XEP-0064: XPath Filtering

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 an XPath matching condition for packet filtering.
Legal

Copyright

This XMPP Extension Protocol is copyright © 1999 – 2020 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).
1 Introduction

This document defines a module for Packet Filtering (XEP-0062) \(^1\) that provides an XPath matching condition for packet filtering. This module operates in the "http://jabber.org/protocol/filter/xpath" namespace.

2 Conditions

This module defines the following conditions:

- `<xpath/>` - true if the XPath expression contained in the CDATA of this element, when applied to the packet, returns one or more nodes.

Listing 1: Matches all messages with that have a subject element

```xml
<xpath xmlns='http://jabber.org/protocol/filter/xpath'/>/message/subject</xpath>
```

Listing 2: Matches all presence packets that have an x:delay stamp

```xml
<xpath xmlns='http://jabber.org/protocol/filter/xpath'/>/presence/x[
   namespace-uri()=='jabber:x:delay']</xpath>
```

3 Security Considerations

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

4 IANA Considerations

This document requires no interaction with the IANA.

5 JANA Considerations

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