TRIARQ QSuite Manistee

API Documentation

Report Date:
October 30th, 2017

TRIARQ HEALTH

API Documentation

QSuite Manistee

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Compatibility

Compatible with QSuite Manistee and above.

Software Components and Configuration

API Registration and Authentication is required for accessing all the API's. For API Registration please contact Practice administrator.

Organizational Policies for CDA generation

1. As per our Organizational policies, additional data may exist in CDA document due to patient safety reasons.

   Example 1: When user request CDA document for category "Medications" in this case "Patient Demographics" is an additional section included in CDA document.

   Example 2: When user request CDA document for "Health Concerns", in this case "Patient Demographics" and "Problems" (if Problems are associated with Health Concerns) sections are additional sections included in CDA document.
2. As per our Organizational policies, "No information" is displayed for a CDA section if data is not available in our system or data not exists in the data range provided by user in the API request call.
3. For CDA sections "Health Concerns", "Goals" and "Implantable Devices", data will be included in CDA document based on below criteria:
   a. If date is provided by user in the request call, only data having dates and meeting the date criteria will be displayed.
   b. If date is not provided by user in the request call, all data will be displayed.

API Syntax for Implementation

Note: All Requests and responses are in XML format.

API001: User Authentication

This API is used to authenticate the user with valid credentials. The API response returns a Session ID which is used for further API calls.

- Staging URL: https://dev52.glodom.local:10094/gloCoreService.svc/api/gloAuthenticate_V4
- Production URL:

  https://apiservices.triarqclouds.com/gloCoreService.svc/api/gloAuthenticate_V4

  Note: Append **"**APIAccessID" provided in registration email as a query string parameter for above URL. Refer below example

https://apiservices.triarqclouds.com/gloCoreService.svc/api/gloAuthenticate_V4?APIAccessID=xxxxx

- Function Name: gloAuthenticate_V4
- Method: POST
- Headers: Content-Type: application/xml
- URL Parameters: Not applicable
- Data Parameters: Below are the request parameters for the api call.

```
<gloAuthenticateRequest_V4 xmlns="http://servicemodel.glostream.com/V2/">
 <Password>cnlhbjEyMw==</Password>
 <Username>john </Username>
</gloAuthenticateRequest_V4>
```

Refer to Table No: 1.1 for the data parameter details.

Table No: 1.1 - Parameter Details

Node Name	Data Type	Mandatory	Details
Username	String	Yes	
Password	base64Binary	Yes	Password should be converted from string to base64Binary format and then passed to this property.

Success Response:

On successful request following response will be returned:

```
<gloResultAuthentication_V4 xmlns="http://servicemodel.glostream.com/V2/"
xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
 <APIAccessUser>
  <dtDOB>2000-01-01T00:00:00</dtDOB>
  <eGender>Male</eGender>
  <nRoleId>3</nRoleId>
  <nUserId>1</nUserId>
  <sEmail i:nil="true"/>
  <sFirstName>James</sFirstName>
  <sLastName>Kinder</sLastName>
  <sMiddleName/>
  <sRoleName>Provider</sRoleName>
```

```
  <sUserCode>1</sUserCode>
  <sZip i:nil="true"/>
 </APIAccessUser>
 <ErrorCode i:nil="true"/>
 <ErrorDescription i:nil="true"/>
 <PatientRepresentativeAssociatedPatients i:nil="true"/>
 <SessionID>E6CEE949-DD43-4FBC-83B8-CF205A66E918</SessionID>
</gloResultAuthentication_V4>
```

Refer Table No: 1.2 for the success response details:

Table No: 1.2 - Parameter Details

Node Name	Data Type	Details
dtDOB	Date	Format: yyyy-MM-dd
eGender	String	Male, Female, Others
nRoleId	Numeric	
nUserId	Numeric	
sEmail	String	
sFirstName	String	
sLastName	String	
sMiddleName	String	
sRoleName	String	
sUserCode	String	
sZip	String	
SessionID	String	

Refer Table No: 1.3 for the error response details:

Table No: 1.3 - Error Response

Error Code	Error Description
S1001	Invalid User name or Password
S1002	User not authorized to use this service, please contact practice administrator
S1004	UserName cannot be Null or Empty
S1005	Password cannot be Null or Empty

Refer Table No: 1.4 for the exception handling details:

Table No: 1.4 – Exception Handling

Exception Code	Exception Description
400	Bad Request The server encountered an error processing the request.
500	Internal Server Error

API002: Patient Selection

This api call is used for patient selection.

- Staging URL: https://dev52.glodom.local:10094/gloCoreService.svc/api/gloSearch_V4_Patient
- Production URL:

  https://apiservices.triarqclouds.com/gloCoreService.svc/api/gloSearch_V4_Patient

  Note: Append **"**APIAccessID" provided in registration email as a query string parameter for above URL. Refer below example

  https://apiservices.triarqclouds.com/gloCoreService.svc/api/gloSearch_V4_Patient?APIAccessID=xxxxx
- Function Name: gloSearch_V4_Patient
- Method: POST
- Headers: Content-Type: application/xml
- URL Parameters: Not applicable
- Data Parameters: Below are the request parameters for the api call.

```
<gloRequest_V4_Patient xmlns="http://servicemodel.glostream.com/V2/">
 <RequestCriteria>
  <FirstName>John</FirstName>
  <LastName>Doe</LastName>
  <Gender>Male</Gender>
  <DOB>2000-01-01</DOB>
  <ZIP>10001</ZIP>
 </RequestCriteria>
 <SessionID> A415CBB2-A2E2-4EF3-B7FE-BC0CF28DC588 </SessionID>
</gloRequest_V4_Patient>
```

Refer to Table No: 2.1 for the data parameter details.

Table No: 2.1 - Parameter Details

Node Name	Data Type	Mandatory	Details
FirstName	String	Yes	
LastName	String	Yes	
Gender	String	Yes	Male, Female, Others
DOB	String	Yes	Format: yyyy-MM-dd
Zip	String	No	
SessionID	String	Yes	This value should be provided same as “Session ID” field in the response of “User Authentication” API call. Please refer to Table No. 1.2

```
<gloResponse_V4 xmlns="http://schemas.datacontract.org/2004/07/gloCore.ContractModel.Model"
xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
 <Description>success</Description>
 <ResultRecords xmlns:a="http://schemas.microsoft.com/2003/10/Serialization/Arrays">
  <a:anyType i:type="b:Patient_V4" xmlns:b="http://servicemodel.glostream.com/V2/">
   <b:PatientDemographics>
    <b:dtDOB>2000-01-01T00:00:00</b:dtDOB>
    <b:eGender>Male</b:eGender>
    <b:nPatientId>2631434344133684</b:nPatientId>
    <b:nRoleId>0</b:nRoleId>
    <b:sEmail>email@domain.com</b:sEmail>
    <b:sFirstName>Jim </b:sFirstName>
    <b:sLastName>Kane </b:sLastName>
    <b:sMiddleName i:nil="true"/>
    <b:sUserCode>Portal01</b:sUserCode>
    <b:sZip>10001</b:sZip>
   </b:PatientDemographics>
  </a:anyType>
  <a:anyType i:type="b:Patient_V4" xmlns:b="http://servicemodel.glostream.com/V2/">
   <b:PatientDemographics>
    <b:dtDOB>2000-01-01T00:00:00</b:dtDOB>
```

```
      <b:eGender>Male</b:eGender>
      <b:nPatientId>274100203355098094</b:nPatientId>
      <b:nRoleId>0</b:nRoleId>
      <b:sEmail>emailid@domain.com</b:sEmail>
      <b:sFirstName>Shaun</b:sFirstName>
      <b:sLastName>Tate</b:sLastName>
      <b:sMiddleName i:nil="true"/>
      <b:sUserCode>portal04</b:sUserCode>
      <b:sZip>10001</b:sZip>
    </b:PatientDemographics>
  </a:anyType>
 </ResultRecords>
 <SessionID i:nil="true"/>
 <sErrorCode i:nil="true"/>
 <sErrorDescription i:nil="true"/>
</gloResponse_V4>
```

Success Response: On successful request following response will be returned:

Refer Table No: 2.2 for the success response details:

Table No: 2.2 - Parameter Details

Node Name	Data Type	Details
dtDOB	Date	Format: yyyy-MM-dd
eGender	String	Male, Female, Others
nPatientId	Numeric	
nRoleId	Numeric	
sEmail	String	
sFirstName	String	
sLastName	String	
sMiddleName	String	
sUserCode	String	
sZip	String	

Refer Table No: 2.3 for the error response details:

Table No: 2.3 - Error Response

Error Code	Error Description
S2001	Reserved for internal use
S2002	First Name cannot be Null or Empty
S2003	Last Name cannot be Null or Empty
S2004	eGender cannot be Null or Empty
S2005	DOB cannot be Null or Empty
S2006	DOB is in incorrect format
S2007	SessionID cannot be Null or Empty
S2008	Invalid user or user is not Authorized to use this service, Please contact practice administrator OR Invalid SessionId
S2009	No associated patients found

Refer Table No: 2.4 for the exception handling details:

Table No: 2.4 – Exception Handling

Exception Code	Exception Description
400	Bad Request The server encountered an error processing the request.
500	Internal Server Error

API003: Retrieving CDA

This API call is used to retrieve CDA document in xml format.

Note: Refer to "Organizational policies for CDA generation" section for details about data returned in response CDA document.

- Staging URL: https://dev52.glodom.local:10094/gloCoreService.svc/api/gloSearch_V4_CDA
- Production URL:
  https://apiservices.triarqclouds.com/gloCoreService.svc/api/gloSearch_V4_CDA
  Note: Append **"**APIAccessID" provided in registration email as a query string parameter for above URL. Refer below example
  https://apiservices.triarqclouds.com/gloCoreService.svc/api/gloSearch_V4_CDA?APIAccessID=xxxxx
- Function Name: gloSearch_V4_CDA

- Method: POST
- Headers: Content-Type: application/xml
- URL Parameters: N/A
- Data Parameters: Below are the request parameters for the API call.

```
<gloRequest_V4_CDA xmlns="http://servicemodel.glostream.com/V2/">
 <RequestCriteria>
  <PatientUID>263134088993133684</PatientUID>
  <FromDate>2017-01-01</FromDate>
  <ToDate>2018-01-01</ToDate>
  <DataCategory></DataCategory>
 </RequestCriteria>
 <SessionID>B9D24E18-526D-4772-9487-BBAD5AE2B59E</SessionID>
</gloRequest_V4_CDA>
```

Refer to Table No: 3.1 for the data parameter details

Table No: 3.1 - Parameter Details

Node Name	Data Type	Mandatory	Details
PatientUID	String	Yes	This value should be provided same as “nPatientID” field in the response of “Patient Selection” API call. Please refer to Table No. 2.2
FromDate	String	No	Format: yyyy-MM-dd . It is mandatory if “To Date” is specified
ToDate	String	No	Format: yyyy-MM-dd. It is mandatory if “From Date” is specified
DataCategory	String	No	If this value is not passed in API call then all permitted CDA sections are returned. If passed with comma separated CDA sections then only requested CDA sections are returned. For details refer to Table No: 3.2 for all sections. For example if user needs to retrieve Patient Name and Medications sections then value for the parameter needs to be specified as “PatientName,Medications”

SessionID	String	Yes	This value should be provided same as “Session ID” field in the response of “User Authentication” API call. Please refer to Table No. 1.2

Refer Table No: 3.2 for CDA sections for Data Category parameter and data filter from Table 3.1

Table No: 3.2 – CDA Sections

Section Name	Data Category Value	Output Data	Date Column on which data is Filtered
Patient Name	PatientName	Demographics	NA
Sex	Sex	Demographics	NA
Date of Birth	DateofBirth	Demographics	NA
Race	Race	Demographics	NA
Ethnicity	Ethnicity	Demographics	NA
Preferred Language	PreferredLanguage	Demographics	NA
Smoking Status	SmokingStatus	Demographics, Smoking Status	Start Date
Problems	Problems	Demographics, Problems	Effective Dates
Medications	Medications	Demographics, Medications	Verified on
Medication Allergies	MedicationAllergies	Demographics, Medication Allergies	Occur Date
Laboratory Tests	LaboratoryTests	Demographics, Laboratory Tests	Effective Start Date(Present in Plan Of Treatment)
Laboratory Values(s)/Result(s)	LaboratoryValues	Demographics, Laboratory Values(s)/Result(s)	Order Date (Present in Order and Results)
Vital Signs	VitalSigns	Demographics, Vital Signs	Date
Procedures	Procedures	Demographics, Procedures	Service Date
Care Team Member(s)	CareTeamMembers	Demographics, Care Team Member(s)	NA
Immunizations	Immunizations	Demographics,	Administered/Reported Date

		Immunizations	
Unique Device Identifier(s) for a Patient's Implantable Device(s)	ImplantableDevices	Demographics, Unique Device Identifier(s) for a Patient's Implantable Device(s)	NA
Assessment	Assessments	Demographics, Assessment	NA
Plan of Treatment	TreatmentPlans	Demographics, Plan of Treatment	NA
Goals	Goals	Demographics, Goals	NA
Health Concerns	HealthConcerns	Demographics, Health Concerns	NA
Care Plan	CarePlan	Demographics, CarePlan	NA
Provider Name	ProviderName	Demographics, ProviderName	NA
Provider Office Contact Information	ProviderOfficeContact Information	Demographics, ProviderOfficeContactInformation	NA
Family History	FamilyHistory	Demographics, FamilyHistory	NA
Clinical Instructions	ClinicalInstructions	Demographics, ClinicalInstructions	NA
Encounter Diagnoses	EncounterDiagnoses	Demographics, EncounterDiagnoses	NA
Mental Status	MentalStatus	Demographics, MentalStatus	NA
Reason for Referral	ReasonforReferral	Demographics, ReasonforReferral	NA
Functional Status	FunctionalStatus	Demographics, FunctionalStatus	NA
Referring Providers	ReferringProviders	Demographics, ReferringProviders	NA
Date and Location of Visit	VisitDateAndLocation	Demographics, DateLocationofVisit	NA

Success Response: On successful request following response will be returned:

```
<ClinicalDocument classCode="DOCCLIN" xmlns="urn:hl7-org:v3"
xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-
instance" xmlns:voc="urn:hl7-org:v3/voc" xmlns:sdtc="urn:hl7-org:sdtc">
[CDA XML Content]
```

```
</ClinicalDocument>
```

Refer Table No: 3.3 for success parameter details:

Table No: 3.3- Parameter Details

Node Name	Data Type	Details
Clinical Document	XML Content	Contains the CDA response as per CDA 2.1 Release format.

Refer Table No: 3.4 for the error response details:

Table No: 3.4 - Error Response

Error Code	Error Description
S3001	Reserved for internal use
S3002	PatientUID cannot be Null or Empty
S3003	PatientUID should be in numeric format
S3004	Enter To date
S3005	Enter From date
S3006	Invalid From date
S3007	Invalid To date
S3008	From Date cannot be greater than To date
S3009	Invalid user or user is not Authorized to use this service, please contact practice administrator OR Invalid SessionId
S3010	Invalid PatientId

Refer Table No: 3.5 for the exception handling details:

Table No: 3.5 – Exception Handling

Exception Code	Exception Description
400	Bad Request The server encountered an error processing the request.
500	Internal Server Error

Legends

NA: Not Applicable.

Publicly available URL for this documentation

This document will be publicly available at

https://apiservices.triarqclouds.com/api/APIDocumentation.pdf

Terms of Use

Thank you for using our API's. By accessing or using our APIs, you are agreeing to the terms below. If there is a conflict between these terms and additional terms applicable to a given API, the additional terms will control for that conflict. Collectively, we refer to the terms below, any additional terms, terms within the accompanying API documentation, and any applicable policies and guidelines as the "Terms." You agree to comply with the Terms and that the Terms control your relationship with us. So please read all the Terms carefully. If you use the APIs as an interface to, or in conjunction with other products or services, then the terms for those other products or services also apply.

a. Accepting the Terms

You may not use the APIs and may not accept the Terms if you are not of legal age to form a binding contract with us.

b. Entity Level Acceptance

If you are using the APIs on behalf of an entity, you represent and warrant that you have authority to bind that entity to the Terms and by accepting the Terms, you are doing so on behalf of that entity (and all references to "you" in the Terms refer to that entity).

c. Registration

To access certain APIs, you may be required to provide certain information (such as identification or contact details) as part of the registration process for the APIs, or as part of your continued use of the APIs. Any registration information you give to us will always be accurate and up to date and you'll inform us promptly of any updates.

d. API Prohibitions

When using the APIs, you may not (or allow those acting on your behalf to):

- Sublicense an API for use by a third party. Consequently, you will not create an API Client that functions substantially the same as the APIs and offer it for use by third parties.
- Perform an action with the intent of introducing to our products and services any viruses, worms, defects, Trojan horses, malware, or any items of a destructive nature.

- Defame, abuse, harass, stalk, or threaten others.
- Interfere with or disrupt the APIs or the servers or networks providing the APIs.
- Promote or facilitate unlawful online gambling or disruptive commercial messages or advertisements.
- Reverse engineer or attempt to extract the source code from any API or any related software, except to the extent that this restriction is expressly prohibited by applicable law.
- Use the APIs for any activities where the use or failure of the APIs could lead to death, personal injury, or environmental damage (such as the operation of nuclear facilities, air traffic control, or life support systems).
- Remove, obscure, or alter any our terms of service or any links to or notices of those terms.