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"
}
```