Web Service V2 Developer's Guide

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1 Introduction

This document has been produced as a guide for Software vendors and developers of healthcare practice management application software (PMA) to ensure an effective implementation of the MediSwitch V2 Web Services functionality into their products.

The purpose of this document therefore, is to specify the requirements and recommendations for a totally integrated switching service from within the PMA. This implies that all the defined MediSwitch transaction types and associated functionality is interfaced with the PMA and, where applicable, is accessible from within the appropriate menu option, screen and / or icon. This will facilitate optimized business processes and the efficient switching of data from the Healthcare Service Provider's practice.

2 Communication Integration

2.1 Overview

The MediSwitch V2 Web Service interface has been developed to facilitate the transfer of data between a Practice Management system and the MediSwitch system. The MediSwitch WSDL exposes the available operations to facilitate the EDI interactions between the Practice Management system and the MediSwitch infrastructure.

Please take note that the endpoints exposed in the MediSwitch WSDL is generic internal Url and the Practice management system must be enabled to update the endpoints as required. MediSwitch provides for two transactional gateways and requires the practice management system to provide a failover process to ensure uninterrupted communication.

Basic authentication is not required as the user name and password are exported as parameters in the relevant WebService operations / function calls.

2.2 Implementation Methodology

2.2.1 Check Connectivity

The echo function is used to check if the MediSwitch V2 Web Service is available.

- This function must be performed once when the Practice Management system initialises the MediSwitch V2 Web Service communication module.
- It is also advisable to allow the user to initiate this function manually.

2.2.2 Send Message to MediSwitch

The Submit Operation is used to send a request message to MediSwitch. The same connection will return a;

- Eligibility response,
- Claim batch delivery acknowledgement response or
- Claim real-time response

The response messages returned is MediSwitch product dependant.

2.2.3 Fetch a specific response message

The Fetch Operation can be used to retrieve a response message for a specific claim that was submitted to MediSwitch. This is done by populating the Mandatory Fetch Operation parameters and the switch reference returned during the Submit Operation in the <swref/> parameter.

2.2.4 Fetch all response messages

The Fetch Operation can be used to retrieve all available response messages from the service provider's user mailbox, for example;

- Instantly assessed claim responses
- Medical aid responses
- Electronic remittance advises
- Destination matrix
- Bulletin messages

by populating the Mandatory Fetch Operation parameters only, i.e. without specifying a switch reference.

The response messages returned is MediSwitch product dependant.

Once a message is acknowledged by the service provider's system, the message is archived and a service provider can request MediSwitch to manually regenerate a feedback file that is not older than one year.

- This Operation must be executed at set intervals to ensure that the service providers system is up to date with the latest available feedbacks.
- It is also advisable to allow the user to initiate this function manually.

2.2.5 Fetched an archived message

The Fetch Operation can be used to retrieve an archived message from the service provider's user mailbox by setting the <force/> parameter together with the <txType/>. The <txType/> parameter must only be set as documented in a MediSwitch developers' guide / specification document.

It is also advisable to allow the user to initiate this function manually.

2.3 Operation Variables

2.3.1 Operation 1: Echo

This operation allows the Practice Management System to check connectivity with MediSwitch and will respond with a "Mediswitch Gateway OK" if the MediSwitch WebService can be reached.

2.3.2 Operation 2: Fetch

This operation allows the Practice Management System to download messages from MediSwitch.

Fetch Request			
Element Name	**Format**	**Man**	**Description**
user	An..8	M	Issued on registration of healthcare service provider
passwd	An..8	M	Issued on registration of healthcare service provider
package	An..10	M	Issued to software product
txType	I..3		MediSwitch product dependant feedback transaction type. Only to be used as per instructions in MediSwitch product developers' guide.
swref	An..16		Request feedback for specific "swref" as receive during submit operation
force	I..1	M	0 = Normal (Default) 1 = Only used per when instructed in relevant developers guide

Fetch Response			
Element Name	**Format**	**Man**	**Description**
status	AN..5	M	OK = Transmission successful ERROR = Transmission unsuccessful
feedbackType	I..3	M	MediSwitch product dependant feedback transaction type
feedbackVersion	I..3		MediSwitch product dependant feedback version
moreFiles	I..1	M	0 = No feedback files to download 1 = Yes (System to repeat fetch operation till "moreFiles" = 0)
originalSwref	An..16		"swref" assigned to the original submit operation
originalUserRef	I..10		Transmission/Request no of the original submit operation
originalDataSetId	An..50		Original Message Dataset Id
fileName	AN..	M	Generic MediSwitch filename
fileDate	Dt		N/A
responsePayload	MediSwitch product dependant	M	NODATA = No feedback files to download Response = MediSwitch product dependant (Process according to feedback transaction type)

2.3.3 Operation 3: Submit

This operation allows the Practice Management System to send messages to MediSwitch.

Submit Request			
Element Name	**Format**	**Man**	**Description**
user	An..8	M	Issued on registration of healthcare service provider
passwd	An..8	M	Issued on registration of healthcare service provider
package	An..10	M	Issued to software product
destination	An..8		Issued to active MediSwitch destinations
txType	I..3	M	MediSwitch product dependant
Mode	An..8	M	realtime – MediSwitch to process online and return the best available response for specified txType delayed – MediSwitch to process offline and place all responses in the user mailbox for retrieval
txVersion	I..3	M	MediSwitch product dependant
userRef	I..10	M	Transmission/Request no
payload	MediSwitch product dependant	M	MediSwitch product dependant

Submit Response			
Element Name	**Format**	**Man**	**Description**
status	An..5		OK = Transmission successful

		ERROR = Transmission unsuccessful
swref	An..16	Submit request tracking reference in the MediSwitch system
retry	I..1	0 = System to flag claim for user intervention 1 = System to flag claim for re-transmission at a later period
responsePayload	MediSwitch product dependant	MediSwitch product dependant

2.4 WSDL & Endpoints

The MediSwitch WebService WSDL are published with an internal MediSwitch endpoint and the developer must provide for a configurable WSDL and Endpoint Url variable per WebService client in the PMA communication configuration section for MediSwitch. MediSwitch provide for two types of integration methods

1. A WebService url which resolves to two gateways
2. A WebService url per gateway

This is for development environments where the Web Service client can only resolve to one gateway. Where this is applicable the developer then needs to develop, for redundancy, two Web Service clients and a failover process.

MediSwitch WebService Gateways				
Gateways	**Test Environment**		**Live Environment**	
	WSDL	**Endpoint**	**WSDL**	**Endpoint**
WebService Gateway	https://wsgateway.mediswitch.co.za/qa/wsgateway/MediswitchGatewayV2?wsdl	https://wsgateway.mediswitch.co.za/qa/wsgateway/MediswitchGatewayV2	https://wsgateway.mediswitch.co.za/wsgateway/MediswitchGatewayV2?wsdl	https://wsgateway.mediswitch.co.za/wsgateway/MediswitchGatewayV2
CSA Gateway	https://wsgateway1.mediswitch.co.za/qa/wsgateway/MediswitchGatewayV2?wsdl	https://wsgateway1.mediswitch.co.za/qa/wsgateway/MediswitchGatewayV2	https://wsgateway1.mediswitch.co.za/wsgateway/MediswitchGatewayV2?wsdl	https://wsgateway.mediswitch.co.za/wsgateway/MediswitchGatewayV2
RVP Gateway	https://wsgateway2.mediswitch.co.za/qa/wsgateway/MediswitchGatewayV2?wsdl	https://wsgateway2.mediswitch.co.za/qa/wsgateway/MediswitchGatewayV2	https://wsgateway2.mediswitch.co.za/wsgateway/MediswitchGatewayV2?wsdl	https://wsgateway2.mediswitch.co.za/wsgateway/MediswitchGatewayV2