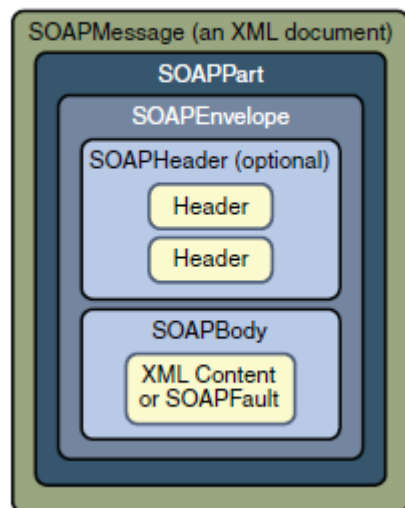


## SHORT NOTES / SAAJ 1.3

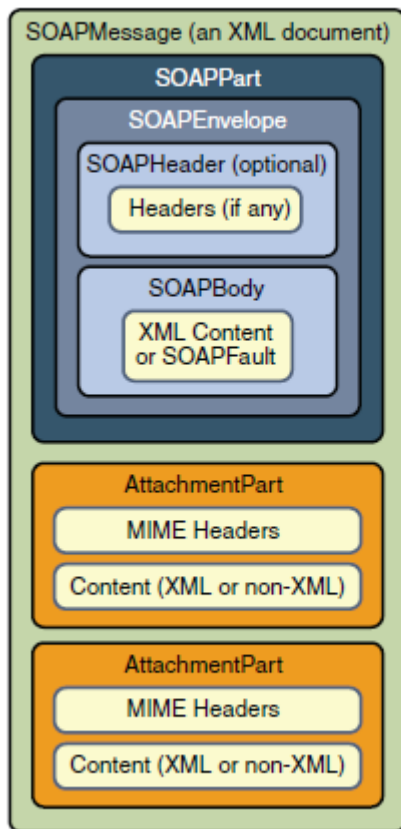
1. SAAJ stands for SOAP with ATTACHMENTS API for JAVA
2. This API is used mainly for the SOAP messaging that goes behind the scene JAX-WS handlers and JAXR implementations
3. This API can be used when developers need to interact with SOAP messages directly without using an API like JAX-WS
4. SAAJ allows XML messaging from JAVA platform
5. Using SAAJ method calls once can READ and WRITE SOAP based XML messages
6. Format of SOAP message without an attachment
  - a. SOAP Message
    - i. SOAP Part
      1. SOAP Envelope
        - a. SOAP HEADER (OPTIONAL)
          - Header
          - Header
        - b. SOAP BODY
          - XML Content or SOAPFault

FIGURE 19-1 SOAPMessage Object with No Attachments



- 7.
8. SOAP message anatomy with attachment

FIGURE 19-2 SOAPMessage Object with Two AttachmentPart Objects



- 9.
10. The SAAJ API extends their counterparts in the org.w3c.dom package
11. SAAJ nodes and elements IMPLEMENT the DOM Node and Element interface
  - a. Use only DOM APIs
  - b. Use only SAAJ API
  - c. Use SAAJ API and then switch to using DOM APIs
  - d. Use DOM APIs and then switch to using SAAJ APIs
12. SOAP fault element - If you send a message that was NOT SUCCESSFUL for some reason , you may get a response containing a SOAP FAULT element which gives STATUS information , error information or both.

13. There can be ONLY ONE SOAP fault element in a message and it MUST be an entry in the BODY

14. If there is a SOAP fault element in the BODY, there can be NO other elements in the SOAP body

```
<?xml version='1.0' encoding='UTF-8'?>
```

```
<SOAP-ENV:Envelope
xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsi="http://www.w3.org/1999/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/1999/XMLSchema">
  <SOAP-ENV:Body>
    <SOAP-ENV:Fault>
      <faultcode xsi:type="xsd:string">SOAP-ENV:Client</faultcode>
      <faultstring xsi:type="xsd:string">
        Failed to locate method (ValidateCreditCard) in class
        (examplesCreditCard) at /usr/local/ActivePerl-5.6/lib/
        site_perl/5.6.0/SOAP/Lite.pm line 1555.
      </faultstring>
    </SOAP-ENV:Fault>
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

15. Fault Code, Fault String are always required. Fault actor is only required if the SOAP header contains any actors

16. SAAJ 1.3 supports both SAAJ 1.2 and SAAJ 1.1

17. SAAJ 1.3 supports SOAP messages of both type SOAP 1.1 and SOAP 1.2

18. SAAJ 1.2 only supports SOAP 1.1 messages

19. SOAP HEADER is OPTIONAL

20. The NAMESPACE for SOAP 1.2 and the NAMESPACE for SOAP 1.1 is different