



Software **Solutions**

HL7 Interface

ec² Software Solutions

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This document presents the HL7 Interface functionality designed to transfer patient schedule and demographic data from the RIS/HIS system to NMIS (Nuclear Medicine Information System).

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ADT Messages from RIS to NMIS

1. Introduction

This document presents the HL7 Interface functionality designed to transfer patient schedule and demographic data from the RIS/HIS system to NMIS (Nuclear Medicine Information System).

The HL7 Interface includes support for ADT messages from all versions of the Health Level 7 (HL7) standard.

2. ADT Specifications

2.1. ADT version and Merge Support

The ADT interface supports practically all versions of HL7 ADT messages (version 2.1—2.5). We support ADT^A40 and ADT^A18 patient merge ADT.

Field Name	Mandatory for NMIS	Suggested position in ORM^O01
Patient Name	Y	PID 5
Patient Address	N	PID 11
Phone 1	N	PID 13
Phone 2	N	PID 14
Religion	N	PID 17
Marital status	N	PID 16
Sex	Y	PID 8
Birth Date	Y	PID 7
Patient MR #	Y	PID 3
Patient Status	N	PV1 2
Room Floor	N	PV1 3
Doctor1	N	ORC 12
Doctor2	N	PV1 7
Refer Name	N	PV1 8

2.2 Fields required to populate NMIS Filecard Screen

ADT Messages from RIS to NMIS

3. ORM or ADT?

RIS Interface engine has an option of sending ORM or ADT or both feeds together depending on NMIS user's requirements. We can also receive both feeds from different sources.

3.1. ADT with ORM feed

Order interface will update patient demographics with new and update orders. However, if customer needs, ADT interface can deliver up to the minute patient demographics updates to the NMIS.

3.2. ADT without ORM feed

It is usually difficult for any interface engines to apply filters on ADT based on modality or department. We are equipped to receive entire hospital's ADT feed. It will store the incoming ADT feed in a temporary filecard database table for 15 days. (A configurable # depending on the ADT volume)

If an ADT record is used in any of the NMIS functionality like schedule/dose, it becomes a permanent filecard record in the NMIS database.

4. HL7 enterprise version

For HL7 enterprise interface version (interface with multiple NMIS sites), ADT messages will be sent to all the sites simultaneously.

ADT Messages from RIS to NMIS

5. Sample Messages

NMIS Filecard – New Entry
ADT^A04

```
MSH|^~\&|NMISHL7|Nuclear Technology Lab|NMIS||200501050707|| ADT^A04|10631800|PI2.3||  
PID||6383333||TESTPATIENT^ONE^A^|19390221|M||333 6505 3RD AVENUE^^DELTA^NJ^08876||  
(732)111-2222||||00638333-3/0021|||||||  
PV1||OIPNM^^^SPH||3802^KLINKHOFF^ALICE^VIVIANI683^BELL-IRVING^PETER|| |||
```

NMIS Filecard – Update
ADT^A08

```
MSH|^~\&|NMISHL7|Nuclear Technology Lab|NMIS||200501050707|| ADT^A08|10631800|PI2.3||  
PID||6383333||TESTPATIENT^ONE^A^|19390221|M||333 6505 3RD AVENUE^^DELTA^NJ^08876||  
(732)111-2222||||00638333-3/0021|||||||  
PV1||OIPNM^^^SPH||3802^KLINKHOFF^ALICE^VIVIANI683^BELL-IRVING^PETER|| |||
```

6. Change in field mapping

Our interface engine is designed to work with variety of SIU messages. However, if your out-bound HL7 engine's specifications do not match with ours, chances are, we can easily accommodate any field mapping changes from our side as our HL7 engine is highly configurable.