



# OASIS ebXML Messaging Services 3.0

## PMode Values Combinations and Corresponding HTTP bindings for ebMS MEPs

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**Technical Committee:**

OASIS ebXML Messaging Services TC

## PMode values and HTTP binding of the One-way / Push MEP

The following table illustrates how the One-way / Push MEP binds to HTTP, depending on the values of Pmode parameters that affect message content.

No combination of Pmode values other than those listed below are expected to be used. Valid combinations not explicitly represented in the table below are mentioned in "notes" as variants of the most common ones.

MEP: <b>One-way / Push</b>	Case 1	Case 2	Case 3	Case 4	Case 5	Case 6
<a href="#">Reliability.AtLeastOnce.Contract</a> :	False	False	True	True	True	True
<a href="#">Reliability.AtLeastOnce.ReplyPattern</a>	N/A	N/A	Response	Response	Callback	Callback
<a href="#">ErrorHandling.Report.AsResponse</a>	False	True	False	True	False	True
HTTP Request (pushed message)	UserMessage	UserMessage	UserMessage + RM header (with AtLeastOnce element if WS-Reliability)	UserMessage + RM header (see case 3)	UserMessage + RM header (see case 3)	UserMessage + RM header (see case 3)
HTTP Response	No SOAP envelope except if SOAP Fault.	No SOAP envelope except if ebMS error on the UserMessage: an ebMS header for Error SignalMessage.  Possibly also a SOAP Fault.	SOAP header with RM Ack[a]	SOAP header with RM Ack[a], plus an ebMS header for Error SignalMessage, if any.	Same as Case 1	Same as Case 2

[a] Acks may be grouped so that an Ack is not sent back for every UserMessage.

## PMode values and HTTP binding of the One-way / Pull MEP

The following table illustrates how the One-way / Pull MEP binds to HTTP, depending on the values of Pmode parameters that affect message content.

No combination of Pmode values other than those listed below are expected to be used. Valid combinations not explicitly represented in the table below are mentioned in "notes" as variants of the most common ones.

MEP: <b>One-way / Pull</b>	Case 1	Case 2	Case 3
<a href="#">[1][s].Reliability.AtLeastOnce.Contract:</a>	False	True	True
<a href="#">[1][s].Reliability.AtLeastOnce.ReplyPattern</a>	N/A	Response	Response
<a href="#">[1][s].ErrorHandling.Report.AsResponse</a>	True[a]	True	True
HTTP Request (PullRequest signal)	PullRequest signal	PullRequest signal + RM header (with AtLeastOnce element if WS-Reliability)	PullRequest signal + RM header (see case 2)
<a href="#">[1][u].Reliability.AtLeastOnce.Contract:</a>	False	True[b]	True[b]
<a href="#">[1][u].Reliability.AtLeastOnce.ReplyPattern</a>	N/A	None (in case no ack required)	callback
HTTP Response (pulled message)	Pulled UserMessage [d]	SOAP header with RM Ack[c] of pull signal + Pulled UserMessage [d]	SOAP header with RM Ack[c] of pull signal + Pulled UserMessage [d]
HTTP Request in same direction as previous HTTP response  (not belonging to this MEP)	N/A	N/A	RM header containing Ack + possibly other SOAP headers/body

[a] A possible case where value is False – all other values being same - is not reported here.

[b] A possible case where the pulled message is not sent reliably while the pull signal is, would be of little relevance – not detailed here. Conversely, reliable sending of the pulled message requires reliable sending of the pull signal.

[c] Acks may be grouped so that an Ack is not sent back for every UserMessage.

[d] or else an ebMS error if the Pull signal had an error.

## PMode values and HTTP binding of the Two-way / Sync MEP

The following table illustrates how the Two-way / Sync MEP binds to HTTP, depending on the values of Pmode parameters that affect message content.

No combination of Pmode values other than those listed below are expected to be used. Valid combinations not explicitly represented in the table below are mentioned in "notes" as variants of the most common ones.

MEP: <b>Two-way / Sync</b>	Case 1	Case 2	Case 3	Case 4
[1].Reliability.AtLeastOnce.Contract:	False	True	True	True
[1].Reliability.AtLeastOnce.ReplyPattern	N/A	Response[e]	Response[f]	Response[f]
[1].ErrorHandling.Report.AsResponse	True[a]	True[a]	True[b]	True[b]
HTTP Request (request message)	UserMessage (request)	UserMessage + RM header (with AtLeastOnce element if WS-Reliability)	UserMessage + RM header (see case 2)	UserMessage + RM header (see case 2)
[2].Reliability.AtLeastOnce.Contract:	False	False	True[b]	True[b]
[2].Reliability.AtLeastOnce.ReplyPattern	N/A	N/A	None (in case no ack required)	callback
HTTP Response (reply message)	UserMessage (reply)[d]	SOAP header with RM Ack[c] of request + UserMessage reply [d]	SOAP header with RM Ack[c] of request + UserMessage reply [d]	SOAP header with RM Ack[c] of request + UserMessage reply [d]
HTTP Request in same direction as previous HTTP response (not belonging to this MEP)	N/A	N/A	N/A	RM header containing Ack + possibly other SOAP headers/body

[a] A possible case where value is False – all other values being same - is not reported here.

[b] The reply may not be sent reliably if the request is not.

[c] Acks may be grouped so that an Ack is not sent back for every UserMessage.

[d] or else an ebMS error if the request had an error.

[e] a possible case where the reply pattern is callback instead of response is not reported

here.

[f] the pattern for acknowledging the request must be " response" in case the reply must also be sent reliably. In that case, Acks should not be grouped.