

AGFA HL7 Conformance Statement



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1 INTRODUCTION

1.1 Revision Record

Revision Number	Date	Reason for Change
1.0	January 12, 2012	Initial version (based on document Node ID 28227256)
3	October 18, 2018	Change "Agfa HealthCare" to "Agfa NV"; Replaced Agfa HealthCare logo with Agfa logo

1.2 Purpose and Intended Audience of this Document

This document is a HL7 Conformance Statement for the HL7 Services of SE Suite 2.0.

The user of this document is involved with system integration and/or software design. We assume that the reader is familiar with the terminology and concepts that are used in HL7 2.5 standard and the IHE Technical Framework.

Readers not familiar with HL7 terminology should first read the appropriate parts of the HL7 standard itself, prior to reading this conformance statement.

Although the use of this conformance statement in conjunction with the HL7 standard is intended to facilitate communication with SE Suite 2.0, it is not sufficient to guarantee, by itself, the inter-operation of the connection between SE Suite 2.0 and the 3rd party HL7-based system.

The integration of any device into a system of interconnected devices goes beyond the scope of the HL7 standard and this conformance statement when interoperability is desired. The responsibility for analyzing the applications requirements and developing a solution that integrates the Agfa equipment with other vendors' systems is the user's responsibility and should not be underestimated.

1.3 Acronyms and Abbreviations

Definitions, terms and abbreviations used in this document, many of which are defined within the HL7 standard. Abbreviations and terms are as follows:

ADT	Admission, Discharge, and Transfer message
AL1	Patient Allergy Information segment
EVN	Event Type segment
HL7	Health Level 7
IHE	Integrating the Healthcare Enterprise
MRG	Merge Patient Information segment
MSH	Message Header segment
NTE	Notes and comments segment
OBR	Observation Request segment
OBX	Observation/Result segment

ORC	Common Order segment
ORM	Order Request message
ORU	Observation Results - Unsolicited message
PID	Patient ID segment
PV1	Patient Visit segment
QRD	Query Definition segment
RIS	Radiology Information System

1.4 Related Documents

- HL7 Standard v2.5 , see www.hl7.org
- IHE Radiology Technical Framework Revision 7.0 – Final Text, May, 2006 – see www.ihe.net

2 INBOUND MESSAGES

2.1 Supported Trigger Events

2.1.1 Supported ADT Events

Inbound support for ADT triggers is implemented by a lookup table. This table may be edited to meet a site's needs.

Table 1 Supported ADT Events

Func Area	Event Code	ADT Trigger Event	Inbound Supported
ADT	A01	Admit/Visit Notification	Y
ADT	A02	Transfer a patient	N
ADT	A03	Discharge/end visit	N
ADT	A04	Register a patient	N
ADT	A05	Preadmit a patient	N
ADT	A06	Transfer an outpatient to inpatient	N
ADT	A07	Transfer an inpatient to outpatient	N
ADT	A08	Update patient information	Y
ADT	A09	Patient departing	N
ADT	A10	Patient arriving	N
ADT	A11	Cancel admit / Visit notification	N
ADT	A12	Cancel transfer	N
ADT	A13	Cancel discharge	N
ADT	A14	Pending admit	N
ADT	A15	Pending transfer	N
ADT	A16	Pending discharge	N
ADT	A17	Swap patients	N
ADT	A18	Merge patient information	N
QRY	A19	Patient query	N
ADT	A20	Bed status query	N
ADT	A21	Leave of absence – out (leaving)	N
ADT	A22	Leave of absence – in (returning)	N
ADT	A23	Delete a patient record	N
ADT	A24	Link patient information	N
ADT	A25	Cancel pending discharge	N
ADT	A26	Cancel pending transfer	N
ADT	A27	Cancel pending admit	N
ADT	A28	Add person information	N
ADT	A29	Delete person information	N
ADT	A30	Merge person information	N
ADT	A31	Update person information	N
ADT	A32	Cancel patient arriving	N
ADT	A33	Cancel patient departing	N

Func Area	Event Code	ADT Trigger Event	Inbound Supported
ADT	A34	Merge patient information – patient ID only	N
ADT	A35	Merge patient information – account number only	N
ADT	A36	Merge patient information – patient ID and account	N
ADT	A37	Unlink patient information	N
ADT	A38	Cancel pre-admit	N
ADT	A39	Merge person – patient ID	N
ADT	A40	Merge patient –patient identifier list	Y
ADT	A41	Merge account – patient account number	N
ADT	A42	Merge visit – visit number	N
ADT	A43	Move patient information – patient identifier list	N
ADT	A44	Move account information – patient account number	N
ADT	A45	Move visit information – visit number	N
ADT	A46	Change patient ID	N
ADT	A47	Change patient identifier list	N
ADT	A48	Change alternate patient ID	N
ADT	A49	Change patient account number	N
ADT	A50	Change visit number	N
ADT	A51	Change alternate visit ID	N
ADT	A52	Cancel leave of absence for a patient	N
ADT	A53	Cancel patient returns from a leave of absence	N
ADT	A54	Change attending doctor	N
ADT	A55	Cancel change attending doctor	N
ADT	A60	Update adverse reaction information	N
ADT	A61	Change consulting doctor	N
ADT	A62	Cancel change consulting doctor	N

2.1.1.1 ADT Segments Processed

The following segments are processed when SE Suite 2.0 receives an ADT message:

```
MSH
PID
[ PV1 ]
[ MRG ]
```

2.2 Supported HL7 Attributes

The following sections indicate the default mapping of HL7 attributes to internal SE Suite 2.0 data attributes.

2.2.1 MSH Segment Mappings

Table 2 MSH Attribute Support in SE Suite 2.0

Seq	HL7 Field Name	Value Required by HL7	Default Mapping to SE Attribute(s) (Yes/No)	Comments
1	Field Separator	Yes	Yes	Usually " "
2	Encoding Characters	Yes	Yes	Usually "^~\&"
3	Sending Application	No	No	
4	Sending Facility	No	No	
5	Receiving Application	No	No	
6	Receiving Facility	No	No	
7	Date/time of Message	No	No	
8	Security	No	No	
9	Message Type	Yes	Yes	
10	Message Control ID	Yes	Yes	Generated by sending application
11	Processing ID	Yes	Yes	
12	Version ID	Yes	Yes	
13	Sequence Number	No	No	
14	Continuation Pointer	No	No	
15	Accept Acknowledgement Type	No	No	
16	Application Acknowledgement Type	No	No	
17	Country Code	No	No	
18	Character Set	Yes	Yes	Default value is "8859/1". Others values are listed in Part 3.
19	Principal Language of Message	No	No	

2.2.2 PID Segment Mappings

Table 3 PID Attribute Support in SE Suite 2.0

Seq	HL7 Field Name	Value Required	Default Mapping to SE Attribute(s) (Yes/No)	Dicom Field Name	Comments
1	Set ID – Patient ID	No	No		
2	Patient ID	No	No		
3	Patient Identifier List	Yes	Yes	Patient ID	Its encoding takes into account character set given in MSH segment
4	Alternate Patient ID	No	No		
5	Patient Name	Yes	Yes	Patient's Name	Its encoding takes into account character set given in MSH segment
6	Mother's Maiden Name	No	No		
7	Date/Time of Birth	No	Yes	Patient Birthdate	
8	Administrative Sex	No	Yes	Patient's Sex	M (Male), F (Female), O (Other)
9	Patient Alias	No	No		
10	Race	No	No		
11	Patient Address	No	No		
12	Country Code	No	No		
13	Phone Number – Home	No	No		
14	Phone Number – Business	No	No		
15	Primary Language	No	No		
16	Marital Status	No	No		
17	Religion	No	No		
18	Patient Account Number	No	No		
19	SSN Number – Patient	No	No		
20	Driver's Lic Num – Patient	No	No		
21	Mother's Identifier	No	No		
22	Ethnic Group	No	No		
23	Birth Place	No	No		
24	Multiple Birth Indicator	No	No		
25	Birth Order	No	No		
26	Citizenship	No	No		
27	Veterans Military Status	No	No		
28	Nationality	No	No		
29	Patient Death Date/Time	No	No		
30	Patient Death Indicator	No	No		

2.2.3 PV1 Segment Mappings

This segment is only used in ADT Patient Admission message (A01).

Table 4 PV1 Attribute Support in SE Suite 2.0

Seq	HL7 Field Name	Value Required	Default Mapping to SE Attribute(s) (Yes/No)	Dicom Field Name	Comments
1	Set ID - Patient Visit	No	No		
2	Patient Class	Yes	Yes		
3	Assigned Patient Location	No	No		
4	Admission Type	No	No		
5	Pre-admit Number	No	No		
6	Prior Patient Location	No	No		
7	Attending Doctor	No	No		
8	Referring Doctor	No	No		
9	Consulting Doctor	No	No		
10	Hospital Service	No	No		
11	Temporary Location	No	No		
12	Pre-admit Test Indicator	No	No		
13	Readmission Indicator	No	No		
14	Admit Source	No	No		
15	Ambulatory Status	No	No		
16	VIP Indicator	No	No		
17	Admitting Doctor	No	No		
18	Patient Type	No	No		
19	Visit Number	Yes	Yes	Admission ID	Its encoding takes into account character set given in MSH segment
20	Financial Class Eff. Date	No	No		
21	Charge Price Indicator	No	No		
22	Courtesy Code	No	No		
23	Credit Rating	No	No		
24	Contract Code	No	No		
25	Contract Effective Date	No	No		
26	Contract Amount	No	No		
27	Contract Period	No	No		
28	Interest Code	No	No		
29	Transfer to Bad Debt Code	No	No		
30	Transfer to Bad Debt Date	No	No		
31	Bad Debt Agency Code	No	No		
32	Bad Debt Transfer Amount	No	No		
33	Bad Debt Recovery Amt	No	No		
34	Delete Account Indicator	No	No		
35	Delete Account Date	No	No		

Seq	HL7 Field Name	Value Required	Default Mapping to SE Attribute(s) (Yes/No)	Dicom Field Name	Comments
36	Discharge Disposition	No	No		
37	Discharged to Location	No	No		
38	Diet Type	No	No		
39	Servicing Facility	No	No		
40	Bed Status	No	No		
41	Account Status	No	No		
42	Pending Location	No	No		
43	Prior Temporary Location	No	No		
44	Admit Date/Time	No	No		
45	Discharge Date/Time	No	No		
46	Current Patient Balance	No	No		
47	Total Charges	No	No		
48	Total Adjustments	No	No		
49	Total Payments	No	No		
50	Alternate Visit ID	No	No		
51	Visit Indicator	No	No		
52	Other Healthcare Provider	No	No		

2.2.4 MRG Segment Mappings

This segment is only used in ADT Merge messages (A40).

Table 5 MRG Attribute Support in SE Suite 2.0

Seq	HL7 Field Name	Value Required	Default Mapping to SE Attribute(s) (Yes/No)	Dicom Field Name	Comments
1	Prior Patient identifier list	Yes	Yes	Patient ID	Its encoding takes into account character set given in MSH segment
2	Prior Alternate Patient ID	No	No		
3	Prior Patient Acct Number	No	No		
4	Prior Patient ID	No	No		
5	Prior Visit Number	No	No		
6	Prior Alternate Visit ID	No	No		
7	Prior Patient Name	No	No		

2.3 Acknowledgements

No acknowledgments are supported by SE Suite.

3 MAPPING HL7 / DICOM (A01: PATIENT ADMISSION)

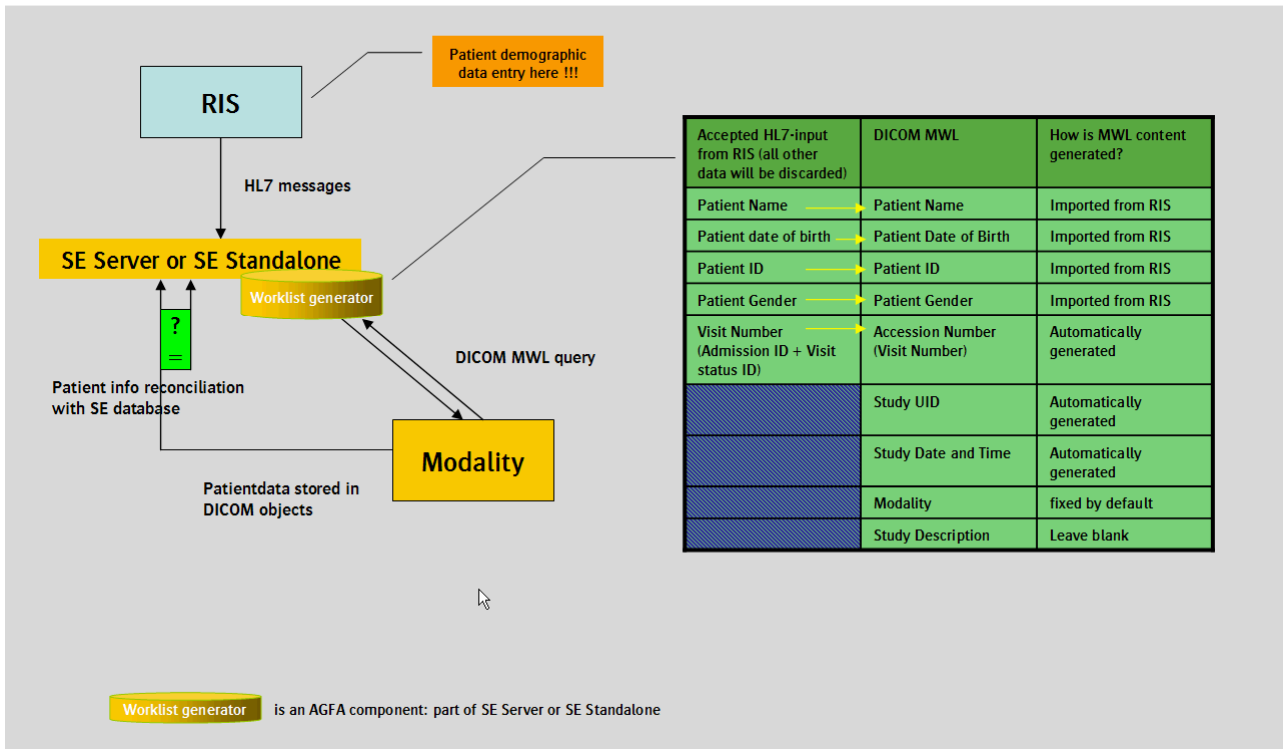
Table 6 Mapping HL7 / DICOM for Patient Admission

HL7 Field Name	Dicom Modality Worklist Field Name	Dicom Tag	Comments
Character Set	Character Set	(0008,0005)	Imported from sender with specific mapping (see below)
	Accession Number	(0008, 0050)	Automatically generated
	Modality	(0008, 0060)	Fixed by default (configurable)
Patient Name	Patient's Name	(0010, 0010)	Imported from sender
Patient Identifier List	Patient ID	(0010, 0020)	Imported from sender
Date/Time of Birth	Patient birthdate	(0010, 0030)	Imported from sender
Administrative Sex	Patient's sex	(0010, 0040)	Imported from sender
	Study UID	(0020, 000D)	Automatically generated
	VisitStatusID	(0038, 0008)	VisitStatusID = "ADMITTED".
Visit Number	Admission ID	(0038, 0010)	Imported from sender
	Scheduled Station AE Title	(0040, 0001)	Fixed by default (configurable)
	Scheduled Procedure Step Start Date	(0040, 0002)	Automatically generated
	Scheduled Procedure Step Start Time	(0040, 0003)	Automatically generated
	Scheduled Procedure Step Description	(0040, 0007)	Empty

Table 7 - Character Set Mapping between HL7 / DICOM

HL7 Character Set	DICOM Character Set	Description
8859/1	ISO_IR 100	Latin alphabet No. 1
8859/2	ISO_IR 101	Latin alphabet No. 2
8859/4	ISO_IR 110	Latin alphabet No. 4 (Baltic)
8859/5	ISO_IR 144	Cyrillic
8859/7	ISO_IR 126	Greek
8859/9	ISO_IR 148	Latin alphabet No. 5 (Turkish)

SE workflow with RIS (single modality)





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