دائـــــرة الـصـــحـــة
DEPARTMENT OF HEALTH

SHAFAFIYA

WEB SERVICES TECHNICAL DEFINITION

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1. Glossary

Term/Acronym	Definition
DMZ	Demilitarized Zone
DVM	Domain Value Mapping
ESB	Enterprise Service Bus
DOH	Department of Health
JDBC	Java Database Connectivity
JNDI	Java Naming and Directory Interface
KEH	Knowledge Engine for Health
OEL	Oracle Enterprise Linux
OSB	Oracle Service Bus
OWSM	Oracle Web Service Manager
PTE	Public Test Environment
SOA	Service-Oriented Architecture
VM	Virtual Machine
XML	Extensible Markup Language
XSD	XML Schema
XSLT	XML Transformation

1. Introduction

1.1. Purpose of This Document

This document contains the technical details about Shafafiya web services. This document shall be read by DOH IT Operation, IT Security, DOH partners willing to consume Shafafiya services and project manager.

Main audience includes:

- DOH Business Users.
- DOH Information Security team
- DOH IT Operations team
- DOH Project Manager
- Injazat Project Team.
- DOH partners willing to consume Shafafiya services

2. Service Description

2.1. Upload Transactions

This web service is used to upload new transactions to the Shafafiya.

2.1.1. UploadTransaction Service

2.1.1.1. Service Signature

```
int UploadTransaction(string login,
                      string pwd,
                      byte[] fileContent,
                      string fileName,
                      out string TransactionID
                      out string errorMessage,
                      out byte[] errorReport)
```

Attributes	Description
login	User login name to connect to the Shafafiya
pwd	User password to connect to the Shafafiya
fileContent	Content of the file to upload
fileName	Original file name; this file name will be used later to show users the available files for download
TransactionID	return the UNIQUE_ID of successful transaction.
errorMessage	Output parameter that contains eventual error message if something goes wrong; web service can also send warnings using this parameter; the parameter may be null or empty string if the web service returns zero, otherwise the error message is expected;
errorReport	Output parameter that contains byte array with the content of error report eventually generated by Shafafiya Rule Validation during file upload; the parameter may be null

2.1.1.2. Service Output

The web service may return values described in the section *Web Services Returned Values*.

2.2. Download Transactions

This section provides details on Shafafiya Web Services related to transaction download.

2.2.1. GetNewTransactions Service

This web service is used to get a list of new transactions available on the Shafafiya. The service returns a list of transactions that haven't yet been marked as downloaded.

2.2.1.1. Service Signature

```
int GetNewTransactions(string login,
                       string pwd,
                       string SenderID,
                       out string xmlTransactions,
                       out string errorMessage)
```

Attributes	Description
Login	User login name to connect to the Shafafiya
Pwd	User password to connect to the Shafafiya
SenderID	Sender ID of the business partner.
xmlTransactions	Output parameter that contains xml with description of the new e-claim files; the format of this xml is described in the section *XML Format*.
errorMessage	Output parameter that contains eventual error message if something goes wrong; web service can also send warnings using this parameter; the parameter may be null or empty string if the web service returns zero, otherwise the error message is expected.

2.2.1.2. Service Output

The web service may return values described in the section *Web Services Returned Values*.

2.2.2. DownloadTransactionFile Service

The web service returns content of e-claim file.

2.2.2.1. Service Signature

```
int DownloadTransactionFile(string login,
                            string pwd,
                            string fileID,
                            out string fileName,
                            out byte[] file,
                            out string errorMessage)
```

Attributes	Description
Login	User login name to connect to the Shafafiya
Pwd	User password to connect to the Shafafiya
fileID	ID of transaction file to download; this id is received from xml returned by *GetNewTransactions* web services
filename	Output parameter that contains downloaded file name
File	File content as byte array returned by the web server to the caller
errorMessage	Output parameter that contains eventual error message if something goes wrong; web service can also send warnings using this parameter; the parameter may be null or empty string if the web service returns zero, otherwise the error message is expected

2.2.2.2. Service Output

The web service may return values described in the section *Web Services Returned Values*.

2.2.3. SetTransactionDownloaded Service

The web service is used to report the e-claim file as downloaded. User is supposed to call this web service to avoid receiving the same e-claim file using *GetNewTransactions* web service.

2.2.3.1. Service Signature

```
int SetTransactionDownloaded(string login,
                             string pwd,
```

string fileID,
out string errorMessage)

Attributes	Description
Login	User login name to connect to the Shafafiya
Pwd	User password to connect to the Shafafiya
fileID	ID of the file to set as downloaded; this id is received from xml file returned by *GetNewTransactions* web services; file id is GUID similar to '836a5d03-958f-415c-81c4-7ed99fea3c53'
errorMessage	Output parameter that contains eventual error message if something goes wrong; web service can also send warnings using this parameter; the parameter may be null or empty string if the web service returns zero, otherwise the error message is expected

2.2.3.2. Service Output

The web service may return values described in the section *Web Services Returned Values*.

2.2.4. SearchTransactions Service

The web service performs advanced search for sent and received transactions.

2.2.4.1. Service Signature

int SearchTransactions(string login,
string pwd,
int direction,
string callerLicense,
string ePartner,
int transactionID,
int transactionStatus,
string transactionFileName,
string transactionFromDate,
string transactionToDate,
int minRecordCount,
int maxRecordCount,
out string foundTransactions,
out string errorMessage)

Attributes	Description
login	User login name to connect to the Shafafiya
pwd	User password to connect to the Shafafiya
direction	Flag to indicate if function will search for sent or received transactions; the parameter may have values 1 (sent only) or 2 (received only)

callerLicense	License of the caller; if the parameter is NULL, it is not used as search criteria; otherwise the parameter value must be in the list of licenses your Shafafiya login is associated with; caller license is used as follows: - if direction= 1 (sent only), then caller license is used to find transactions sent by the caller; - if direction = 2 (received only), then caller license is used to find transactions received by the caller;
ePartner	License of the ePartner; if parameter is NULL, it is not used in search criteria; otherwise ePartner license is used as follows: - if direction = 1 (sent only), then ePartner license is used to find transactions sent to the ePartner; - if direction = 2 (received only), then ePartner license is used to find transactions received from the ePartner;
transactionID	ID of transactions to search for; the parameter may contain more than one license as sum of below : 2 - Claim Submission transaction only 4 - Person Register transaction only 8 - Remittance Advice transaction only 16 - Prior Request transaction only 32 - Prior Authorization transaction only if this parameter is -1, then all transactions will be searched for
transactionStatus	Flag to indicate if function will search for new transactions or transactions already downloaded from the Shafafiya ; the parameter may have values 1 (new only) or 2 (already downloaded only)
transactionFileName	Any part of the transaction file name to search for; for example, string 'may' will return back all transactions that have word 'may' in their names, e.g. 'ClaimSubmissionMay2010.zip'; if the parameter is NULL, it is not used as search criteria
transactionFromDate	Transaction date from which the e-claim files will be found; the parameter may not be in the future; date must be provided as a string in a format 'dd/MM/yyyy hh:mm:ss'; if time is missed, the zero is used by default; if the parameter is NULL, it is set to 100 days before transactionToDate
transactionToDate	Transaction date until which the e-claim files will be found; the parameter may not be in the future; date must be provided as a string in a format 'dd/MM/yyyy hh:mm:ss'; if time is missed, the zero is used by default; if the parameter is NULL, it is set to current date
minRecordCount	Minimum number of records in the transaction file to search for. If the parameter is greater than zero, it must be less or equal to the value in the parameter maxRecordCount; if the parameter is -1, it is not used as search criteria
maxRecordCount	Maximum number of records in the transaction file to search for; if the parameter is greater than zero, it must be greater or

	equal to the value in the parameter minRecordCount; if the parameter is -1, it is not used as search criteria
foundTransactions	Output parameter that contains xml with description of the found e-claim files; the format of this xml is described in the section *XML Format*; *note* that this web service will return maximum 1000 records
errorMessage	Output parameter that contains eventual error message if something goes wrong; web service can also send warnings using this parameter; the parameter may be null or empty string if the web service returns zero, otherwise the error message is expected

2.2.4.2. Service Output

The web service may return values described in the section *Web Services Returned Values*.

2.3. DRG Web Services

This section provides details on Shafafiya Web Services related to DRG.

2.3.1. AddDRGToEClaim Service

This web service is used to generate new e-claim file with DRG using the existing Claim Submission e- claim file.

2.3.1.1. Service Signature

```
int AddDRGToEClaim(string login,
                   string pwd,
                   byte[] originalFileContent, string
                   originalFileName, decimal
                   baseRate,
                   out byte[] drgFileContent, out
                   string drgFileName,
                   out byte[] auditFileContent, out
                   byte[] reportFileContent, out string
                   errorMessage,
                   out byte[] errorReport)
```

Attributes	Description
login	User login name to connect to the Shafafiya
pwd	User password to connect to the Shafafiya

originalFileContent	Content of the original e-claim file to use for DRG calculation; note that only Claim Submission transaction is supported for DRG calculation
originalFileName	Original e-claim file name
baseRate	Default rate in AED to be used for DRG net price calculation in all claims in the e-claim file; if baseRateis negative or zero, then the default base rate is used (the default base rate is 8,500 AED as per October 1st, 2010)
drgFileContent	Output parameter that contains new e-claim file with generated DRG
drgFileName	Output parameter that contains name of the new e-claim file with generated DRG
auditFileContent	Output parameter that contains audit file generated by DRG Grouper; this file may be used for troubleshooting and understanding why certain DRG code is generated; the file content is returned back as zipped file
reportFileContent	Output parameter that contains report file generated by DRG Grouper; this file may be used for troubleshooting and understanding why certain DRG code is generated; the file content is returned back as zipped file
errorMessage	Output parameter that contains eventual error message if something goes wrong; web service can also send warnings using this parameter; the parameter may be null or empty string if the web service returns zero, otherwise the error message is expected
errorReport	Output parameter that contains byte array with the content of error report eventually generated by Shafafiya Rule Validation during file upload; the parameter may be null

2.3.1.2. Service Output

The web service may return values described in the section *Web Services Returned Values*.

2.3.2. GetDRGDetails Service

This web service is used to generate proper DRG code with respective weight.

2.3.2.1. Service Signature

```
int GetDRGDetails(string login,
                  string pwd,
                  string xmlClaimInput,
                  string DRGVersion,
                  out string xmlDRGDetails,
                  out byte[] auditFileContent,
                  out byte[] reportFileContent,
```

out string errorMessage)

Attributes	Description
Login	User login name to connect to the Shafafiya
Pwd	User password to connect to the Shafafiya
xmlClaimInput	XML string that contains input data required for DRG grouping; refer to the section *Input Xml Format* for more details
DRGVersion	The providers can explicitly specify the DRG version which they want to use. If it is empty or null then the default DRG Version is considered.
xmlDRGDetails	XML string that contains grouped DRG code with respective weight; this parameter is null if at least one claim from the xmlClaimInputcannot be grouped; refer to the section *Output Xml Format* for more details
auditFileContent	Output parameter that contains audit file generated by DRG Grouper; this file may be used for troubleshooting and understanding why certain DRG code is generated; the file content is returned back as zipped file
reportFileContent	Output parameter that contains report file generated by DRG Grouper; this file may be used for troubleshooting and understanding why certain DRG code is generated; the file content is returned back as zipped file
errorMessage	Output parameter that contains eventual error message if something goes wrong; web service can also send warnings using this parameter; the parameter may be null or empty string if the web service returns zero, otherwise the error message is expected

2.3.2.2. Service Output

The web service may return values described in the section Web Services Returned Values.

2.4. Prior Authorization Transactions Download

This section provides details on Post Office Web Services related to Prior Request and Prior Authorization transactions download.

2.4.1. CheckForNewPriorAuthorizationTransactions Service

This web service is used to check if new Prior Request or Prior Authorization transactions are available on the Shafafiya. The service returns back a reply if at least one such transaction exists.

2.4.1.1. Service Signature

```
int CheckForNewPriorAuthorizationTransactions(string login,
                                              string pwd,
                                              string SenderID,
                                              out string errorMessage)
```

Attributes	Description

Login	User login name to connect to the Shafafiya
pwd	User password to connect to the Shafafiya
SenderID	Sender ID of the business partner.
errorMessage	Output parameter that contains eventual error message if something goes wrong; the parameter may be null or empty string if the web service returns zero or positive value, otherwise the error message is expected.

2.4.1.2. Service Output

The web service may return values described in the section *Web Services Returned Values*.

2.4.2. GetNewPriorAuthorizationTransactions Service

This web service is used to get a list of new Prior Request or Prior Authorization transactions available on the Shafafiya. The service returns back a list of transactions that haven't yet been downloaded.

2.4.2.1. Service Signature

```
int GetNewPriorAuthorizationTransactions(string login,
                                         string pwd,
                                         string SenderID,
                                         out string foundTransactions,
                                         out string errorMessage)
```

Attributes	**Description**
login	User login name to connect to the Shafafiya
pwd	User password to connect to the Shafafiya
SenderID	Sender ID of the business partner.
foundTransactions	Output parameter that contains xml with description of the new e-claim files with Prior Request and Prior Authorization transactions; the format of this xml is described in the section *XML Format*;
errorMessage	Output parameter that contains eventual error message if something goes wrong; the parameter may be null or empty string if the web service returns zero or positive value, otherwise the error message is expected

2.4.2.2. Service Output

The web service may return values described in the section *Web Services Returned Values*.

2.5. Check for Approved Trade Drugs Service

This section provides details on Shafafiya Web Services related to checking for approved trade drugs in electronic prescription.

2.5.1. GetPrescriptions Service

This web service is used to check Prescription transaction that contains a list of approved trade drugs available for dispensing. Currently this service is not in use.

2.5.1.1. Service Signature

```
int GetPrescriptions(string login,
                     string pwd,
                     string payerID,
                     string memberID,
                     out byte[] prescription,
                     out string errorMessage)
```

Attributes	Description
login	User login name to connect to the Shafafiya
pwd	User password to connect to the Shafafiya
payerID	License of payer the member belongs to
memberID	Patient insurance card number
prescription	Output parameter that contains Prescription transaction that contains approved drugs; Prescription transaction is sent as string
errorMessage	Output parameter that contains eventual error message if something goes wrong; the parameter may be null or empty string if the web service returns zero, otherwise the error message is expected.

2.5.1.1. Service Output

The web service may return values described in the section *Web Services Returned Values*. Get prescription output will be based on Prescription.XSD.

2.6. GetPersonInsuranceHistory Service

This web service is used to get the personal Insurance history available on the Shafafiya.

2.6.1.1. Service Signature

```
int GetPersonInsuranceHistory(string login,
        string pwd,
        string EmiratesID,
        string UnifiedID,
        out string PersonInsuranceDetails,
```

out string errorMessage)

Attributes	Description
login	User login name to connect to the Shafafiya
pwd	User password to connect to the Shafafiya
EmiratesID	Emirates ID is used to fetch the History of the Patient Insurance History
UnifiedID	Unified ID or UID
PersonInsuranceDetails	Output parameter that contains xml with description of the personal insurance history files. For output elements refer to Sample Output XML format for GetPersonInsuranceHistory
errorMessage	Output parameter that contains eventual error message if something, goes wrong; web service can also send warnings using this parameter; the parameter may be null or empty string if the web service returns zero, otherwise the error message is expected.

2.6.1.2. Service Output

The web service may return values described in the section *Web Services Returned Values*.

2.7. GetClaimCountReconciliation Service

This web service is used to get the Claim count reconciliation history available in Shafafiya.

2.7.1.1. Service Signature

int GetClaimCountReconciliation(string login,
string pwd,
string transactionName,
string transactionDate,
out string errorMessage,
out array ClaimCountReconciliationData)

Attributes	Description
login	User login name to connect to the Shafafiya
pwd	User password to connect to the Shafafiya
transactionName	Name of the transaction for which the Reconciliation Statement is required
transactionDate	Date for which the claim count reconciliation statement is requested; date must be provided as a string in a format 'dd/MM/yyyy'; If date is empty then the claim count reconciliation statement for previous date is shared

ClaimCountReconciliationReport	Output parameter that contains the array of ClaimsCountReconciliationData
errorMessage	Output parameter that contains eventual error message if something, goes wrong; web service can also send warnings using this parameter; the parameter may be null or empty string if the web service returns zero, otherwise the error message is expected.
ClaimCountReconciliationData	Output Parameter that contains the upload and download count of the tranasactions for each receiver For output elements refer to Sample Output XML format for Claim Count reconciliation

2.7.1.2. Service Output

The web service may return values described in the section *Web Services Returned Values*.

2.8. GetInsuranceContinuityCertificate Service

This web service calculates the insurance penalty for the members and returns the COC details.

2.8.1.1. Service Signature

int GetInsuranceContinuityCertificate (string login,
string pwd,
string SenderID,
string EmiratesIDNumber,
string UnifiedNumber,
string Status,
out string FoundTransactions,
out string errorMessage)

Attributes	**Description**
Login	User login name to connect to the Shafafiya
Pwd	User password to connect to the Shafafiya
SenderID	License ID of the payer
EmiratesIDNumber	Emirates ID Number of member
UnifiedNumber	Unified Number of member
Status	Policy status (New, Restarted, Renewed, Corrected, Corrected Date, Updated EmiratesIDNumber, Cancelled.)
FoundTransactions	Output parameter that contains xml with Insurance COC details for the members or the error details if any. For output elements refer to Sample Output XML format for GetInsuranceContinuityCertificate

errorMessage	Output parameter that contains eventual error message if something, goes wrong; web service can also send warnings using this parameter; the parameter may be null or empty string if the web service returns zero, otherwise the error message is expected.

2.8.1.2. Service Output

The web service may return values described in the section *Web Services Returned Values*.

2.9. CancelInsuranceContinuityCertificate Service

This web service is used to cancel the Inurance Continuity Certificate for the members.

2.9.1.1. Service Signature

int CancelInsuranceContinuityCertificate (string login,
string pwd,
string SenderID,
string ReferenceNumber,
out string ResultMessage)

Attributes	Description
Login	User login name to connect to the Shafafiya
Pwd	User password to connect to the Shafafiya
SenderID	License ID of the payer
ReferenceNumber	This is an auto-generated unique number.
ResultMessage	This parameter will contain success message or error message if something, goes wrong; web service can also send warnings using this parameter.

2.9.1.2. Service Output

The web service may return values described in the section *Web Services Returned Values*.

2.10. Web Services Returned Values

All Shafafiya web services share the return value, so that client application can implement one handler to process the result of web service execution and share it with all web service calls. The supported returned values are shown below:

Code	Description
0	Operation is successful
1	e-claim transaction validation succeeded with warnings
2	no new prior authorization transactions are available for download

3	Member has no approved trade drugs, hence Prescription transaction is not returned
4	DRG grouping is performed using default patient gender and age (female 21 years old)
-1	Login failed for the user
-2	e-claim transaction validation is failed with errors
-3	Required input parameter for the web service is empty, or null, or contains invalid Value
-4	Unexpected error occurred

-5	if difference between date from and date to parameters is longer than 100 days
-6	The specified file is not found
-7	Transaction is not supported
-8	DRG Grouper is busy serving other requests; if you get this error code please try to call the web service again in 5-10 minutes
-9	Error occurred while running DRG Grouper
-10	if no search criteria is found
-11	Get Person Insurance History is not available for the providers.
-12	This user do not have access for this transaction Name
-13	This user has reached the quota of requests for the claims reconciliation service
-14	Reconciliation transaction failed with errors
-15	Invalid date format, Date has to be provided in format dd/MM/yyyy
-16	Reconciliation statement cannot be provided for given date, date range cannot be more than 6 months
-17	Invalid Transaction Name
-18	This service is not available for the providers.
-19	No reference number found.
-20	COC already cancelled.

2.11. Web Services Address

Shafafiya web services are available on this address:

Web Services Address	https://shafafiyapte.doh.gov.ae/v3/webservices.asmx	Staging
Web Services WSDL	https://shafafiyapte.doh.gov.ae/v3/webservices.asmx?WSDL	Staging
Web Services Address	https://shafafiya.doh.gov.ae/v3/webservices.asmx	Prod
Web Services WSDL	https://shafafiya.doh.gov.ae/v3/webservices.asmx?WSDL	Prod

2.12. Appendix

2.12.1. XML Format Download Transactions

Parameter xml Transaction in the web service is expected to have the following format:

```
<Files>
  <File FileID='31830' FileName='MyFile1.xml' SenderID='MF2057'
ReceiverID='A001' TransactionDate='11/04/2010 10:44:03'
RecordCount='15' IsDownloaded='True' />
```

<File FileID='31824' FileName='MyFile2.xml' SenderID='MF2102' ReceiverID='A001' TransactionDate='12/04/2010 18:12:10' RecordCount='8123' IsDownloaded='False' />

<File FileID='31821' FileName='MyFile3.xml' SenderID='MF2058' ReceiverID='A001' TransactionDate='31/03/2010 16:59:31' RecordCount='6930' IsDownloaded='True' />

</Files>

XML Fields Description:

FileID– unique file id that will be used later to download the file;

FileName– original file name as it was uploaded by the sender;

SenderID– e-claim file sender;

ReceiverID– e-claim file receiver;

TransactionDate– value from e-claim file's TransactionDate node;

RecordCount– value from e-claim file's TransactionDate node;

IsDownloaded– True if file has been already downloaded from the Shafafiya ; False otherwise. Note that this attribute is provided only for the web service *SearchTransactions*.

2.12.2. Input XML Format

Example of the input xml string is presented below.

```
<?xml version="1.0" encoding="utf-8" ?>
<Claims>
    <Claim>
        <ID>26-S-0011</ID>
        <MemberBirthDate>29/09/1980</MemberBirthDate>
    <MemberGender>1</MemberGender>
    <EncounterEndType>1</EncounterEndType>
    <EncounterStart>21/05/2012 14:20</EncounterStart>
    <EncounterEnd>28/05/2012 16:15</EncounterEnd>
    <PrincipalDiagnosis>003.21</PrincipalDiagnosis>
    <SecondaryDiagnosis>005.9</SecondaryDiagnosis>
```

```
        <SecondaryDiagnosis>V23.41</SecondaryDiagnosis>
        <ActivityCode>84295</ActivityCode>
        <ActivityCode>86140</ActivityCode>
    </Claim>
</Claims>
```

The input xml has the following nodes and elements. Note that all below elements are mandatory if not mentioned otherwise:

1. Claims– main parent node in the xml. Only one such node is allowed in xml.
2. Claim– claim node that contains all claim data required for DRG grouping. There may be one or more claims in the xml.
3. ID – claim ID. This node has the same meaning and rules as node ClaimID in the original Claim Submission transaction.
4. MemberBirthDate– birth date of the member in a format dd/MM/yyyy.
5. MemberGender– gender of the member. 0 means female, 1 means male.
6. EncounterEndType– end type of the encounter. This node has the same meaning and rules as node EncounterEndType in the original Claim Submission transaction.
7. EncounterStart– start date of the encounter. This node has the same meaning and rules as node EncounterStart in the original Claim Submission transaction. The value is provided in a format dd/MM/yyyy hh:mm.
8. EncounterEnd– end date of the encounter. This node has the same meaning and rules as node EncounterEnd in the original Claim Submission transaction. The value is provided in a format dd/MM/yyyy hh:mm.
9. PrincipalDiagnosis – principal diagnosis node. Every claim must have one and only one principal diagnosis node.
10. SecondaryDiagnosis– secondary diagnosis node. There might be zero or more secondary diagnoses per claim.
11. AdmittingDiagnosis – admitting diagnosis node. There might be zero or more admitting diagnoses per claim.
12. ActivityCode– CPT code of the procedure. This node has the same meaning and rules as node
13. ActivityCode in the original Claim Submission transaction for CPT codes.

2.12.3. Output XML Format

Example of the output xml string is presented below.

```
<?xml version="1.0" encoding="utf-8" ?>
```

```
<Claims>
    <Claim>
        <ID>26-S-0011</ID>
        <DRGCode>011132</DRGCode>
        <DRGWeight>0.4511401078</DRGWeight>
</Claims>
```

The output xml has the following nodes and elements. Note that all below elements are mandatory if not mentioned otherwise:

1. Claims– main parent node in the xml. Only one such node is allowed in xml.
2. Claim– claim node that contains claim data with grouped DRG. Number of claim nodes in output xml is the same as number of claim nodes in the input xml, assuming all claims are grouped successfully.
3. ID– claim ID. This node has the same meaning and rules as the respective node in the input xml.
4. DRGCode – DRG code that is generated by DRG Grouping software.
5. DRGWeight– weight for the DRG as per respective Mandatory Tariff file.

2.12.4. Prescription.XSD

```
<?xml version="1.0" encoding="utf-8"?>
<xs:schema elementFormDefault="qualified" version="2.0" id="ElectronicPrescription"
xmlns:tns="http://www.haad.ae/DataDictionary/CommonTypes"
xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsd="undefined">
  <xs:import schemaLocation="CommonTypes.xsd"
namespace="http://www.haad.ae/DataDictionary/CommonTypes"/>
  <xs:element name="Electronic.Prescription">
    <xs:complexType>
      <xs:sequence>
        <xs:element name="Header">
          <xs:complexType>
            <xs:sequence>
              <xs:element name="SenderID" type="tns:HeaderSenderID"/>
              <xs:element name="ReceiverID" type="tns:HeaderReceiverID"/>
              <xs:element name="TransactionDate" type="tns:HeaderTransactionDate"/>
              <xs:element name="RecordCount" type="tns:HeaderRecordCount"/>
```

```
      <xs:element name="DispositionFlag" type="tns:HeaderDispositionFlag"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="Authorization">
  <xs:complexType>
    <xs:sequence>
      <xs:element name="ID" type="tns:AuthorizationID"/>
      <xs:element name="IDPayer" type="tns:AuthorizationIDPayer"/>
      <xs:element name="MemberID" type="tns:AuthorizationMemberID"/>
      <xs:element name="PayerID" type="tns:AuthorizationPayerID"/>
      <xs:element name="DateOrdered" type="tns:AuthorizationDateOrdered"/>
      <xs:element name="Start" type="tns:AuthorizationStart"/>
      <xs:element name="End" type="tns:AuthorizationEnd"/>
      <xs:element minOccurs="0" name="Comments" type="tns:AuthorizationComments"/>
      <xs:element minOccurs="0" name="Encounter">
        <xs:complexType>
          <xs:sequence>
            <xs:element name="FacilityID" type="tns:EncounterFacilityID"/>
            <xs:element name="Type" type="tns:EncounterType"/>
          </xs:sequence>
        </xs:complexType>
      </xs:element>
      <xs:element minOccurs="0" maxOccurs="unbounded" name="Diagnosis">
        <xs:complexType>
          <xs:sequence>
            <xs:element name="Type" type="tns:DiagnosisType"/>
            <xs:element name="Code" type="tns:DiagnosisCode"/>
          </xs:sequence>
        </xs:complexType>
      </xs:element>
      <xs:element minOccurs="0" maxOccurs="unbounded" name="GenericDrug">
        <xs:complexType>
          <xs:sequence>
            <xs:element name="ID" type="tns:ActivityID"/>
            <xs:element name="Code" type="tns:ActivityCode"/>
            <xs:element name="Quantity" type="tns:ActivityQuantity"/>
            <xs:element minOccurs="0" name="DenialCode" type="tns:ActivityDenialCode"/>
            <xs:element minOccurs="5" maxOccurs="6" name="GenericDrugObservation">
              <xs:complexType>
                <xs:sequence>
                  <xs:element name="Type" type="tns:ObservationType"/>
                  <xs:element name="Code" type="tns:ObservationCode"/>
                  <xs:element name="Value" type="tns:ObservationValue"/>
                  <xs:element name="ValueType" type="tns:ObservationValueType"/>
                </xs:sequence>
```

```
            </xs:complexType>
          </xs:element>
          <xs:element minOccurs="1" maxOccurs="unbounded" name="TradeDrug">
            <xs:complexType>
              <xs:sequence>
                <xs:element name="ID" type="tns:ActivityID"/>
                <xs:element name="Code" type="tns:ActivityCode"/>
                <xs:element name="Quantity" type="tns:ActivityQuantity"/>
                <xs:element name="Net" type="tns:ActivityNet"/>
                <xs:element minOccurs="0" name="TradeDrugObservation">
                  <xs:complexType>
                    <xs:sequence>
                      <xs:element name="Type" type="tns:ObservationType"/>
                      <xs:element name="Code" type="tns:ObservationCode"/>
                      <xs:element name="Value" type="tns:ObservationValue"/>
                      <xs:element name="ValueType" type="tns:ObservationValueType"/>
                    </xs:sequence>
                  </xs:complexType>
                </xs:element>
              </xs:sequence>
            </xs:complexType>
          </xs:element>
        </xs:sequence>
      </xs:complexType>
    </xs:element>
  </xs:sequence>
</xs:complexType>
</xs:element>
</xs:schema>
```

2.12.5. Sample Output XML format for GetPersonInsuranceHistory

```
<PersonInsuranceHistoryFiles>
        <File PersonFirstName=”RONALDO” PersonMiddleName=”ABDULLAH”
PersonLastName=”BALKHAIR” PersonBirthDate=”19/09/2018 00:00” PolicyExpiryDate=”19/09/2019
00:00” InsuranceLicense=”A001”/>
</PersonInsuranceHistoryFiles>
```

2.12.6. Sample Input XML format for Claims Count reconciliation

```
<v2:GetClaimsCountReconciliation>
```

```
    <v2:login>*****</v2:login>
    <v2:pwd>*****</v2:pwd>
    <v2:transactionName>Claim.Submission</v2:transactionName>
    <v2:transactionDate>25/05/2021</v2:transactionDate>
  </v2:GetClaimsCountReconciliation>
```

2.12.7. Sample Output XML format for Claim Count reconciliation

```
<ns1:GetClaimCountReconciliationResponse xmlns:ns1="https://www.shafafiya.org/v2/">
    <ns1:GetClaimCountReconciliationResult>0</ns1:GetClaimsCountReconciliationResult>
    <ns1:errorMessage>Operation is successful</ns1:errorMessage>
    <ns1:ClaimCountReconciliationReport>
      <ns1:ClaimCountReconciliationData>
        <ns1:senderID>D001</ns1:senderID>
        <ns1:receiverID>MF2457</ns1:receiverID>
        <ns1:uploadCount>12</ns1:uploadCount>
        <ns1:downloadCount>7</ns1:downloadCount>
      </ns1:ClaimCountReconciliationData>
      <ns1:ClaimCountReconciliationData>
        <ns1:senderID>A001</ns1:senderID>
        <ns1:receiverID>MF2457</ns1:receiverID>
        <ns1:uploadCount>2</ns1:uploadCount>
        <ns1:downloadCount>0</ns1:downloadCount>
      </ns1:ClaimCountReconciliationData>
    </ns1:ClaimCountReconciliationReport>
  </ns1:GetClaimCountReconciliationResponse>
```

2.12.8. Sample Input XML format for GetInsuranceContinuityCertificate

```
<v2:GetInsuranceContinuityCertificate xmlns:v2="https://www.shafafiya.org/v2/">
  <v2:login>*****</v2:login>
  <v2:pwd>*****</v2:pwd>
  <v2:SenderID>A123</v2:SenderID>
  <v2:Members>
    <v2:Member>
      <v2:EmiratesIDNumber>784-1995-2810352-8</v2:EmiratesIDNumber>
      <v2:UnifiedNumber>186471935</v2:UnifiedNumber>
      <v2:Status>Renewed</v2:Status>
    </v2:Member>
    <v2:Member>
      <v2:EmiratesIDNumber>784-1978-7953041-4</v2:EmiratesIDNumber>
      <v2:Status>Renewed</v2:Status>
    </v2:Member>
    <v2:Member>
      <v2:UnifiedNumber>2564096</v2:UnifiedNumber>
```

```
      <v2:Status>New</v2:Status>
    </v2:Member>
  </v2:Members>
</v2:GetInsuranceContinuityCertificate>
```

2.12.9. Sample Output XML format for GetInsuranceContinuityCertificate

Sample Output 1

```
<InsuranceContinuityCertificates>
  <InsuranceContinuityCertificate>
    <ReferenceNumber>2196</ReferenceNumber>
    <TotalPenalty>14400.0</TotalPenalty>
    <ValidityDate>21/01/2024</ValidityDate>
    <Person EmiratesIDNumber="784- 1978-0000000-4" UnifiedNumber="185425983"
NonInsuranceDays="738" Penalty="7200.0"/>
    <Person EmiratesIDNumber="784- 1978-0000000-6" UnifiedNumber="185425984"
NonInsuranceDays="738" Penalty="7200.0"/>
  </InsuranceContinuityCertificate>
</InsuranceContinuityCertificates>
```

Sample Output 2

```
<InsuranceContinuityCertificates>
  <InsuranceContinuityCertificate>
    <ReferenceNumber>2223</ReferenceNumber>
    <TotalPenalty>0</TotalPenalty>
    <ValidityDate>10/01/2024</ValidityDate>
    <Status>PAID</Status>
    <Person EmiratesIDNumber="784-1971-6864109-6" UnifiedNumber="2564096" Penalty="0"
SenderID="A123"/>
    <Person EmiratesIDNumber="784-1995-2810352-8" UnifiedNumber="186471935" Penalty="0"
SenderID="A123"/>
  </InsuranceContinuityCertificate>
  <InsuranceContinuityCertificate>
    <ReferenceNumber>2224</ReferenceNumber>
    <TotalPenalty>25500</TotalPenalty>
    <ValidityDate>10/01/2024</ValidityDate>
    <Status>COC already exists</Status>
    <Person EmiratesIDNumber="784-1978-7953041-4" UnifiedNumber="123"
NonInsuranceDays="2615" Penalty="26100" SenderID="A123"/>
  </InsuranceContinuityCertificate>
</InsuranceContinuityCertificates>
```

Sample Output 3

```
<InsuranceContinuityCertificates>
  <InsuranceContinuityCertificate>
```

```
    <ReferenceNumber>2196</ReferenceNumber>
    <TotalPenalty>7200</TotalPenalty>
    <ValidityDate>21/01/2024</ValidityDate>
    <Status>COC already exists</Status>
    <Person EmiratesIDNumber="784-1978-0000000-0" UnifiedNumber="185425983"
NonInsuranceDays="738" Penalty="7200" SenderID="A123"/>
  </InsuranceContinuityCertificate>
  <InsuranceContinuityCertificate>
    <ReferenceNumber>2197</ReferenceNumber>
    <TotalPenalty>7200.0</TotalPenalty>
    <ValidityDate>21/01/2024</ValidityDate>
    <Person EmiratesIDNumber="784-1978-0000000-4" UnifiedNumber="185425984"
NonInsuranceDays="738" Penalty="7200.0"/>
  </InsuranceContinuityCertificate>
</InsuranceContinuityCertificates>
```

Sample Output 4

```
<InsuranceContinuityCertificates>
  <InsuranceContinuityCertificate>
    <ReferenceNumber>2195</ReferenceNumber>
    <TotalPenalty>0</TotalPenalty>
    <ValidityDate>21/01/2024</ValidityDate>
    <Status>PAID</Status>
    <Person EmiratesIDNumber="784-1978-0000000-4" UnifiedNumber="185425983" Penalty="0"
SenderID="A123"/>
  </InsuranceContinuityCertificate>
  <InsuranceContinuityCertificate>
    <ReferenceNumber>2196</ReferenceNumber>
    <TotalPenalty>7200</TotalPenalty>
    <ValidityDate>21/01/2024</ValidityDate>
    <Status>COC already exists</Status>
    <Person EmiratesIDNumber="784-1978-0000000-6" UnifiedNumber="185425984"
NonInsuranceDays="738" Penalty="7200" SenderID="A123"/>
  </InsuranceContinuityCertificate>
  <InsuranceContinuityCertificate>
    <ReferenceNumber>2197</ReferenceNumber>
    <TotalPenalty>7200.0</TotalPenalty>
    <ValidityDate>21/01/2024</ValidityDate>
    <Person EmiratesIDNumber="784-1978-0000000-7" UnifiedNumber="185425985"
NonInsuranceDays="738" Penalty="7200.0"/>
  </InsuranceContinuityCertificate>
</InsuranceContinuityCertificates>
```

Sample Output 5

```
<InsuranceContinuityCertificates>
  <InsuranceContinuityCertificate>
```

```
    <ReferenceNumber>2196</ReferenceNumber>
    <TotalPenalty>0</TotalPenalty>
    <ValidityDate>21/01/2024</ValidityDate>
    <Status>PAID</Status>
    <Person EmiratesIDNumber="784-1978-0000000-4" UnifiedNumber="185425983" Penalty="0"
SenderID="A00001"/>
  </InsuranceContinuityCertificate>
  <InsuranceContinuityCertificate>
    <Person EmiratesIDNumber="784-1978-0000000-6" UnifiedNumber="185425984" Error="No policy
details found"/>
  </InsuranceContinuityCertificate>
</InsuranceContinuityCertificates>
```

Sample Output 6

```
<InsuranceContinuityCertificates>
  <InsuranceContinuityCertificate>
    <ReferenceNumber>2196</ReferenceNumber>
    <TotalPenalty>7200</TotalPenalty>
    <ValidityDate>21/01/2024</ValidityDate>
    <Status>COC already exists</Status>
    <Person EmiratesIDNumber="784-1978-0000000-4" UnifiedNumber="185425983"
NonInsuranceDays="738" Penalty="7200" SenderID="A123"/>
  </InsuranceContinuityCertificate>
  <InsuranceContinuityCertificate>
    <ReferenceNumber>2197</ReferenceNumber>
    <TotalPenalty>7200</TotalPenalty>
    <ValidityDate>21/01/2024</ValidityDate>
    <Status>COC already exists</Status>
    <Person EmiratesIDNumber="784-1978-0000000-6" UnifiedNumber="185425984"
NonInsuranceDays="738" Penalty="7200" SenderID="A123"/>
  </InsuranceContinuityCertificate>
  <InsuranceContinuityCertificate>
    <ReferenceNumber>2198</ReferenceNumber>
    <TotalPenalty>7200</TotalPenalty>
    <ValidityDate>21/01/2024</ValidityDate>
    <Status>COC already exists</Status>
    <Person EmiratesIDNumber="784-1978-0000000-7" UnifiedNumber="185425985"
NonInsuranceDays="738" Penalty="7200" SenderID="A123"/>
  </InsuranceContinuityCertificate>
</InsuranceContinuityCertificates>
```

2.12.10. Sample Input XML format for CancelInsuranceContinuityCertificate

```
<v2:CancelInsuranceContinuityCertificate xmlns:v2="https://www.shafafiya.org/v2/">
   <v2:login>*****</v2:login>
   <v2:pwd>*****</v2:pwd>
   <v2:SenderID>A123</v2:SenderID>
```

```
  <v2:ReferenceNumber>2082</v2:ReferenceNumber>
</v2:CancelInsuranceContinuityCertificate>
```

2.12.11. Sample Output XML format for CancelInsuranceContinuityCertificate

Success Output

```
<CancelInsuranceContinuityCertificateResponse xmlns="https://www.shafafiya.org/v2/">
        <CancelInsuranceContinuityCertificateResult>0</CancelInsuranceContinuityCertificateResult>
        <ResultMessage>Operation is successful</ResultMessage>
</CancelInsuranceContinuityCertificateResponse>
```

1. Failure Output

```
<CancelInsuranceContinuityCertificateResponse xmlns="https://www.shafafiya.org/v2/">
        <CancelInsuranceContinuityCertificateResult>-19</CancelInsuranceContinuityCertificateResult>
        <ResultMessage>No reference number found.</ResultMessage >
</CancelInsuranceContinuityCertificateResponse>
```

2. Failure Output

```
<CancelInsuranceContinuityCertificateResponse xmlns="https://www.shafafiya.org/v2/">
        <CancelInsuranceContinuityCertificateResult>-20</CancelInsuranceContinuityCertificateResult>
        <ResultMessage>COC already cancelled.</ResultMessage>
</CancelInsuranceContinuityCertificateResponse>
```