**Conformance Statement – SIU Queries**

TABLE OF CONTENTS

[0 Introduction 3](#_Toc482280602)

[0.1 Purpose 3](#_Toc482280603)

[0.2 Target Group 3](#_Toc482280604)

[0.3 References 3](#_Toc482280605)

[0.4 Message Profile 3](#_Toc482280606)

[0.5 Revision history 3](#_Toc482280607)

[1 SIU Queries 4](#_Toc482280608)

[1.1 RESPONSE Segment Group 6](#_Toc482280609)

[1.2 Z01 - Today’s appointments by patient 6](#_Toc482280610)

[1.2.1 Example 6](#_Toc482280611)

[1.3 Z02 - Appointments for date 7](#_Toc482280612)

[1.3.1 Example 7](#_Toc482280613)

[1.4 Z03 - Appointment by Filler Appointment ID 7](#_Toc482280614)

[1.4.1 Example 7](#_Toc482280615)

[1.5 Z04 – Appointment Notifications Since DateTime 8](#_Toc482280616)

[1.5.1 Example 8](#_Toc482280617)

# Introduction

## Purpose

The purpose of this document is to provide guidelines for the Scheduling Query (SIU 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 5 (Query)
* Chapter 10 (Scheduling)

And VGR specific conformance statements:

* Conformance Statement – SIU.docx

## Message Profile

– HL7 Version: 2.6

– Profile Type: Constrainable

## Revision history

|  |  |  |  |
| --- | --- | --- | --- |
| Revision | Datum | Beskrivning | Utfärdare |
| PA1 | 2017-03-14 | Initial version | Robin Seybold |
| PA2 | 2017-04-10 | Corrected the Z04 query specification | Robin Seybold |
| PA3 | 2017-04-21 | Changed the Z02 query name Updated the Z04 purpose | Robin Seybold |
| PA4 | 2017-05-11 | Added RGS to response messages | Robin Seybold |

# SIU Queries

VGR supports the following Scheduling Query profiles:

|  |  |
| --- | --- |
| **Query Statement ID:** | Z01 |
| **Type:** | Query |
| **Query Name:** | Today’s appointments by patient |
| **Query Trigger:** | QBP^Q11^QBP\_Q11 |
| **Query Mode:** | Batch |
| **Response Trigger:** | RSP^K11^RSP\_K11 |
| **Query Characteristics:** | Specifies the identifier of a patient |
| **Purpose:** | Find all appointments for a patient with specified identifier for the current date |
| **Response Characteristics:** | Sorted by time ascending |
| **Based on Segment Pattern:** | SIU\_S12 |

|  |  |
| --- | --- |
| **Query Statement ID:** | Z02 |
| **Type:** | Query |
| **Query Name:** | Appointments for date |
| **Query Trigger:** | QBP^Q11^QBP\_Q11 |
| **Query Mode:** | Batch |
| **Response Trigger:** | RSP^K11^RSP\_K11 |
| **Query Characteristics:** | Specifies a date |
| **Purpose:** | Find all appointments that take place on the specified date |
| **Response Characteristics:** | Sorted by time ascending |
| **Based on Segment Pattern:** | SIU\_S12 |

|  |  |
| --- | --- |
| **Query Statement ID:** | Z03 |
| **Type:** | Query |
| **Query Name:** | Appointment by Filler Appointment ID |
| **Query Trigger:** | QBP^Q11^QBP\_Q11 |
| **Query Mode:** | Real Time |
| **Response Trigger:** | RSP^K11^RSP\_K11 |
| **Query Characteristics:** | Specifies a Filler Appointment ID |
| **Purpose:** | Find the appointment with the specified ID |
| **Response Characteristics:** |  |
| **Based on Segment Pattern:** | SIU\_S12 |

|  |  |
| --- | --- |
| **Query Statement ID:** | Z04 |
| **Type:** | Query |
| **Query Name:** | Appointment Notifications Since DateTime |
| **Query Trigger:** | QBP^Q11^QBP\_Q11 |
| **Query Mode:** | Batch |
| **Response Trigger:** | RSP^K11^RSP\_K11 |
| **Query Characteristics:** | Specifies a datetime from where to begin requesting new/changed/cancelled appointments |
| **Purpose:** | Find all appointments that have been created, updated or cancelled/deleted since a specified date/time |
| **Response Characteristics:** | Sorted by time ascending |
| **Based on Segment Pattern:** | SIU\_S12, SIU\_S13, SIU\_S14, SIU\_S15, SIU\_S17 |

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

QBP^Q11^QBP\_Q11:

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

RSP^K11^RSP\_K11:

|  |  |
| --- | --- |
| MSH | Message Header |
| MSA | Query Definition |
| [ ERR ] | Error |
| QAK | Query Acknowledgement |
| QPD | Query Parameter Definition |
| [{ | --- RESPONSE begin |
| MSH | Message Header |
| SCH | Schedule Activity Information |
| [{ TQ1 }] | Timing/Quantity |
| [{ NTE }] | Notes and Comments |
| [{ | --- PATIENT begin |
| PID | Patient Identification |
| [ PV1 ] | Patient Visit |
| [ ZPV ] | Additional Patient Visit Information |
| ]} | --- PATIENT end |
| { | --- RESOURCES begin |
| RGS | Resource Group Segment |
| [{ AIS | Appointment Information - Service |
| [{ NTE }] | Notes and Comments |
| }] |  |
| [{ AIG | Appointment Information – General Resource |
| [{ NTE }] | Notes and Comments |
| }] |  |
| [{ AIL | Appointment Information – Location Resource |
| [{ NTE }] | Notes and Comments |
| }] |  |
| [{ AIP | Appointment Information – Personnel Resource |
| [{ NTE }] | Notes and Comments |
| }] |  |
| } | --- RESOURCES end |
| }] | --- RESPONSE end |

## RESPONSE Segment Group

For details on how the response group segments are structured, refer to the Conformance Statement – SIU.docx document.

## Z01 - Today’s appointments by patient

Using this query, all scheduled appointments assigned to a specific patient for the current date are retrieved.

|  |  |  |  |
| --- | --- | --- | --- |
| Parameter | Input/Output | Data type | Description |
| patient identifier | Input | CX | Identifier from the Patient Identifier List (PID-3) of the patient |

### Example

**Query:**

MSH|^~\&|SA|SF|RA|RF|20170306115700||QBP^Q11^QBP\_Q11|8332|P|2.6||||||||  
QPD|Z01^Today’s appointments by patient^HL70471|Q001| 1989010101^^^Skatteverket&1.2.752.59&ISO^NNSWE  
RCP|I||B

**Response:**

MSH|^~\&|RA|RF|SA|SF|20170306115702||RSP^K11^RSP\_K11|9332|P|2.6|||||||||   
MSA|AA|8332  
QAK|Q001|OK  
QPD|Z01^Today’s appointments by patient^HL70471|Q001| 1989010101^^^Skatteverket&1.2.752.59&ISO^NNSWE  
MSH|^~\&|PAS|PAS\_FACILITY|||20170306115702||SIU^S12|9332A|P|2.6|||||||||  
SCH|PLACER123|FILLER234||AB12||ER|ROUTINE|Normal||||||||FCP||||EBP||||FILLER789  
TQ1|||||||20170316140000|20170316150000  
NTE|||Primary Reason|1R  
NTE|||Remark|RE  
PID|||1989010101^^^Skatteverket&1.2.752.59&ISO^NNSWE||Axxx^Axxx||19890101|F  
PV1||N|^^^SU^^C^^^KLINIK1^SE2321000131‑E000000001234&HSA‑id&1.2.752.29&ISO|||||||| ||||||||||||||||||||||||||||||||||||350  
ZPV|SI\_CODE|1|22730  
RGS|X

## Z02 - Appointments for date

|  |  |  |  |
| --- | --- | --- | --- |
| Parameter | Input/Output | Data type | Description |
| date | Input | DTM | The date of the requested appointments |

### Example

**Query:**

MSH|^~\&|SA|SF|RA|RF|20170306115700||QBP^Q11^QBP\_Q11|8333|P|2.6||||||||  
QPD|Z02^Appointments for date^HL70471|Q002|20170303  
RCP|I||B

**Response:**

MSH|^~\&|RA|RF|SA|SF|20170306115702||RSP^K11^RSP\_K11|9333|P|2.6|||||||||   
MSA|AA|8333  
QAK|Q002|OK  
QPD|Z02^Appointments for date^HL70471|Q002|20170316   
MSH|^~\&|PAS|PAS\_FACILITY|||20170306115702||SIU^S12|9333A|P|2.6|||||||||  
SCH|PLACER123|FILLER234||AB12||ER|ROUTINE|Normal||||||||FCP||||EBP||||FILLER789  
TQ1|||||||20170316140000|20170316150000  
NTE|||Primary Reason|1R  
NTE|||Remark|RE  
PID|||1989010101^^^Skatteverket&1.2.752.59&ISO^NNSWE||Axxx^Axxx||19890101|F  
PV1||N|^^^SU^^C^^^KLINIK1^SE2321000131‑E000000001234&HSA‑id&1.2.752.29&ISO|||||||| ||||||||||||||||||||||||||||||||||||350  
ZPV|SI\_CODE|1|22730   
RGS|X

## Z03 - Appointment by Filler Appointment ID

There should only be at most one appointment in the response message for this query.

|  |  |  |  |
| --- | --- | --- | --- |
| Parameter | Input/Output | Data type | Description |
| filler appointment id | Input | EI | The filler appointment id of the requested booking |

### Example

**Query:**

MSH|^~\&|SA|SF|RA|RF|20170306115700||QBP^Q11^QBP\_Q11|8334|P|2.6||||||||  
QPD|Z03^Appointment by Filler Appointment ID^HL70471|Q003|FILLER123  
RCP|I||R

**Response:**

MSH|^~\&|RA|RF|SA|SF|20170306115702||RSP^K11^RSP\_K11|9334|P|2.6|||||||||   
MSA|AA|8332  
QAK|Q001|OK  
QPD|Z03^Appointment by Filler Appointment ID^HL70471|Q003|FILLER123   
MSH|^~\&|PAS|PAS\_FACILITY|||20170306115702||SIU^S12|9334A|P|2.6|||||||||  
SCH|PLACER123|FILLER123||AB12||ER|ROUTINE|Normal||||||||FCP||||EBP||||FILLER789  
TQ1|||||||20170316140000|20170316150000  
NTE|||Primary Reason|1R  
NTE|||Remark|RE  
PID|||1989010101^^^Skatteverket&1.2.752.59&ISO^NNSWE||Axxx^Axxx||19890101|F  
PV1||N|^^^SU^^C^^^KLINIK1^SE2321000131‑E000000001234&HSA‑id&1.2.752.29&ISO||||||||^VÄNTRUM2^^SU^^C^^^KLINIK1^SE2321000131‑E000000001234&HSA‑id&1.2.752.29&ISO||||||||||||||||||||||||||||||||||||350  
ZPV|SI\_CODE|1|22730   
RGS|X

## Z04 – Appointment Notifications Since DateTime

|  |  |  |  |
| --- | --- | --- | --- |
| Parameter | Input/Output | Data type | Description |
| datetime | Input | DTM | The datetime from where to begin requesting notifications |

### Example

**Query:**

MSH|^~\&|SA|SF|RA|RF|20170306115700||QBP^Q11^QBP\_Q11|8335|P|2.6||||||||  
QPD|Z04^ Appointment Notifications Since DateTime^HL70471|Q004|201703031245  
RCP|I||B

**Response:**

MSH|^~\&|RA|RF|SA|SF|20170306115702||RSP^K11^RSP\_K11|9335|P|2.6|||||||||   
MSA|AA|8335  
QAK|Q004|OK  
QPD|Z04^ Appointment Notifications Since DateTime^HL70471|Q004|201703031245   
MSH|^~\&|PAS|PAS\_FACILITY|||20170306115702||SIU^S12|9335A|P|2.6|||||||||  
SCH|PLACER123|FILLER234||AB12||ER|ROUTINE|Normal||||||||FCP||||EBP||||FILLER789  
TQ1|||||||20170316140000|20170316150000  
NTE|||Primary Reason|1R  
NTE|||Remark|RE  
PID|||1989010101^^^Skatteverket&1.2.752.59&ISO^NNSWE||Axxx^Axxx||19890101|F  
PV1||N|^^^SU^^C^^^KLINIK1^SE2321000131‑E000000001234&HSA‑id&1.2.752.29&ISO||||||||^VÄNTRUM2^^SU^^C^^^KLINIK1^SE2321000131‑E000000001234&HSA‑id&1.2.752.29&ISO||||||||||||||||||||||||||||||||||||350  
ZPV|SI\_CODE|1|22730   
RGS|X