**Conformance Statement – ADT Queries**

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# Introduction

## Purpose

The purpose of this document is to provide guidelines for the Patient Demographics Query (ADT Queries) implementations supported by VGR.

## Target Group

This document is intended for external suppliers and system administrators at VGR.

## References

For details on the message segments and trigger events – review the HL7 Messaging Standard Version 2.6 Product Brief:

* Chapter 2 (Control)
* Chapter 3 (Patient Administration)
* Chapter 5 (Query)

And VGR specific segment statements:

* Conformance Statement – PID Segment.docx

## Message Profile

– HL7 Version: 2.6

– Profile Type: Constrainable

## Revision history

|  |  |  |  |
| --- | --- | --- | --- |
| Revision | Datum | Beskrivning | Utfärdare |
| PA1 | 2016-09-21 | Initial version | Joakim Berg |
| PA2 | 2016-10-17 | Moved PID segment to a separate document | Robin Seybold |
| PA3 | 2016-12-21 | Updated Seq 7 in MSH to type DTM. | Robin Seybold |

# ADT Queries

VGR supports the following Patient Demographic Query trigger events:

QBP^Q22 **Find candidates.** This is the recommended query event for patient demographics and is implemented in accordance with the IHE Patient Demographics Query transaction ITI-21.  
The corresponding response event is RSP^K22.

QBP^Q21 **Get Person Demographics**.  
The corresponding response event is RSP^K21.

QBP^ZV1 **Patient Demographics and Visit Query.** This is the recommended query event to get visit information along with the patient demographics. The query is implemented in accordance with IHE Patient Demographics and Visit Query transaction ITI-22.  
The corresponding response event is RSP^ZV2.

QRY^A19 **Patient query –** original mode query (event A19). This is supported for compatibility with v 2.4 and before.  
The corresponding response event is ADR^A19.

QRY^Q01 **Original mode display query** - immediate response (event Q01). This is supported for compatibility with older applications only.   
The corresponding response event is ADR^A19.

The following query message structures are applied to the supported events:

QBP^Q21, QBP^Q22, QBP^ZV1:

|  |  |
| --- | --- |
| MSH | Message Header |
| QPD | Query Parameter Definition Segment |
| RCP | Response Control Parameters |

QRY^A19, QRY^Q01:

|  |  |
| --- | --- |
| MSH | Message Header |
| QRD | Query Definition |
|  |  |

The following response message structures are applied to the supported events:

ADR^A19:

|  |  |
| --- | --- |
| MSH | Message Header |
| MSA | Message Acknowledgment |
| [ERR] | Error |
| [QAK] | Query Acknowledgement |
| QRD | Query Definition |
| [PID] | Patient Identification |

RSP^K21, RSP^K22:

|  |  |
| --- | --- |
| MSH | Message Header |
| MSA | Message Acknowledgment |
| [ERR] | Error |
| [QAK] | Query Acknowledgement |
| QPD | Query Definition |
| [PID] | Patient Identification |

RSP^ZV2:

|  |  |
| --- | --- |
| MSH | Message Header |
| MSA | Message Acknowledgment |
| [ERR] | Error |
| [QAK] | Query Acknowledgement |
| QPD | Query Definition |
| [ PID | Patient Identification |
| PV1 | Patient Visit |
| [PV2] | Patient Visit – Additional information |
| [{ARV}] | Access restrictions |
| ] |  |

## MSH – Message Header

The MSH segment defines the intent, source, destination, and some specifics of the syntax of a message.

Usage: Required  
Cardinality: 1..1

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Seq. | Name | Type | Table | Len | Opt | Card | Contents |
| 1 | Field Separator | ST |  | 1 | R | 1..1 | e.g. | |
| 2 | Encoding Characters | ST |  | 4 | R | 1..1 | e.g. ^~\& |
| 3 | Sending Application | HD |  | 227 | R | 1..1 |  |
| 3.1 | namespace ID | IS |  | 50 | R | .. | HSA-ID |
| 4 | Sending Facility | HD |  | 227 | O | 0..1 |  |
| 4.1 | namespace ID | IS |  | 50 | O | .. | HSA-ID |
| 5 | Receiving Application | HD | 0361 | 227 | O | 0..1 |  |
| 5.1 | namespace ID | IS |  | 50 | O | .. | HSA-ID (function) |
| 6 | Receiving Facility | HD | 0362 | 227 | O | 0..1 |  |
| 6.1 | namespace ID | IS |  | 50 | O | .. | HSA-ID (unit) |
| 7 | Date/Time Of Message | DTM |  | 24 | R | 1..1 | e.g. 200511250945 |
| 9 | Message Type | CM\_MSG | 0076 | 15 | R | 1..1 |  |
| 9.1 | message type | ID | 0076 | 3 | R | .. | e.g. QBP |
| 9.2 | trigger event | ID | 0003 | 3 | R | .. | e.g. Q22 |
| 9.3 | message structure | ID | 0354 | 7 | O | .. | e.g. QBP\_Q21 |
| 10 | Message Control ID | ST |  | 20 | R | 1..1 | e.g. 0000001 |
| 11 | Processing ID | PT |  | 3 | R | 1..1 |  |
| 11.1 | processing ID | ID | 0103 | 3 | R | .. | e.g. P |
| 12 | Version ID | VID | 0104 | 973 | R | 1..1 |  |
| 12.1 | version ID | ID | 0104 | 60 | R | .. | e.g. 2.6 |
| 18 | Character Set | ID | 0211 | 16 | O | 0..\* | e.g. UNICODE UTF-8 |

**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 VGR 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 VGR 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 and a parameter for VGR.

**4. Sending Facility**This field uniquely identifies the sending facility 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 and a parameter for VGR.

**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 and a parameter for VGR.

**6. Receiving Facility**This field uniquely identifies the receiving facility 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 and a parameter for VGR.

**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.

**9. Message Type**Should be one of the supported query types as described above:  
QBP^Q22^QBP\_Q21  
QBP^Q21^QBP\_Q21  
QBP^ZV1^QBP\_Q21  
QRY^A19^QRY\_A19  
QRY^Q01^Q01

**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).

**11.1. processing ID**Should be P for Production, T for Test

**12.1. version ID**Up to version 2.6 is supported.

***Queries***  
For IHE transaction queries, v 2.5 or higher is required.  
For non IHE QBP queries, v 2.4 or higher is supported.  
For other queries, v 2.3 or higher is supported.

***Responses messages***For response messages, will be v 2.6.

**18. Character Set**Should be UNICODE UTF-8

## PID – Patient Identification

For details on how to define the PID Segment, refer to the Conformance Statement – PID Segment.docx document.

Usage: Required   
Cardinality: 1..1

## PV1 – Patient Visit

The PV1 segment is used to communicate information on an account or visit-specific basis in events that includes visit related information.

Usage: Optional  
Cardinality: 0..1

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Seq. | Name | Type | Table | Len. | Opt | Card | Contents |
| 1 | Set ID – PV1 | SI |  | 4 | O | 0..1 | e.g. 001 |
| 2 | Patient Class | IS | 0004 | 1 | R | 1..1 | e.g. U |
| 3 | Assigned Patient Location | PL |  | 80 | O | 1..1 |  |
| 3.1 | point of care | IS |  | 20 | O | 0..1 | E000000002771 |
| 3.4 | facility | HD |  | 227 | O | 0..1 | SU |
| 3.6 | person location type | IS | 0305 | 20 | O | 0..1 | e.g. D |
| 3.9 | location description | ST |  | 199 | O | 0..1 | e.g. Akutmottagningen vid Sahlgrenska sjukhuset |
| 3.10 | comprehensive location identifier | EI |  | 427 | O | 0..1 |  |
| 3.10.1 | entity identifier | ST |  | 199 | O | 0..1 | e.g. SE2321000131-E000000002771 |
| 3.10.2 | namespace id | IS |  | 20 | O | 0..1 | e.g. HSA-id |
| 3.10.3 | universal id | ST |  | 199 | C | 0..1 | e.g. 1.2.752.29 |
| 3.10.4 | universal id type | ID |  | 6 | C | 0..1 | e.g. ISO |
| 36 | Discharge Disposition | IS | 0112 | 3 | O | 0..1 | e.g. 01 |
| 37 | Discharged to Location | DLD |  | 47 | O | 0..1 |  |
| 37.1.1 | identifier | ST |  | 20 | O | 0..1 | e.g. 12345 |
| 37.1.2 | text | ST |  | 199 | O | 0..1 | e.g. Avd 77 |
| 37.1.3 | name of coding systems | ID | VGR codeset idtypes | 20 | O | 0..1 | e.g. RO Orgbet SU |
| 37.2 | effective date | DTM |  | 24 | O | 0..1 | e.g. 20160904071015 |
| 44 | Admit Date/Time | DTM |  | 24 | O | 0..1 | e.g. 20160902032800 |
| 45 | Discharge Date/Time | DTM |  | 24 | O | 0..1 | e.g. 20160904071015 |
| 51 | Visit indicator | IS | 0326 | 1 | O | 0..1 | e.g. V |

**2. Patient Class**  
This field is used by systems to categorize patients by site. The current source system does not provide this information, the field will contain the code ‘U’ (Unknown).

**3. Assigned Patient Location**

This field contains the location the patient is/was assigned during the visit.

**3.1. point of care**This field contains the VGR local part of the HSA-identifier of the location where the patient is/was assigned.  
I.e. if the complete HSA-identifier is SE2321000131-E000000002771, this field will contain the second part of the identifier: E000000002771  
The first part which identifiers VGR as organization will then be implicit.  
The reason for truncating the identifier is the length limitation of the field.

**3.4. facility**This field contains the name of the hospital to which the point of care belongs.

**3.6. person location type**This field contains the location typ as of table 0305. Possible values are N, D, C.

**3.9. location description**This field contains free text description of the location.

**3.10. comprehensive location identifier**

From v 2.5 and higher, this field will contain the fully qualified identifier of the location where the patient is/was assigned. The possible identifier types are defined in table below.

|  |  |  |
| --- | --- | --- |
| Namespace ID | Universal ID | UID Type |
| HSA-id | 1.2.752.29 | ISO |
| RO Orgbet SU | 1.2.752.113 | ISO |
| RO Ansvar Id SU | 1.2.752.113 | ISO |

**3.10.1. entity identifier**

This field contains the full identifier of the location.  
  
**3.10.2. namespace id**

This field contains the identifier namespace or type. Possible values as defined in table above.  
 **3.10.3. universal id**This field contains the identifier of the assigning authority of the identifier namespace, as defined in table above.  
   
**3.10.4. universal id type**

This field contains the type of the assigning authority identifier.

**36. Discharge Disposition**This field will be valued if the patient has been discharged to “home“.  
In such case, the value will be 01 as per table 0110.

**37. Discharged to Location**This field will be valued if the patient has been discharged to an identified location.

**37.1.1. identifier**This field will contain the identifier value of the location to which the patient was discharged from this visit.

**37.1.2. text**This field will contain the name of the location to which the patient was discharged.

**37.1.3. name of coding systems**This field will contain the name of the coding system of the identifier. Possible values are listed in the “Namespace ID” column in the table above.

**37.2. effective date**This field will contain the date and time of when the patient was discharged.

**44. Admit Date/Time**This field will contain the date and time when patient was admitted.

**45. Discharge Date/Time**This field will contain the date and time of when the patient was discharged.

**51. Visit indicator**This field will contain the value ‘V’ of code table 0326 to indicate that the information represents patient visit level.

## PV2 –Patient Visit Information – Additional information Segment

This segment contains additional patient visit information.

Usage: Optional  
Cardinality: 0..1

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Seq. | Name | Type | Table | Len. | Opt | Card | Contents |
| 1 |  |  |  |  |  |  |  |
| 22 | Visit Protection Indicator | ID | 0136 | 1 | O | 0..1 | e.g. Y |

**22. Visit Protection Indicator**  
This field is retained for compatibility with versions < 2.6.  
Will contain a Y or N to indicate whether the visit information is proteceted or not.  
For version 2.6 and above, the protection information will also be described in segment ARV.

## ARV – Access Restrictions Segment

This segment will describe access restrictions of the patient visit information.

Usage: Optional  
Cardinality: 0..1

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Seq. | Name | Type | Table | Len. | Opt | Card | Contents |
| 1 | Set ID | SI |  | 4 | O | 0..1 | e.g. 001 |
| 2. | Access Restriction Action Code | CNE | 0206 | 705 | R | 1 | e.g. U |
| 3 | Access Restriction Value | CWE | 0717 | 705 | R | 1 | e.g. LOC |

**1. Set ID**

This field will contain value corresponding to the PV1 Set ID.

**2. Access Restriction Action Code**

This field will contain value “U” to indicate an update event.

**3. Access Restriction Value**

This field will contain value “LOC” to indicate protection of the Location information.