



Mass HIway
Massachusetts Health Information Highway
Statewide Health Information Exchange

Differences in MHS Node Responses in Clinical Gateway for Version 1.0 and 2.0



The Mass HIway 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 Hlway 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 MIIS 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: MIIS

For Webmail / HISP User (SMIME)

The table below lists the comparison between the Hlway 1.0 and Hlway 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. (attachment with no data/ No attachment)	<pre><soapenv:Fault xmlns:soapenv="http://www.w3.org/2003/05/soap-envelope"> <soapenv:Code> <soapenv:Value>soapenv:Sender</soapenv:Value> <soapenv:Subcode> <soapenv:Value>CG203</soapenv:Value> </soapenv:Subcode> </soapenv:Code> <soapenv:Reason> <soapenv:Text>Invalid payload or payload is empty</soapenv:Text> </soapenv:Reason> <soapenv:Node>MIIS</soapenv:Node> <soapenv:Detail> <urn:DocumentRepository_ProvideAndRegisterDocumentSet-bFault xmlns:urn="urn:ihe:iti:xds-b:2007"> <urn:payload>ERROR Message ID :1.193276200704.78106</urn:payload> </urn:DocumentRepository_ProvideAndRegisterDocumentSet-bFault> </soapenv:Detail> </soapenv:Fault></pre>	<u>No Response sent back</u>
When a success or failure response is received from MIIS application	<u>Same in CG 1.0 & CG 2.0(Since there is no Business Validation changes)</u>	<u>Same in CG 1.0 & CG 2.0(Since there is no Business Validation changes)</u>
When the message could not be	<pre><soapenv:Fault xmlns:soapenv="http://www.w3.org/2003/05/soap-envelope"></pre>	MIIS Application is not available, please contact Customer Service

<p>delivered to the MIIS application</p>	<pre> <soapenv:Code> <soapenv:Value>soapenv:Sender</soa penv:Value> <soapenv:Subcode> <soapenv:Value>CG201</soapenv:Val ue> </soapenv:Subcode> </soapenv:Code> <soapenv:Reason> <soapenv:Text>MIIS Application is not available, Please contact Customer Service</soapenv:Text> </soapenv:Reason> <soapenv:Node>MIIS</soapenv:Node> <soapenv:Detail> <urn:DocumentRepository_ProvideAnd RegisterDocumentSet-bFault xmlns:urn=\\"urn:ihe:iti:xds-b:2007\"> <urn:payload>ERROR Message ID :1.193276200704.78106</urn:payload> </urn:DocumentRepository_ProvideAnd RegisterDocumentSet- bFault></soapenv:Detail></soapenv:Fa ult> </pre>	
<p>When the message could not be delivered to the MIIS application</p>	<pre> <soapenv:Fault xmlns:soapenv=http://www.w3.org/200 3/05/soap-envelope> <soapenv:Code> <soapenv:Value>soapenv:Sender</soa penv:Value> <soapenv:Subcode> <soapenv:Value>CG204</soapenv:Val ue> </soapenv:Subcode> </soapenv:Code> <soapenv:Reason> <soapenv:Text>Message processing error, Please check message value</soapenv:Text> </soapenv:Reason> <soapenv:Node>MIIS</soapenv:Node> <soapenv:Detail> <urn:DocumentRepository_ProvideAnd RegisterDocumentSet-bFault xmlns:urn=\\"urn:ihe:iti:xds-b:2007\"> <urn:payload>ERROR Message ID :1.193276200704.78106</urn:payload> </urn:DocumentRepository_ProvideAnd </pre>	<p>Failed to process the request, please contact Mass Hiway Customer Service</p>

	RegisterDocumentSet-bFault></soapenv:Detail></soapenv:Fault>	
When the sender's domain is not authorized or cannot be authorized	<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>	Organization is not Authorized
When the message could not be delivered to the MIIS application (There are 2 possible responses for this scenario in CG 1.0)	<pre><soapenv:Fault> <soapenv:Code> <soapenv:Value>soapenv:Sender</soapenv:Value> <soapenv:Subcode> <soapenv:Value>CG202</soapenv:Value> </soapenv:Subcode> </soapenv:Code> <soapenv:Reason> <soapenv:Text>Unknown Error occurred while processing the message, Please Contact Customer Service</soapenv:Text> </soapenv:Reason> <soapenv:Node>MIIS</soapenv:Node> <soapenv:Detail> <urn:DocumentRepository_ProvideAnd</pre>	Failed to process the request, please contact Mass Hiway Customer Service

	<pre> RegisterDocumentSet-bFault xmlns:urn="urn:ihe:iti:xds-b:2007"> <urn:payload>ERROR Message ID :1.193276186752.78089</urn:payload> </urn:DocumentRepository_ProvideAnd RegisterDocumentSet-bFault> </soapenv:Detail> </soapenv:Fault> ----- <soapenv:Fault> <soapenv:Code> <soapenv:Value>soapenv:Sender</soa penv:Value> <soapenv:Subcode> <soapenv:Value>CG202</soapenv:Val ue> </soapenv:Subcode> </soapenv:Code> <soapenv:Reason> <soapenv:Text>Payload is invalid, please check message format</soapenv:Text> </soapenv:Reason> <soapenv:Node>MIIS</soapenv:Node> <soapenv:Detail> <urn:DocumentRepository_ProvideAnd RegisterDocumentSet-bFault xmlns:urn="urn:ihe:iti:xds-b:2007"> <urn:payload>ERROR Message ID :1.193276186752.78089</urn:payload> </urn:DocumentRepository_ProvideAnd RegisterDocumentSet-bFault> </soapenv:Detail> </soapenv:Fault> </pre>	
<p>When the message could not be delivered to the MIIS 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> </pre>	<p><u><i>No Response sent back</i></u></p>

	<pre></soapenv:Reason> <soapenv:Node>MIIS</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>	
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LAND & XDR Users

The table below lists the comparison between the Hlway 1.0 and Hlway 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 multiple payloads	<u><i>There is no Check for Multiple Payloads</i></u>	Application does not support multiple payloads
When the message contains empty payload (LAND folder drop-No Data/content in file)	<u><i>Same in CG 1.0 & CG 2.0 (File will not be picked up from folder).</i></u>	<u><i>Same in CG 1.0 & CG 2.0 (File will not be picked up from folder.)</i></u>
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>soapenv:Sender</s oapenv:Value> <soapenv:Subcode> <soapenv:Value>CG203</soapenv: Value> </soapenv:Subcode> </soapenv:Code> <soapenv:Reason> <soapenv:Text>Invalid payload or payload is empty</soapenv:Text> </soapenv:Reason> <soapenv:Node>MIIS</soapenv:Nod e> <soapenv:Detail> <urn:DocumentRepository_ProvideA ndRegisterDocumentSet-bFault xmlns:urn="urn:ihe:iti:xds-b:2007"> <urn:payload>ERROR Message ID :1.193276200704.78106</urn:payloa d> </urn:DocumentRepository_Provide AndRegisterDocumentSet-bFault> </soapenv:Detail> </soapenv:Fault></pre>	<u><i>No Response sent back</i></u>
When a success or failure response is received from MIIS	<u><i>Same in CG 1.0 & CG 2.0 (Since there is no Business Validation changes)</i></u>	<u><i>Same in CG 1.0 & CG 2.0 (Since there is no Business Validation changes)</i></u>

application		
When the message could not be delivered to the MIIS application	<pre> <soapenv:Fault xmlns:soapenv="http://www.w3.org/2003/05/soap-envelope"> <soapenv:Code> <soapenv:Value>soapenv:Sender</s oapenv:Value><soapenv:Subcode> <soapenv:Value>CG201</soapenv: Value> </soapenv:Subcode> </soapenv:Code> <soapenv:Reason> <soapenv:Text>MIIS Application is not available, Please contact Customer Service</soapenv:Text> </soapenv:Reason> <soapenv:Node>MIIS</soapenv:Nod e> <soapenv:Detail> <urn:DocumentRepository_ProvideA ndRegisterDocumentSet-bFault xmlns:urn="urn:ihe:iti:xds-b:2007"> <urn:payload>ERROR Message ID :1.193276200704.78106</urn:payloa d></urn:DocumentRepository_Provid eAndRegisterDocumentSet- bFault></soapenv:Detail></soapenv: Fault>; </pre>	MIIS Application is not available, please contact Customer Service
When the message could not be delivered to the MIIS application	<pre> <soapenv:Fault xmlns:soapenv="http://www.w3.org/2003/05/soap-envelope"> <soapenv:Code> <soapenv:Value>soapenv:Sender</s oapenv:Value> <soapenv:Subcode> <soapenv:Value>CG204</soapenv: Value> </soapenv:Subcode> </soapenv:Code> <soapenv:Reason> <soapenv:Text>Message processing error, Please check message value</soapenv:Text> </soapenv:Reason> <soapenv:Node>MIIS</soapenv:Nod e> <soapenv:Detail> <urn:DocumentRepository_ProvideA ndRegisterDocumentSet-bFault </pre>	Failed to process the request, please contact Mass Hiway Customer Service

	<pre> xmlns:urn=\urn:ihe:iti:xds-b:2007\> <urn:payload>ERROR Message ID :1.193276200704.78106</urn:payloa d></urn:DocumentRepository_Provid eAndRegisterDocumentSet- bFault></soapenv:Detail></soapenv: Fault> </pre>	
When the sender's domain is not authorized or cannot be authorized	<pre> <soapenv:Fault xmlns:soapenv="http://www.w3.org/2 003/05/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_ProvideA ndRegisterDocumentSet-bFault xmlns:urn="urn:ihe:iti:xds-b:2007"> <urn:payload>Please Contact Mass HiWay Customer Service</urn:payload> </urn:DocumentRepository_Provide AndRegisterDocumentSet-bFault> </soapenv:Detail> </soapenv:Fault> </pre>	Organization is not Authorized
When the message could not be delivered to the MIIS application (There are 2 possible responses for this scenario in CG 1.0)	<pre> <soapenv:Fault> <soapenv:Code> <soapenv:Value>soapenv:Sender</s oapenv:Value> <soapenv:Subcode> <soapenv:Value>CG202</soapenv: Value> </soapenv:Subcode> </soapenv:Code> <soapenv:Reason> <soapenv:Text>Unknown Error occurred while processing the message, Please Contact Customer Service</soapenv:Text> </pre>	Failed to process the request, please contact Mass Hiway Customer Service

	<pre> </soapenv:Reason> <soapenv:Node>MIIS</soapenv:Node> <soapenv:Detail> <urn:DocumentRepository_ProvideAndRegisterDocumentSet-bFault xmlns:urn="urn:ihe:iti:xds-b:2007"> <urn:payload>ERROR Message ID :1.193276186752.78089</urn:payload> </urn:DocumentRepository_ProvideAndRegisterDocumentSet-bFault> </soapenv:Detail> </soapenv:Fault> ----- <soapenv:Fault> <soapenv:Code> <soapenv:Value>soapenv:Sender</soapenv:Value> <soapenv:Subcode> <soapenv:Value>CG202</soapenv:Value> </soapenv:Subcode> </soapenv:Code> <soapenv:Reason> <soapenv:Text>Payload is invalid, please check message format</soapenv:Text> </soapenv:Reason> <soapenv:Node>MIIS</soapenv:Node> <soapenv:Detail> <urn:DocumentRepository_ProvideAndRegisterDocumentSet-bFault xmlns:urn="urn:ihe:iti:xds-b:2007"> <urn:payload>ERROR Message ID :1.193276186752.78089</urn:payload> </urn:DocumentRepository_ProvideAndRegisterDocumentSet-bFault> </soapenv:Detail> </soapenv:Fault> </pre>	
<p>When the message could not be delivered to the MIIS 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>Timeout</soapenv:Value> </soapenv:Subcode> </pre>	<p><u>No Response sent back</u></p>

	<pre></soapenv:Code> <soapenv:Reason> <soapenv:Text>Backend service is not available, Please Contact Customer service</soapenv:Text> </soapenv:Reason> <soapenv:Node>MIIS</soapenv:Node> <soapenv:Detail> <urn:DocumentRepository_ProvideA ndRegisterDocumentSet-bFault xmlns:urn="urn:ihe:iti:xds-b:2007"> <urn:payload>Backend service is not available, Please Contact Customer service</urn:payload> </urn:DocumentRepository_Provide AndRegisterDocumentSet-bFault> </soapenv:Detail> </soapenv:Fault></pre>	
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