



Mass Hlway
Massachusetts Health Information Highway
Statewide Health Information Exchange

**Differences in Syndromic Node Responses in
Clinical Gateway for Version 1.0 and 2.0**



The Mass Hlway is operated by the Commonwealth of Massachusetts' Executive Office of Health and Human Services (EOHHS). For more information visit www.masshiway.net.

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Introduction

In January 2018, the Commonwealth decided to upgrade its operations to HIway 2.0, which entails the incorporation of the latest standards in the industry. With this in mind, the Clinical nodes, which help our DPH bureaus' providers to communicate to their backend systems, have been upgraded to cater to the latest standards. Certain improvements have also been made to the code for each of the nodes and they are outlined below.

Listed in the following sections are the differences between Syndromic Clinical Gateway Node Version 1.0 & Version 2.0 responses.

Note: The following convention is used in this document to improve readability:

- The actual text that appears in the responses is in regular Arial font and in some cases part of the text is highlighted in **Bold** for business/human friendly readability.
- To give additional clarity for the scenarios listed, we provided text in *Purple*, formatted to *Italic* and underlined to provide additional information about the outcome. In the example below, the following text is not a response from the clinical node, but it is provided for additional information:
 - *There is no file naming convention*

Clinical Gateway Node: Syndromic

For Webmail / HISP User (SMIME)

The table below lists the comparison between the HIway 1.0 and HIway 2.0 differences with the CG Ver 1.0 and Ver 2.0 messages for various scenarios.

Scenario	In Ver. 1.0 this is the Response Message	In Ver. 2.0 this is the Response Message
<p>When the message contains empty payload. (attachment with no data/ No attachment)</p>	<pre><soapenv:Fault xmlns:soapenv="http://www.w3.org/2003/05/soap-envelope"> <soapenv:Code> <soapenv:Value>CG206</soapenv:Value> <soapenv:Subcode> <soapenv:Value>Invalid payload or payload is empty</soapenv:Value> </soapenv:Subcode> </soapenv:Code> <soapenv:Reason> <soapenv:Text>Invalid payload or payload is empty</soapenv:Text> </soapenv:Reason> <soapenv:Node>Syndromic</soapenv:Node> <soapenv:Detail> <urn:DocumentRepository_ProvideAndRegisterDocumentSet-bFault xmlns:urn="urn:ihe:iti:xds-b:2007"> <urn:payload>Please Contact Mass HiWay Customer Service</urn:payload> </urn:DocumentRepository_ProvideAndRegisterDocumentSet-bFault> </soapenv:Detail> </soapenv:Fault></pre>	<p><u>No Response sent back</u></p>
<p>When the message contains an invalid payload</p>	<pre><soapenv:Fault xmlns:soapenv="http://www.w3.org/2003/05/soap-envelope"> <soapenv:Code> <soapenv:Value>CG207</soapenv:Value> <soapenv:Subcode> <soapenv:Value>Invalid message type.</soapenv:Value> </soapenv:Subcode> </soapenv:Code> <soapenv:Reason> <soapenv:Text>Message does not match definition</soapenv:Text> </soapenv:Reason> </soapenv:Fault></pre>	<p>Invalid message type, please contact Mass Hiway Customer Service.</p>

	<pre> criteria</soapenv:Text> </soapenv:Reason> <soapenv:Node>Syndromic</soapenv: Node> <soapenv:Detail> <urn:DocumentRepository_ProvideAnd RegisterDocumentSet-bFault xmlns:urn="urn:ihe:iti:xds-b:2007"> <urn:payload>Please Contact Mass HiWay Customer Service</urn:payload> </urn:DocumentRepository_ProvideAnd RegisterDocumentSet-bFault> </soapenv:Detail> </soapenv:Fault> </pre>	
<p>When the message contains multiple payloads (Sample response listed.)</p>	<pre> MSH ^~\& MDPH^2.16.840.1.114222.4. 1.3657^ISO MAMDPH Test Fac1^2.16.840.1.114222.4.1.3657^ISO Test Fac1^1234567890^NPI 201801241320 41428-0500 ACK 7682 D 2.5.1 MSA AA ADT.64772 </pre>	<p>Application does not support multiple payloads</p>
<p>When a success or failure response is received from Syndromic application</p>	<p><u>Same in CG 1.0 & CG 2.0(Since there is no Business Validation changes)</u></p>	<p><u>Same in CG 1.0 & CG 2.0(Since there is no Business Validation changes)</u></p>
<p>When the sender's domain is not authorized or cannot be authorized</p>	<pre> <soapenv:Fault xmlns:soapenv="http://www.w3.org/200 3/05/soap-envelope"> <soapenv:Code> <soapenv:Value>CG103</soapenv:Val ue> <soapenv:Subcode> <soapenv:Value>Organization not Authorized.</soapenv:Value> </soapenv:Subcode> </soapenv:Code> <soapenv:Reason> <soapenv:Text>Organization is not authorized. Please contact Customer Service.</soapenv:Text> </soapenv:Reason> <soapenv:Node>Direct Gateway</soapenv:Node> </soapenv:Detail> <urn:DocumentRepository_ProvideAnd RegisterDocumentSet-bFault </pre>	<p>Organization is not Authorized</p>

	<pre> xmlns:urn="urn:ihe:iti:xds-b:2007"> <urn:payload>Please Contact Mass HiWay Customer Service</urn:payload> </urn:DocumentRepository_ProvideAnd RegisterDocumentSet-bFault> </soapenv:Detail> </soapenv:Fault> </pre>	
<p>When the message could not be delivered to the Syndromic application</p>	<pre> <soapenv:Fault xmlns:soapenv="http://www.w3.org/200 3/05/soap-envelope"> <soapenv:Code> <soapenv:Value>CG201</soapenv:Val ue> <soapenv:Subcode> <soapenv:Value>Unspecified failure in ... route</soapenv:Value> </soapenv:Subcode> </soapenv:Code> <soapenv:Reason> <soapenv:Text>Failed to process the message</soapenv:Text> </soapenv:Reason> <soapenv:Node>Syndromic</soapenv: Node> <soapenv:Detail> <urn:DocumentRepository_ProvideAnd RegisterDocumentSet-bFault xmlns:urn="urn:ihe:iti:xds-b:2007"> <urn:payload>Please Contact Mass HiWay Customer Service</urn:payload> </urn:DocumentRepository_ProvideAnd RegisterDocumentSet-bFault> </soapenv:Detail> </soapenv:Fault> </pre>	<p>Failed to process the request, please contact Mass Hiway Customer Service.</p>
<p>When the message could not be delivered to the Syndromic application</p>	<pre> <soapenv:Fault xmlns:soapenv="http://www.w3.org/200 3/05/soap-envelope"> <soapenv:Code> <soapenv:Value>CG201</soapenv:Val ue> <soapenv:Subcode> <soapenv:Value>Timeout</soapenv:Val ue> </soapenv:Subcode> </soapenv:Code> <soapenv:Reason> <soapenv:Text>Backend service is not available, Please Contact Customer service</soapenv:Text> </soapenv:Reason> </pre>	<p><u>No Response sent back</u></p>

	<pre><soapenv:Node>Syndromic</soapenv:Node> <soapenv:Detail> <urn:DocumentRepository_ProvideAndRegisterDocumentSet-bFault xmlns:urn="urn:ihe:iti:xds-b:2007"> <urn:payload>Backend service is not available, Please Contact Customer service</urn:payload> </urn:DocumentRepository_ProvideAndRegisterDocumentSet-bFault> </soapenv:Detail> </soapenv:Fault></pre>	
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LAND & XDR Users

- When the message contains multiple payloads, the first payload will be processed and send the response back. Subsequent messages will be dropped (*1)

The table below lists the comparison between the HIway 1.0 and HIway 2.0 differences with the CG Ver 1.0 and Ver 2.0 messages for various scenarios.

Scenario	In Ver. 1.0 this is the Response Message	In Ver. 2.0 this is the Response Message
When the message contains empty payload (XDR Msg from EMR system-No Data/content in Document tag/Document tag is missing)	<pre><soapenv:Fault xmlns:soapenv="http://www.w3.org/2003/05/soap-envelope"> <soapenv:Code> <soapenv:Value>CG206</soapenv:Value> <soapenv:Subcode> <soapenv:Value>Invalid payload or payload is empty</soapenv:Value> </soapenv:Subcode> </soapenv:Code> <soapenv:Reason> <soapenv:Text>Invalid payload or payload is empty</soapenv:Text> </soapenv:Reason> <soapenv:Node>Syndromic</soapenv:Node> <soapenv:Detail> <urn:DocumentRepository_ProvideAndRegisterDocumentSet-bFault xmlns:urn="urn:ihe:iti:xds-b:2007"> <urn:payload>Please Contact Mass HiWay Customer</pre>	<u>No Response sent back</u>

	<pre> Service</urn:payload> </urn:DocumentRepository_ProvideAnd RegisterDocumentSet-bFault> </soapenv:Detail> </soapenv:Fault> </pre>	
When the message contains an invalid payload	<pre> <soapenv:Fault xmlns:soapenv="http://www.w3.org/200 3/05/soap-envelope"> <soapenv:Code> <soapenv:Value>CG207</soapenv:Val ue> <soapenv:Subcode> <soapenv:Value>Invalid message type.</soapenv:Value> </soapenv:Subcode> </soapenv:Code> <soapenv:Reason> <soapenv:Text>Message does not match definition criteria</soapenv:Text> </soapenv:Reason> <soapenv:Node>Syndromic</soapenv: Node> <soapenv:Detail> <urn:DocumentRepository_ProvideAnd RegisterDocumentSet-bFault xmlns:urn="urn:ihe:iti:xds-b:2007"> <urn:payload>Please Contact Mass HiWay Customer Service</urn:payload> </urn:DocumentRepository_ProvideAnd RegisterDocumentSet-bFault> </soapenv:Detail> </soapenv:Fault> </pre>	Invalid message type, please contact Mass Hiway Customer Service.
When the message contains multiple payloads (*1) (Sample response listed.)	<pre> MSH ^~\& MDPH^2.16.840.1.114222.4. 1.3657^ISO MAMDPH Test Fac1^2.16.840.1.114222.4.1.3657^ISO Test Fac1^1234567890^NPI 201801241320 41428-0500 ACK 7682 D 2.5.1 MSA AA ADT.64772 </pre>	Application does not support multiple payloads
When the message contains empty payload (LAND folder drop-No Data/content in file)	<p><u>Same in CG 1.0 & CG 2.0 (File will not be picked up from folder).</u></p>	<p><u>Same in CG 1.0 & CG 2.0 (File will not be picked up from folder.)</u></p>

<p>When a success or failure response is received from Syndromic application</p>	<p><u>Same in CG 1.0 & CG 2.0(Since there is no Business Validation changes)</u></p>	<p><u>Same in CG 1.0 & CG 2.0(Since there is no Business Validation changes)</u></p>
<p>When the sender's domain is not authorized or cannot be authorized</p>	<pre><soapenv:Fault xmlns:soapenv="http://www.w3.org/2003/05/soap-envelope"> <soapenv:Code> <soapenv:Value>CG103</soapenv:Value> <soapenv:Subcode> <soapenv:Value>Organization not Authorized.</soapenv:Value> </soapenv:Subcode> </soapenv:Code> <soapenv:Reason> <soapenv:Text>Organization is not authorized. Please contact Customer Service.</soapenv:Text> </soapenv:Reason> <soapenv:Node>Direct Gateway</soapenv:Node> <soapenv:Detail> <urn:DocumentRepository_ProvideAnd RegisterDocumentSet-bFault xmlns:urn="urn:ihe:iti:xds-b:2007"> <urn:payload>Please Contact Mass HiWay Customer Service</urn:payload> </urn:DocumentRepository_ProvideAnd RegisterDocumentSet-bFault> </soapenv:Detail> </soapenv:Fault></pre>	<p>Organization is not Authorized</p>
<p>When the message could not be delivered to the Syndromic application</p>	<pre><soapenv:Fault xmlns:soapenv="http://www.w3.org/2003/05/soap-envelope"> <soapenv:Code> <soapenv:Value>CG201</soapenv:Value> <soapenv:Subcode> <soapenv:Value>Unspecified failure in ... route</soapenv:Value> </soapenv:Subcode> </soapenv:Code> <soapenv:Reason> <soapenv:Text>Failed to process the message</soapenv:Text></pre>	<p>Failed to process the request, please contact Mass Hiway Customer Service.</p>

	<pre> </soapenv:Reason> <soapenv:Node>Syndromic</soapenv: Node> <soapenv:Detail> <urn:DocumentRepository_ProvideAnd RegisterDocumentSet-bFault xmlns:urn="urn:ihe:iti:xds-b:2007"> <urn:payload>Please Contact Mass HiWay Customer Service</urn:payload> </urn:DocumentRepository_ProvideAnd RegisterDocumentSet-bFault> </soapenv:Detail> </soapenv:Fault> </pre>	
<p>When the message could not be delivered to the Syndromic app</p>	<pre> <soapenv:Fault xmlns:soapenv="http://www.w3.org/200 3/05/soap-envelope"> <soapenv:Code> <soapenv:Value>CG201</soapenv:Val ue> <soapenv:Subcode> <soapenv:Value>Timeout</soapenv:Val ue> </soapenv:Subcode> </soapenv:Code> <soapenv:Reason> <soapenv:Text>Backend service is not available, Please Contact Customer service</soapenv:Text> </soapenv:Reason> <soapenv:Node>Syndromic</soapenv: Node> <soapenv:Detail> <urn:DocumentRepository_ProvideAnd RegisterDocumentSet-bFault xmlns:urn="urn:ihe:iti:xds-b:2007"> <urn:payload>Backend service is not available, Please Contact Customer service</urn:payload> </urn:DocumentRepository_ProvideAnd RegisterDocumentSet-bFault> </soapenv:Detail> </soapenv:Fault> </pre>	<p><u><i>No Response sent back</i></u></p>