# WS-Schema Validation Policy Usage Scenarios





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## **WS-Schema Validation Policy Usage Scenarios**

This document provides a list of WS-Security Schema Validation Policy usage scenarios.

### Scenario 1: Runtime with "LAX"

1 Create a physical service.

http://10.7.20.21/EchoSan/Echo.asmx?wsdl

- 2 Virtualize and host it on Network Director (Example service name: **Vs1**).
- 3 Configure a WS-Schema Validation Policy.



- 4 Attach the **Detailed Auditing** and **WS-Schema Validation** policies to **Vs1** service.
- 5 Create a project in client (SOAP UI) using Vs1 WSDL URL.

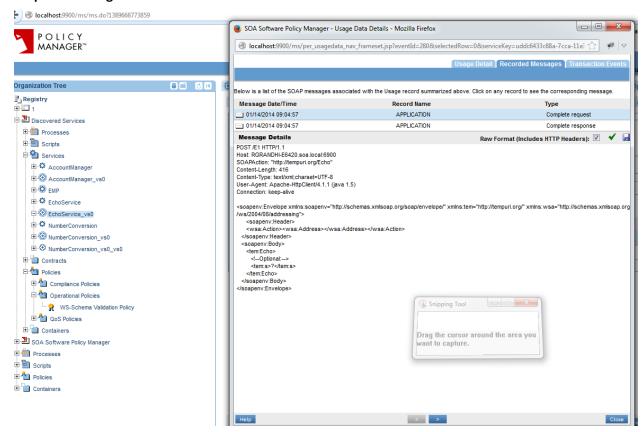
#### **Actual SOAP Request:**

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:tem="http://tempuri.org/">
  <soapenv:Header/>
  <soapenv:Body>
  <tem:Echo>
    <!--Optional:-->
    <tem:s>?</tem:s>
    </tem:Echo>
    </soapenv:Body>
</soapenv:Body>
</soapenv:Envelope>
```

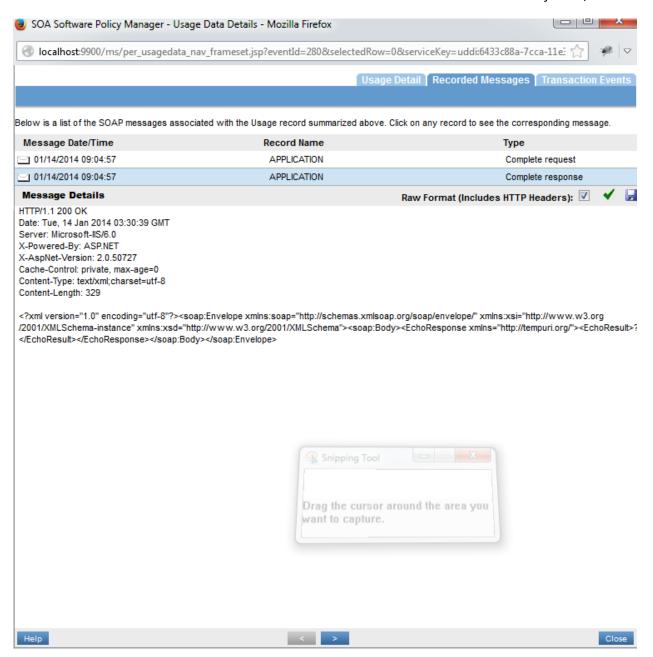
#### **Update SOAP Rrequest with WS-Addressing Elements:**

- 6 Send request from client (SOAP UI). The request will be processed success fully.
- 7 Navigate to **Vs1** service  $\rightarrow$  Monitoring  $\rightarrow$  Logs.

#### **Request Message:**



#### Response Message:

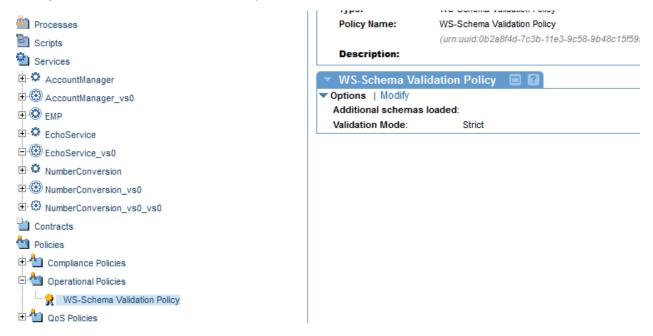


# Scenario 2: Runtime with "Strict" (Valid Schema is not Selected)

1 Create a physical service.

http://10.7.20.21/EchoSan/Echo.asmx?wsdl

- 2 Virtualize and host it on Network Director (Example service name: Vs1).
- 3 Configure a WS-Schema Validation Policy.



- 4 Attach the **Detailed Auditing** and **WS-Schema Validation** policies to **Vs1** service
- 5 Create a project in client (SOAP UI) using **Vs1** WSDL URL.

#### **Actual SOAP Request:**

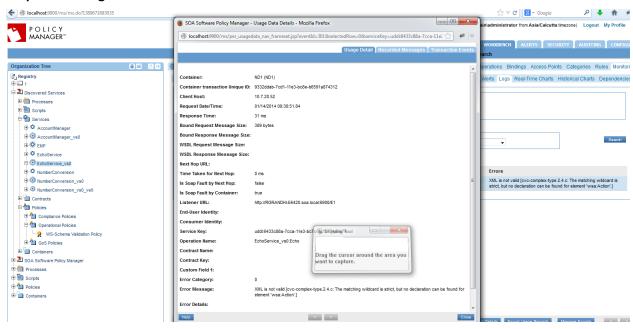
```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:tem="http://tempuri.org/">
  <soapenv:Header/>
  <soapenv:Body>
  <tem:Echo>
    <!--Optional:-->
    <tem:s>?</tem:Echo>
    </tem:Echo>
  </soapenv:Body>
</soapenv:Body>
</soapenv:Envelope>
```

#### **Update SOAP Request with WS-Addressing Elements:**

```
<soapenv:Body>
<tem:Echo>
<!--Optional:-->
<tem:s>?</tem:s>
</tem:Echo>
</soapenv:Body>
</soapenv:Envelope>
```

- 6 Send request from client (SOAP UI). Request will fail.
- 7 Navigate to **Vs1** Service → Monitoring → Logs

#### **Request Message:**



#### **Error Message:**

XML is not valid [cvc-complex-type.2.4.c: The matching wildcard is strict, but no declaration can be found for element 'wsa:Action'.]

Note: Valid schema is not selected.

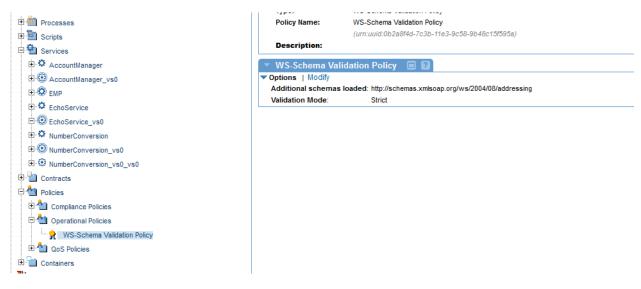
### Scenario 3: Runtime with "Strict" (Valid Schema is Enabled)

#### Schema Name: http://schemas.xmlsoap.org/ws/2004/08/addressing

1 Create a physical service.

http://10.7.20.21/EchoSan/Echo.asmx?wsdl

- 2 Virtualize and host it on Network Director (Example service name: Vs1).
- 3 Configure a WS-Schema Validation Policy.



- 4 Attach the **Detailed Auditing** and **WS-Schema Validation** policies to **Vs1** service.
- 5 Create a project in client (SOAP UI) using Vs1 WSDL URL.

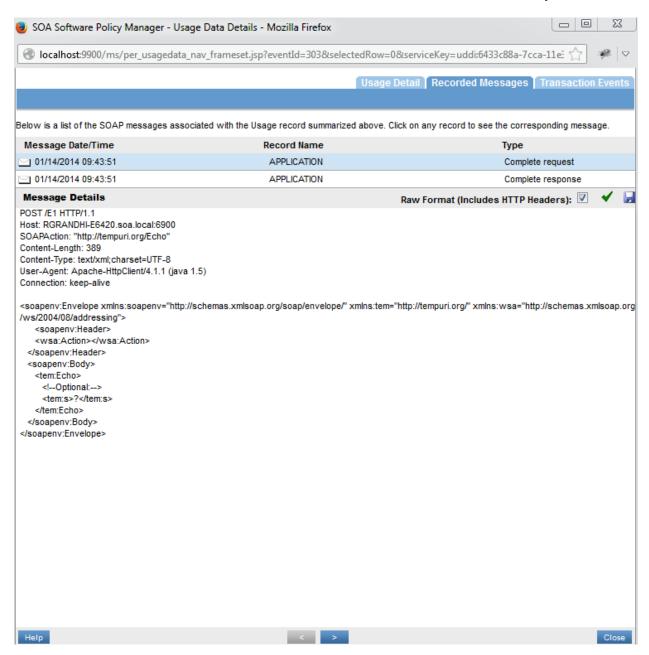
#### **Actual SOAP Request:**

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:tem="http://tempuri.org/">
  <soapenv:Header/>
  <soapenv:Body>
  <tem:Echo>
   <!--Optional:-->
   <tem:s>?</tem:Echo>
  </soapenv:Body>
  </soapenv:Body>
  </soapenv:Body>
</soapenv:Envelope>
```

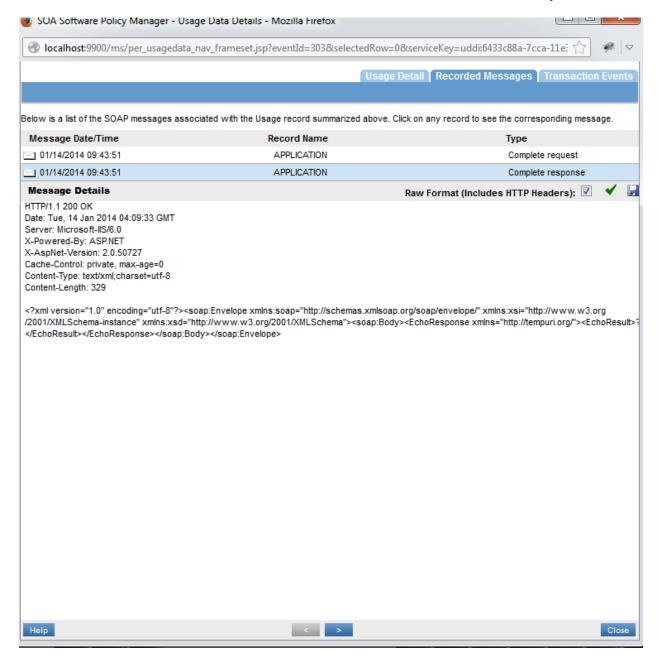
#### **Update SOAP Request with WS-Addressing Elements:**

- 6 Send request from client (SOAP UI). Request will be processed successfully.
- 7 Navigate to Vs1 Services → Monitoring → Logs.

#### **SOAP Request:**



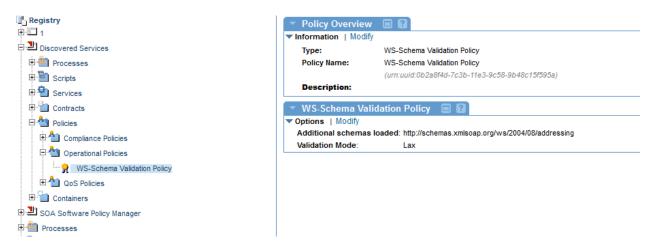
#### **SOAP Response:**



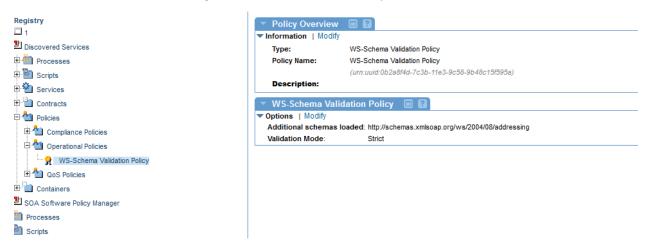
# Scenario 4: Runtime with "Strict" (Child Elements included in SOAP Request)

Schema Name: http://schemas.xmlsoap.org/ws/2004/08/addressing

- Create a physical service.
  - http://10.7.20.21/EchoSan/Echo.asmx?wsdl
- 2 Virtualize and host it on Network Director (Example Service Name: Vs1).
- 3 Configure a WS-Schema Validation Policy.



4 Attach the **Detailed Auditing** and **Ws-Schema Validation** policies to **Vs1** service.



5 Create a project in client (SOAP UI) using Vs1 WSDL URL.

#### **Actual SOAP Request:**

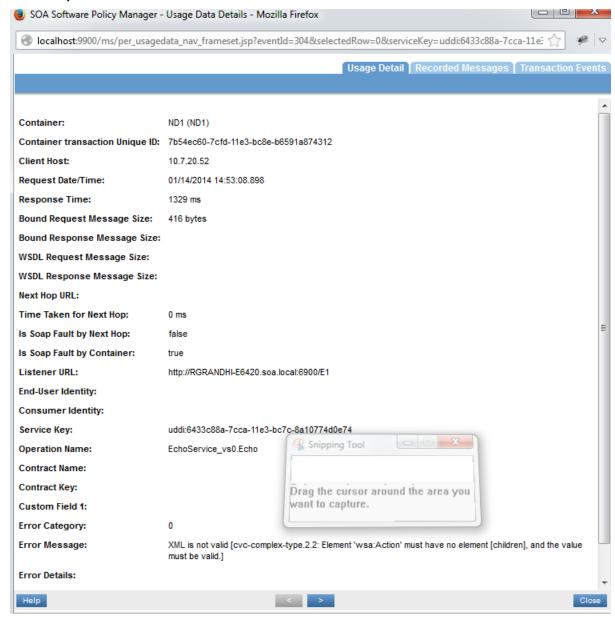
```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:tem="http://tempuri.org/">
  <soapenv:Header/>
  <soapenv:Body>
    <tem:Echo>
        <!--Optional:-->
        <tem:s>?</tem:s>
        </tem:Echo>
        </soapenv:Body>
        </soapenv:Body>
        </soapenv:Envelope>
```

#### **Update SOAP Request with WS-Addressing Elements.**

```
<!--Optional:-->
   <tem:s>?</tem:Echo>
   </soapenv:Body>
</soapenv:Envelope>
```

- 6 Send request from client (SOAP UI). Request will fail.
- 7 Navigate to **Vs1** Service → Monitoring → Logs.

#### **SOAP Request:**



#### **Error Message:**

XML is not valid [cvc-complex-type.2.2: Element 'wsa:Action' must have no element [children], and the value must be valid.]

# Scenario 5: Runtime with "LAX" (Child Elements included in SOAP Request)

#### Schema Name: http://schemas.xmlsoap.org/ws/2004/08/addressing

1 Create a physical service.

http://10.7.20.21/EchoSan/Echo.asmx?wsdl

- 2 Virtualize and host it on Network Directory (Example service name: Vs1).
- 3 Configure a WS-Schema Validation Policy.
- 4 Attach the **Detailed Auditing** and **WS-Schema Validation** policies to **Vs1** service.
- 5 Create a project in client (SOAP UI) using Vs1 WSDL URL.

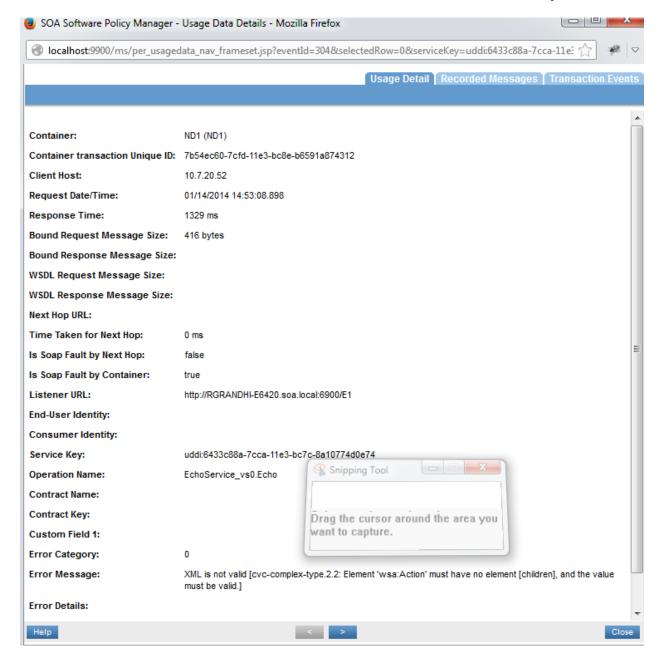
#### **Actual SOAP Request:**

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:tem="http://tempuri.org/">
  <soapenv:Header/>
  <soapenv:Body>
   <tem:Echo>
     <!--Optional:-->
     <tem:s>?</tem:s>
     </tem:Echo>
     </soapenv:Body>
     </soapenv:Body>
     </soapenv:Envelope>
```

#### **Update SOAP Request with WS-Addressing Elements**

- 6 Send request from client (SOAP UI). Request will fail.
- 7 Navigate to **Vs1** Service → Monitoring → Logs

#### **SOAP Request:**



#### **Error Message:**

XML is not valid [cvc-complex-type.2.2: Element 'wsa:Action' must have no element [children], and the value must be valid.]

#### **Notes**

- Lax
  - If corresponding schema is not added to policy, the tags will be ignored by parser.
  - If corresponding schema is added to policy, the tags will be validated by parser.
- Strict

- If corresponding schema is not added to policy, an error will occur saying schema should be added to the policy.
- If corresponding schema is added to policy, the tags will be validated by parser.