

# **North Dakota Immunization Information System (NDIIS)**

HL7 Web Service Implementation Guide for Immunization Messaging

September 29, 2013

Version 1.0

## Document Version History

| <b>Version</b> | <b>Version Date</b> | <b>Remarks</b>  |
|----------------|---------------------|-----------------|
| 1              | 9/29/2013           | Initial Version |

## 1. Introduction.

The North Dakota Immunization Information System (NDIIS) supports HL7 messaging via a bi-directional real-time HL7 web service. Providers may submit HL7 2.3.1 and 2.5.1 messages. This document provides information on the SOAP/HTTPS transport of messages.

All new web service connections to the NDIIS system are through the North Dakota Health Information Network (NDHIN). NDHIN information is available at <http://www.ndhin.org>. The NDHIN staff is responsible for on-boarding new providers.

## 2. References.

North Dakota Interoperability information, including local and CDC specification and implementation guidance, can be found <http://www.ndhealth.gov/Immunize/Interop/default.htm>. These documents define the supported messages and HL7 versions.

## 3. Web Service Description.

The web service is based on the CDC Transport Layer Protocol Recommendation, Formal Specification, version 1.0, August 25, 2011. Documentation for this reference can be found at <http://www.cdc.gov/vaccines/programs/iis/technical-guidance/SOAP/downloads/transport-specification.pdf>

### ***Web Services Description Language (WSDL).***

#### **Test Environment**

- Use the following URL to access the NDIIS Test Environment WSDL.

<https://ndiisiopstest.noridian.com/wsmsg/service1.asmx?wsdl>

#### **Production Environment**

- Use the following URL to access the NDIIS Production Environment WSDL.

<https://ndiisiopm.noridian.com/wsmsg/service1.asmx?wsdl>

**Web Service Operations.**

**ConnectivityTest Operation.** This operation allows the provider system to test connectivity.

| Parameter | Input/Output | Data type | Description                                    |
|-----------|--------------|-----------|--|
| echoBack  | Input        | String    | Data to be sent back by the connectivity test. |
| return    | Output       | String    | Data sent back by the test.                    |

**submitSingleMessage Operation.** This operation is used to submit Query and Unsolicited Vaccine Record Update messages. Parameter values will be defined during the provider on-boarding process.

| Parameter  | Input/Output | Data type | Description   |
|------------|--------------|-----------|---|
| username   | Input        | String    | IIS username  |
| password   | Input        | String    | IIS password  |
| facilityID | Input        | String    | IIS Facility ID                                     |
| hl7Message | Input        | String    | HL7 version 2.3.1 or 2.5.1 message intended for IIS |
| Return     | Output       | String    | HL7 version 2.3.1 or 2.5.1 response from IIS        |