



XMPP

XEP-0063: Basic Filtering Operations

Robert Norris

<mailto:rob@cataclysm.cx>

<xmpp:rob@cataclysm.cx>

2003-09-30

Version 0.2

Status	Type	Short Name
Deferred	Informational	Not yet assigned

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

Legal

Copyright

This XMPP Extension Protocol is copyright © 1999 – 2017 by the [XMPP Standards Foundation](#) (XSF).

Permissions

Permission is hereby granted, free of charge, to any person obtaining a copy of this specification (the "Specification"), to make use of the Specification without restriction, including without limitation the rights to implement the Specification in a software program, deploy the Specification in a network service, and copy, modify, merge, publish, translate, distribute, sublicense, or sell copies of the Specification, and to permit persons to whom the Specification is furnished to do so, subject to the condition that the foregoing copyright notice and this permission notice shall be included in all copies or substantial portions of the Specification. Unless separate permission is granted, modified works that are redistributed shall not contain misleading information regarding the authors, title, number, or publisher of the Specification, and shall not claim endorsement of the modified works by the authors, any organization or project to which the authors belong, or the XMPP Standards Foundation.

Warranty

NOTE WELL: This Specification is provided on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE.

Liability

In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall the XMPP Standards Foundation or any author of this Specification be liable for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising from, out of, or in connection with the Specification or the implementation, deployment, or other use of the Specification (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if the XMPP Standards Foundation or such author has been advised of the possibility of such damages.

Conformance

This XMPP Extension Protocol has been contributed in full conformance with the XSF's Intellectual Property Rights Policy (a copy of which can be found at <https://xmpp.org/about/xsf/ipr-policy>) or obtained by writing to XMPP Standards Foundation, P.O. Box 787, Parker, CO 80134 USA).

Contents

1	Introduction	1
2	Conditions	1
3	Actions	2
4	Security Considerations	2
5	IANA Considerations	2
6	JANA Considerations	2

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

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

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

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

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

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

¹XEP-0062: Packet Filtering <<https://xmpp.org/extensions/xep-0062.html>>.

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

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

Listing 5: Send a copy to our home account

```
<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.