This specification provides a way for XMPP entities to have a privileged access to some other entities data.
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2 Requirements

A privileged entity must be able to do what a PEP service can do and to access roster, so it must be able to (according to configuration):

- get and modify the roster of any entity managed by the server, and optionally get roster pushes

---

4 ACCESSING ROSTER

- send a <message/> stanza on behalf of the server
- send a <iq/> stanza on behalf of a server user
- access <presence/> informations for entities in a managed entity’s roster (and for managed entity itself)

The privilege mechanism MUST be totally transparent for the managed entities.

3 Glossary

- **Privileged entity** — the entity which has a privileged status.
- **Managed entity** — the entity that is managed by a privileged entity.

4 Accessing Roster

4.1 Server Allows Roster Access

Roster access is granted in the server configuration. Roster access can have 4 types:

- **none** — the entity is not allowed to access managed entity roster at all. This is usually the default value.
- **get** — the entity is allowed to send <iq/> stanzas of type 'get' for the namespace 'jabber:iq:roster'.
- **set** — the entity is allowed to send <iq/> stanzas of type 'set' for namespace 'jabber:iq:roster'.
- **both** — the entity is allowed to send <iq/> stanzas of type 'get' and 'set' for namespace 'jabber:iq:roster'.

Roster access MAY have an optional "push" argument which can be set to "true" or "false" and SHOULD default to "true" if roster permission access type is either "get" or "both", and to "false" otherwise.

If set to "true", the server will send roster pushes as explained below. If set to "false", the server MUST NOT send roster pushes. The "false" value is mostly there to save resources if the managing entity knows that it doesn’t need to be notified of roster updates. Roster pushes MUST NOT be sent if roster permission type is either "none" or "set".
4.2 Server Advertises Entity Of Allowed Permission

Once a privileged entity is authenticated and stream is started, the server send it a <message/> stanza with a <privilege/> elements which MUST have the namespace 'urn:xmpp:privilege:2'. This element contains <perm/> elements which MUST contain a 'access' attribute of the value "roster" and a 'type' attribute which must correspond to the type configured as specified in "Server Allows Roster Access" section.

The <perm> element MAY contain a 'push' attribute with a value of either "true" or "false" according to configuration. If the 'push' attribute is omitted, it defaults to "true" if "roster" permission is "get" or "both", otherwise it’s set to "false". If `push` is "true", roster pushes MUST be transmitted, if 'push' is "false" they MUST NOT be transmitted.

<table>
<thead>
<tr>
<th>Listing 1: Server Advertises Roster Privilege</th>
</tr>
</thead>
</table>
| `<message from='capulet.net' to='pubub.capulet.lit' id='12345'>
  <privilege xmlns='urn:xmpp:privilege:2'>
    <perm access='roster' type='both' push='true'/>
  </privilege>
</message>` |

Here pubsub.capulet.lit is allowed to do get and set operations on all entities managed by capulet.lit.

4.3 Privileged Entity Manage Roster

Doing a get or set operation on the roster of a managed entity is done in the usual way (as described in RFC 6121 section 2), except that the 'to' attribute is set to the attribute of the managed entity. The server MUST check that the privileged entity has right to get or set the roster of managed entity, and MUST return a <forbidden/> error if it is not the case:

<table>
<thead>
<tr>
<th>Listing 2: Privileged Entity Get Managed Entity Roster</th>
</tr>
</thead>
</table>
| `<iq id='roster1' from='pubsub.capulet.lit' to='juliet@example.com' type='get' id='roster1'>
  <query xmlns='jabber:iq:roster'/>
</iq>` |

The server then answers normally, as it would have done to the managed entity:

---

4.4 Server Sends Roster Pushes

If "push" attribute is unset or set to "true" and roster permission type is either "get" or "both", the server MUST send roster pushes when there is a newly created, updated or deleted roster item for roster of any managed entity. A roster push is built as explained in XMPP IM \(^5\) with a 'from' attribute explicitly set to the bare jid of the managed entity.

Listing 4: Server Send Roster Push of Juliet to Privileged Entity

```xml
<iq id='roster_push_1'
  from='juliet@capulet.lit'
  to='pubsub.capulet.lit'
  type='set'>
  <query xmlns='jabber:iq:roster'>
    <item jid='nurse@example.com'/>
  </query>
</iq>
```

5 Message Permission

5.1 Authorizing Messages

In some cases, it can be desirable to send notifications (e.g. PEP service), so the privileged entity must be able to send <message/> stanzas. This is allowed in server configuration in the same way as for roster permission. The permission type can have the following values:

- **none** — the entity is not allowed to send <message/> stanza in the name of the server. This is usually the default value.
- **outgoing** — the entity is allowed to send <message/> stanzas in the name of the server, according to following restrictions.

A privileged entity can then send a message on behalf of the server or of a bare JID of an entity managed by the server (i.e. a bare JID with the same domain as the server), using Stanza Forwarding (XEP-0297) \(^6\). The `<forwarded/>` element MUST be a child of a `<privilege/>` element with a namespace of `urn:xmpp:privilege:2`, with the following restriction:

1. `forwarded <message/>` 'from' attribute MUST be a bare JID from the server, no resource is allowed

If this rule is violated, the server MUST return a `<message/>` error with condition `<forbidden/>`, as in RFC 6120 \(^7\) section 8.3.3.4.

### 5.2 Advertising Permission

Server advertises "message" permission in the same way as for "roster" permission, except that 'access' attribute has the value of "message", and the 'type' attribute as a value of 'outgoing':

Listing 5: Server Advertises Roster And Message Privileges

```xml
<message from='capulet.net' to='pubub.capulet.lit' id='54321'>
  <privilege xmlns='urn:xmpp:privilege:2'>
    <perm access='roster' type='both' push='true'/>
    <perm access='message' type='outgoing'/>
  </privilege>
</message>
```

### 5.3 Sending Messages

Now that `pubsub.capulet.lit` is allowed, it can send messages using `<forwarded/>` elements.

Listing 6: privileged entity send a notification message

```xml
<message from='pubsub.capulet.lit' to='capulet.lit' id='notifi'>
  <privilege xmlns='urn:xmpp:privilege:2'>
    <forwarded xmlns='urn:xmpp:forward:0'>
      <message from='juliet@capulet.lit' id='foo'
                to='romeo@montague.lit/orchard'
                xmlns='jabber:client'>
        <event xmlns='http://jabber.org/protocol/pubsub#event'>
          <items node='http://jabber.org/protocol/tune'/>
      </message>
    </forwarded>
  </privilege>
</message>
```

The server sees that forwarded message 'from' attribute (juliet@capulet.lit) is a bare JID of the server, and that outgoing message permission was granted; it can now send the notification:

Listing 7: server sends the notification as if it was originating from him

```xml
<message from='juliet@capulet.lit' id='bar'
to='romeo@montague.lit/orchard'>
  <event xmlns='http://jabber.org/protocol/pubsub#event'>
    <items node='http://jabber.org/protocol/tune'>
      <item>
        <tune xmlns='http://jabber.org/protocol/tune'>
          <artist>Gerald Finzi</artist>
          <length>255</length>
          <source>Music for "Love's_Labors_Lost" (Suite for small orchestra)</source>
          <title>Introduction (Allegro vigoroso)</title>
          <track>1</track>
        </tune>
      </item>
    </items>
  </event>
</message>
```

6 IQ permission

6.1 IQ Stanzas on Behalf of a Server User

It may be necessary for a component to send <iq/> stanzas on behalf of a server user. This is, for instance, the case for a pubsub component willing to implement Pubsub Account.
To do this, an "iq" permission must be granted in server configuration. To grant an "iq" permission, authorised namespaces must be specified and associated to a value indicating the type of <iq/> request which are allowed. The value is similar to the roster access type, there are 4 values possible:

- **none** — the entity is not allowed to send <iq/> stanzas for this namespace.
- **get** — the entity is allowed to send <iq/> stanzas of type 'get' for this namespace.
- **set** — the entity is allowed to send <iq/> stanzas of type 'set' for this namespace.
- **both** — the entity is allowed to send <iq/> stanzas of type 'get' and 'set' for this namespace.

### 6.2 Advertising Permission

Server advertises "iq" permission by using a <perm> element with an 'access' attribute of the value "iq" and without 'type' attribute. This element MAY contain any number of <namespace> elements with a 'ns' attribute of the value of the granted namespace, and a 'type' attribute with one of the value indicated in previous section.

**Listing 8: Server Advertises IQ Privilege**

```xml
<message from='capulet.net' to='pubub.capulet.lit' id='iq_perm_1'>
  <privilege xmlns='urn:xmpp:privilege:2'>
    <perm access='iq'>
      <namespace ns='http://jabber.org/protocol/pubsub' type='set' />
    </perm>
  </privilege>
</message>
```

Here pubsub.capulet.lit is allowed to send <iq/> stanza of type set with the namespace 'http://jabber.org/protocol/pubsub' on behalf of any entity managed by capulet.lit.

### 6.3 Sending IQ Stanzas

Sending an <iq/> stanza on behalf of a user is done by following those steps:

- generate the <iq/> stanza which much be sent on behalf of the user, we call it "encapsulated <iq/> stanza". The 'type' attribute and the namespace of the payload element must match the "iq" permission granted by the server. This <iq/> stanza MUST have a namespace of "jabber:client"
the encapsulated <iq/> stanza MUST either have no 'from' attribute, or a 'from' attribute set to the bare JID of the entity on behalf of who the privileged entity is doing the request

- encapsulate the <iq/> request in a <privileged_iq> element with a namespace of 'urn:xmpp:privilege:2'

- use the <privileged_iq> element as payload of a top-level <iq/> request addressed to the bare JID of the managed entity

- use the same type for top-level <iq/> request as for the encapsulated <iq/> request

The server MUST refuse the request with a <forbidden/> error if any of the following condition happens:

- the 'to' attribute of the top-level <iq/> stanza is not a bare JID of a managed entity

- the requesting entity has not the permission granted for the namespace used in payload of the encapsulated <iq/> stanza

- the requesting entity has not the permission granted for the type of <iq/> request used in the encapsulated <iq/> stanza for the namespace used in its payload

- the namespace of the encapsulated <iq/> stanza is not "jabber:client"

- the 'from' attribute of the encapsulated <iq/> stanza exists and is set to a JID which doesn’t match the 'to' attribute of the top-level <iq/> stanza.

- the 'type' attribute of the top-level <iq/> stanza does not match the 'type' attribute of the encapsulated <iq/> stanza

Once the server gets the <iq/> response, it sends it back to privileged entity using a Stanza Forwarding (XEP-0297)\(^9\) <forward> element encapsulated in a <privilege> element with a namespace of 'urn:xmpp'.

In following example, the pubsub component pubsub.capulet.lit handles Pubsub Account Management (XEP-0376)\(^10\). After getting a pubsub subscribe request, from Juliet to subscribe to Romeo’s blog, it forward it to Romeo’s server:

```xml
<iq
  from='pubsub.capulet.lit'
  to='juliet@capulet.lit'
  type='set'
  id='priv_iq_1'>
  <privileged_iq xmlns='urn:xmpp:privilege:2'>
</iq>
```


---

**Listing 9: Privileged Entity Send an <iq/> Stanza on Behalf of Juliet**

---

8
When receiving this stanza, the server does a couple of things:

- It checks that top-level `<iq/>` stanza is addressed to the bare JID of a managed entity: it’s the case for `juliet@capulet.lit`.

- It decapsulate the encapsulated `<iq/>` stanza, check that it’s namespace is `jabber:client` and that its `type` attribute has the same value as the top-level `<iq/>` stanza. It’s ”set” in both case, so it’s good.

- It gets the payload of the encapsulated `<iq/>` stanza, and checks that `pubsub.capulet.lit` is authorised to send priviled `<iq/>` for its namespace with the given `<iq/>` type. Here the payload has a namespace of `http://jabber.org/protocol/pubsub` and the `<iq/>` a type of ”set”, this combination is authorised for `pubsub.capulet.lit`, it’s good.

- It checks that the encapsulated `<iq/>` stanza either has no ‘from’ attribute or has a ‘from’ attribute matching the bare JID set in ‘to’ attribute of the top-level `<iq/>` stanza. Here no ‘from’ attribute is set, it’s good.

- It sets the ‘from’ attribute of the encapsulated `<iq/>` stanza to same value as the ‘to’ attribute of the top-level `<iq/>` stanza (i.e. the bare JID of the managed entity).

- Once everything is checked, it can then send the encapsulated `<iq/>` as if it were sent by Juliet herself (the only difference is that the ‘from’ attribute has no resource while it would have the resource of Juliet’s client if she was sending it herself).

Listing 10: Server Send the Encapsulated `<iq/>` Stanza

```xml
<iq
   xmlns='jabber:client'
   type='set'
   from='juliet@capulet.lit'
   to='roméo@montaigu.lit'
   id='sub_1'>
   <pubsub xmlns='http://jabber.org/protocol/pubsub'>
     <subscribe
       node='urn:xmpp:microblog:0'
       jid='juliet@capulet.lit'/>
   </pubsub>
</iq>
</privileged_iq>
</iq>
```
The server will then get the response with a type of either "result" or "error" as specified in XMPP Core \[\text{\footnotesize 11}\]. It sends it back to \texttt{pubsub.capulet.lit} using a Stanza Forwarding (XEP-0297) \[\text{\footnotesize 12}\] <forward> element:

\begin{verbatim}
<subscribe
data='urn:xmpp:micropub:0'
jid='juliet@capulet.lit'/>
</pubsub>
</iq>
\end{verbatim}

\begin{quote}
The server will then get the response with a type of either "result" or "error" as specified in XMPP Core \[\text{\footnotesize 11}\]. It sends it back to \texttt{pubsub.capulet.lit} using a Stanza Forwarding (XEP-0297) \[\text{\footnotesize 12}\] <forward> element:

Listing 11: Server Gets the <iq/> Response and Forward it to Privileged Entity

\begin{verbatim}
<iq type='result'
  from='romeo@montaigu.lit'
  to='juliet@capulet.lit'
  id='sub_1'>
<pubsub xmlns='http://jabber.org/protocol/pubsub'>
<subscription
  node='urn:xmpp:micropub:0'
  jid='juliet@capulet.lit'
  subid='some_id'
  subscription='subscribed'/>
</pubsub>
</iq>

<iq type='result'
  from='juliet@capulet.lit'
  to='pubsub.capulet.lit'
  id='priv_iq_1'>
<privilege xmlns='urn:xmpp:privilege:2'>
<forwarded xmlns='urn:xmpp:forward:0'>
<iq type='result'
  from='romeo@montaigu.lit'
  to='juliet@capulet.lit'
  id='sub_1'>
<pubsub xmlns='http://jabber.org/protocol/pubsub'>
<subscription
  node='urn:xmpp:micropub:0'
  jid='juliet@capulet.lit'
  subid='some_id'
  subscription='subscribed'/>
</pubsub>
</iq>
</forwarded>
</privilege>
\end{verbatim}

7 Presence Permission

7.1 Managed Entity Presence

It can be often desirable for a privileged entity to have presence information of the managed entities (e.g. to know when to send them notifications). As privileges must be transparent for the managed entity, this presence has to be sent by the server without modifying managed entity roster. This is allowed in server configuration in the same way as for roster and message permissions. The "presence" type can have the following values:

- **none** — the entity is not allowed to access <presence/> informations at all. This is usually the default value.
- **managed_entity** — the entity is allowed to receive managed entity presence (see below).
- **roster** — the entity is allowed to receive presence informations of managed entity contacts, see Roster Presence section.

If the privilege is granted, the server MUST use a directed presence from the full jid of the managed entity, to the privileged entity, as specified in RFC 6121 § 4.6, on the behalf of managed entity each time its presence information change. Only initial <presence/> stanzas and <presence/> stanzas with a 'type' attribute with the value "unavailable" are transmitted to the privileged entity, the server MUST NOT transmit any other <presence/> stanza.

7.2 Advertising Permission

Server advertises "presence" permission in the same way as for "roster" or "message" permissions, except that 'access' attribute has the value of "presence", and the 'type' attribute has a value of "managed_entity"

7.3 Server Send presence informations

Once the "presence" permission is granted, the server send presence informations:

---

7.4 Roster Presence

In addition to "managed entity presence", a privileged entity may need to know when a contact in managed entity roster is online (for example, it’s necessary for a PEP service because of the presence default access model).

As for other permissions, the access is granted in server’s configuration, but there is an additional restriction: the privileged entity MUST have read permission on roster namespace (i.e. 'type' attribute in allowed <perm> of access roster MUST have a value of either get or both).

If the privilege is granted, the server MUST send to the privileged entity every presence information with no 'type' attribute or with a 'type' with a value of 'unavailable' that the privileged entity is receiving or would receive if it were available. It do it in the same way as for managing entity by using directed <presence/> from the full jid of the entity from which presence information has changed, to the privileged entity. If the managed entity is unavailable but the privileged entity is available, the server MUST send <presence/> stanza to the later anyway.

Having "roster" type for "presence" permission imply that you have also implicitly "managed_entity" type.

The server MUST reject the permission if the privileged entity doesn’t have read permission on roster namespace.

Note: this permission should be given carefully, as it gives access to presence of potentially a lot of entities to the privileged entity (see security considerations).

7.5 Advertising Permission

Server advertises roster "presence" permission in the same way as for other permissions, except that the 'access' attribute has the value of "presence", and the 'type' attribute has a
value of "roster"

Listing 14: Server Advertises Roster, Message, Managed Entity Presence and Roster Presence Privileges

```xml
<message from='capulet.net' to='pubub.capulet.lit' id='54321'>
  <privilege xmlns='urn:xmpp:privilege:2'>
    <perm access='roster' type='both' push='true'/>
    <perm access='message' type='none'/>
    <perm access='iq'>
      <namespace ns='http://jabber.org/protocol/pubsub' type='set'/>
    </perm>
    <perm access='presence' type='roster'/>
  </privilege>
</message>
```

Note the presence of roster permission request.

7.6 Privileged Entity Receive Roster Presences

Listing 15: server receives new presence from Romeo, which is in Juliet’s roster

```xml
<presence from='romeo@montaigu.lit/orchard'/>
```

Listing 16: server sends the presence as usually, but also to the privileged entity

```xml
<presence from='romeo@montaigu.lit/orchard' to='juliet@capulet.lit'/>
<presence from='romeo@montaigu.lit/orchard' to='pubsub.capulet.lit'/>
```

8 Business Rules

1. For "presence" access, if a privileged entity is connected after first `<presence/>` stanzas have been received, the server MUST send it all the `<presence/>` stanzas with no 'type' attribute it would have had if it was connected first (in other words: all the presences informations for connected entities it has access to).

2. For "presence" access, if a privileged entity is supposed to received several time the same `<presence/>` stanza, the server SHOULD send it only once. For example: if pubsub.capulet.lit has a "presence" access with a "roster" type for capulet.lit, and juliet@capulet.lit and nurse@capulet.it both have romeo@montague.lit in their roster. When romeo is available, pubsub.capulet.lit shoud have its `<presence/>` stanza only once (instead of 2 times).


9 Security Considerations

1. Privileged entity has access to sensitive data, and can act as the server itself, permissions should be granted carefully, only if you absolutely trust the entity.

2. Roster presence is particularly sensitive, because presence informations of whole rosters are shared.

3. IQ permission namespaces and types must be granted carefully, as they allow component to act on behalf of any user of the server.

4. Generally, the server MUST NOT allow the privileged entity to do anything that the managed entity could not do.

10 IANA Considerations

This document requires no interaction with the Internet Assigned Numbers Authority (IANA).

11 XMPP Registrar Considerations

11.1 Protocol Namespaces

The XMPP Registrar includes ‘urn:xmpp:privilege:2’ in its registry of protocol namespaces (see <https://xmpp.org/registrar/namespaces.html>).

- urn:xmpp:privilege:2

11.2 Protocol Versioning

If the protocol defined in this specification undergoes a revision that is not fully backwards-compatible with an older version, the XMPP Registrar shall increment the protocol version number found at the end of the XML namespaces defined herein, as described in Section 4 of XEP-0053.

---

14 The Internet Assigned Numbers Authority (IANA) is the central coordinator for the assignment of unique parameter values for Internet protocols, such as port numbers and URI schemes. For further information, see <http://www.iana.org/>.

15 The XMPP Registrar maintains a list of reserved protocol namespaces as well as registries of parameters used in the context of XMPP extension protocols approved by the XMPP Standards Foundation. For further information, see <https://xmpp.org/registrar/>.
12 XML Schema

```xml
<?xml version='1.0' encoding='UTF-8'?>
<xs:schema
 xmlns:xs='http://www.w3.org/2001/XMLSchema'
 targetNamespace='urn:xmpp:privilege:2'
 xmlns='urn:xmpp:privilege:2'
 elementFormDefault='qualified'>
  <xs:element name='privilege'>
    <xs:complexType>
      <xs:element name='perm' maxOccurs='unbounded'>
        <xs:complexType>
          <xs:attribute name='access' use='required' type='xs:string'/>
        </xs:complexType>
        <xs:attribute name='type' use='optional'>
          <xs:simpleType base='xs:NMTOKEN'>
            <xs:enumeration value='roster'/>
            <xs:enumeration value='message'/>
            <xs:enumeration value='presence'/>
          </xs:simpleType>
        </xs:attribute>
        <xs:attribute name='push' type='xs:boolean' use='optional' default='true'/>
      </xs:element>
      <xs:element name='namespace' maxOccurs='unbounded' use='optional'>
        <xs:complexType>
          <xs:attribute name='ns' use='required' type='xs:string'/>
        </xs:complexType>
      </xs:element>
    </xs:complexType>
  </xs:element>
</xs:schema>
```
13 Acknowledgements

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Privileged entity was initially written to be a generic identity based access control (IBAC) which allows an entity to access sensitive data. After a discussion on standard mailing list, it has been decided to restrict the current XEP to immediate needs to build an external PEP service, and to implement separately an Attribute Based Access Control (ABAC) which is more modern, generic and flexible. This XEP is still interesting for being easy to implement and doing the job.