

# SCIM Events Update

## draft-ietf-scim-events-03

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# Changes from Draft 02

- IANA – Set up new sub-registry for events within the SCIM Schema URN registry (minor fix still needed)
- Asynchronous Event Delivery
  - Added error response example for prefer-async
  - Added Bulk request support

# Asynchronous Requests

- Refresher
  - Used with normal RFC7644 SCIM Protocol
  - Requested by adding header "Prefer" with value "respond-async" (per RFC7240)
  - SCIM responds with:
    - Headers
      - Preference-Applied: respond-async
      - Set-txn: <txn-id>
  - The Async Event then has a corresponding "txn" value.
  - For bulk...

# Async Bulk Requests

- Because bulk expected to take a long time, obvious value in supporting async response
  - Also means that any SCIM Protocol request can now be async
- Issue: how to handle multiple operations?

# Async Bulk Request Proposal

- Same initial response as any other request
- A single async event is issued for *\*each\** operation in the bulk request
- The txn value of each event is the txn given in the original request response plus the operation number
  - E.g. 734f0614e3274f288f93ac74119dcf78-<n>
  - <n> is the operation number as originally submitted starting with 1
- Figures 18 – 21 show the async events generated if the example in RFC7644 Section 3.7.3 was made asynchronously.

# Async Bulk Response (fig 18)

```
{
  "jti": "dbae9d7506b34329aa7f2f0d3827848b",
  "sub_id": {
    "format": "scim",
    "uri": "/Users/92b725cd-9465-4e7d-8c16-01f8e146b87a"
  },
  "txn": "2d80e537a3f64622b0347b641ebc8f44-1",
  "events": {
    "urn:ietf:params:SCIM:event:misc:asyncResp": {
      "method": "POST",
      "bulkId": "qwerty",
      "version": "W\ /\ "oY4m4wn58tkVjJxK\ """,
      "status": "201"
    }
  },
  "iat": 1458505044,
  "iss": "https://scim.example.com",
  "aud": [
    "https://scim.example.com/Feeds/98d52461fa5bbc879593b7754"
  ]
}
```

# Status and Next Steps

- Implementations:
  - i2scim.io (Java)
  - i2goSignals (GoLang)
  - Work
- Draft 4 – minor fix to IANA (see SCIM mailing list)
- WGLC?