

3.2 Anonymous Element

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

A WSDL or policy based service description that includes the `wsaw:UsingAddressing` but no `wsaw:NewConnection` marker makes no assertion regarding a requirement or a constraint on the response 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 response EPRs 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 `wsaw:NewConnection` marker.

In the following text, the term response endpoint EPR refers to the [reply endpoint] and [fault endpoint] message addressing properties collectively, and the term addressable EPR refers to the ability to initiate a new connection to that EPR. Examples of non-addressable EPRs are EPRs containing “`http://www.w3.org/2005/08/addressing/anonymous`” as the value of `wsa:Address`, EPRs containing a URI that matches the URI template defined in WS-ReliableMessaging Section 3.7 [informative ref] as the value of `wsa:Address`. The `wsaw:NewConnection` element, if present, **MUST** have one of three distinct values that indicate three different levels of support for handling addressable response endpoints EPRs.

- "optional": This value indicates that a response endpoint EPR in a request message **MAY** be addressable.
- "required": This value indicates that all response endpoint EPRs in a request message **MUST** be addressable .

If a response endpoint EPR is not addressable , 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** be addressable.

If a response endpoint EPR is an addressable , 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 addressable response endpoints using `wsaw:NewConnection`.

```

<binding name="reservationSOAPBinding"
type="tns:reservationInterface">
  <soap:binding style="document"
transport="http://schemas.xmlsoap.org/soap/http" />
  <wsaw:UsingAddressing wsdl:required="true" />
  <operation name="opCheckAvailability">
    <soap:operation
soapaction="http://greath.example.com/2004/wsdl/resSvc/opCheckAvailab
ility" />
    <input>
      <soap:body use="literal" />
    </input>
    <output>
      <soap:body use="literal" />
    </output>
    <wsaw:NewConnection>required</wsaw:NewConnection>
  </operation>
</binding>

```

3.2.1 WSDL 2.0 Component Model Changes

Use of the NewConnection element adds the following property to the WSDL 2.0 component model:

- {addressable response endpoint} OPTIONAL, of type xs:string, to the Binding Operation component.

[Table 3-3](#) shows the mapping from the XML representation to the WSDL 2.0 component model.

Table 3-3. Mapping from XML Representation to Binding Operation component Extension Properties

Property	Value
{addressable response endpoint}	The value of the <code>wsaw:NewConnection</code> <i>element information item</i> , if present. Otherwise, it is not present.

Update 3.1.2, 3.3's refer to `wsaw:Anonymous` accordingly.