

**IETF-102**

**draft-barnes-stir-passport-div-hi-callflows-01**

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# Background

- Draft-ietf-stir-passport-divert includes an optional “hi” element in the “div” PASSporT:
  - “hi” element contains the index of the related History-Info header field entry
  - Allows correlation of “div” PASSporT with a History-Info header field entry, which provides more information as to why the request was retargeted
  - Note: Reason is not captured in the case of TEL URIs
- History-Info header field captures the request URI as requests are retargeted and tags the type of retargeting:
  - “rc”: target user remains the same
  - “mp”: target user changes to an AOR unassociated with the AOR of the original target user
  - “np”: no change in the request URI
- The “div” PASSporT added in the case of an “mp” type of retargeting.

# Example

History-Info: <sip:bob@example.com>;index=1

History-Info:

<sip: 12155551213@example.com;user=phone?  
Reason=SIP%3Bcause%3D302>;  
index=1.1;rc=1

History-Info: <sip:carol@example.com;cause=480>;  
index=1.2;mp=1

History-Info:

<sip:12155551214@example.com;user=phone;cause=480>;  
index=1.2.1;rc=1.2

PASSporT for initial request:

```
{ "orig":{"tn":"12155551212"},  
  "dest": {"tn":"12155551213"},  
  "iat":1443208345 }
```

“div” PASSporT

```
{ "orig":{"tn":"12155551212"},  
  "dest":{"tn":"12155551214"},  
  "iat":1443208345,  
  "div":{"tn":"121555551213",  
        "hi":"1.2.1"} }
```

# Discussion points

1. History-Info captures the new target – i.e., when the entry is added it has the same value as the request URI for the request to which it was added.
  - “div” PASSporT added when a request has been retargeted \*and\* the destination AOR changes to one not associated with the original target
2. Is there value in adding more information to the PASSporT related to History-Info?
  - For example, capturing the Reason

# Discussion points

## 3. Other use cases to consider?

- ACD/Contact Center
- Current scams such as hacking into someone's voicemail, changing greeting that allows the use of acct for collect calls. Latter are typically from international gateways – thus could block calls with GW attestation (“C”).

# Way Forward

- Is there value in continuing work on the call flows?