

draft-wendt-stir-passport-shaken-00

IETF99
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SHAKEN PASSporT extension- Attestation and Originating Identifier

- **Attestation (attest):**

The service provider will classify the origination of the call into three categories:

- **Full Attestation:** The signing provider:

- is responsible for the origination of the call onto the IP based service provider voice network
- has a direct authenticated relationship with the customer and can identify the customer
- has established a verified association with the telephone number used for the call.

- **Partial Attestation:** The signing provider:

- is responsible for the origination of the call onto its IP based voice network
- has a direct authenticated relationship with the customer and can identify the customer
- has NOT established a verified association with the telephone number being used for the call

- **Gateway Attestation:** The signing provider:

- is the entry point of the call onto its IP based voice network
- has no relationship with the initiator of the call (e.g., international gateways).

- **Originating Identifier (origid):**

This is a unique and opaque UUID (RFC4122) that will be used for two reasons

- traceback identification of originator, either service provider, wholesale customer, enterprise
- can be used by verification and call spam classification/analytics as an opaque identity to associate reputation scores and identify bad actors to authorities for potential follow up

Example SHAKEN PASSporT extension

Protected Header

```
{  
  "alg": "ES256",  
  "ppt": "shaken",  
  "typ": "passport",  
  "x5u": "https://cert.example.org/passport.crt"  
}
```

Payload

```
{  
  "attest": "A"  
  "dest": {"tn": "12155551213"},  
  "iat": "1443208345",  
  "orig": {"tn": "12155551212"},  
  "origid": "123e4567-e89b-12d3-a456-426655440000"  
}
```