

# CDC WSDL\* Testing Made Easy

\*Web Service Description Language

- ✓ IIS site and vendor self-testing
- ✓ AIRA Assessment Testing

For implementations of *reliable* immunization message transport that *reduces costs*

## Issues and Need

- CDC prescribes use of WSDL SOAP Transport Standard for immunization messaging between IISs and their partners
- Implementers must apply WSDL as specified for seamless data exchange

## Description of NIST CDC WSDL Testing Tool

- Provides SOAP Envelope and SOAP Connectivity Test Cases to test for non-conformant implementation to the WSDL SOAP Transport Standard
- Test Cases include Test Objectives, Testing Instructions with Diagrams, and Message Validation Reports that can be downloaded in PDF, XML, and HTML formats

## Advantages

- WSDL provides common interface for IISs and partners to exchange data packets (envelopes of data)
- Implementations that conform to the standard are more likely to interoperate seamlessly upon installation, **saving both time and money**

### NIST Immunization Test Suite

<https://hl7v2-iz-r1.5-testing.nist.gov/>

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The NIST CDC WSDL testing tool is used by implementers for self-testing, and AIRA Assessment

# NIST Immunization Test Suite – SOAP Envelope Testing

1 Select **SOAP Envelope** from the Menu Bar.

2 Select, load, and display a Test Case.

3 Load an HL7 message with a SOAP wrapper into the SOAP Envelope window.

4 Click the **Validate** button to initiate validation.

5 View the validation results displayed in the **SOAP Validation Result** window.

The interface shows a menu bar with 'Home', '1 SOAP Envelope', '2 SOAP Connectivity', and '3 HL7 Context-free'. The 'SOAP Envelope' section is active, displaying a SOAP message with the following XML content:

```
1 <Envelope xmlns="http://www.w3.org/2003/05/soap-envelope">
2   <Header />
3   <Body>
4     <connectivityTest xmlns="urn:cdc:iisb:">
5       <echoBack>Hello world!</echoBack>
6     </connectivityTest>
7   </Body>
8 </Envelope>
```

The 'SOAP Validation Result' window shows 1 Error, 0 Warnings, and 0 Alerts. The error details are as follows:

Path	Description	Line #
/Envelope[1]/Body[1]	ERROR: CDC_WSDL1.0: The Body element must contain one 'connectivityTest' element	3