XEP-0063: Basic Filtering Operations

Robert Norris
mailto:rob@cataclysm.cx
xmpp:rob@cataclysm.cx

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Deferred   Informational      Not yet assigned

A module that provides basic conditions and actions for packet filtering.
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1 Introduction

This document defines a module for Packet Filtering (XEP-0062) \(^1\) that provides some basic conditions and actions to perform common packet filtering tasks. This module operates in the "http://jabber.org/protocol/filter/basic" namespace.

2 Conditions

This module defines the following conditions:

- `<message/>` - true if the packet is a `<message/>` packet.
- `<presence/>` - true if the packet is a `<presence/>` packet.
- `<iq/>` - true if the packet is a `<iq/>` packet. If this element contains CDATA, then it must match the namespace of the first element inside the packet (typically `<query/>`) in order to be true.
- `<to/>` - true when the CDATA of this element matches the "to" attribute of the packet.
- `<from/>` - true when the CDATA of this element matches the "from" attribute of the packet.
- `<type/>` - true when the CDATA of this element matches the "type" attribute of the packet.

Listing 1: Matches all presence packets

```xml
<presence xmlns='http://jabber.org/protocol/filter/basic' />
```

Listing 2: Matches all jabber:iq:version IQ packets

```xml
<iq xmlns='http://jabber.org/protocol/filter/basic'>jabber:iq:version</iq>
```

Listing 3: Matches all packets from user@company.com

```xml
<from xmlns='http://jabber.org/protocol/filter/basic'>user@company.com</from>
```

3 Actions

This module defines the following actions:

- `<drop/>` - drops the packet
- `<bounce/>` - bounces the packet with the error specified in the "code" attribute of this element.
- `<redirect/>` - redirects the packet to the JID specified in the CDATA of this element.
- `<copy/>` - sends a copy of the packet to the JID specified in the CDATA of this element, while giving the original packet to the user.

Listing 4: Pretend that we don’t exist

```xml
<bounce xmlns='http://jabber.org/protocol/filter/basic' code='404'/>
```

Listing 5: Send a copy to our home account

```xml
<copy xmlns='http://jabber.org/protocol/filter/basic'>me@home.com</copy>
```

4 Security Considerations

There are no security features or concerns related to this proposal.

5 IANA Considerations

This document requires no interaction with the IANA.

6 JANA Considerations

No namespaces or parameters need to be registered with JANA as a result of this document.