

3.2 Anonymous Element

WS-Addressing defines a `wswa:Anonymous` element that is only used in conjunction with `wswa:UsingAddressing` (or its equivalent `wsoap:module`, see section [3.3 WSDL SOAP Module](#)) element. The usage of `wswa:Anonymous` element is associated with the usage constraints specified for the `wswa:UsingAddressing` element. Hence, it **MUST NOT** contain the `wSDL:required` attribute.

A WSDL or policy based service description that includes the `wswa:UsingAddressing` but no `wswa:Anonymous` marker makes no assertion regarding a requirement or a constraint in the use of the anonymous URI in EPRs contained in messages sent to the endpoint. In this cases, endpoint service descriptions have to rely on additional metadata, such as WSDL bindings or additional policy assertions, to indicate any requirements or restrictions on the use of the anonymous URI by clients. However, in the absence of additional metadata, clients of the endpoint **MAY** assume that the service endpoint follows the behavior indicated by the 'optional' value of the `wswa:Anonymous` marker. An endpoint **SHOULD** send a `wsa:OnlyAnonymousAddressSupported` or a `wsa:OnlyNonAnonymousAddressSupported` fault back to the client if a message received includes a response epr with an [address] that is unsupported by the endpoint.

The `wswa:Anonymous` element, if present, **MUST** have one of three distinct values that indicate three different levels of support for handling anonymous addresses in EPRs. In the following text, the term response endpoint EPR refers to the [reply endpoint] and [fault endpoint] message addressing properties collectively.

- "optional": This value indicates that a response endpoint EPR in a request message **MAY** contain an anonymous URI as an address.
- "required": This value indicates that all response endpoint EPRs in a request message **MUST** always use anonymous URI or none URI as an address**or contain the attribute `wswa:isAnon` with a value of 'true'**. See [Section 3.2.1 below](#).

If a response endpoint EPR does not contain the anonymous URI as an address value, then a predefined `InvalidAddressingHeader` fault defined in Web Services Addressing 1.0 - SOAP Binding [[WS-Addressing SOAP Binding](#)] **MUST** be generated.

- "prohibited": This value indicates that any response EPRs in a request message **MUST NOT** use anonymous URI as an address:**or contain the attribute `wswa:isAnon` with a value of 'true'**. See [Section 3.2.1 below](#).

If a response endpoint EPR contains the anonymous URI as an address value, then a predefined `InvalidAddressingHeader` fault defined in Web Services Addressing 1.0 - SOAP Binding [[WS-Addressing SOAP Binding](#)] **MUST** be generated.

This element **MAY** appear as a child of an operation element in a binding element in WSDL 1.1, or as a binding operation extension element in WSDL 2.0.

Example 3-3. Indicating use of anonymous addresses using `wswa:Anonymous`.

```
<binding name="reservationSOAPBinding" type="tns:reservationInterface">
  <soap:binding style="document" transport="http://schemas.xmlsoap.org/soap/http"
/>
  <wswa:UsingAddressing wSDL:required="true" />
  <operation name="opCheckAvailability">
    <soap:operation
soapaction="http://greath.example.com/2004/wSDL/resSvc/opCheckAvailability" />
    <input>
```

```
    <soap:body use="literal" />
  </input>
  <output>
    <soap:body use="literal" />
  </output>
  <wsaw:Anonymous>required</wsaw:Anonymous>
</operation>
</binding>
```

3.2.1 wsaw:isAnon Attribute

wsaw:isAnon attribute is of type xs:boolean and can occur as an attribute on wsa:Address element in an endpoint reference. The occurrence of this attribute on a wsa:Address element with a value of 'true' indicates that the EPR references an endpoint that cannot be located with a meaningful IRI similar to "http://www.w3.org/2005/08/addressing/anonymous". This attribute is used in response EPRs in conjunction with the wsaw:Anonymous element. (See Section 3.2 above).