

caDSR Wiki



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Related Links

- [Enterprise Vocabulary Services \(EVS\) wiki](#)
- [Training wiki](#)
- [Getting a caDSR Account](#)

CBIIT Links

- [NBIA Cancer Data Science website](#)
- [NCI Cancer Data Science on Twitter @ NCIDataSci](#)

Archived Materials

- [caDSR GForge project archive](#)
- [XMI and EA files \(under caDSR\)](#)
- [caDSR GForge Doc/Training archive](#)

Metadata Needs and Support

As more groups recorded their data elements in caDSR, the difficulty in creating high-quality names and definitions for data elements became recognized as a best practice for clarifying the meaning of the data, but also a challenge for data-element curators. Consequently, ISO 11179-5 Naming Principles were used to establish naming conventions that could be applied across groups. The same naming conventions are used in the National Information Exchange Model (NIEM). Since NCI had the EVS terminology services available, this was seen as a reasonable means by which to aid this task by giving curators access to well-formed and NCI-preferred names for concepts that form the name of the CDEs. At present, curators find concepts in EVS based on synonym or concept id searches, and the EVS preferred-term name and definition streamline their task. The challenge of ensuring that duplicate CDEs were not created led to leveraging the parts of the ISO 11179 metamodel along with a preference for the use of NCI concepts so the system could semi-automatically recognize and promote reuse of existing content. NCI is a specialized cancer terminology that includes additional knowledge from the literature about these concepts and is modeled as an OWL ontology where concepts have various types of relationships and mappings defined to other concepts. It also includes mappings to the UMLS where they exist. Therefore, a link to NCI concepts from caDSR content can help test similarity between CDEs. Links to NCI concepts can also provide access to researchers for exploring the meaning of a data that conforms to a given CDE in greater depth.

Although this activity began as a means to support CTEPs trials networks, the caDSR now supports a much wider audience. This includes clinical trials run by the NCI intramural program, the Center for Cancer Research (CCR), and Division of Cancer Prevention (DCP); Specialized programs of Research Excellence (SPORes), Cancer Centers and other academic medical centers, other NIH institutes and centers as well as standards groups such as CDISC and a variety of international partners.

A note on the term "Common Data Element" (CDE). While originally intended to mean a data element that was reused across groups, the term has come to mean any description of a variable and its valid values. In this document, we will use the standard NCI version of this definition, which is to say a variable description (including valid values) described in the caDSR using its implementation of the ISO 11179 variable, regardless of whether the element in question has been used more than once.

Information about caDSR Initiatives and Tools

This is the wiki home page for caDSR. You may edit pages if you are working on them with the authors. You are welcome to leave comments. This wiki includes the following.

- [caDSR Content](#)
Focuses on the Metadata Content within the caDSR and is most useful for consumers. The pages include Data Standards, Harmonization, Reuse and Business Rules that establish the capabilities of the caDSR Tools.
- [caDSR Database and Tools](#)
Provides access to caDSR tools and links to the tool summary page for current user documentation and technical information like release notes.
- [caDSR for Application Developers](#)
Focuses on the software interfaces to the caDSR available to programmers and software developers. The pages include details on the caDSR API, XML messages produced and consumed by the caDSR products and the caDSR UML Model.
- [caDSR Installation and Implementation](#)
Focuses on Open Source adoption of the [caDSR Database and Tools](#). The pages include ISO 11179 implementation extensions, software implementation architectures and Downloads.
- [caDSR Future Requirements](#)
We continually look at new requirements and have an initiative begun in 2014 to replace the aging software and infrastructure currently supporting caDSR end users. This is an opportunity to link our efforts more broadly with NIH wide CDE and metadata initiatives. Please see the [caDSR Requirements](#) pages for more information.

Documentation

For a complete list of current caDSR Tool user documentation, application guides, release notes, and FAQs, see the [caDSR Documentation wiki page](#).

Email Lists and Forums

List/Forum	Email address or URL	Description
caDSR End User Discussions forum	caDSR End User Discussions forum	For end user issues regarding the caDSR tools and content
caDSR Developer Discussions forum	caDSR Developer Discussions forum	For developer issues regarding the caDSR APIs and use of caDSR Metadata
caDSR Users List	CADSR_USERS@LIST.NIH.GOV	Archive for content users such as Curators
caDSR Developers List	CADSR_SOFTWARE_DEVELOPERS@LIST.NIH.GOV	Archive for developers using caDSR Metadata, such as UML Model owners (subscription required)
caDSR Tools Download List	CADSR_TOOLS_DOWNLOAD@LIST.NIH.GOV	For adopters
All NIH List Servers	None	Index of all NIH mail lists
NCI Application Support	NCIAppSupport@mail.nih.gov	Application Support

How to Cite caDSR

To cite the NCI Semantic Infrastructure, use the following reference.

Komatsoulis, G.A., Warzel, D.B., Hartel, F.W., Shanbhag, K, Chilukuri, R, Fragoso, G., de Coronado, S, Reeves, D.M., Hadfield, J.B., Ludet, C., and P.A. Covitz (2007) "caCORE version 3: Implementation of a model driven, service-oriented architecture for semantic interoperability." *Journal of Biomedical Informatics*. 2008 February; 41(1): 106--123. Published online 2007 April 2. doi: 10.1016/j.jbi.2007.03.009.

To cite the caDSR Form Builder general software, use the following reference.

NCI caDSR Form Builder. <<https://formbuilder.nci.nih.gov/FormBuilder/formSearchAction.do>> National Cancer Institute, Center for Biomedical Informatics and Information Technology, 01 Oct. 2010. Web. 17 Jan. 2013.

To cite a specific collection of forms in caDSR, use a reference like the following.

"[Protocol or Classification Scheme Name]." [Context name], [Node name], NCI caDSR Form Builder. <<https://formbuilder.nci.nih.gov>> National Cancer Institute, Center for Biomedical Informatics and Information Technology, 01 Oct. 2010. Web. 17 Jan. 2013

Example: "CALGB: 10603 Treatment Form ." CTEP, Protocol Forms, NCI caDSR Form Builder. <<https://formbuilder.nci.nih.gov>> National Cancer Institute, Center for Biomedical Informatics and Information Technology, 01 Oct. 2010. Web. 17 Jan. 2013

To cite caDSR CDE Browser software, use a reference like the following.

NCI caDSR CDE Browser. <<https://cdebrowser.nci.nih.gov>> National Cancer Institute, Center for Biomedical Informatics and Information Technology, 01 Oct. 2010. Web. 17 Jan. 2013.

To cite caDSR CDEs in a particular collection or group, use a reference like the following.

"[Classification Scheme Name]." [Context name], [Node name], NCI caDSR CDE Browser. <<https://cdebrowser.nci.nih.gov>> National Cancer Institute, Center for Biomedical Informatics and Information Technology, 01 Oct. 2010. Web. 17 Jan. 2013.

Example: "NAACCR 11.1." PS & CC (NCI Population Sciences & Cancer Control), Classifications, Division of Population Cancer Control and Population Sciences, NCI caDSR CDE Browser. <<https://cdebrowser.nci.nih.gov>> National Cancer Institute, Center for Biomedical Informatics and Information Technology, 01 Oct. 2010. Web. 17 Jan. 2013