

SIP Location Conveyance

draft-ietf-sip-location-conveyance-05

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Changes into -05

- Clarified OPTIONS usage to NOT retrieve location from UAS
- Added comment that if Location-by-reference (LbyR) is used, the LIS needs to be accessible by the dereferencer
- Added Informative Ref to a new ID listing Reason header location specific error cause codes in a 424 (Bad Location Information)*

*this one is now back up in the air

Changes to -05 (for -06)

- Already cleaned up the S/MIME message body in Section 4.2
- Changed the ABNF to solve for a nagging (unwritten, but voiced for years) requirement for a recipient to know who inserted which location URI in a message, and which location was the message routed on (i.e. emergency calling)

The New Geolocation Header ABNF

```
Geolocation      = "Geolocation" HCOLON (locationValue *(COMMA
                        locationValue))
locationValue    = LAQUOT locationURI RAQUOT *(SEMI geoloc-param)
locationURI      = sip-URI / sips-URI / pres-URI
                  / cid-url ; (from RFC 2392)
                  / absoluteURI ; (from RFC 3261)
geoloc-param     = inserted-by EQUAL geoloc-inserter
                  / "message-routed-on-this-uri"
                  / generic-param ; (from RFC 3261)
geoloc-inserter  = "uac" / "proxy"
                  / gen-value ; (from RFC 3261)
```

(thank you Paul!)

The New Geolocation Header ABNF

Examples:

Location-by-value

```
Geolocation: <cid:alice123@atlanta.example.com>
```

Both LbyV and LbyR

```
Geolocation: <cid:alice123@atlanta.example.com>,  
             <sips:3sdefrhy2jj7@lis.atlanta.com>
```

LbyV from UAC, and LbyR from Proxy

```
Geolocation: <cid:alice123@atlanta.example.com> ;inserted-by=uac,  
             <sips:3sdefrhy2jj7@lis.atlanta.com> ;inserted-by=proxy
```

LbyV from UAC, and LbyR from Proxy - message routed by LbyR

```
Geolocation: <cid:alice123@atlanta.example.com> ;inserted-by=uac,  
             <sips:3sdefrhy2jj7@lis.atlanta.com>  
             ;inserted-by=proxy ;message-routed-on-this-uri
```

Open Issues Remaining

- What to do with Content-Disposition?
- What to do with location specific error cause codes.... (ugh!)

Location Error codes...

- Draft was written to create granular location error cause codes

[draft-polk-geopriv-location-based-error-registry-00](#)

- Meant as general purpose Location error registry

Error Codes to Register

<code>Cause-Code</code>	<code>Optional-Default-Text</code>
<code>-----</code>	<code>-----</code>
<code>Cause=1</code>	<code>Location Format Not Supported</code>
<code>Cause=2</code>	<code>Geo-location Format Desired</code>
<code>Cause=3</code>	<code>Civic-location Format Desired</code>
<code>Cause=4</code>	<code>Unsupported Schema</code>
<code>Cause=5</code>	<code>Cannot Parse Location Supplied</code>
<code>Cause=6</code>	<code>Cannot Find Location</code>
<code>Cause=7</code>	<code>Cannot Dereference</code>
<code>Cause=8</code>	<code>Conflicting Locations Supplied</code>
<code>Cause=9</code>	<code>Incomplete Location Supplied</code>
<code>Cause=10</code>	<code>Dereference Timeout</code>
<code>Cause=11</code>	<code>Cannot Process Dereference</code>

then a bunch of LoST ones...

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[draft-polk-geopriv-location-based-error-registry-00](#)

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Location Error codes...

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[draft-polk-geopriv-location-based-error-registry-00](#)

- Meant as general purpose Location error registry
 - Geopriv puked all over idea (being cross-protocol)
 - No consensus with what they wanted, but admitted ID pointed to an unsolved problem that should be addressed
 - I took that as “we’ll investigate” (i.e. “take years”) as it was suggested to be a normative ref in (*not to*) Conveyance

Location error registry Options

1. Do nothing (leaving 424 without error details)
2. Incorporate error codes (with normative description) into Conveyance doc
 - To be used in a Reason header in 424
3. Write a new more generic (Geopriv) doc defining what each error type is and advise that all Geopriv Using Protocols adhere to these definitions or explain why one or more are not applicable for that using protocol
4. Write a new section in Conveyance adding an XML schema for rich error codes (that all UAs will have to understand)

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- Recommendation:
 - do #2, and wait for someone with the time and energy for #4 to do it in future doc – possibly as an extension to this doc

What's next?

- Solve last 2 open issues and WGLC doc