

## (4.5) Fault Codes and Processing For Reliable Messaging Failures

The protocol defines two fault categories:

- The Message Format fault set, which includes all faults generated because of a malformed Reliable Message header.
- The Message Processing fault set, which includes all faults generated while processing the message.

They are explained in detail in the following sections. These protocol specific fault codes are returned by the Receiving RMP within the response header element. Reliable Message Faults are carried in the SOAP Header, and do not rely on the SOAP Fault model for the following reasons:

- The SOAP Fault model does not allow batching several faults in the same message.
- RM faults may be carried by business messages that are not concerned by these faults, and for this reason they should not affect the SOAP body of these messages.

The rules for processing faults are:

- A message for which an RM Fault is published **MUST NOT** be delivered by the Receiving RMP, and therefore **MUST NOT** be acknowledged.
- In case a “Response” ReplyPattern was required, and when the message cannot be delivered to the Consumer due to a failure in processing the RM headers, then a SOAP Fault must be generated in addition to the RM Reply that contains the RM Fault. Because either a well-formed response or a SOAP Fault is expected on the Sending side, then the response leg of the transaction must contain a SOAP Fault in the SOAP Body when no business response is available. More details are given in the HTTP Binding section.
- In case a “Callback” or “Poll” ReplyPattern was required, and when the message cannot be delivered to the Consumer due to a failure in processing the RM headers, then no SOAP Fault shall be returned. The HTTP binding section gives more details on the recommended behavior in such case.

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## **(6) HTTP Binding**

### **(6.1) Reliable Messaging with “Response” binding pattern**

**Add:**

“In case the message cannot be delivered to the Consumer due to a failure in processing the RM headers, then it is RECOMMENDED that the response be conforming to the WS-I Basic Profile 1.0. To achieve this, the SOAP Fault element MUST be returned in an HTTP response with “500 Internal Server Error” HTTP status code. (see R1126 in [WS-I BP1.0])

### **(6.2) Reliable Messaging with “Callback” binding pattern**

**Add:**

In case the message cannot be delivered to the Consumer due to a failure in processing the RM headers, then it is RECOMMENDED that the HTTP response be conforming to the WS-I Basic Profile 1.0. To achieve this, no SOAP Fault must be returned, and the HTTP response entity-body MUST be empty, with a “400 Bad Request ” HTTP status code if the RM Fault is a Message Format fault. (See R1113 in [WS-I BP1.0]). The status code should be “500 Internal Server Error” otherwise, in case of a Message Processing fault.

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### **(6.3) Reliable Messaging with “Poll” binding pattern**

**Add:**

In case the message cannot be delivered to the Consumer due to a failure in processing the RM headers, then it is RECOMMENDED that the HTTP response be conforming to the WS-I Basic Profile 1.0. To achieve this, no SOAP Fault must be returned, and the HTTP response entity-body MUST be empty, with a “400 Bad Request ” HTTP status code if the RM Fault is a Message Format fault. (See R1113 in [WS-I BP1.0]). The status code should be “500 Internal Server Error” otherwise, in case of a Message Processing fault.