

HL7 Conformance Statement RadCentre

Release 2015.01

Editing

The editing is done by i-SOLUTIONS Health GmbH. If you have any suggestions for improvement or requests for modification etc, please let us know.

You can reach us in the following ways:

i-SOLUTIONS Health Contact Center
www.i-solutions.de

E-Mail: info@i-solutions.de

Phone: + 49 (0) 2327 568 0

Fax: + 49 (0) 2327 568 525

Mail: i-SOLUTIONS Health GmbH

Burgstraße 9	Am Exerzierplatz 14	Lorenzweg 42, Haus 5
44867 Bochum	68167 Mannheim	39124 Magdeburg

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As far as referred to third-party hardware or software, the vendors of this products are listed at the end of this document.

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2 Introduction

2.1 Revision Record

Revision Number	Date	Author	Reason for Change
1.0	10.12.2012	PLEH/MHOF	Initial

2.2 Purpose and Intended Audience

This document is a HL7 Conformance Statement for the HL7 Services associated with RadCentre.

It is assumed that the reader of this document is involved in system integration and/or software design. It is also assumed that the reader is familiar with the terminology and concepts that are used in HL7 2.3.1 and 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 RadCentre, it is not sufficient to guarantee, by itself, the interoperability of the connection between RadCentre 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. It is the user's responsibility to analyze the applications requirements and develop a solution that integrates the i-SOLUTIONS Health equipment with other vendors' systems.

2.3 Acronyms and Abbreviations

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

Acronym	Definition
ADT	Admission, Discharge and Transfer message
AL1	Patient Allergy Information segment

Acronym	Definition
EVN	Event Type segment
HL7	Health Level 7
IHE	Integrating the Healthcare Enterprise
MDM	Medical Document Management
MFN	Master Files Change Notification
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

3 Inbound Messages

3.1 Supported Trigger Events

3.1.1 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 2-1. Supported ADT Events

Func Area	Event Code	ADT Trigger Event	InboundSupported
ADT	A01	Admit a patient	Yes
ADT	A02	Transfer a patient	Yes
ADT	A03	Discharge a patient	Yes
ADT	A04	Register a patient	Yes
ADT	A05	Preadmit a patient	Yes
ADT	A06	Transfer an outpatient to inpatient	Yes
ADT	A07	Transfer an inpatient to outpatient	Yes
ADT	A08	Update patient information	Yes
ADT	A09	Patient departing	No
ADT	A10	Patient arriving	No
ADT	A11	Cancel admit	Yes
ADT	A12	Cancel transfer	Yes
ADT	A13	Cancel discharge	Yes
ADT	A14	Pending admit	Yes
ADT	A15	Pending transfer	Yes
ADT	A16	Pending discharge	Yes
ADT	A17	Swap patients	No
ADT	A18	Merge patient information	No

Table 2-1. Supported ADT Events

Func Area	Event Code	ADT Trigger Event	InboundSupported
QRY	A19	Patient query	No
ADT	A20	Nursing/Census application updates	No
ADT	A21	Leave of absence - out (leaving)	No
ADT	A22	Leave of absence - in (returning)	No
ADT	A23	Delete a patient record	No
ADT	A24	Link patient information	No
ADT	A25	Cancel pending discharge	No
ADT	A26	Cancel pending transfer	No
ADT	A27	Cancel pending admit	No
ADT	A28	Add person information	Yes
ADT	A29	Delete person information	Yes
ADT	A30	Merge person information	No
ADT	A31	Update person information	Yes
ADT	A32	Cancel patient arriving	No
ADT	A33	Cancel patient departing	No
ADT	A34	Merge patient information - patient ID only	Yes
ADT	A35	Merge patient information - account number only	No
ADT	A36	Merge patient information - patient ID and account	No
ADT	A37	Unlink patient information	No
ADT	A38	Cancel pre-admit	No
ADT	A39	Merge person - external ID	No
ADT	A40	Merge patient - internal ID	Yes
ADT	A41	Merge account - patient account number	No
ADT	A42	Merge visit - visit number	No

Table 2-1. Supported ADT Events

Func Area	Event Code	ADT Trigger Event	InboundSupported
ADT	A43	Move patient information - internal ID	No
ADT	A44	Move account information - patient account number	No
ADT	A45	Move visit information - visit number	Yes
ADT	A46	Change external ID	No
ADT	A47	Change internal ID	No
ADT	A48	Change alternate patient ID	No
ADT	A49	Change patient account number	No
ADT	A50	Change visit number	No
ADT	A51	Change alternate visit ID	No

3.1.1.1 ADT Segments Processed

The following segments are processed when RadCentre receives an ADT message:

```

MSH
EVN
PID
[ PD1 ]
[ {NK1} ]
PV1
[ PV2 ]
[ {AL1} ]
[ {DG1} ]
[ {IN1
  [ IN2 ]
}
]

```

3.1.2 Supported ORM Events

Table 2-2. Supported ORM Events

Func Area	Event Code	ORM Trigger Event	Inbound Supported
ORM	O01	General order message	Yes
ORR	O02	Order response	Yes

3.1.2.1 ORM Messages: Supported Control Codes and Order Status

Table 2-3a. Default Order Control Codes supported from ORC 1,1

Control Code (ORC-1) Value
NW
SC
CA
OC
XO
SN
NA

Table 2-3b. Default Order Control Codes supported from ORC 5,1

Order Status (ORC-5) Value
CA
CM
IP
SC

3.1.2.2 ORM Segments Processed

```

MSH
  [PID
    [PV1
      [PV2]
    ]
    [ {IN1
      [IN2]
    }
    ]
    [ {AL1} ]
  ]
  {ORC
    [OBR
      [ {NTE} ]
      [ {OBX
    ]
  }
  ]

```

3.1.3 Supported DFT Events

Table 2-4. Supported DFT Events

Func Area	Event Code	ORM Trigger Event	Inbound Supported
DFT	P03	Post detail financial transaction	Yes

3.1.3.1 DFT Segments Processed

```

MSH
EVN
PID
[PV1]
[PV2]
{FT1}

```

3.2 Supported HL7 Attributes (inbound)

3.2.1 MSH Segment Mappings

Table 2-5. MSH Attribute Support in RadCentre

Seq	HL7 Field Name	Value Required	Default Mapping to RadCentre (Yes/No)	Comments
1	Field Separator	R	No	
2	Encoding Characters	R	No	
3	Sending Application	O	No	
4	Sending Facility	O	No	
5	Receiving Application	O	No	
6	Receiving Facility	O	No	
7	Date/time of Message	R	No	
8	Security	O	No	
9	Message Type	R	Yes	Table g_casemove
10	Message Control ID	R	Yes	Table g_casemove
11	Processing ID	R	No	
12	Version ID	R	No	
13	Sequence Number	O	No	
14	Continuation Pointer	O	No	
15	Accept Acknowledgement Type	O	No	
16	Application Acknowledgement Type	O	No	
17	Country Code	O	No	
18	Character Set	O	No	
19	Principal Language of Message	O	No	

3.2.2 PID Segment Mappings

Table 2-6. PID Attribute Support in RadCentre

Seq	HL7 Field Name	Value Required	Default Mapping to RadCentre Attribute(s) (Yes/No)	Comments
1	Set ID - Patient ID	O	No	
2	Patient ID (External ID)	O	Yes	
3	Patient ID (Internal ID)	R	Yes	Table g_pat, Table g_case
4	Alternate Patient ID	O	No	
5	Patient Name	R	Yes	Table g_pat
6	Mother's Maiden Name	O	Yes	Table g_pat
7	Date of Birth	O	Yes	Table g_pat
8	Sex	O	Yes	Table g_pat
9	Patient Alias	O	No	
10	Race	O	No	
11	Patient Address	O	Yes	Table g_pat
12	Country Code	O	Yes	Table g_pat
13	Phone Number - Home	O	Yes	Table g_pat
14	Phone Number - Business	O	Yes	Table g_pat
15	Primary Language	O	Yes	Table g_pat
16	Marital Status	O	Yes	Table g_pat
17	Religion	O	Yes	Table g_pat
18	Patient Account Number	O	No	
19	SSN Number - Patient	O	No	
20	Driver's Lic Num - Patient	O	No	
21	Mother's Identifier	O	No	
22	Ethnic Group	O	No	
23	Birth Place	O	No	
24	Multiple Birth Indicator	O	No	
25	Birth Order	O	No	
26	Citizenship	O	No	

Table 2-6. PID Attribute Support in RadCentre

Seq	HL7 Field Name	Value Required	Default Mapping to RadCentre Attribute(s) (Yes/No)	Comments
27	Veterans Military Status	O	No	
28	Nationality	O	Yes	Table g_pat
29	Patient Death Date/Time	O	Yes	Table g_pat
30	Patient Death Indicator	O	Yes	Table g_pat

3.2.3 PV1 Segment Mappings

Table 2-7. Attribute Support in RadCentre

Seq	HL7 Field Name	Value Required	Default Mapping to RadCentre Attribute(s) (Yes/No)	Comments
1	Set ID - Patient Visit	O	No	
2	Patient Class	O	Yes	Table g_case
3	Assigned Patient Location	O	Yes	Table g_casemove
4	Admission Type	O	Yes	Table g_case
5	Pre-admit Number	O	No	
6	Prior Patient Location	O	No	
7	Attending Doctor	O	Yes	Table g_casemove
8	Referring Doctor	O	Yes	Table g_casemove
9	Consulting Doctor	O	Yes	Table g_casemove
10	Hospital Service	O	No	
11	Temporary Location	O	No	
12	Pre-admit Test Indicator	O	No	
13	Readmission Indicator	O	No	
14	Admit Source	O	No	
15	Ambulatory Status	O	No	
16	VIP Indicator	O	No	
17	Admitting Doctor	O	No	
18	Patient Type	O	Yes	Table g_casemove
19	Visit Number	O	Yes	Table g_case
20	Financial Class Eff. Date	O	No	
21	Charge Price Indicator	O	Yes	Table g_casemove
22	Courtesy Code	O	No	
23	Credit Rating	O	No	
24	Contract Code	O	Yes	Table g_case
25	Contract Effective Date	O	No	
26	Contract Amount	O	No	

Table 2-7. Attribute Support in RadCentre

Seq	HL7 Field Name	Value Required	Default Mapping to RadCentre Attribute(s) (Yes/No)	Comments
27	Contract Period	O	No	
28	Interest Code	O	No	
29	Transfer to Bad Debt Coder	O	No	
30	Transfer to Bad Debt Date	O	No	
31	Bad Debt Agency Code	O	No	
32	Bad Debt Transfer Amount	O	No	
33	Bad Debt Recovery Amt	O	No	
34	Delete Account Indicator	O	No	
35	Delete Account Date	O	No	
36	Discharge Disposition	O	No	
37	Discharged to Location	O	No	
38	Diet Type	O	No	
39	Servicing Facility	O	No	
40	Bed Status	O	No	
41	Account Status	O	No	
42	Pending Location	O	No	
43	Prior Temporary Location	O	No	
44	Admit Date/Time	O	Yes	Table g_casemove
45	Discharge Date/Time	O	Yes	Table g_casemove
46	Current Patient Balance	O	No	
47	Total Charges	O	No	
48	Total Adjustments	O	No	
49	Total Payments	O	No	
50	Alternate Visit ID	O	No	
51	Visit Indicator	O	Yes	
52	Other Healthcare Provider	O	No	

3.2.4 MRG Segment Mappings

Table 2-8. MRG Attribute Support in RadCentre

Seq	HL7 Field Name	Value Required	Default Mapping to RadCentre Attribute(s) (Yes/No)	Comments
1	Prior Patient ID - Internal	R	Yes	Table g_pat, g_case
2	Prior Alternate Patient ID	O	No	
3	Prior Patient Acct Number	O	No	
4	Prior Patient ID - External	O	No	
5	Prior Visit Number	O	Yes	Table g_case
6	Prior Alternate Visit ID	O	No	
7	Prior Patient Name	O	No	

3.2.5 ORC Segment Mappings

Table 2-9. ORC Attribute Support in RadCentre

Seq	HL7 Field Name	Value Required	Default Mapping to RadCentre Attribute(s) (Yes/No)	Comments
1	Order Control	R	Yes	
2	Placer Order #	O	Yes	
3	Filler Order #	O	Yes	
4	Placer Group #	O	Yes	
5	Order Status	O	Yes	
6	Response Flag	O	No	
7	Quantity/Timing	O	Yes	
8	Parent	O	No	
9	Date/Time of Transaction	O	Yes	
10	Entered By	O	No	
11	Verified By	O	Yes	
12	Ordering Provider	O	Yes	
13	Enterer's Location	O	Yes	
14	Call Back Phone Number	O	No	

Table 2-9. ORC Attribute Support in RadCentre

Seq	HL7 Field Name	Value Required	Default Mapping to RadCentre Attribute(s) (Yes/No)	Comments
15	Order Effective Date/Time	O	Yes	
16	Order Control Reason	O	No	
17	Entering Organization	O	No	
18	Entering Device	O	No	
19	Action By	O	No	

3.2.6 OBR Segment Mappings

Table 2-10. OBR Attribute Support in RadCentre

Seq	HL7 Field Name	Value Required	Default Mapping to RadCentre Attribute(s) (Yes/No)	Comments
1	Set ID - Observation Request	O	No	
2	Placer Order #	O	Yes	
3	Filler Order #	O	Yes	
4	Universal Service ID	R	Yes	
5	Priority	O	Yes	
6	Requested Date/Time	O	No	
7	Observation Date/Time	O	Yes	
8	Observation End Date/Time	O	No	
9	Collection Volume	O	No	
10	Collector Identifier	O	No	
11	Specimen Action Code	O	No	
12	Danger Code	O	No	
13	Relevant Clinical Inf.	O	No	
14	Specimen Rec'd Date/Time	O	No	
15	Specimen Source	O	No	
16	Ordering Provider family	O	No	
17	Order Callback Phone No.	O	No	
18	Placer Field 1	O	Yes	
19	Placer Field 2	O	Yes	
20	Filler Field 1	O	Yes	
21	Filler Field 2	O	Yes	
22	Result Rpt/Status Change - Date/Time	O	Yes	
23	Charge To Practice	O	No	
24	Diagnostic Serv Sect Id	O	No	

Table 2-10. OBR Attribute Support in RadCentre

Seq	HL7 Field Name	Value Required	Default Mapping to RadCentre Attribute(s) (Yes/No)	Comments
25	Result Status	O	Yes	
26	Parent Result	O	No	
27	Quantity/Timing	O	Yes	
28	Result Copies To	O	No	
29	Parent Number	O	No	
30	Transportation Mode	O	Yes	
31	Reason For Study	O	Yes	
32	Principal Result Interpreter	O	No	
33	Assistant Result Interpreter	O	No	
34	Technician	O	No	
35	Transcriptionist	O	No	
36	Scheduled Date/Time	O	Yes	
37	Number of Sample Containers	O	No	
38	Transport Logistics of Collected Sample	O	No	
39	Collector's Comment	O	No	
40	Transport Arrangement Responsibility	O	No	
41	Transport Arranged	O	No	
42	Escort Required	O	No	
43	Planned Patient Transport Comment	O	No	
44	Procedure Code	O	No	

3.2.7 ZDS Segment Mappings

Table 2-11. ZDS Attribute Support RadCentre

Seq	HL7 Field Name	Value Required	Default Mapping to RadCentre Attribute(s) (Yes/No)	Comments
1	Study Instance UID	O	Yes	

3.2.8 DFT Segment Mappings

Table 2-12. DFT Attribute Support RadCentre

Seq	HL7 Field Name	Value Required	Default Mapping to RadCentre Attribute(s) (Yes/No)	Comments
1	Set ID - FT1	O	No	
2	Transaction ID	O	No	
3	Transaction Batch ID	O	No	
4	Transaction Date	R	Yes	
5	Transaction Posting Date	O	No	
6	Transaction Type	R	Yes	
7	Transaction Code	R	Yes	
8	Transaction Description	O	No	
9	Transaction Description	O	No	
10	Transaction Quantity	O	Yes	
11	Transaction Amount	O	Yes	
12	Transaction Amount -Unit	O	No	
13	Department Code	O	No	
14	Insurance Plan ID	O	No	
15	Insurance Amount	O	No	
16	Assigned Patient Location	O	No	
17	Fee Schedule	O	No	
18	Patient Type	O	No	
19	Diagnosis Code - FT1	O	No	
20	Performed By Code	O	Yes	

Table 2-12. DFT Attribute Support RadCentre

Seq	HL7 Field Name	Value Required	Default Mapping to RadCentre Attribute(s) (Yes/No)	Comments
21	Ordered By Code	O	Yes	
22	Unit Cost	O	No	
23	Filler Order Number	O	No	
24	Entered By Code	O	No	
25	Procedure Code	O	No	

3.3 Acknowledgements

The HL7 mapping returns a NAK if the incoming message cannot be processed. Any processing error returns an Acknowledgment Code of .CE.

4 Outbound Messages

4.1 Supported Trigger Events

4.1.1 Supported ADT Events

Table 3-1. Supported ADT Events

Func Area	Event Code	ADT Trigger Event	Outbound Supported
ADT	A04	Register a patient	Yes
ADT	A08	Update patient information	Yes
ADT	A10	Patient arriving	Yes
ADT	A04	Register a patient	Yes
ADT	A28	Add person information	Yes
ADT	A31	Update person information	Yes
ADT	A34	Merge patient information - patient ID only	Yes
ADT	A40	Merge patient - internal ID	Yes

4.1.1.1 ADT Segment Processed

The following segments are processed when RadCentre receives an ADT message:

```
MSH
EVN
PID
PV1
[ { IN1
  [ IN2 ]
  }
]
```

4.1.2 Supported ORM Events

Table 3-2. Supported ORM Events

Func Area	Event Code	ORM Trigger Event	Outbound Supported
ORM	O01	General order message	Yes
ORR	O02	Order response	Yes

4.1.2.1 ORM Messages: Supported Control Codes and Order Statuses

Table 3-3a. Default Order Control Codes supported from ORC 1,1

Control Code (ORC-1) Value
NW
SC
CA
OC
XO
SN
NA

Table 3-3b. Default Order Control Codes supported from ORC 5,1

Order Status (ORC-5) Value
CA
CM
IP
SC

4.1.2.2 ORM Segments Processed


```

MSH
  [PID
    [PV1]
    [ {IN1
      [IN2]
    }
  ]
  [ {AL1} ]
]
{ORC
  [OBR
    [ {NTE} ]
    [ {OBX
  ]
}

```

4.1.3 Supported DFT Events

Table 3-4. Supported DFT Events

Func Area	Event Code	DFT Trigger Event	Outbound Supported
DFT	P03	Post detail financial transaction	Yes

4.1.3.1 DFT Segments Processed

```

MSH
EVN
PID
  [PV1]
  {FT1}

```

4.1.4 Supported BAR Events

Table 3-5. Supported BAR Events

Func Area	Event Code	BAR Trigger Event	Outbound Supported
BAR	P01	Post detail financial transaction	Yes

4.1.4.1 BAR Segment Processed

```
MSH
EVN
PID
[PV1]
[PV2]
{PR1}
```

4.1.5 Supported ORU Events

Table 3-6. Supported ORU Events

Func Area	Event Code	ORU Trigger Event	Outbound Supported
ORU	R01	Unsolicited transmission of an observation message	Yes

4.1.5.1 ORU Segments Processed

```
MSH
{[PID
    [PV1]
]
    {[ORC]
        OBR
        {[OBX] }
    }
}
```

4.1.6 Supported MDM Events

Table 3-7. Supported MDM Events

Func Area	Event Code	MDM Trigger Event	Outbound Supported
MDM	T02	Original document notification and content	Yes
MDM	T08	Document edit notification and content	Yes
MDM	T11	Document cancel notification	Yes

4.1.6.1 MDM Segments Processed

```
MSH
EVN
PID
PVL
TXA
```

4.1.7 Supported MFN Events

Table 3-8. Supported MFN Events

Func Area	Event Code	MFN Trigger Event	Outbound Supported
MFN	M09	Test/Observation (Categorical) master file	Yes

4.1.7.1 MFN Segments Processed

```
MSH
MFI
{ MFE
  OM1
}
```

4.2 Supported HL7 Segments (outbound)

4.2.1 MSH Segment

Table 3-9. MSH Attribute Support in RadCentre

Seq	HL7 Field Name	Value Required	RadCentre (Yes/No)	Comments
1	Field Separator	R	Yes	Field Separators " "
2	Encoding Characters	R	Yes	Encoding Characters "^~\&"
3	Sending Application	O	Yes	Configurable
4	Sending Facility	O	Yes	Configurable
5	Receiving Application	O	Yes	Configurable
6	Receiving Facility	O	Yes	Configurable
7	Date/time of Message	R	Yes	
8	Security	O	No	
9	Message Type	R	Yes	Configurable
10	Message Control ID	R	Yes	Configurable
11	Processing ID	R	Yes	Configurable (P or T)
12	Version ID	R	Yes	Configurable
13	Sequence Number	O	No	
14	Continuation Pointer	O	No	
15	Accept Acknowledgement Type	O	Yes	Configurable
16	Application Acknowledgement Type	O	Yes	Configurable
17	Country Code	O	Yes	Configurable
18	Character Set	O	Yes	Configurable
19	Principal Language of Message	O	Yes	Configurable

4.2.2 PID Segment

Table 3-10. PID Attribute Support in RadCentre

Seq	HL7 Field Name	Value Required	RadCentre (Yes/No)	Comments
1	Set ID - Patient ID	O	No	
2	Patient ID (External ID)	O	Yes	Configurable
3	Patient ID (Internal ID)	R	Yes	
4	Alternate Patient ID	O	No	
5	Patient Name	R	Yes	
6	Mother's Maiden Name	O	Yes	Configurable
7	Date of Birth	O	Yes	
8	Sex	O	Yes	
9	Patient Alias	O	No	
10	Race	O	No	
11	Patient Address	O	Yes	
12	Country Code	O	Yes	
13	Phone Number - Home	O	Yes	Configurable
14	Phone Number - Business	O	Yes	Configurable
15	Primary Language	O	Yes	Configurable
16	Marital Status	O	Yes	Configurable
17	Religion	O	Yes	Configurable
18	Patient Account Number	O	No	
19	SSN Number - Patient	O	No	
20	Driver's Lic Num - Patient	O	No	
21	Mother's Identifier	O	No	
22	Ethnic Group	O	No	
23	Birth Place	O	No	
24	Multiple Birth Indicator	O	No	
25	Birth Order	O	No	
26	Citizenship	O	Yes	Configurable
27	Veterans Military Status	O	No	

Table 3-10. PID Attribute Support in RadCentre

Seq	HL7 Field Name	Value Required	RadCentre (Yes/No)	Comments
28	Nationality	O	Yes	Configurable
29	Patient Death Date/Time	O	No	
30	Patient Death Indicator	O	No	

4.2.3 PV1 Segment

Table 3-11. PV1 Attribute Support in RadCentre

Seq	HL7 Field Name	Value Required	RadCentre (Yes/No)	Comments
1	Set ID - Patient Visit	O	No	
2	Patient Class	O	Yes	Configurable
3	Assigned Patient Location	O	Yes	Configurable
4	Admission Type	O	Yes	Configurable
5	Pre-admit Number	O	No	
6	Prior Patient Location	O	No	
7	Attending Doctor	O	No	
8	Referring Doctor	O	Yes	Configurable
9	Consulting Doctor	O	No	
10	Hospital Service	O	No	
11	Temporary Location	O	No	
12	Pre-admit Test Indicator	O	No	
13	Readmission Indicator	O	No	
14	Admit Source	O	No	
15	Ambulatory Status	O	No	
16	VIP Indicator	O	No	
17	Admitting Doctor	O	No	
18	Patient Type	O	No	
19	Visit Number	O	Yes	
20	Financial Class Eff. Date	O	No	
21	Charge Price Indicator	O	Yes	Configurable
22	Courtesy Code	O	No	
23	Credit Rating	O	No	
24	Contract Code	O	No	
25	Contract Effective Date	O	No	
26	Contract Amount	O	No	
27	Contract Period	O	No	

Table 3-11. PV1 Attribute Support in RadCentre

Seq	HL7 Field Name	Value Required	RadCentre (Yes/No)	Comments
28	Interest Code	O	No	
29	Transfer to Bad Debt Code	O	No	
30	Transfer to Bad Debt Date	O	No	
31	Bad Debt Agency Code	O	No	
32	Bad Debt Transfer Amount	O	No	
33	Bad Debt Recovery Amt	O	No	
34	Delete Account Indicator	O	No	
35	Delete Account Date	O	No	
36	Discharge Disposition	O	No	
37	Discharged to Location	O	No	
38	Diet Type	O	No	
39	Servicing Facility	O	No	
40	Bed Status	O	No	
41	Account Status	O	No	
42	Pending Location	O	No	
43	Prior Temporary Location	O	No	
44	Admit Date/Time	O	Yes	Configurable
45	Discharge Date/Time	O	Yes	Configurable
46	Current Patient Balance	O	No	
47	Total Charges	O	No	
48	Total Adjustments	O	No	
49	Total Payments	O	No	
50	Alternate Visit ID	O	No	
51	Visit Indicator	O	Yes	
52	Other Healthcare Provider	O	No	

4.2.4 MRG Segment

Table 3-12. MRG Attribute Support in RadCentre

Seq	HL7 Field Name	Value Required	RadCentre (Yes/No)	Comments
1	Prior Patient ID - Internal	R	Yes	
2	Prior Alternate Patient ID	O	No	
3	Prior Patient Acct Number	O	No	
4	Prior Patient ID - External	O	No	
5	Prior Visit Number	O	No	
6	Prior Alternate Visit ID	O	No	
7	Prior Patient Name	O	No	

4.2.5 ORC Segment

Table 3-13. ORC Attribute Support in RadCentre

Seq	HL7 Field Name	Value Required	RadCentre (Yes/No)	Comments
1	Order Control	R	Yes	
2	Placer Order #	O	Yes	
3	Filler Order #	O	Yes	
4	Placer Group #	O	No	
5	Order Status	O	Yes	
6	Response Flag	O	No	
7	Quantity/Timing	O	Yes	
8	Parent	O	No	
9	Date/Time of Transaction	O	Yes	
10	Entered By	O	Yes	Configurable
11	Verified By	O	Yes	Configurable
12	Ordering Provider	O	Yes	Configurable
13	Enterer's Location	O	No	
14	Call Back Phone Number	O	No	
15	Order Effective Date/Time	O	Yes	Configurable

Table 3-13. ORC Attribute Support in RadCentre

Seq	HL7 Field Name	Value Required	RadCentre (Yes/No)	Comments
16	Order Control Reason	O	No	
17	Entering Organization	O	Yes Yes	Configurable
18	Entering Device	O	No	
19	Action By	O	No	

4.2.6 OBR Segment

Table 3-14. OBR Attribute Support in RadCentre

Seq	HL7 Field Name	Value Required	RadCentre (Yes/No)	Comments
1	Set ID - Observation Request	O	Yes	
2	Placer Order #	O	Yes	
3	Filler Order #	O	Yes	
4	Universal Service ID	R	Yes	
5	Priority	O	Yes	
6	Requested Date/Time	O	No	
7	Observation Date/Time	O	Yes	
8	Observation End Date/Time	O	No	
9	Collection Volume	O	No	
10	Collector Identifier	O	No	
11	Specimen Action Code	O	No	
12	Danger Code	O	No	
13	Relevant Clinical Inf.	O	No	
14	Specimen Rec'd Date/Time	O	No	
15	Specimen Source	O	No	
16	Ordering Provider family	O	No	
17	Order Callback Phone	O	No	
No.	O	No		
18	Placer Field 1	O	Yes	Configurable
19	Placer Field 2	O	Yes	Configurable
20	Filler Field 1	O	Yes	Configurable
21	Filler Field 2	O	Yes	Configurable
22	Result Rpt/Status Change - Date/Time	O	Yes	Configurable
23	Charge To Practice	O	No	
24	Diagnostic Serv Sect Id	O	No	

Table 3-14. OBR Attribute Support in RadCentre

Seq	HL7 Field Name	Value Required	RadCentre (Yes/No)	Comments
25	Result Status	O	Yes	Configurable
26	Parent Result	O	No	
27	Quantity/Timing	O	Yes	Configurable
28	Result Copies To	O	No	
29	Parent Number	O	No	
30	Transportation Mode	O	Yes	Configurable
31	Reason For Study	O	Yes	Configurable
32	Principal Result Interpreter	O	No	
33	Assistant Result Interpreter	O	No	
34	Technician	O	No	
35	Transcriptionist	O	No	
36	Scheduled Date/Time	O	Yes	Configurable
37	Number of Sample Containers	O	No	
38	Transport Logistics of Collected Sample	O	No	
39	Collector's Comment	O	No	
40	Transport Arrangement Responsibility	O	No	
41	Transport Arranged	O	No	
42	Escort Required	O	No	
43	Planned Patient Transport Comment	O	No	
44	Procedure Code	O	No	

4.2.7 ZDS Segment

Table 3-15. ZDS Attribute Support in RadCentre

Seq	HL7 Field Name	Value Required	RadCentre (Yes/No)	Comments
1	Study Instance UID	O	Yes	

4.2.8 DFT Segment

Table 3-16. DFT Attribute Support in RadCentre

Seq	HL7 Field Name	Value Required	RadCentre (Yes/No)	Comments
1	Set ID - FT1	O	Yes	
2	Transaction ID	O	No	
3	Transaction Batch ID	O	No	
4	Transaction Date	R	Yes	
5	Transaction Posting Date	O	No	
6	Transaction Type	R	Yes	
7	Transaction Code	R	Yes	
8	Transaction Description	O	No	
9	Transaction Description	O	No	
10	Transaction Quantity	O	Yes	
11	Transaction Amount	O	Yes	
12	Transaction Amount -Unit	O	No	
13	Department Code	O	No	
14	Insurance Plan ID	O	No	
15	Insurance Amount	O	No	
16	Assigned Patient Location	O	No	
17	Fee Schedule	O	No	
18	Patient Type	O	No	
19	Diagnosis Code - FT1	O	No	
20	Performed By Code	O	No	
21	Ordered By Code	O	No	

Table 3-16. DFT Attribute Support in RadCentre

Seq	HL7 Field Name	Value Required	RadCentre (Yes/No)	Comments
22	Unit Cost	O	No	
23	Filler Order Number	O	Yes	Configurable
24	Entered By Code	O	No	
25	Procedure Code	O	No	

4.2.9 PR1 Segment

Table 3-17. PR1 Attribute Support in RadCentre

Seq	HL7 Field Name	Value Required	RadCentre (Yes/No)	Comments
1	Set ID - PR1	O	Yes	
2	Procedure Coding Method	R	Yes	
3	Procedure Code	R	Yes	
4	Procedure Description	O	Yes	Configurable
5	Procedure Date/Time	O	Yes	
6	Procedure Functional Type	O	No	
7	Procedure Minutes	O	Yes	Configurable
8	Anesthesiologist	O	No	
9	Anesthesia Code	O	No	
10	Anesthesia Minutes	O	No	
11	Surgeon	O	No	
12	Procedure Practitioner	O	Yes	Configurable
13	Consent Code	O	No	
14	Procedure Priority	O	Yes	Configurable
15	Associated Diagnosis Code	O	No	
16	Procedure Code Modifier	O	No	
17	Procedure DRG Type	O	No	
18	Tissue Type Code	O	No	

4.2.10OBX Segment

Table 3-18. OBX Attribute Support in RadCentre

Seq	HL7 Field Name	Value Required	RadCentre (Yes/No)	Comments
1	Set ID - OBX	R	Yes	
2	Value Type	R	Yes	
3	Observation Identifier	R	Yes	
4	Observation Sub-Id	O	No	
5	Observation Value	R	Yes	
6	Units	O	No	
7	References Range	O	Yes	
8	Abnormal Flags	O	No	
9	Probability	O	No	
10	Nature of Abnormal Test	O	No	
11	Observation Result Status	R	No	
12	Date Last Observation Normal Value	O	Yes	
13	User Defined Access Checks	O	No	
14	Date/Time of the Observation	O	Yes	Configurable
15	Producer's ID Code	O	No	
16	Responsible Observer	O	Yes	Configurable
17	Observation Method	O	No	
18	Equipment Instance Identifier	O	No	
19	Date/Time of the Analysis	O	No	

4.2.11 TXA Segment

Table 3-19. TXA Attribute Support in RadCentre

Seq	HL7 Field Name	Value Required	RadCentre (Yes/No)	Comments
1	Set ID - TXA	R	Yes	
2	Document Type	R	Yes	
3	Document Content	O	Yes	
4	Activity Date/Time	O	Yes	
5	Primary Activity Provider	O	Yes	
6	Origination Date/Time	O	Yes	
7	Transcription Date/Time	O	Yes	
8	Edit Date/Time	O	Yes	
9	Originator Code/Name	O	Yes	
10	Assigned Document	O	Yes	
11	Transcriptionist	O	No	
12	Unique Document	R	Yes	
13	Parent Document	O	No	
14	Placer Order	O	No	
15	Filler Order Number	O	Yes	
16	Unique Document File	O	Yes	
17	Document Completion	R	Yes	
18	Document Confidentiality	O	No	
19	Document Availability	O	No	
20	Document Storage Status	O	No	
21	Document Change	O	Yes	
22	Authentication Person	O	No	
23	Distributed Copies	O	No	

5 Queries

5.1 Query

RadCentre can issue the query to search patient demographic data using HL7 QBP^Q22 message.

5.1.1 Query – MSH Segment

RadCentre creates the MSH segments as follows:

Table 4-1. MSH segments

Seq	HL7 Field Name	Value Required	Default Mapping to RadCentre Attribute(s) (Yes/No)	Comments
1	Field Separator		No	
2	Encoding Characters		No	
3	Sending Application		No	
4	Sending Facility		No	
5	Receiving Application		No	Configured MPI Application
6	Receiving Facility		No	Configured MPI Facility
7	Date/time of Message		No	Current timestamp
8	Security		No	
9	Message Type		No	QBP^Q22
10	Message Control ID		No	
11	Processing ID		No	
12	Version ID		No	
13	Sequence Number		No	
14	Continuation Pointer		No	
15	Accept Acknowledgement Type		No	

Table 4-1. MSH segments

Seq	HL7 Field Name	Value Required	Default Mapping to RadCentre Attribute(s) (Yes/No)	Comments
16	Application Acknowledgement Type		No	
17	Country Code		No	
18	Character Set		No	
19	Principal Language of Message		No	

5.1.2 Query – QPD Segment

The following table describes how RadCentre creates the QPD segment of the query message.

Table 4-2. QPD Attribute Support in RadCentre

Seq	HL7 Field Name	Value Required	Default Mapping from RadCentre Attribute(s) (Yes/No)	Comments
1	Message Query Name	R	Yes	Template
2	Query Tag	R	No	
3	User Parameters	R	No	
4	User Parameters	O	No	

5.1.3 Query – RCP Segment

The following table describes how RadCentre creates the QPD segment of the query message.

Table 4-3. RCP Attribute Support in RadCentre

Seq	HL7 Field Name	Value Required	Default Mapping from RadCentre Attribute(s) (Yes/No)	Comments
1	Query Priority	Yes	No	Fix "I" (Immediate)
2	Quantity Limited Request	No	No	
3	Response Modality	No	No	

Table 4-3. RCP Attribute Support in RadCentre

Seq	HL7 Field Name	Value Required	Default Mapping from RadCentre Attribute(s) (Yes/No)	Comments
4	Execution and Delivery Time	No	No	
5	Modify Indicator	No	No	
6	Sort-by Field	No	No	
7	Segment group inclusion	No	No	

CONTACT

i-SOLUTIONS Health GmbH

Am Exerzierplatz 14
68167 Mannheim
Telefon: +49 621 3928-0
Telefax: +49 621 3928-101

Burgstr. 9
44867 Bochum
Telefon: +49 2327 568-0
Telefax: +49 2327 568-199

info@i-solutions.de
www.i-solutions.de