

# secevent drafts

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# Background

The secevent WG was active from Sep 2016 through June 2023

<a href="#">RFC 9493</a>	18 pages	2023-12
<b>Subject Identifiers for Security Event Tokens</b>	<b>Errata</b>	
<a href="#">RFC 8935</a>	15 pages	2020-11
<b>Push-Based Security Event Token (SET) Delivery Using HTTP</b>		
<a href="#">RFC 8936</a>	16 pages	2020-11
<b>Poll-Based Security Event Token (SET) Delivery Using HTTP</b>		
<a href="#">RFC 8417</a>	28 pages	2018-07
<b>Security Event Token (SET)</b>	<b>Errata</b>	

# Push Delivery (RFC 8935)

```
POST /Events HTTP/1.1  
Host: notify rp.example.com  
Accept: application/json  
Content-Type: application/secevent+jwt
```

Sender delivers a  
single event



```
eyJ0eXAiOiJzZW51dmVudCtqd3QiLCJhbGciOiJIUzI1NiJ9Cg.  
eyJpc3MiOiJodHRwczovL2lkC5leGFtcGxlLmNvbS8iLCJqdGkiOiI3NTZFNjk  
3Mtc1NjUyMDY5NjQ2NTZFNzQ2OTY2Njk2NTcyIiwiaWF0IjoxNTA4MTg0ODQ1LC  
JhdWQiOiI2MzZDNjk2NTZFNzQ1RjY5NjQiLCJldmVudHM6Ly9zYy9ldmVudC10eXB1L2FjY291  
bnQtZGlzYWJsZWQiOiI3ViamVjdCI6eyJzdWJqZW50X3R5cGU6IiJpc3Mtc3V  
iIiwiaXNzIjoiaHR0cHM6Ly9pZHAuZXhhbXBsZS5jb20vIiwic3ViIjoiaXNzM3NT  
YyNkE2NTYzNzQ1fSwicmVhcnR5IjoiaXNzZW50X3R5cGU6IiJpc3Mtc3V  
Y4rXxMD406P2edv00cr9Wf3_XwNtLjB9n-jTqN1_1Lc
```

# Poll Delivery (RFC 8936)


```
POST /Events HTTP/1.1
Host: notify.idp.example.com
Content-Type: application/json
```

```
{
  "returnImmediately": true,
  "ack": ["3d0c3cf797584bd193bd0fb1bd4e7d30"]
}
```


```
HTTP/1.1 200 OK
Content-Type: application/json
```

```
{
  "sets":
  {
    "eyJqdGkiOiI0ZDM1NT11YzY3NTA0YWFhYTY1ZDQwYjAzNjNmYWZkOCIsIm1hdC
    L3NjaW0uZXhhbXBsZS5jb20vVXN1cnMvNDRmNjE0MmRmOTZiZDZlYjYxZTc1Mj
    FkO0SIsImF0dHJpYnV0ZXMiOlsiaWQiLCJlYXN1IiwidXN1ck5hbWUiLCJwYXN",
    "eyJqdGkiOiIzZDBjM2NmNzk3NTg0YmQxOTNiZDBmYjFiZDRlN2QzMCIIsIm1hdC
    I6MTQ1ODQ5NjAyNSwiaXNzIjoiaHR0cHM6Ly9zY21tLmV4YW1wbGUuY29tIiw
    dvcmRSZXNldCI6eyJpZCI6IjQ0ZjYxNDJkZjk2YmQ2YWI2MmU3NTIxZDkifSwi
    aHR0cHM6Ly9leGFtcGxlLmNvbS9zY21tL2V2ZW50L3Bhc3N3b3JkUmVzZXRF
    eHQiOnsicmVzZXRBdHRlbnB0cyI6NX19fQ."
  }
}
```

Receiver asks for events and acknowledges previously received event



Sender delivers new event in HTTP response



# New Drafts

Multi-Push-Based Security Event Token (SET) Delivery

<https://datatracker.ietf.org/doc/draft-deshpande-secevent-http-multi-push/>

Push And Pull Based Security Event Token (SET) Delivery

<https://datatracker.ietf.org/doc/draft-tulshibagwale-saag-pushpull-delivery/>

# Multi-Push

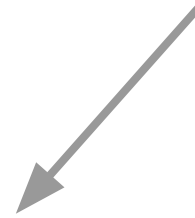
<https://datatracker.ietf.org/doc/draft-deshpande-secevent-http-multi-push/>

Extends Push Delivery (RFC 8935) to enable sending multiple events in a single HTTP POST.

```
POST /Events HTTP/1.1
Host: notify.rp.example.com
Accept: application/json
Content-Type: application/json
```

```
{
  "sets": {
    "4d3559ec67504aaba65d40b0363faad8":
      "eyJqdGkiOiI0ZDM1NTl1YzY3NTA0YWFiYTY1ZDQwYjAzNjNmYWFKOCIsIm1hdC
      I6MTQ1ODQ5NjQwNCwiaXNzIjoiaHR0cHM6Ly9zY21tLmV4YW1wbGUuY29tIiw
      iFkOSIsImF0dHJpYnV0ZXMiOlsiYWQiLCJyZW11IiwidXNlck5hbWUiLCJwYXNz
      d29yZCIsImVtYWlscyJdfX19.",
    "3d0c3cf797584bd193bd0fb1bd4e7d30":
      "eyJqdGkiOiIzZDBjM2NmNzk3NTg0YmQxOTNiZDBmYjFiZDRlN2QzMCIIsIm1hdC
      aHR0cHM6Ly9leGFtcGxlLmNvbS9zY21tL2V2ZW50L3Bhc3N3b3JkUmVzZXRF
      eHQiOncicmVzZXRBdHRlbXB0cyI6NX19fQ."
  }
}
```

Sender delivers  
multiple events



# Push-Pull Delivery

<https://datatracker.ietf.org/doc/draft-tulshibagwale-saag-pushpull-delivery/>

The existing RFCs assume a single-direction transfer of events. One party is a sender, the other party is the receiver.

Push-Pull enables parties to be both senders and receivers, as well as send and receive multiple events in each request. It also adds a WebSocket transport option.


# Push-Pull Delivery

<https://datatracker.ietf.org/doc/draft-tulshibagwale-saag-pushpull-delivery/>


```
POST /PushPull HTTP/1.1
Host: notify.rp.example.com
Accept: application/json
Content-Type: application/json
```

```
{
  "sets": {
    "dfc38da2-939e-4536-bec9-b8a16ed45c4e":
      "eyJqdGkiOiJkZmMzOGRhMi05MzllLTQ1MzYtYmVjOS1iOGExNmVkdndvJngUiLC
      JpYXQiOiJlbnR0Y0Y0MDQsImIzcyI6Imh0dHBzOi8vc2NpbS5leGFtcGx1LmNv
      cHM6Ly9zY2ltLmV4YW1wbGUuY29tL1VzZXJzLzQ0ZjYxNDJkZjk2YmQ2YWI2MW
      U3NTIxZDkiLCJhdHRyaWJ1dGVzIjpbImlkIiwibmFtZSI6InVzZXJOYW11Iiwic
      GZzc3dvcnQiLCJlbWVpbHM6X19fQ.XuVUJWU6180dcJ8bTRf-erMzFtQFY",
    "d93341ad-7329-4d1b-ba4a-9ff6f9f34003":
      "eyJqdGkiOiIzZDBjM2NmNzk3NTg0YmQxOTNiZDBmYjFiZDRlN2QzMCIsImIhdC
      dvcnRSZXN1dCI6eyJpZCI6IjQ0ZjYxNDJkZjk2YmQ2YWI2MWU3NTIxZDkifSwi
      aHR0cHM6Ly9leGFtcGx1LmNvbS9zY2ltL2V2ZW50L3Bhc3N3b3JkUmVzZXRFeH
      QiOnsicmVzZXRBdHRlbnR1bXB0cyI6NX19fQ."
  },
  "ack": [
    "f52901c4-3996-11ef-9454-0242ac120002",
    "50924f49-55a9-47ca-820d-b1161cb0a602",
    "d563c724-79a0-4ff0-ba41-657fa5e2cb11"
  ]
}
```

As a sender:  
delivers multiple events in  
HTTP request



As a receiver:  
acknowledges previously  
received events





# Dispatch?

## Current Status

- PushPull is currently AD-sponsored by Deb
- Multi-Push is an individual I-D

## Next Steps

- AD sponsor both drafts?
- Restart the secevent WG?
- ...?