

SCIM Events Update

draft-ietf-scim-events-02

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Changes from Draft 01

- IANA Due to no registry for events, event URIs changed from:
 - urn:ietf:params:event:SCIM:... to urn:ietf:params:SCIM:event:...
 - Basically moved under the SCIM urn namespace of urn:ietf:params:SCIM
- Asynchronous Event Delivery with end-to-end example starting with SCIM Protocol Request
- Capability discovery
 - Does server support RFC7240 Prefer Async-Response

Async SCIM Request

PUT /Users/2819c223-7f76-453a-919d-413861904646

Host: scim.example.com

Prefer: respond-async

Content-Type: application/scim+json Authorization:

Bearer h480djs93hd8

```
{
  "schemas":["urn:ietf:params:scim:schemas:core:2.0:User"],
  "id":"2819c223-7f76-453a-919d-413861904646",
  "userName":"bjensen",
  "externalId":"bjensen",
  "name":{"formatted":"Ms. Barbara J Jensen III" },
  "roles":[],
  "emails":[ { "value":"bjensen@example.com" } ]
}
```

Async SCIM Response

Responds with normal SCIM location

HTTP/1.1 202 Accepted

Set-txn: 734f0614e3274f288f93ac74119dcf78

Location:

"/Users/2819c223-7f76-453a-919d-413861904646"

Responds with polling location

HTTP/1.1 202 Accepted

Set-txn: 734f0614e3274f288f93ac74119dcf78

Location:

"https://signals.example.com/txn/734f0614e3274f288f93ac74119dcf78"

Event Response

```
{
  "jti": "6164f3bbf6ff41a88dc94f18cb0620e8",
  "sub_id": {
    "format": "scim",
    "uri": "/Users/2819c223-7f76-453a-919d-413861904646"
  },
  "txn": "734f0614e3274f288f93ac74119dcf78",
  "events": {
    "urn:ietf:params:SCIM:event:misc:asyncResp": {
      "method": "PUT",
      "version": "W\/"huJj29dMNgu3WXPd\"",
      "status": "200"
    }
  },
  "iat": 1458505044,
  "iss": "https://scim.example.com",
  "aud": [
    "https://scim.example.com/Feeds/98d52461fa5bbc879593b7754"
  ]
}
```

The response that
would have been given
originally

Discovery

- New ServiceProviderConfig attributes
 - asyncRequest
 - NONE – not supported (default, client preference will be ignored)
 - LONG – only occurs if request runs longer than a service provider set threshold (client must indicate preferred)
 - REQUEST – will be completed on request (client must indicate preferred)
 - eventUris
 - An array of event types supported by the server. May be other event types too
 - Informational only

Demo and Discussion

- I2scim.io - SCIM Server
 - Open source Java scim engine
 - RFC8935 Event PUSH (Publish)
 - RFC8936 Event Polling (Receive)
- I2goSignals - Security Signals Router
 - Publisher and Receiver implementations of RFC8935 (SET PUSH), RFC8936 (SET POLL)
 - Can handle multiple streams and support
 - Cluster Replication, Multi-hop inter-domain exchange
 - Router can take event from inbound stream and route to 1 or more outbound streams
 - Other
 - Stream recovery (reset to date or JTI)
 - Planned to be OpenID SSF Compliant
 - Implemented in Go 1.19
 - Planning to publish soon

Demo Scenario

