

Eiffel Tools Project

Description

The Eiffel tools project currently develops and maintains the ADL reference parser and the ADL workbench, which is a GUI tool based around the parser. The ADL Workbench allows whole repositories of archetypes to be browsed and compiled; it also allows batch changes to be done to a repository of archetypes. Editing and more advanced browsing features are being added.

Vital Statistics

Project Team	Thomas Beale, Peter Gummer
Project Mailing list	Post - ref_impl_eiffel@openehr.org ¹ List page - http://www.chime.ucl.ac.uk/mailman/listinfo/ref_impl_eiffel
ARB change managed	No
Language(s) & Technologies	Eiffel (ECMA-367 ³); available at Eiffel Software ⁴ (free; dual license ⁵).
Downloads	See ADL help & release page ⁶
Issue reporting	<ul style="list-style-type: none">• Problem Reports⁷• Change Requests⁸
Source repository	Subversion repository name = ref_impl_eiffel <ul style="list-style-type: none">• wsvn web view⁹• developer URLs:<ul style="list-style-type: none">• top: http://www.openehr.org/svn/ref_impl_eiffel/• Trunk URL: http://www.openehr.org/svn/ref_impl_eiffel/TRUNK• ADL 1.5 branch: http://www.openehr.org/svn/ref_impl_eiffel/BRANCHES
Status	Currently maintained by Ocean Informatics

1. mailto:ref_impl_eiffel@openehr.org

2. http://eiffel.com/general/eiffel_standard_367.html

4. <http://eiffel.com/>

5. http://eiffel.com/general/news/2006/2006_04_05_pr.html

6. http://www.openehr.org/svn/ref_impl_eiffel/TRUNK/apps/adl_workbench/doc/web/index.html

7. <http://www.openehr.org/issues/browse/AWBPR>

8. <http://www.openehr.org/issues/browse/AWB>

9. http://www.openehr.org/wsvn/ref_impl_eiffel/?sc=0

Description

The *openEHR ref_impl_eiffel* repository contains the reference implementation of the *openEHR* reference model. In it are implementations of all the specifications, in the form of libraries, as well as binary components and applications built from the libraries.

Adl tools - adl_workbench, ADL parser DLLs

This part of the repository contains libraries and tools implementing the Archetype Definition Language (ADL). It also includes a complete Java (JNI) wrapping of the reference parser, enabling it to be used in a Java application.

The ADL (Archetype Definition Language - specification) reference tools project has as its aim to develop tools which implement:

- the **reference ADL parser**, including various ADL serialisers (to HTML, XML etc)
- **adl_workbench**: an ADL viewer and tester application ([help page](#)¹³)

Developers

To get started, checkout the project from the subversion repository. On Windows, TortoiseSVN is easiest for this (see the [subversion guide pages](#)¹⁴ if you have not set it up). To do the checkout, follow these steps:

- set up an openEHR root directory, e.g. c:\project\openEHR
- create a sub-directory ref_impl_eiffel for this project
- using Tortoise, do a checkout of http://www.openehr.org/svn/ref_impl_eiffel/TRUNK into the ref_impl_eiffel directory.

Now follow the detailed instructions for exploring and building the project on the [developer page](#)¹⁶.

News

- - 28 Sep 2010 ADL 1.5 beta Release 2 ([SVN rev 1247](#)¹⁷)
 - **22/Mar/2009**: [Release 1.5.0.851](#)¹⁸ - Reference Model checking, improved validation
 - **02/Apr/2008**: [Release 1.4.1](#)¹⁹ - specialisation and repository-wide compilation
 - **26/Feb/2007**: new GUI for translations, languages. Various bugs fixed in slot expressions.
 - **10/Jan/2007**: Inheritance visualisation, merged archetype repositories, C_DV_XX class rename.
 - **14/Sep/2006**: Addition of Tester facility.
 - **02/Sep/2006**: numerous GUI improvements to ADL workbench.
 - **14/May/2006**: numerous fixes and some enhancements to ADL applications and DLL. Now ADL 1.4-compliant
 - **02/Apr/2006**: fix minor bugs in logical paths, dADL text whitespace, Save As in workbench.
- 13. http://www.openehr.org/svn/ref_impl_eiffel/TRUNK/apps/adl_workbench/doc/web/index.html
- **28/Mar/2006**: support multiple simultaneous Archetypes in memory for DLL version; removed dADL newline problem.
- 14. [daisy64-OE \(Using Subversion on openEHR\)](#)
- 16. http://www.openehr.org/svn/ref_impl_eiffel/TRUNK/developer_page.htm
- **21/Nov/2005**: upgraded to GOBO 3.4, added parser HTML documentation
- 17. http://www.openehr.org/svn/ref_impl_eiffel/%21svn/bc/1241/BRANCHES/specialisation/
- 18. http://www.openehr.org/svn/ref_impl_eiffel/BRANCHES/specialisation/apps/doc/adl_workbench_help_whats_new_20090222.htm
- 19. http://www.openehr.org/svn/ref_impl_eiffel/TAGS/Release-1.4.1/apps/doc/adl_workbench_help.htm

- **12/Nov/2005:** fixed DLL error (due to wrong conformance of generic types in .Net)
- **27/June/2005:** latest release implements class level invariants.
- **02/June/2005:** Proposal for ADL archetypes to be dADL documents. Compare [a current ADL file](#)²⁰ to [same archetype in dADL form](#)²¹.
- **30/May/2005:** Generic dADL / data tree structure processor; ARCHETYPE_DESCRIPTION now visible in GUI and dotNet interface.
- **05/May/2005:** assumed values implemented. See CR-000142.
- **23/March/2005:** 168 functions of the parser have been JNI-wrapped.
- **25/February/2005:** the parser has been upgraded to the new dADL syntax.
- **19/September/2004:** The GUI of the ADL workbench has been overhauled, and is more friendly. New support for custom domain types, such as [C_QUANTITY](#)²².
- **07/August/2004:** latest release of workbench adds an archetype explorer on the left hand side.
- **30/July/2004:** new release of ADL workbench and DLLs. Workbench contains a convenient explorer control.
- **05/May/2004:** uploaded ADL software, re-engineered to models in ADL 1.2 draft document.

20. <http://svn.openehr.org/knowledge/archetypes/dev/adl/openehr/ehr/entry/observation/openEHR-EHR-OBSERVATION.visual.v1.adl>

21. http://svn.openehr.org/ref_impl_eiffel/TRUNK/openEHR-EHR-OBSERVATION.visual.new.adl

22. http://www.openehr.org/repositories/archetype-dev/latest/adl/archetypes/test/clinical_types/adl-test-entry.c_quantity.draft.html