Massachusetts Immunization Information System (MIIS)

Transport Instructions for Soap Web Services

Document Version 1.1

Before testing, review the MIIS Testing Guidelines, Sample Message and Transfer specifications found on the Technical and Clinical Integration section of our MIIS Onboarding page:
https://www.contactmiis.info/onboarding.asp

The Massachusetts Immunization Information System uses a standard WSDL format, as recommended by the CDC. The WSDL will be provided to you in a separate attachment. Within the WSDL, you will find a username and base-64 encoded password.

The endpoint for the MIIS Certification Environment is:
https://services.prtst.masshiwaystage.com/MIISCDCService

WSDL Setup

1) Download, unzip and open the MIISCDCService.wsdl.
   a. The following optional section needs to be deleted.

   <!--Optional:-->
   <urn:username>?</urn:username>
   <!--Optional:-->
   <urn:password>?</urn:password>
   <!--Optional:-->

   b. Replace <soap:header> with the following code:

   <soap:Header>
   <wsse:Security xmlns:wsse="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-secext-1.0.xsd">
   <wsse:UsernameToken wsu:Id="UsernameToken-100" xmlns:wsu="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-utility-1.0.xsd">
   <wsse:Username>ccghlsevenqa</wsse:Username>
   <wsse:Password Type="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-utility-1.0#PasswordText">Q2dtaWlzODAx</wsse:Password>
   </wsse:UsernameToken>
   </wsse:Security>

2) Username and password are highlighted below. You may use these generic credentials during test.
3) The facility id is only for information purpose and logging. An alpha value must be placed in this field, such as ABC Pediatrics.

4) A sample base-64 encoded message is included in the screen shot below.

```
<soap:Envelope xmlns:soap="http://www.w3.org/2003/05/soap-envelope"
    xmlns:urn="urn:cdo:isb:2011">
    <soap:Header>
        <wsse:Security xmlns:wsse="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-secext-1.0.xsd">
            <wsse:UsernameToken wsu:Id="UsernameToken-100" xmlns:wsu="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-utility-1.0.xsd">
                <wsse:Username>cghlsevenqa</wsse:Username>
                <wsse:Password Type="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-utility-1.0#PasswordText">Q2dtaWlzODAx</wsse:Password>
            </wsse:UsernameToken>
        </wsse:Security>
    </soap:Header>
    <soap:Body>
        <urn:submitSingleMessage>
            <urn:facilityID>FacilityName</urn:facilityID>
            <urn:hl7Message>Insert Base-64 encoded message here</urn:hl7Message>
        </urn:submitSingleMessage>
    </soap:Body>
</soap:Envelope>
```

Acknowledgement and Response

The Acknowledgment will need to be base-64 decoded by the receiving system.

```
<soapenv:Envelope xmlns:soapenv="http://www.w3.org/2003/05/soap-envelope">
    <soapenv:Body>
        <urn:submitSingleMessageResponse xmlns:urn="urn:cdo:isb:2011">
            <urn:return>TVNIfF5+XCZ8U1JU3w5OTk5MHxFFSFJ8MTIzNDV8MjAxNTAzMzExNTA3NDB8fEDS15WMDRQUNLFEDSy0yMDMzMS0xNTA3NDAtMDg5FEBfE1TRy5WYWxpZW8wM</urn:return>
        </urn:submitSingleMessageResponse>
    </soapenv:Body>
</soapenv:Envelope>
```
Sample Acknowledgments

Successful Acknowledgment: AA

```
MSH|^~\&|MIIS|99990|SiteName|12928|20150331150017||ACK^V04^ACK|ACK-20150331-150017-259|P|2.5.1
MSA|AA|9298520150331145000
ERR|||Message accepted
```

Message accepted with errors: AE

```
MSH|^~\&|MIIS|99990|SiteName|13164|20150331140015||ACK^V04^ACK|ACK-20150331-140015-649|P|2.5.1
MSA|AE|123955720150331123400
ERR||RXA^10^|101^Required field missing|W|7^required data missing||Administering Provider is missing.
ERR||RXA^17^|101^Required field missing|W|7^required data missing||Substance Manufacturer Name is missing.
ERR|||Message accepted
```

Error Acknowledgment: AR*

```
MSH|^~\&|MIIS|99990|EHR|12345|20150327140433||ACK^V04^ACK|ACK-20150327-140433-851|P|2.5.1
MSA|AR|MSG.Valid_01
ERR|||207^Application internal error|E|8^Data was ignored||MSG_402. MIIS HL7 SERVICE ERROR Please review the HL7 message that was sent to confirm it is formatted in accordance with the Massachusetts DPH HL7 Transfer Specifications. After this review, please try to resend the message. If this error continues, contact the MDPH MIIS Help Desk.
```

*AR responses are typically due to malformatted HL7 messages and/or missing or invalid required fields.