Assertion Values for a Resource Priority Header Claim in Support of Emergency Services Networks

(draft-ietf-stir-rph-emergency-services)

Friday, July 31 2020
Martin Dolly, and Chris Wendt
Background

- Personal Assertion Token (PASSporT) Extension for Resource Priority Authorization [RFC8443] extended the Personal Assertion Token (PASSporT) specification defined in [RFC8225] to allow the inclusion of cryptographically signed assertions of authorization for the values populated in the ‘Resource- Priority’ header field, which is used for communications resource prioritization.
  - The focus was on support of Government Priority Services RPH ‘namespaces’.
- This document adds new assertion values for a Resource Priority Header ("rph") claim defined in [RFC8443], in support of Emergency Services Networks for emergency call origination and callback.
- This specification defines new assertions values for:
  - "ESorig": Emergency Services call origination
  - "EScallback": Emergency Services callback.
Proposed new Assertions

The following is an example of an "rph" claim for SIP 'Resource-Priority' header field with a "ESorig" assertion:

```
{
  "orig":{"tn":"CgPN"},
  "dest":{"tn":"911 or URN-SOS"},
  "iat":1443208345,
  "rph":{"ESorig":["esnet,x"]}
}
```

The following is an example of an "rph" claim for SIP 'Resource-Priority' header field with a "ESorig" assertion:

```
{
  "orig":{"tn":"EmergNet Num"},
  "dest":{"tn":"CgPN that originated emergency call"},
  "iat":1443208345,
  "rph":{"EScallback":["esnet,x"]}
}
```
Updates

- Added Section 4 on The SIP Priority header “rph" claim:
  - RFC7090, I-D.rosen-stir-emergency-calls
  - The SIP Priority header may be set to the value "psap-callback" for emergency services callback calls.
  - A new claim key as part of the "rph" PASSPort, “sph", which MUST be used only for authorized emergency callbacks and correspond to a SIP Priority header with the value "psap-callback".
Example of an “rph” claim for SIP ’Priority’

{
  "orig":{"tn":"12155551213"},
  "dest":{"tn":"12155551212"},
  "iat":1443208345,
  "rph":{"EScallback":["esnet,x"],
  "sph":"psap-callback"
}

Next Steps

- Need more eyes to review