athenahealth

Data Dictionary for athenaOne EHI Export

Ambulatory Clinical EHI Export

EHI Export Data Dictionary

Ambulatory Clinical EHI Export

Introduction

The Electronic Health Information (EHI) Export for athenaClinicals allows customers in the ambulatory setting to easily export clinical or healthcare data from patient records. Examples of datasets that can be exported are allergies, encounters, lab results, procedures, etc. Customers can choose to export all or selected athenaClinicals EHI datasets for a single patient, multiple patients, or all patients in the practices.

File Formats

- Clinical EHI Export data files are machine readable and are in a Newline Delimited JSON file format.
- The export also includes, wherever relevant, additional human readable files in XML, JPEG, PNG, TIFF or PDF formats, which contain patient health information. Examples include encounter summaries, imaging results, scanned clinical documents, etc.

Folder Structure & Naming Conventions

- Clinical EHI Export files are packaged in .zip files/ folders, which include individual .zip files/ folders corresponding to the healthcare datasets exported.
- Naming convention of the master .zip files that shall contain exported clinical data files will be as follows:

Use Case	File Naming Convention	Sample File Name
Single Patient EHI Export	**File name format:** EHIs_athenahealthcontextID_athenaPatient ID_exportdatetimestamp.zip	**File name:** EHIs_432_2_20230511041235.zip
Multi Patient EHI Export	**File name format:** CLINICALEHIs_internalExportID_PatientfirstnameRangeStart-RangeEnd_athenahealth context ID.zip. Note: The number of such zip files shall depend on the number of groups configured for the athena context ID and applicable EHI data sections. For every chart sharing group, the export ID on the file name shall be unique. **Mapping file name format:** mappingfile_internalExportID.zip	**File name:** CLINICALEHIs_1326558925_A-C_432.zip **Mapping file name:** mappingfile_1326558925.zip
Bulk/ All Patient EHI Export	A user would find: 1. Multiple json files based on number of chart sharing groups configured for the athena context ID and applicable EHI data sections. Note: for every chart	**JSON data file name:** 1330623081_ClinicalDocument_json.zip **Additional file name:** 1330623081_clinicaldocument_part1.zip **Mapping file name:**

Use Case	File Naming Convention	Sample File Name
	sharing group, the export ID on the file name shall be unique. 2. Additional folders that contain supporting documents or attachments if available (provided as images/pdf/html/etc.). 3. A mapping file providing ID to value mappings, that help in data reconciliation. 4. A data dictionary file with details of implemented data sections and links to data specifications. **JSON data file name format:** IntenalExportID_datasectionname_json.zip If the files are huge, a user may find a part number at the end of the file name of the JSON. **Additional folder name format:** InternalExportID_datasectionaname_part partnumber.zip **Mapping file name format:** Mappingfile_IntenalExportID.zip **Data dictionary file name format:** datadictionary_InternalExportID_ambulatory.zip	Mappingfile_1330623081.zip **Data dictionary filename:** Datadictionary_1330623081_ambulatory.zip

- The naming convention followed for the second level of folders applicable to single, multiple, and bulk patient exports are provided here.

Use Case	File Naming Convention	Sample File Name
Single Patient EHI Export	There shall be 'n' clinical zip files based on 'n' chart sharing groups configured for the Customer. **File name format:** PatientName_DateofBirth_ChartSharingGroupName_AthenaPatientID_AMB.zip	DOE-JOHN_07-10-1900_Test1_2_AMB.zip
Multi Patient EHI Export	There shall be 'n' zip files based on 'n' number of patients and one data dictionary file. **File name format:** PatientName_DateofBirth_ChartSharingGroupName_AthenaPatientID_AMB.zip **Data dictionary file name format:**	**File name:** DOE-JOHN_07-10-1900_Test1_2_AMB.zip **Data dictionary file name:** Data_dictionary.pdf

Use Case	File Naming Convention	Sample File Name
	Data_dictionary.pdf	
Bulk/All Patient EHI Export	**JSON data file name format:** Datasectionname.json **Format for folder inside additional folder:** datasectionname_files **Mapping File name format:** Mappingfile.json **Data dictionary filename format:** Data_dictionary.pdf	**JSON data file name:** ClinicalDocument.json **Folder inside additional folder:** clinicaldocument_files **Mapping file name:** Mappingfile.json **Data dictionary filename:** Data_Dictionary.pdf

- The naming convention followed for the final level of folders applicable to single, multiple, and bulk patient exports are provided here.

Use Case	File Naming Convention	Sample File Name
Single Patient EHI Export	For the given patient, a user would find: 1. Multiple json files based on applicable EHI data sections. 2. Additional folders that contain supporting documents or attachments if available (provided as images/pdf/html/etc.). 3. A mapping file providing ID to value mappings, that help in data reconciliation. 4. A data dictionary file with details of implemented data sections and links to data specifications. **JSON data file name format:** Datasectionname.json **Additional folder name format:** datasectionname_files **Format for files inside additional folder:** datasectionname_documentid.extension **If the additional folders also contain more than one attachment for a single document:** datasectionname_documentid_number.extension **Mapping File name format:** Mappingfile.json	**JSON data file:** Admin.json **Additional folder name:** admin_files **Files inside additional folder:** admin_571250.pdf or (if there are multiple attachments) admin_275038_1.png admin_275038_2.png **Mapping file name:** Mappingfile.json **Data dictionary filename:** Data_Dictionary.pdf

Use Case	File Naming Convention	Sample File Name
	Data dictionary filename format: Data_dictionary.pdf	
Multi Patient EHI Export	For every such patient, a user would find: 1. Multiple json files based on applicable EHI data sections. 2. Additional folders that contain supporting documents or attachments if available (provided as images/pdf/html/etc.). **JSON data file name format:** Datasectionname.json **Additional folder name format:** datasectionname_files **Format for files inside folder:** datasectionname_documentid.extension **If the additional folders also contain more than one attachment for a single document:** datasectionname_documentid_number.extension	**JSON data file:** Admin.json **Additional folder name:** admin_files **Files inside additional folder:** admin_571250.pdf or (if there are multiple attachments) admin_275038_1.png admin_275038_2.png
Bulk/All Patient EHI Export	**Format for files inside additional folder:** datasectionname_documentid.extension **In case of more than one attachment for a single document:** datasectionname_documentid_number.extension	**Name of files inside additional folder:** Clinicaldocument_571250.pdf or (if there are multiple attachments) Clinicaldocument_275038_1.png Clinicaldocument_275038_2.png

General Instructions to Process Files & Reconcile Datasets

- Each .json file contains the relevant data if present for a patient or multiple patients depending on the export use case.
- Patient identifiers like FIRSTNAME, LASTNAME, DOB, SSN, ATHENA PATIENT ID, ENTERPRISE ID, MOBILE PHONE, HOME PHONE and ADDRESS are added at the beginning of each line which would help in patient matching and reconciling several datasets.
- For each JSON dataset that contains supporting files/ documents in .zip folders, a corresponding document folder in the same name will be present (for example: encounterdocumentfiles, followed by a part number in some cases when there are very high number of files).
- Follow the "reference" element in the corresponding .json file (for example: encounterdocument.json) to know the file path of each document, pertaining to a given patient.
- Some JSON files shall also have key transaction or business identifiers added to help with reconciliation. For example Procedure outcomes, shall have the pertinent encounter IDs added to ensure such datasets can be reconciled to give a meaningful Encounter level dataset.

Clinical EHI Export Dataset List & Specifications

For athenaClinicals ambulatory, EHI Export includes the datasets below. Please click the individual datasets listed below to view the specifications, such as element level definitions.

If your dataset in question does not open a link, please scroll down to the next section on this page. Some datasets listed below may have their output files combined into one JSON. Please be sure to read the next section to understand the structure of such JSON files.

Dataset Name	Dataset Specifications
Admin Documents	https://docs.athenahealth.com/api/api-ref/document-type-admin-document#Get-patient's-admin-document
Allergies	https://docs.athenahealth.com/api/api-ref/allergy#Get-patient's-allergies
Assessment and Plan	https://docs.athenahealth.com/api/api-ref/patient-goals
Cancer Cases	https://docs.athenahealth.com/api/api-ref/cancer-cases#Get-open-cancer-cases-for-the-patient-and-department.
Care Plan	CarePlan | API Solutions (athenahealth.com)
Care Plan Events	*Please scroll down to find specifications for this dataset in the next section.*
Care Team Members	https://docs.athenahealth.com/api/fhir-r4/care-team
Chart Alert	Chart Alert | API Solutions (athenahealth.com)
Chief Complaint (also known as reason for visit or encounter reason)	https://docs.athenahealth.com/api/api-ref/encounter-reasons
Clinical Documents (includes Mental Health Consult Documents)	https://docs.athenahealth.com/api/api-ref/document-type-clinical-document#Get-patient's-clinical-document
Corrective Lens	https://docs.athenahealth.com/api/api-ref/document-type-corrective-lens#Document-Type---Corrective-Lens
Default Clinical Providers – Lab	https://docs.athenahealth.com/api/api-ref/default-lab
Default Clinical Providers - Imaging	https://docs.athenahealth.com/api/api-ref/preferred-imaging
Default Clinical Providers – Pharmacy	https://docs.athenahealth.com/api/api-ref/default-pharmacy
Devices or Medical Equipment	https://docs.athenahealth.com/api/fhir-r4/device
DME Orders	https://docs.athenahealth.com/api/api-ref/document-type-durable-medical-equipment-dme#Get-patient's-DME-document
Encounter Documents	https://docs.athenahealth.com/api/api-ref/document-type-encounter-document#Get-list-of-patient's-encounter-documents
Encounters	https://docs.athenahealth.com/api/fhir-r4/encounter
Encounter Phone Call Checklists (Pre-Admission and Post-Discharge)	https://docs.athenahealth.com/api/api-ref/procedure-codes?f=athena#Get-surgical-case-content-in-given-clinical-note/procedure-encounter-and-encounter-location
Encounter Summary	https://docs.athenahealth.com/api/api-ref/encounter-chart#Get-encounter-specific-encounter-summary-content
Eye Care Specific Measurements	https://docs.athenahealth.com/api/api-ref/eye-care-measurements
Family History	https://docs.athenahealth.com/api/api-ref/family-history#Get-patient's-family-history
Goals	https://docs.athenahealth.com/api/fhir-r4/goal
GYN History	https://docs.athenahealth.com/api/api-ref/gyn-history#Get-patient's-GYN-history

Dataset Name	Dataset Specifications
Health Concerns – Conditions & Problems	https://docs.athenahealth.com/api/fhir-r4/condition
History of Present Illness	https://docs.athenahealth.com/api/api-ref/hpi-findings#Get-HPI-findings-for-given-encounter
Imaging Results	https://docs.athenahealth.com/api/api-ref/document-type-imaging-result#Get-list-of-patient's-imaging-result-documents
Immunizations	https://docs.athenahealth.com/api/fhir-r4/immunization?f=r4
Interpretations	https://docs.athenahealth.com/api/api-ref/document-type-lab-result#Get-patient's-interpretation-document
Lab Results	https://docs.athenahealth.com/api/api-ref/document-type-lab-result
Letters	https://docs.athenahealth.com/api/api-ref/document-type-letter#Get-patient's-letter-document
Letter Action Notes	Document Type - Letter	API Solutions (athenahealth.com)
Medical Record Documents	https://docs.athenahealth.com/api/api-ref/document-type-medical-record#Get-patient's-medical-record-document
Medications (includes Procedure Medications, Denied Medications, Prescribed Vaccines)	https://docs.athenahealth.com/api/fhir-r4/medication-request?f=r4
OB Episodes	https://docs.athenahealth.com/api/api-ref/ob-episode#Get-specific-OB-episode-details
OB Episode Summary	https://docs.athenahealth.com/api/api-ref/document-type-acog-document#Get-one-patient's-ACOG-document
OB Episode Summary Documents	https://docs.athenahealth.com/api/api-ref/document-type-acog-document#Get-HTML-formatted-details-from-ACOG-document
OB History (includes Past Pregnancies)	https://docs.athenahealth.com/api/api-ref/gpal#Get-patient's-GPAL-history
Observations (includes Vital Measurements)	https://docs.athenahealth.com/api/fhir-r4/observation
Office Note	https://docs.athenahealth.com/api/api-ref/document-type-office-note#Document-Type---Office-Note
Orders – Labs, Imaging, Consult & Procedures	Document Type - Order	API Solutions (athenahealth.com)
Other CCDAs	https://docs.athenahealth.com/api/api-ref/document#Get-XML-from-document
Past Medical History	https://docs.athenahealth.com/api/api-ref/medical-history#Get-patient's-medical-history-data
Patient Cases	https://docs.athenahealth.com/api/api-ref/document-type-patient-case#Get-list-of-patient-cases-for-given-patient

Dataset Name	Dataset Specifications
Perinatal History	https://docs.athenahealth.com/api/api-ref/perinatal-history#Get-patient's-perinatal-history
Physical Exam	https://docs.athenahealth.com/api/api-ref/physical-exam#Get-list-of-physical-exam-findings-and-notes-for-given-encounter
Physician Authorization	https://docs.athenahealth.com/api/api-ref/document-type-physician-authorization#Get-list-of-physician-authorizations-for-given-patient
Prescription Documents	https://docs.athenahealth.com/api/api-ref/document-type-prescription#Get-list-of-prescriptions-for-given-patient
Procedures	https://docs.athenahealth.com/api/fhir-r4/procedure
Procedures Documentation (includes outcomes)	https://docs.athenahealth.com/api/api-ref/procedure-codes#Get-procedure-documentation-for-given-encounter
Procedure Roles	Procedure Codes	API Solutions (athenahealth.com)
Procedure Times	Procedure Codes	API Solutions (athenahealth.com)
Procedure Timeout Checklist	Procedure Codes	API Solutions (athenahealth.com)
Procedure Vitals (Pre/Intra/Post)	Procedure Codes	API Solutions (athenahealth.com)
Pre-sedation Assessment	Procedure Codes	API Solutions (athenahealth.com)
PT Episode	https://docs.athenahealth.com/api/api-ref/physical-therapy-episode#Get-patient's-list-of-PT-Episodes
Review of Systems	https://docs.athenahealth.com/api/api-ref/review-systems#Get-review-of-systems-findings-and-notes-for-given-encounter
Screening	Screening Questionnaire	API Solutions (athenahealth.com)
Social History	https://docs.athenahealth.com/api/api-ref/social-history#Get-patient's-social-history-data
Surgery Action Notes	Document Type - Surgery	API Solutions (athenahealth.com)
Surgical History	https://docs.athenahealth.com/api/api-ref/surgical-history#Get-patient's-surgical-history-data
Surgical Orders	https://docs.athenahealth.com/api/api-ref/document-type-surgery
Surgical Results	https://docs.athenahealth.com/api/api-ref/document-type-surgery#Get-list-of-surgical-results-documents
Topic of Discussion	https://docs.athenahealth.com/api/api-ref/patient-goals
Vitals	https://docs.athenahealth.com/api/api-ref/vitals#List-patient's-vitals-from-all-sources

Other Specifications for Ambulatory Clinical EHI Export

Care Plan Events

This dataset provides details of events recorded against care plans created in the patient's record.

Input Parameters

Name	Type	Description
{departmentid} (required)	integer	The department ID used to determine the Patient record
{patientid} (required)	integer	The patient ID used to determine the Patient record

Output parameters

Name	Type	Description
careevents	string	The return of the method to Get the Care Events from a Patient record
chartid	string	The id of the chart this care event is related to
eventid	string	The care event id
lastmodified	string	The last modified time in UTC time
eventtime	string	The event time in UTC
createdby	string	The user who created the Care Event
type	string	The type of the care event (one of Remote, InPerson, or Documentation)
summary	string	The summary of the care event
duration	integer	The duration of the care event in seconds
lastmodifiedby	string	The user who last modified the Care Event
created	string	The created time in UTC time

Eye Care Measurement

This dataset provides combined details of all eye care measurement data recorded against specific encounters. The output of this combined dataset will provide the following data sections at an encounter level.

Name	Type	Description
Encounter ID	string	Encounter identifier. The following section and their sets of elements shall be available for every applicable encounter.
Vision correction elements	N/A	Set of elements pertaining to vision correction and their readings recorded.
Eye dilation elements	N/A	Set of elements pertaining to eye dilation and their readings recorded.
Intraocular pressure elements	N/A	Set of elements pertaining to intraocular pressure and their readings recorded.
Visual acuity elements	N/A	Set of elements pertaining to visual acuity and their readings recorded.