTTP/1.1
Host: server.example.com
Accept: application/jwt
Content-Type: application/x-www-form-urlencoded

token=2YotnFZFEjr1zCsicMWpAA
```


Request Processing

- AS determines what algorithms to employ and whether sign or sign+enc
- RS may supply configuration via Dynamic Client registration posing as a client
- Configuration values follow patterns established by OpenID Connect Dynamic Client Registration for UserInfo
 - introspection_signed_response_alg
 - introspection_encrypted_response_alg
 - introspection_encrypted_response_enc

Changes since IETF-102

- WG adopted draft as WG document
- -00
 - Initial version of the WG draft
 - Defined default signing algorithm (RS256)
 - Changed behavior in case resource server is set up for encryption (refusal of any request for unencrypted response to prevent downgrading attacks)
 - Added text on token data leakage prevention (authenticate or encrypt)
- -01
 - adapted wording to preclude any accept header except "application/jwt" if encrypted responses are required
 - use registered alg value RS256 for default signing algorithm
 - added text on claims in the token introspection response

Open

- Justin Richer suggested to change draft into general mechanism to enable JWT responses at OAuth endpoints (token, revocation, introspection, ...)

What's your opinion?