

Event Filtering

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Requirements for Presence Specific Event Notification Filtering

- draft-ietf-simple-pres-filter-reqs-03
- Has been reviewed by appointed reviewers
- Changes:
 - Added filtering model section.
 - Rephrased some requirements for clarity.
 - Rearranged requirements into more appropriate sections

Requirements for Filtering of Watcher Information

- draft-ietf-simple-winfo-filter-reqs-01
- Has been reviewed by appointed reviewers
- Changes:
 - Added filtering model section.
 - Rephrased some requirements for clarity.
 - Rearranged requirements into more appropriate sections aligning them with presence filtering requirements

Functional Description of Event Notification Filtering

- draft-ietf-simple-event-filter-funct-00
- Changes:
 - Updated examples with the latest format.
 - Added filtering by domain text.

Functional Description Issue (1)

- A SUBSCRIBE request is allowed to carry multiple filters. Need to add text that disallows more than 1 filter per resource to be specified (eg: If the subscribe is for a list)

SUBSCRIBE sip:myfirends@domain.com SIP/2.0

...

```
<?xml version="1.0" encoding="UTF-8"?>
  <filter-set xmlns="urn:ietf:params:xml:ns:simple-filter"
             xmlns:pidf="urn:ietf:params:xml:ns:pidf">
    <filter id="8439" uri="sip:sarah@domain.com">
      <what>
        <include>//pidf:tuple/pidf:status/pidf:basic</include>
      </what>
    </filter>
    <filter id="999" uri="sip:sarah@domain.com">
      <what>
        <include type="namespace">urn:ietf:params:xml:ns:pidf</include>
        <exclude>//pidf:tuple/pidf:note</exclude>
      </what>
    </filter>
  </filter-set>
```

Functional Description Issue (2)

- Current text: “If the URI indicated by the filter is for one resource who's URI is NOT one of the URIs that result from a lookup, by the RLS, on the Request-URI, the filter is propagated to all the fanned out subscriptions.”
- List1 (list1@example1.com) on RLS1 has:
 - bob@example1.com
 - list2@example2.com
- List2 on RLS2 has:
 - alice@example2.com

Functional Description Issue (2)

- RLS1 receives the following SUBSCRIBE request
SUBSCRIBE sip:List1@example1.com SIP/2.0

...

```
<?xml version="1.0" encoding="UTF-8"?>
  <filter-set xmlns="urn:ietf:params:xml:ns:simple-filter"
             xmlns:pidf="urn:ietf:params:xml:ns:pidf">
    <filter id="8439" uri="sip:alice@example2.com">
      <what>
        <include>//pidf:tuple/pidf:status/pidf:basic</include>
      </what>
    </filter>
    <filter id="999" uri="sip:sarah@example1.com">
      <what>
        <include type="namespace">urn:ietf:params:xml:ns:pidf</include>
        <exclude>//pidf:tuple/pidf:note</exclude>
      </what>
    </filter>
  </filter-set>
```

- List1 (list1@example1.com) on RLS1 has:
bob@example1.com
list2@example2.com
- List2 on RLS2 has:
alice@example2.com

Functional Description Issue (2)

- Currently, this is propagated to RLS2

SUBSCRIBE sip:List2@example2.com SIP/2.0

...

```
<?xml version="1.0" encoding="UTF-8"?>
  <filter-set xmlns="urn:ietf:params:xml:ns:simple-filter"
             xmlns:pidf="urn:ietf:params:xml:ns:pidf">
    <filter id="8439" uri="sip:alice@example2.com">
      <what>
        <include>//pidf:tuple/pidf:status/pidf:basic</include>
      </what>
    </filter>
    <filter id="999" uri="sip:sarah@example1.com">
      <what>
        <include type="namespace">urn:ietf:params:xml:ns:pidf</include>
        <exclude>//pidf:tuple/pidf:note</exclude>
      </what>
    </filter>
  </filter-set>
```


Functional Description Issue (2)

- Need to clarify that if a filter is destined to a resource that is part of list that is outside the administrative domain of an RLS, then that filter is propagated. The rest are consumed.

SUBSCRIBE sip:List2@example2.com SIP/2.0

...

```
<?xml version="1.0" encoding="UTF-8"?>
  <filter-set xmlns="urn:ietf:params:xml:ns:simple-filter"
             xmlns:pidf="urn:ietf:params:xml:ns:pidf">
    <filter id="8439" uri="sip:alice@example2.com">
      <what>
        <include>//pidf:tuple/pidf:status/pidf:basic</include>
      </what>
    </filter>
  </filter-set>
```

Functional Description Issue (3)

- Need to clarify that a filter for an individual resource overrides a domain filter.

```
<?xml version="1.0" encoding="UTF-8"?>
```

```
  <filter-set xmlns="urn:ietf:params:xml:ns:simple-filter"
             xmlns:pidf="urn:ietf:params:xml:ns:pidf">
```

```
    <filter id="8439" uri="sip:example1.com">
```

```
      <what>
```

```
        <include>//pidf:tuple/pidf:status/pidf:basic</include>
```

```
      </what>
```

```
    </filter>
```

```
    <filter id="999" uri="sip:bob@example1.com">
```

```
      <what>
```

```
        <include type="namespace">urn:ietf:params:xml:ns:pidf</include>
```

```
        <exclude>//pidf:tuple/pidf:note</exclude>
```

```
      </what>
```

```
    </filter>
```

```
  </filter-set>
```

An Extensible Markup Language (XML) Base Format for Event Notification Filtering

- draft-ietf-simple-filter-format-00
- Changes:
 - Simplified format
 - removed <condition>
 - removed "level" attribute
 - Modified examples
 - Updated and validated schema
 - Added filtering by domain (only text, reusing URI attribute)
 - General text improvement
 - Updated references

Filter Format Issues (1)

- When removing a filter, a subscriber must explicitly do so by specifying the filter ID along with the “removed” attribute set to True.
- ```
<?xml version="1.0" encoding="UTF-8"?>
<filter-set xmlns="urn:ietf:params:xml:ns:simple-filter">
 <filter id="8439" removed="True"/>
</filter-set>
```

# Filter Format Issues (1)

- Should the rest of the elements/attributes be forbidden from appearing? If so, it solves the problem of 2 filters belonging to the same resource.

```
<?xml version="1.0" encoding="UTF-8"?>
 <filter-set xmlns="urn:ietf:params:xml:ns:simple-filter"
 xmlns:pidf="urn:ietf:params:xml:ns:pidf">
 <filter id="8439" uri="sip:alice@example1.com" removed="True">
 <what>
 <include>//pidf:tuple/pidf:status/pidf:basic</include>
 </what>
 </filter>
 <filter id="999" uri="sip:alice@example1.com">
 <what>
 <include type="namespace">urn:ietf:params:xml:ns:pidf</include>
 <exclude>//pidf:tuple/pidf:note</exclude>
 </what>
 </filter>
 </filter-set>
```