CADASTO

Cadasto CDR

openEHR conformance statement

July 2026

Document revision history

Version	Description of Changes
July 2026	Updated conformance statement due to the new release of ITS-REST version 1.1.0 published by openEHR international on 19 July 2026.
June 2026	First publicly published Cadasto CDR openEHR conformance statement

Note: Future revisions will be recorded in this table.

Introduction

This Conformance Statement is a formal document that describes the extent to which the Cadasto Clinical Data Repository (CDR) conforms to the openEHR specifications. It provides a transparent overview of the specific components of the openEHR standard that have been implemented, including supported features, services, optional elements and any deliberate limitations.

This Conformance Statement shows exactly which parts of the openEHR specifications Cadasto has implemented. We focus on the components that matter most for a production Clinical Data Repository while taking a pragmatic approach to areas with limited adoption or better alternatives in the current market.

The figure below illustrates the structure of the openEHR specifications. It shows how the standard is organised into layers, including Information Models (such as the Reference Model for EHR and Demographics), Implementation Technology Specifications (for APIs and data formats) and Conformance requirements. This Conformance Statement maps Cadasto's implementation against these categories, demonstrating comprehensive coverage of the core openEHR stack.

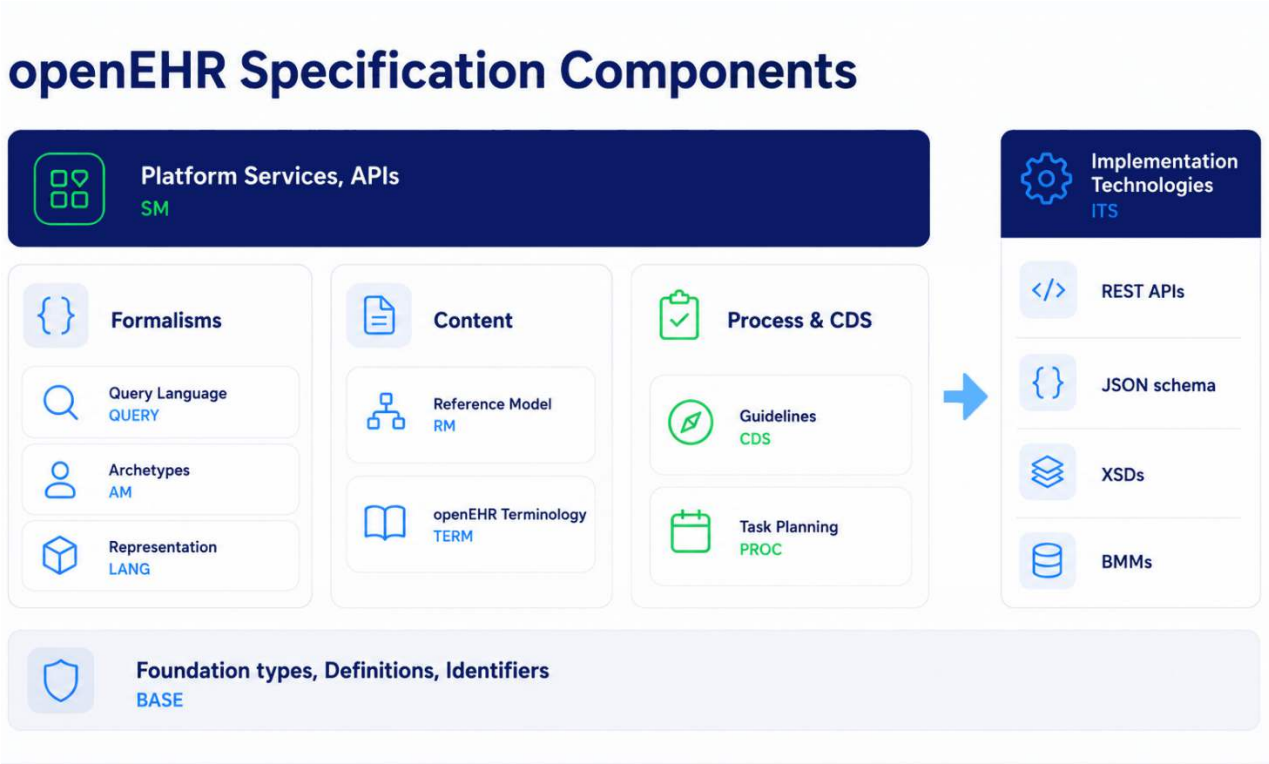

Figure 1: Structure of the openEHR specifications and how this Conformance Statement maps against them (source: https://specifications.openehr.org/).

References

This conformance statement is aligned with the official openEHR specifications and governance framework maintained by openEHR International. For the complete and authoritative specifications, please refer to:

- openEHR Specification Program: https://openehr.org/specification-program/
- openEHR Specifications Repository: https://specifications.openehr.org/

Executive Summary

This Conformance Statement sets out Cadasto's implementation of the openEHR specifications in its Clinical Data Repository.

Cadasto demonstrates strong conformance to the core openEHR components required for a production Clinical Data Repository. We fully support the Reference Model (version 1.1.0) for Clinical and Demographic data, Archetype Query Language (AQL 1.1.0), Archetype Technology based on ADL 1.4 (AM 2.3.0), Terminology services (2.3.0) and all core (ITS-REST 1.1.0) APIs (System, EHR, Query, Definition, Demographic, Admin) and SMART. We also provide a bidirectional FHIR Façade, with optional FHIR Connect which is handled via external system integration.

We have chosen not to implement several specifications:

- The Simplified Formats (flat, structured) of ITS-REST is not supported. Instead, we provide Datamap, a simpler JSON format that we consider more practical for most development and integration work.
- Guideline Definition Language (GDL 2.0.1) is not implemented in the Cadasto CDR itself. Clinical decision support is handled via external integration.
- The Integration and EHR Extract parts of the Reference Model are not implemented. These are not required for core CDR operation, and we offer equivalent functionality through Datamap, AQL-based queries, FHIR Façade and Federation (as optional separate product).
- Advanced Archetype Model (ADL 2.0 / AOM 2) is not implemented due to limited market adoption. We have no current plans to add support for this.

The XML Schema specifications (ITS-XML) are marked as not applicable, as they are not runtime requirements for a Clinical Data Repository.

Beyond core conformance, the document highlights several additional capabilities that support practical use of the platform:

- Datamap for simplified data access (JSON)
- a FHIR R3 Façade (with R4/R5 support planned for later in 2026)
- SMART-on-openEHR for App portability across different CDR's

Cadasto is also active in the openEHR community, one of our co-owners serves as Co-Chair of the Specifications Editorial Committee and we are working with a third party to establish a formal process for independent conformance audits.

In summary, this statement shows that Cadasto has implemented the openEHR specifications needed for a robust production Clinical Data Repository, while taking a pragmatic approach in areas where full conformance delivers limited practical benefit. This document provides a transparent view of what has been implemented and the rationale behind the choices made.

1. openEHR Implementation Technologies

1.1. APIs (ITS-REST)

Component	Description	openEHR specification version	Implementation status	Notes
Overview	REST API Overview	Stable	Fully supported	-
System API	Available Options & Conformance	Stable	Fully supported	
EHR API	Management of EHR data	Stable	Fully supported	-
Query API	Execute Queries	Stable	Fully supported	-
Definition API	Management of Templates	Stable	Fully supported	-
Demographic API	Management of Demographic data	Development	Fully supported	-
Admin API	Admin management of EHRs	Development	Fully supported	-
Formats*	Simplified Formats (flat, structured)	Stable	Not implemented	Datamap is provided
SMART	Support for App portability	Development 1.1.0	Fully supported	-
OAS 3.0	REST API OpenAPI files	Trial	Not applicable	Is not a CDR runtime requirement
ITS-REST overall*	REST API specifications	1.1.0	Largely conformant	Latest version is 1.1.0

***Note:** Although Cadasto fully supports all core ITS-REST APIs (System, EHR, Query, Definition, Demographic, Admin) and SMART, it does not currently support Simplified Formats (flat, structured). Datamap is provided instead as a simpler and more developer-friendly JSON format for search, read and write operations.*

1.2. Schemas (ITS-XML)

Component	Description	openEHR specification version	Implementation status	Notes
AM 1.4 XSDs	Schema for Archetype Model 1.4	Trial	Not applicable	Is not a CDR runtime requirement
AM 2 XSDs	Schema for Archetype Model 2	Trial	Not applicable	Is not a CDR runtime requirement
BASE XSDs	Schema for openEHR BASE	Trial	Not applicable	Is not a CDR runtime requirement
RM XSDs	Schema for Reference Model	Trial	Not applicable	Is not a CDR runtime requirement
OET XSDs	Schema for Source Template OET	Trial	Not applicable	Is not a CDR runtime requirement
QUERY XSDs	Schema for AQL QUERY	Trial	Not applicable	Is not a CDR runtime requirement
openEHR XSDs v1	All v1 XML Schemas (XSDs)	Stable	Not applicable	Is not a CDR runtime requirement
ITS-XML overall*	XML Schemas	2.0.0	Not applicable	Latest version is 2.0.0

Note: *These XSDs are published by openEHR for validation and data exchange. They are not a CDR runtime requirement and therefore marked 'Not applicable' for implementation status.*

2. openEHR Abstract Specifications

2.1. Process and CDS

Component	Description	openEHR specification version	Implementation status	Notes
GDL2*	Guideline Definition Language	2.0.1	Not implemented	Latest version is 2.0.1

***Note:** Usage of Guideline Definition Language (Clinical Decision Support) is handled via external system integration (see External commercial solutions).*

2.2. Content (Reference Model – RM)

Component	Description	openEHR specification version	Implementation status	Notes
EHR	Top-level health record info model	Stable	Fully supported	-
Demographic	Top-level demographics info model	Stable	Fully supported	-
Common	Common semantic patterns and structures	Stable	Fully supported	-
Data Structures	Information model of data structures	Stable	Fully supported	-
Data Types	Information model of data types.	Stable	Fully supported	-
Support	Terminology and Measurement service interfaces	Stable	Fully supported	-
Integration*	Model of free-form external system data	Stable	Not implemented	-
EHR Extract*	Top-level EHR Extract request/response model	Stable	Not implemented	-
RM overall	Reference Model	1.1.0	Fully supported	Latest version is 1.1.0

***Note:** Integration and EHR Extract are part of the Reference Model but are not required for core CDR runtime operations. Cadasto supports equivalent functionality for legacy/external data integration and extracts via Datamap, AQL-based queries, FHIR Façade and Federation (as optional separate product). These provide more flexible, modern interoperability options aligned with current market needs.*

2.3. Terminology (TERM)

Component	Description	openEHR specification version	Implementation status	Notes
Support Terminology	Support Terminology and code-sets	Stable	Fully supported	-
openEHR Terminology	openEHR Terminology XML file (English)	Stable	Fully supported	-
External terminologies	External Terminologies	Stable	Fully supported	-
PropertyUnitData .xml	Properties and Units used by ADL-tools	Stable	Not applicable	Is not a CDR runtime requirement Needed for Archetype Designer
TERM overall*	openEHR Terminology	2.3.0	Fully supported	Latest version is 3.0.0

Note: *Cadasto is compliant with version 2.3.0 of the Term specifications. The latest openEHR Term specifications is version 3.0.0 and introduces primarily translation and maintenance improvements with no material impact on core CDR runtime behaviour.*

2.4. Formalisms

QUERY

Component	Description	openEHR specification version	Cadasto compliance	Notes
AQL	Archetype Query Language	Stable	Fully supported	-
AQL Examples	Examples of AQL use	Development 1.1.0	Not applicable	Is not a CDR runtime requirement
QUERY overall	Query Languages	1.1.0	Fully supported	Latest version is 1.1.0

AM (Archetype Model)

Component	Description	openEHR specification version	Implementation status	Notes
Archetype Technology	Overview of archetype technology	Stable	Fully supported	-
ADL 2 / AOM 2*	ADL version 2 specifications	Stable	Not implemented	Limited market adoption
Identification	Formal model of identifiers, versioning and lifecycle	Stable	Fully supported	-
ADL 1.4	Archetype Definition Language	Stable	Fully supported	-
AOM 1.4	Archetype Object Model	Stable	Fully supported	-
OPT 1.4	Operational Template	Stable	Fully supported	-
Archetype Profile	Specification of plug-in semantics	Stable	Fully supported	-
AM overall	Archetype Model	2.3.0	Fully supported	Latest version is 2.3.0

***Note:** Support for ADL 2 / AOM 2 is not planned to implement due to limited market adoption.*

LANG (Generic Languages)

Component	Description	openEHR specification version	Implementation status	Notes
ODIN	ADL syntax formalism	Stable	Fully supported	-
BMM*	Basic Meta-Model	Trial	Not applicable	Is not a CDR runtime requirement
P_BMM	UML equivalent	Stable	Fully supported	-
Expression Language	The openEHR Expression Language (BMM)	Development 1.0.0	Not applicable	Is not a CDR runtime requirement
LANG overall	Generic Languages	1.0.0	Fully supported	Latest version is 1.0.0

***Note:** openEHR BMM (Basic Meta-Model) is a tooling technology and not a runtime requirement for a CDR*

2.5. Foundations (BASE)

Component	Description	openEHR specification version	Implementation status	Notes
Architecture Overview	"Read me first" document	Stable	Not applicable	Is not a CDR runtime requirement
Foundation Types	Required by all other openEHR specifications	Stable	Fully supported	-
Base Types	Used in other openEHR specifications	Stable	Fully supported	-
Resource Model	Formal model of authoring and IP meta-data, language translation and annotations	Stable	Fully supported	-
ISO 18308	Requirements for EHR Architectures	Stable	Not applicable	Is not a CDR runtime requirement
BASE overall	Base Model	1.2.0	Fully supported	Latest version is 1.2.0

Additional Cadasto CDR Features

Component	Description	Status	Notes
Datamap*	Simplified (JSON) data format	● Fully supported	Cadasto specific
FHIR Façade*	REST API FHIR R3 with Datamap	● Fully supported	FHIR R4/R5 is currently in development
FHIR Connect*	Bidirectional mapping specifications between openEHR and FHIR	● Supported via integration	-
Federation*	openEHR SEC proposal (EY)	● Fully supported	Separate product from Cadasto CDR

Note:

- *Datamap is a simplified format for search, read and write openEHR data through a simple JSON format (alias/openEHR path). This format accelerates the adoption of working with openEHR and App development.*
- *Cadasto delivers a FHIR Façade where FHIR messages can be mapped to openEHR objects and vice-versa for search, read and write actions. Because it is a FHIR façade the FHIR messages are not stored. Current supported version is FHIR R3 (with R4/R5 support planned for later in 2026).*
- *Support for FHIR Connect specifications is handled via external system integration (see External commercial solutions).*
- *Cadasto Federation is a separate product from Cadasto CDR. It is not an official openEHR specification and implements the SEC proposal developed by EY.*

Conformance verification

Implementation conformance has been validated through systematic internal alignment with official openEHR specifications, reference models and test data.

We are currently working with third-party partners to establish a formal independent audit process against the openEHR specifications. Sebastian Iancu, co-owner of Cadasto, also serves as Co-Chair of the openEHR Specifications Editorial Committee.

External commercial solutions

Several capabilities referenced in this Conformance Statement are delivered through external commercial products rather than being implemented inside the Cadasto CDR itself. Multiple vendors may offer compatible solutions over time; the products listed below are those currently used or referenced by Cadasto.

- **Guideline Definition Language (GDL) / Clinical Decision Support (CDS)**
  openEHR GDL support is provided through external integration.

Company	Reference
Cambio CDS	https://cambiouk.com/cambio-cds/cambio-cds-platform/ https://www.cambiogroup.com/our-solutions/cambio-cds-clinical-decision-support/

- **FHIR Connect**
  FHIR Connect support is provided through external integration.

Company	Reference
Syntaric openFHIR	https://open-fhir.com/ https://syntaric.com/

Cadasto does not endorse any particular vendor. The listings above are provided solely for transparency and to help readers locate working implementations of the referenced openEHR specifications (openEHR GDL and FHIR Connect). Other commercial or open-source solutions that conform to the same specifications may be used interchangeably.

Summary

The Cadasto Clinical Data Repository demonstrates strong and transparent conformance to the current openEHR Release baseline specifications.

This Conformance Statement enables healthcare organisations, system integrators and clinical partners to verify compatibility, assess integration effort and confidently adopt a vendor-neutral, semantically rich clinical data platform.

For questions about this document, requests for detailed technical evidence, or discussions on integration and partnership opportunities, please contact info@cadasto.com or visit https://www.cadasto.com/contact/

We encourage other openEHR CDR vendors to publish similar statements. Greater transparency across the community will accelerate openEHR adoption to achieve lifelong, patient-centric shared health record, future-proof data and clinical process support.

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The Structured Data Foundation for Care

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