

Tandvårdsstöd
Care Provider Interfaces
StatisticalVisit v3

IT-product

Date

Version

StatisticalVisit v3

2016-06-13

RevD

Versions

Version	Date	Description	Name
RevA	2012-05-31	First signed-off version	Eva Hamberg
RevB	2012-10-25	Added information about stb-cause and the treatment/diagnosis that is unique for StatisticalVisit	Eva Hamberg
RevC	2015-12-17	Nytt error message för tandkontroll i tabell 3.3.3: error 005	Lars Dalenius
RevD	2016-06-13	<ul style="list-style-type: none"> • Updated using new template. • Attribute “vendor-name” is changed to mandatory. • Length of “vendor-name” is changed to char (30). • Length of “product-name” is changed to char(30). • Added “Complex Type” in tables for grouped elements, i.e yellow lines, since this is the type used in the xml-schema. • Updated statistics • Signed-off by Mohamed Osman 	Lars Dalenius

Attachment- and reference list

Number	Title, document ID, search path	Version
1	008_04_Statistical_Visit.doc (CI document)	RevA
2	TandenTypes.xsd	

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1 Introduction

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Release	DecR 2016

This document describes the parameters received from the journal systems and the parameters forwarded to EXA. There is some color codes used in the tables:

Color	Description
	Cells are changed or added in this version of the document.
	Parameters are removed in this version of the document.
	Parameter is not translated between XML and EXI.
	Complex Type which does not contain a single value, but several parameters.

Table 1 Overview over color codes used in the message parameter and translation tables.

2 Integrations

The message request will be sent via the SHS internal queue service as a WS request from SHS to EXA (SHS = FK:s Spridning och HämtningsSystem).

The anticipated message flow is depicted in the following diagram:

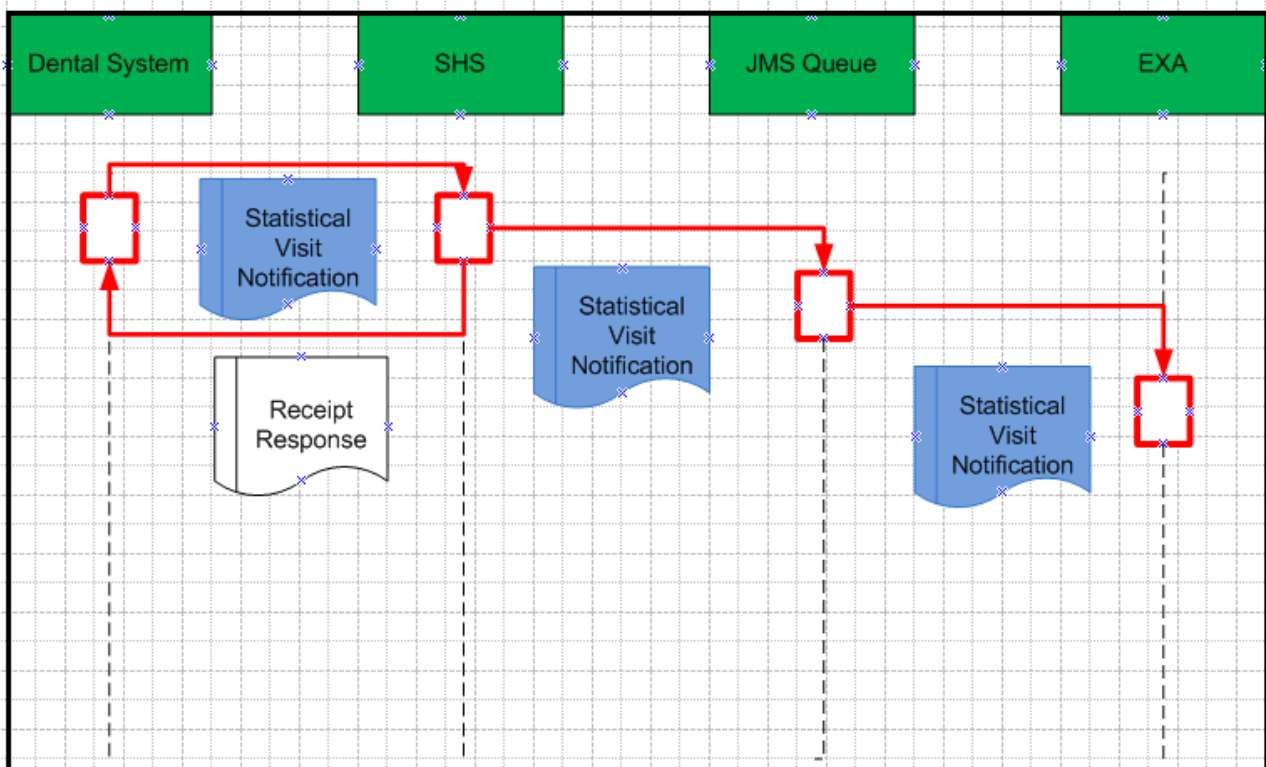


Figure 1 Sequence diagram for a Statistical Visit

3 Integration 1

3.1 Statistical Visit Requests

The following section describes which incoming request parameters and attributes from the XML message (i.e. a Statistical Visit message) received at SHS that are forwarded to EXA.

3.1.1 Message and translation

XML				Forwarded parameter to EXA (Y/N)	Details	
Name	Element / Attribute	Optional	Data type		Description	Comments
shs-invoked-interface	Attribute	X	char (36)	Y	Used to distinguish the type of message sent in	
request-id	Attribute		char (36)	Y	The request id is sent to EXA and is used to create an unique visit id in combination with the clinicid.	
vendor-name	Attribute		char (30)	Y	This attribute is appended to an incoming message by the care provider to describe the name of the vendor.	This attribute is mandatory, it is used for statistics.
product-name	Attribute	X	char (30)	Y	This attribute is appended to an incoming message by the care provider to describe the product sending the message.	

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XML				Forwarded parameter to EXA (Y/N)	Details	
Name	Element / Attribute	Optional	Data type		Description	Comments
version-number	Attribute	X	char (15)	Y	This attribute is appended to an incoming message by the care provider to describe the version number of the system sending the message.	
organization-number	Attribute	X	int (10)	Y	The organizational number of the care provider.	Set from the certificate
user-id	Attribute		int (12)	Y	User sending the request.	
clinic-id	Element		int (8)	Y	The id that the clinic has been assigned by FK.	
social-security-number	Element	(see comment)	int (12)	Y	The social security number of the Patient.	The inbound XML Message will contain either the social-security-number or the foreign-identity number, but not both.
foreign-identity-number	Element	(see comment)	char (60)	Y	The passport ID or other foreign ID of the patient.	The inbound XML Message will contain either the social-security-number or the foreign-identity number, but not both.
date	Element		date	Y	The date when the treatments was performed.	An error message is thrown if the visit has a visit date in the future.
eu-patient	Element		int(1)	Y	1=Eu-patient, 0=Not Eu-patient	
gender	Element		char(1)	Y	K=Female, X=Male	
cause	Element		int(4)	Y		The STB reason code list can be found at FK.SE.
teeth-count	Element		int (2)	Y	The number of teeth in the Patient's mouth.	Max allowed teeth-count=32. Error 003 (Invalid XML) if teeth-count > 32.

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XML				Forwarded parameter to EXA (Y/N)	Details	
Name	Element / Attribute	Optional	Data type		Description	Comments
untreated-teeth-count	Element		int (2)	Y	The number of teeth in the Patient's mouth that are perfectly healthy (i.e. have never undergone a dental treatment).	Error 005 if untreated-teeth-count > teeth-count.
treatment	Element		N/A	Y		
treatment/item-id	Attribute		int (10)	Y	A unique identifier for the line item in the submitted collection	This may be any value, but each value must be unique within the collection.
treatment/diagnosis	Element		int (4)	Y	The code from the Reference Price List corresponding to the Patient Diagnosis	An additional diagnosis (outside the TLVFS) that only can be used for Statistical Visit is 0001 Oralmotorisk funktionsnedsättning
treatment/treatment	Element		int (3)	Y	The code from the Reference Price List corresponding to the proposed treatment	The treatment field is mandatory. An additional diagnosis (outside the TLVFS) that only can be used for Statistical Visit is 001 Oralmotorisk träning
treatment/tooth	Element		char (2)	Y	Two numeric characters, indicating the quadrant and position of the tooth that was treated. OR 2 characters, indicating a whole jaw: ÖK = Upper Jaw UK = Lower Jaw NA = Not Applicable	

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XML				Forwarded parameter to EXA (Y/N)	Details	
Name	Element / Attribute	Optional	Data type		Description	Comments
treatment/position	Element		char (2)	Y	The position of the tooth in the mouth. Two numeric characters, indicating the quadrant and position of the tooth that was treated. OR 2 characters, indicating a whole jaw: ÖK = Upper Jaw UK = Lower Jaw NA = Not Applicable	This field is used to determine the position of the tooth in the mouth, which could differ from the information indicated in the Tooth field if a tooth is missing.

Table 2 Overview over parameters for the Statistical Visit parameters passed on to EXA.

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3.1.2 Sample XML

The following sample message demonstrates a typical request message when creating a statistical visit for a patient with swedish SSN.

```

<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:tan="http://fk.se/SHS/xsd/tanden">
  <soapenv:Header/>
  <soapenv:Body>
    <FK.TV.StatisticalVisit.v3
      xmlns="http://fk.se/SHS/xsd/tanden"
      xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
      xsi:schemaLocation="http://fk.se/SHS/xsd/tanden ../TandenTypes.xsd"
      organization-number="2021005521"
      request-id="a4924e42-4214-ba93-af22-98739237ba23"
      shs-invoked-interface="Statistical Visit v3"
      vendor-name="Vendor-Name-OPTIONAL"
      product-name="Dental-System-Product-Name-Goes-Here-OPTIONAL"
      version-number="V#-OPTIONAL"
      user-id="196809076349">
      <clinic-id>33300001</clinic-id>
      <social-security-number>196911038138</social-security-number>
      <date>2009-12-01</date>
      <eu-patient>0</eu-patient>
      <gender>X</gender>
      <cause>5100</cause>
      <treatment item-id="1">
        <diagnosis>1001</diagnosis>
        <treatment>101</treatment>
        <tooth>UK</tooth>
        <position>UK</position>
      </treatment>
      <teeth-count>36</teeth-count>
      <untreated-teeth-count>31</untreated-teeth-count>
    </FK.TV.StatisticalVisit.v3>
  </soapenv:Body>
</soapenv:Envelope>
    
```

Figure 2 Sample XML for a StatisticalVisit message

3.2 Receipt

A receipt is sent back to the user from SHS when the request has been received correctly. The receipt does not contain any specific parameters, just the request id and organization number in order to match the response with the request.

3.2.1 Message and translation

The parameters and translation is shown in the table below:

XML				Transformation info		Details	
Name	Element / Attribute	Optional	Data type	Comp.	Transformation	Description	Comments
request-id	Attribute		char (36)			ID used to link the response with the request.	This value must be copied from the "request-id" message on the inbound request XML message.
organization-number	Attribute		int (10)			Used to place the message in the right mailbox in in SHS.	This value will also be set as a JMS property.

Table 3 Overview over the parameters and their translation for a ReceiptResponse

3.2.2 Sample XML

The following sample demonstrates a possible response returned synchronously:

```
<FK.TV.ReceiptResponse
  xmlns="http://fk.se/SHS/xsd/tanden"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="http://fk.se/SHS/xsd/tanden ../TandenTypes.xsd"
  request-id="a4924e42-4214-ba93-af22-98739237ba23"
  organization-number="2412912421"/>
```

Figure 3 Sample XML for the ReceiptResponse message.

3.3 Error Message

In the situation where the message cannot be read, values such as the ‘RequestId’ and ‘Organisation number’ will not be accessible, so in order to send a correct error response, in all cases details need to be retrieved from user defined JMS properties associated with the inbound message.

For details on the standard JMS properties associated to each message, see [reference 2](#).

3.3.1 Message and translation

XML				Transformation info		Details	
Name	Element / Attribute	Optional	Data type	Comp.	Transformation	Description	Comments
request-id	Attribute		char (36)			This value must be copied from the "request-id" message on the inbound request XML message.	

XML				Transformation info		Details	
Name	Element / Attribute	Optional	Data type	Comp.	Transformation	Description	Comments
organization-number	Attribute		int (10)			This value must be copied from the "organization-number" message from the inbound request XML message.	
error			Complex Type				
error/error-code	Element		int (3)	No	No	The unique code for the type of error that has occurred	
error/error-text	Element		char (255)	No	No	The header/short description of the error	
error/error-details	Element	X	char (255)	No	No	A more detailed description of the error.	

Table 4 Overview over the parameters and their translation for an Error Response.

3.3.2 Sample XML

```

<FK.TV.ErrorResponse
  xmlns="http://fk.se/SHS/xsd/tanden"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="http://fk.se/SHS/xsd/tanden ../TandenTypes.xsd"
  request-id="a4924e42-4214-ba93-af22-98739237ba23"
  organization-number="2021005521">
  <error>
    <error-code>003</error-code>
    <error-text>Invalid XML</error-text>
    <error-details></error-details>
  </error>
</FK.TV.ErrorResponse>
    
```

Figure 4 Sample XML for an Error Response for Statistical Visit

3.3.3 Error Response Codes

The following table shows the possible error messages for the Statistical Visit Interface:

Code	Description	Source
003	Invalid XML	SHS
005	Ändra så att antal intakta tänder är färre än, eller lika med, antalet kvarvarande tänder	SHS

Table 5 List of possible synchronous error messages for a StatisticalVisit.

4 Volumes

The following data is based on the total traffic during April 2016 (30 days).

Distribution to be spread throughout the day, but likely to be more load during the workday hours.

Received StatisticalVisit requests:

per Year	per Month	per Day	per Hour	Size
516 516	43 043	1 435	60	~10kb

Table 6 Preliminary forecast for the volumes of StatisticalVisit requests