

HL7 Conformance Profile

(R)IS MPI QUERY - QBP Q22

Copyright notice:

Copyright 2014 AGFA HealthCare
All rights reserved

Agfa, the Agfa rhombus, Point of Knowledge, and See More. Do More, ... (other trademarks) are trademarks of Agfa Gevaert N.V., Belgium or its affiliates. All other trademarks are held by their respective owners and are used in an editorial fashion with no intention of infringement.

The data in this publication are for illustration purposes only and do not necessarily represent standards or specifications which must be met by Agfa. All information contained herein is intended for guidance purposes only, and characteristics of the products described in this publication can be changed at any time without notice.

Products may not be available for your local area. Please contact your local sales representative for availability information.

Agfa diligently strives to provide as accurate information as possible, but shall not be responsible for any typographical error.

Publication date:

January, 2014

Corporate address:

AGFA HealthCare
SEPTESTAAT 27
B-2640 MORTSEL
BELGIUM
+32(3)4448400

About this Conformance Profile

Conformance profile Report - MPI Query QBP Q22

PL_HL7_MPI interface - Release 2005.3.5

This profile describes the QBP message structure used by the AGFA PL_HL7_MPI system for queries performed through the QBP Q22 message

History:

2009-12-02 - Creation - Albert Gnandt

Remarks:

Segments present in the message structure, but marked as -not supported- are allowed to be present in the message, but are not processed.
The same counts for fields, components, subcomponents marked as not supported.

Please verify length attributes at the lowest level of detail if a field consists of components, subcomponents.

For more information on HL7 conformance profiles please consult HL7 ANSI standard chapter 2 and HL7 Implementation/Conformance Technical Committee documents at <http://www.hl7.org/special/committees/ictc/docs.cfm>

Conformance parameters

Message Profile

- HL7 Version: 2.5
- Profile Type: Constraining
- Topics: confsig-Agfa-2.5-profile-accNE_accAL-Deferred

Encoding Method

ER7

Interaction 1

Dynamic Definition

- Accept Acknowledgement: NE
- Application Acknowledgement: NE
- Acknowledgement Mode: Immediate

Static Definition

- Event Description: QBP - Find candidates
- Message Type: QBP
- Trigger Event: Q22
- Message Structure: QBP_Q21
- Topics: confsig-Agfa-2.5-static-QBP-Q22-null-QBP_Q21-2005.3.5--Sender

Message structure

MSH {[SFT]} QPD [RDF] {[RCP]} [DSC]

MSH - Message Header

- Usage: Required
- Cardinality:1..1

Seq.	Name	Type	Table	Len.	Opt.	Card.	Contents
1	Field Separator	ST		1	R	1..1	
2	Encoding Characters	ST		4	R	1..1	
3	Sending Application	HD	HL70361	227	O	0..1	
3.1	namespace ID	IS	HL70300	180	O	..	e.g. QDOC
3.2	universal ID	ST		199	C	..	
3.3	universal ID type	ID	HL70301	6	C	..	
4	Sending Facility	HD	HL70362	227	O	0..1	
4.1	namespace ID	IS	HL70300	180	O	..	e.g. AGFA
4.2	universal ID	ST		199	C	..	
4.3	universal ID type	ID	HL70301	6	C	..	
5	Receiving Application	HD	HL70361	227	O	0..1	
5.1	namespace ID	IS	HL70300	180	O	..	e.g. MPI
5.2	universal ID	ST		199	C	..	
5.3	universal ID type	ID	HL70301	6	C	..	
6	Receiving Facility	HD	HL70362	227	O	0..1	
6.1	namespace ID	IS	HL70300	180	O	..	e.g. MPI
6.2	universal ID	ST		199	C	..	
6.3	universal ID type	ID	HL70301	6	C	..	
7	Date/Time Of Message	TS		26	R	1..1	
7.1	time	DTM		24	R	..	e.g. 200511070945
7.2	degree of precision	ST	HL70529		B	..	e.g. D
8	Security	ST		40	O	0..1	
9	Message Type	MSG		15	R	1..1	
9.1	message code	ID	HL70076	3	R	..	
9.2	trigger event	ID	HL70003	3	R	..	
9.3	message structure	ID	HL70354	7	R	..	

Seq.	Name	Type	Table	Len.	Opt.	Card.	Contents
10	Message Control ID	ST		20	R	1..1	e.g. SMLWX17159
11	Processing ID	PT		3	R	1..1	
11.1	processing ID	ID	HL70103	1	O	..	
11.2	processing mode	ID	HL70207	1	O	..	
12	Version ID	VID		973	R	1..1	
12.1	version ID	ID	HL70104	5	O	..	
12.2	internationalization code	CE	HL70399	483	O	..	
12.2.1	identifier	ST		20	O	..	
12.2.2	text	ST		199	O	..	
12.2.3	name of coding system	ID	HL70396	20	O	..	
12.2.4	alternate identifier	ST		20	O	..	
12.2.5	alternate text	ST		199	O	..	
12.2.6	name of alternate coding system	ID	HL70396	20	O	..	
12.3	international version ID	CE		483	O	..	
12.3.1	identifier	ST		20	O	..	
12.3.2	text	ST		199	O	..	
12.3.3	name of coding system	ID	HL70396	20	O	..	
12.3.4	alternate identifier	ST		20	O	..	
12.3.5	alternate text	ST		199	O	..	
12.3.6	name of alternate coding system	ID	HL70396	20	O	..	
13	Sequence Number	NM		15	O	0..1	
14	Continuation Pointer	ST		180	O	0..1	
15	Accept Acknowledgment Type	ID	HL70155	2	O	0..1	
16	Application Acknowledgment Type	ID	HL70155	2	O	0..1	
17	Country Code	ID	HL70399	3	O	0..1	
18	Character Set	ID	HL70211	16	O	0..*	
19	Principal Language Of Message	CE		483	O	0..1	
19.1	identifier	ST		20	O	..	
19.2	text	ST		199	O	..	
19.3	name of coding system	ID	HL70396	20	O	..	
19.4	alternate identifier	ST		20	O	..	
19.5	alternate text	ST		199	O	..	
19.6	name of alternate coding system	ID	HL70396	20	O	..	
20	Alternate Character Set Handling Scheme	ID	HL70356	20	O	0..1	
21	Message Profile Identifier	EI		427	O	0..*	
21.1	entity identifier	ST		199	O	..	
21.2	namespace ID	IS	HL70363	20	O	..	
21.3	universal ID	ST		199	C	..	
21.4	universal ID type	ID	HL70301	6	C	..	

1. Field Separator

This field contains the separator between the segment ID and the first real field, MSH-2- encoding characters. As such it serves as the separator and defines the character to be used as a separator for the rest of the message. Recommended value and used by Agfa is |, (ASCII 124).

2. Encoding Characters

This field contains the four characters in the following order: the component separator, repetition separator, escape character, and subcomponent separator. Recommended values and used by Agfa Healthcare are ^~\&, (ASCII 94, 126, 92, and 38).

3. Sending Application

This field uniquely identifies the sending application among all other applications within the network enterprise. The network enterprise consists of all those applications that participate in the exchange of HL7 messages within the enterprise. Entirely site-defined.

3.1. namespace ID

Add/configure the sending application within the Windows Registry.

3.2. universal ID

Condition Predicate:

If the first component for the HD data type is present, the second and third components are optional. If the third component is present, then the second must also be present (although in this case the first is optional). The second and third components must either both be valued (both non-null), or both be not valued (both null). This means that if all three components of the HD are valued, the entity identified by the first component is the same as the entity identified by components two and three taken together. However, implementers may choose, by site agreement, to specify that if all three components of the HD are valued, the first component defines a member in the set defined by the second and third components.

3.3. universal ID type

Condition Predicate:

If the first component for the HD data type is present, the second and third components are optional. If the third component is present, then the second must also be present (although in this case the first is optional). The second and third components must either both be valued (both non-null), or both be not valued (both null). This means that if all three components of the HD are valued, the entity identified by the first component is the same as the entity identified by components two and three taken together. However, implementers may choose, by site agreement, to specify that if all three components of the HD are valued, the first component defines a member in the set defined by the second and third components.

4. Sending Facility

This field uniquely identifies the sending facility among all other facilities within the network enterprise.

4.1. namespace ID

Add/configure the sending facility within the Windows Registry.

4.2. universal ID

Condition Predicate:

If the first component for the HD data type is present, the second and third components are optional. If the third component is present, then the second must also be present (although in this case the first is optional). The second and third components must either both be valued (both non-null), or both be not valued (both null). This means that if all three components of the HD are valued, the entity identified by the first component is the same as the entity identified by components two and three taken together. However, implementers may choose, by site agreement, to specify that if all three components of the HD are valued, the first component defines a member in the set defined by the second and third components.

4.3. universal ID type

Condition Predicate:

If the first component for the HD data type is present, the second and third components are optional. If the third component is present, then the second must also be present (although in this case the first is optional). The second and third components must either both be valued (both non-null), or both be not valued (both null). This means that if all three components of the HD are valued, the entity identified by the first component is the same as the entity identified by components two and three taken together.

However, implementers may choose, by site agreement, to specify that if all three components of the HD are valued, the first component defines a member in the set defined by the second and third components.

5. Receiving Application

This field uniquely identifies the receiving application among all other applications within the network enterprise. The network enterprise consists of all those applications that participate in the exchange of HL7 messages within the enterprise. Entirely site-defined.

5.1. namespace ID

Add/configure the receiving application within the Windows Registry.

5.2. universal ID

Condition Predicate:

If the first component for the HD data type is present, the second and third components are optional. If the third component is present, then the second must also be present (although in this case the first is optional). The second and third components must either both be valued (both non-null), or both be not valued (both null). This means that if all three components of the HD are valued, the entity identified by the first component is the same as the entity identified by components two and three taken together. However, implementers may choose, by site agreement, to specify that if all three components of the HD are valued, the first component defines a member in the set defined by the second and third components.

5.3. universal ID type

Condition Predicate:

If the first component for the HD data type is present, the second and third components are optional. If the third component is present, then the second must also be present (although in this case the first is optional). The second and third components must either both be valued (both non-null), or both be not valued (both null). This means that if all three components of the HD are valued, the entity identified by the first component is the same as the entity identified by components two and three taken together. However, implementers may choose, by site agreement, to specify that if all three components of the HD are valued, the first component defines a member in the set defined by the second and third components.

6. Receiving Facility

This field uniquely identifies the receiving facility among all other facilities within the network enterprise.

6.1. namespace ID

Add/configure the receiving facility within the Windows Registry.

6.2. universal ID

Condition Predicate:

If the first component for the HD data type is present, the second and third components are optional. If the third component is present, then the second must also be present (although in this case the first is optional). The second and third components must either both be valued (both non-null), or both be not valued (both null). This means that if all three components of the HD are valued, the entity identified by the first component is the same as the entity identified by components two and three taken together. However, implementers may choose, by site agreement, to specify that if all three components of the HD are valued, the first component defines a member in the set defined by the second and third components.

6.3. universal ID type

Condition Predicate:

If the first component for the HD data type is present, the second and third components are optional. If the third component is present, then the second must also be present (although in this case the first is optional). The second and third components must either both be valued (both non-null), or both be not valued (both null). This means that if all three components of the HD are valued, the entity identified by the first component is the same as the entity identified by components two and three taken together. However, implementers may choose, by site agreement, to specify that if all three components of the HD

are valued, the first component defines a member in the set defined by the second and third components.

7. Date/Time Of Message

This field contains the date/time that the sending system created the message. If the time zone is specified, it is expected to be the local time zone !

7.2. degree of precision

Retained for backward compatibility only

9. Message Type

This field contains the message type and trigger event for the message. The receiving system uses this field to recognize the data segments, and possibly, the application to which to route this message. For certain queries, which may have more than a single response event type, the second component may, in the response message, vary to indicate the response event type. The second component is not required on response or acknowledgment messages.

9.1. message code

The message type edited by HL7 table 0076 - Message type fixed value: 'QBP'

9.2. trigger event

The trigger event code edited by HL7 table 0003 - Event type. fixed value: 'Q22'

9.3. message structure

fixed value: 'QBP_Q21'

10. Message Control ID

This field contains a number or other identifier that uniquely identifies the message. The receiving system echoes this ID back to the sending system in the Message acknowledgment segment (MSA). (MSA.2)

11. Processing ID

This field is used to decide whether to process the message as defined in HL7 Application (level 7) Processing rules, above.

11.1. processing ID

Defines whether the message is part of a production, training, or debugging system (refer to HL7 table 0103 - Processing ID for valid values) fixed value: 'P'

12. Version ID

This field is matched by the receiving system to its own version to be sure the message will be interpreted correctly

12.1. version ID

fixed value: '2.4'

SFT - Software Segment

- Usage: Optional

- Cardinality:0..*

Seq.	Name	Type	Table	Len.	Opt.	Card.	Contents
1	Software Vendor Organization	XON		567	R	1..1	
1.1	organization name	ST		50	O	..	
1.2	organization name type code	IS	HL70204	20	O	..	
1.3	ID number	NM			B	..	
1.4	check digit	NM		1	O	..	
1.5	check digit scheme	ID	HL70061	3	O	..	
1.6	assigning authority	HD	HL70363	227	O	..	

Seq.	Name	Type	Table	Len.	Opt.	Card.	Contents
1.6.1	namespace ID	IS	HL70300	20	O	..	
1.6.2	universal ID	ST		199	C	..	
1.6.3	universal ID type	ID	HL70301	6	C	..	
1.7	identifier type code	IS	HL70203	5	O	..	
1.8	assigning facility ID	HD		227	O	..	
1.8.1	namespace ID	IS	HL70300	20	O	..	
1.8.2	universal ID	ST		199	C	..	
1.8.3	universal ID type	ID	HL70301	6	C	..	
1.9	name representation code	ID	HL70465	1	O	..	
1.10	organization identifier	ST		20	O	..	
2	Software Certified Version or Release Number	ST		15	R	1..1	
3	Software Product Name	ST		20	R	1..1	
4	Software Binary ID	ST		20	R	1..1	
5	Software Product Information	TX		1024	O	0..1	e.g. QUADRAT
6	Software Install Date	TS		26	O	0..1	
6.2	degree of precision	ST	HL70529		B	..	e.g. D

1.1. organization name

fixed value: 'Agfa HE'

1.6.2. universal ID

Condition Predicate:

If the first component for the HD data type is present, the second and third components are optional. If the third component is present, then the second must also be present (although in this case the first is optional). The second and third components must either both be valued (both non-null), or both be not valued (both null). This means that if all three components of the HD are valued, the entity identified by the first component is the same as the entity identified by components two and three taken together. However, implementers may choose, by site agreement, to specify that if all three components of the HD are valued, the first component defines a member in the set defined by the second and third components.

1.6.3. universal ID type

Condition Predicate:

If the first component for the HD data type is present, the second and third components are optional. If the third component is present, then the second must also be present (although in this case the first is optional). The second and third components must either both be valued (both non-null), or both be not valued (both null). This means that if all three components of the HD are valued, the entity identified by the first component is the same as the entity identified by components two and three taken together. However, implementers may choose, by site agreement, to specify that if all three components of the HD are valued, the first component defines a member in the set defined by the second and third components.

1.8.2. universal ID

Condition Predicate:

If the first component for the HD data type is present, the second and third components are optional. If the third component is present, then the second must also be present (although in this case the first is optional). The second and third components must either both be valued (both non-null), or both be not valued (both null). This means that if all three components of the HD are valued, the entity identified by the first component is the same as the entity identified by components two and three taken together. However, implementers may choose, by site agreement, to specify that if all three components of the HD are valued, the first component defines a member in the set defined by the second and third components.

1.8.3. universal ID type*Condition Predicate:*

If the first component for the HD data type is present, the second and third components are optional. If the third component is present, then the second must also be present (although in this case the first is optional). The second and third components must either both be valued (both non-null), or both be not valued (both null). This means that if all three components of the HD are valued, the entity identified by the first component is the same as the entity identified by components two and three taken together. However, implementers may choose, by site agreement, to specify that if all three components of the HD are valued, the first component defines a member in the set defined by the second and third components.

2. Software Certified Version or Release Number

fixed value: '0.1.2'

3. Software Product Name

fixed value: 'PL_HL7_MPI'

4. Software Binary ID

fixed value: '0'

5. Software Product Information

<user name>

6.2. degree of precision

Retained for backward compatibility only

QPD - Query Parameter Definition

- Usage: Required

- Cardinality:1..1

Seq.	Name	Type	Table	Len.	Opt.	Card.	Contents
1	Message Query Name	CE	HL70471	483	R	1..1	
1.1	identifier	ST		20	O	..	
1.2	text	ST		199	O	..	
1.3	name of coding system	ID	HL70396	20	O	..	
1.4	alternate identifier	ST		20	O	..	
1.5	alternate text	ST		199	O	..	
1.6	name of alternate coding system	ID	HL70396	20	O	..	
2	Query Tag	ST		32	C	0..1	
3	User Parameters (in successive fields)	varies		256	O	0..*	e.g. @PID.5.2^Marcus~@PID.8.1^M

1.1. identifier

fixed value: 'Q22'

1.2. text

fixed value: 'Find Candidates'

1.3. name of coding system

HL7nnn

2. Query Tag

Add/configure in Windows Registry.

3. User Parameters (in successive fields)

Filter includes PID, domain, last name, first name, DOB and sex.

RDF - Table Row Definition

- Usage: Optional
- Cardinality: 0..1

Seq.	Name	Type	Table	Len.	Opt.	Card.	Contents
------	------	------	-------	------	------	-------	----------

RCP - Response Control Parameter

- Usage: Not supported

DSC - Continuation Pointer

- Usage: Optional
- Cardinality: 0..1

Seq.	Name	Type	Table	Len.	Opt.	Card.	Contents
1	Continuation Pointer	ST		180	O	0..1	
2	Continuation Style	ID	HL70398	1	O	0..1	