



Net2Net REST Message Context Supplement

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1. Net2Net REST Message Context Overview

About Net2Net REST

Net2Net REST is used to exchange Clinical messages. A Clinical message in the context of this guide is a message delivered to and from authorized customers on the Surescripts network (as such may be renamed from time to time by Surescripts), and satisfies the following requirements:

- Contains clinical or administrative information about a specific patient used for health care payment, treatment, or operations.
- Is not structured except to the extent necessary to transmit an attachment and as necessary for address fields.
- Is not limited to a specific message type or use case.
- Does not require message type or use case-specific workflow integration into the Electronic Health Record (EHR).

By implementing the Net2Net REST standard, Surescripts enables our customer to meet Promoting Interoperability requirements. Surescripts messaging meets the transport and security specifications outlined in the Office of the National Coordinator's (ONC) Health Information Technology: Standards, Implementation, Specifications, and Certification Criteria for Electronic Health Record Technology, 2015 edition.

About This Guide

This Guide was created to assist customers in developing solutions that support appropriate triage and processing of a Clinical Message. It does not define the specific workflow within the sending or receiving health technology, but does provide a mechanism that can be used to interpret the intent of a message. The audience for this document includes any customer responsible for developing a system interface to the Surescripts network using Net2Net REST.

This supplemental guide is meant to support, integrate, and further clarify the application of Message Context for the Net2Net REST Implementation. It is not the creation of a Direct standard, nor does it reference the Direct Project's Implementation Guide for Expressing Context in Direct.

Document References

Please reference the following documents when reading this guide:

Document Title
Surescripts Net2Net REST IG
XDR and XDM for Direct Messaging Specification

2. Message Context

Message Context Format

Message Context defined in this guide is intended to be displayed both in a human readable and codified format. To achieve this, we leveraged the existing structure in the Submission Set Metadata used for XDR Edge Protocol, defined in section 6.2.2 of the XDR and XDM for Direct Messaging Specification.

Surescripts is basing its implementation on the `SubmissionSet.contentTypeCode`, which is intended to define the purpose of the message. Within the XDR Specification, Surescripts recommends that implementers draw from the HITSP C80, version 2.0.1, Table 2-144, to populate the `contentTypeCode`. This table defines common LOINC values many health technologies can already read and interpret.

Example:

Immunization content type code, display name, and coding system:
11369-6, History of Immunization, 2.16.840.1.113883.6.1

Net2Net REST DocumentData

`DocumentData` is a conditional message element as defined through the Net2Net Implementation Guide, which allows for additional data to be placed in the message. It consists of a collection of items with a key attribute and the value.

Note: Values that are not supported by the recipient should be ignored.

Example

```
<DocumentData>
  <Item key="x-kryptiq-notification">onetime</Item>
  <Item key="x-kryptiq-message-class-type">Standard</Item>
  <Item key="x-kryptiqtrackingid">6dabf2a36fa4406eacd09ce23190ceb1</Item>
  <Item key="x-kryptiqremotemessagekey">jzcs3dnchvrbhbdvso2eatloj4molg</Item>
</DocumentData>
```

Message Context in DocumentData

To achieve pass, the MessageContext described in section 2.1 above (as part of the Document data defined in section 2.2), Surescripts has defined the following Item keys:

Example

```
<Item key="x-classification-code">VALUE</Item>
<Item key="x-classification-scheme">VALUE</Item>
<Item key="x-classification-name">VALUE</Item>
```

The `x-classification-code` key value should be populated with the type code. The `x-classification-scheme` key value should be populated with the coding system. The `x-classification-name` should be populated with the display name. An example of a fully populated `DocumentData` element based on the Immunization example reviewed earlier is displayed below.

Example

```
<DocumentData>
  <Item key="x-classification-code">11369-6</Item>
  <Item key="x-classification-scheme">2.16.840.1.113883.6.1</Item>
  <Item key="x-classification-name">History of Immunization</Item>
</DocumentData>
```

Surescripts Processing of Message Context

Since there are Edge Implementations for Direct, recipients will receive this information in different formats. The following sections define how the information presented by the Net2Net REST senders' information is delivered to the intended recipient.

Net2Net REST to Net2Net REST

Surescripts will not modify the `DocumentData` element, and will deliver the content exactly as it was presented by the sender.

Net2Net REST to XDR

Surescripts takes the `x-classification` Item keys and populates the Classification element in the XDR message.

Example

```
<Classification id="d008d7a2-eae1-4cc7-b316-972a21d957c3"
  objectType="urn:oasis:names:tc:ebxml-regrep:ObjectType:RegistryObject:Classification"
  classificationScheme="urn:uuid:aa543740-bdda-424e-8c96-df4873be8500"
  classifiedObject="1.2.840.114350.1.13.239.2.7.3.688883.80.48060976.96032010"
  nodeRepresentation="11369-6">
  <Slot name="codingScheme">
    <ValueList>
      <Value>2.16.840.1.113883.6.1</Value>
    </ValueList>
  </Slot>
  <Name>
    <LocalizedString xml:lang="en-us" charset="UTF-8"
      value="History of Immunization"/>
  </Name>
</Classification>
```

Net2Net REST to Direct

Surescripts takes the `x-classification` Item keys and presents the information as `x-headers` in the MIME message going out via Direct.

Example:

```
x-classification-code: 11369-6
x-classification-scheme: 2.16.840.1.113883.6.1
x-classification-name: History of Immunization
```

3. Disclaimers

Guide Disclaimer

In the event that the Participant chooses to make any software changes based upon recommendations in this guide, the Participant acknowledges and agrees that Surescripts Network shall bear no responsibility or liability for the Participant's changes or any effects thereof. The Participant shall also be required to transition to the new guide at such time as said guide is published, which may involve different or additional parameters than are published in this guide.

Examples Disclaimer

Examples provided throughout this guide are not intended to be all-inclusive. This pertains to example workflows, element-specific (field) examples, or message examples. Participants should not restrict coding to the examples used herein.

When developing, this guide should be used along with additional documentation referenced and applicable customary coding standards.

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4. Document Change Log

▼ 2026-08-21

Section Title	Change Description
N/A	N/A - Developer Portal - initial release