

# Glossary

COM2CORBA

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## This document

Summary This document defines important terms used by the project.

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## Document history

Version	Date	Changes
0.1.0	2009-02-27	Document created.
0.2.0	2009-02-28	Added terms from other documents.
0.3.0	2009-02-28	Applied document template.
0.3.1	2009-03-02	Sorting out sorting and insert sort of more terms.
1.0.0	2009-03-09	Version bump.
1.0.1	2009-05-18	Rearranged the explanations.
1.0.2	2009-05-24	Fixed the alphabetical order plus added more terms.

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# Chapter 1

## Terms

**Abstract Syntax Tree** AST is the internal representation of a by TAO frontend parsed IDL file. See ACE+TAO download , ACE\_ROOT/TAO/TAO\_IDL/DOCS/WRITING\_A\_BE, for details.

**ACE** Adaptive Communication Environment.

**Adaptive Communication Environment** ACE is a open-source framework to simplify various network programming issues. <http://www.cs.wustl.edu/~schmidt/ACE.html>

**AST** Abstract Syntax Tree.

**BAE Systems** British Aerospace Engineering Systems. A British defense contractor.

**COM** Component Object Model.

**COM2CORBA** A program that generates code that allows COM programs to communicate with CORBA services.

**Common Object Request Broker Architecture** CORBA is a open standard that describes a way to enable cooperation between programs regardless of implementation language. Standardized by the Object Management Group.

**Component Object Model** COM is a interface standard used to enable inter-process communication and dynamic object creation.

**CORBA** Common Object Request Broker Architecture.

**DLL** Dynamic Link Library.

**Dynamic Link Library** DLL is Microsoft's implementation of the shared library concept in the Microsoft Windows and OS/2 operating systems.

**EuroStep's Framework Wizard** A COM to CORBA code generator. Hägglands used it and designed their subsequent TAO based code generator to be compatible with it.

**FWIZ** EuroStep's Framework Wizard. Also Hägglands's TAO based codegenerator, designed to be compatible with EuroStep's product. COM2CORBA is modeled after the TAO version of FWIZ.

**Globally Unique Identifier** A number statistically guaranteed to be unique in the entire universe. Used to identify each COM interface.

**GUID** Globally Unique Identifier.

**Hägglands AB** A Swedish industrial manufacturer and defense contractor. The defense section is now a part of BAE Systems as BAE Systems Hägglands AB. <http://www.hagglunds.se/>

**IDA** The Department of Computer and Information Science at Linköping University, Sweden. <http://www.ida.liu.se/>

**IDL** Interface Definition Language.

**Interface Definition Language** IDL is used for describing the syntax between programs and their components or objects. Standardized by the Object Management Group.

**Object Description Language** Used to describe the characteristics of objects in COM. <http://msdn.microsoft.com/en-us/library/ms221683.aspx>

**ODL** Object Description Language.

**Object Management Group** Develops standards for integration and inter-system communications. <http://www.omg.org/>

**Oh my God** Generally used in conversations to exclaim surprise or disgust.

**OMG** Oh my God. Also Object Management Group.

**Preprocessor class** A COM2CORBA class that traverses the AST to extract and transform node information. This information is used by other visitors later on.

**Redmine** Flexible project management web application. <http://www.redmine.org/>

**Subversion** A version control system for code and other files, for example documents like this glossary. <http://subversion.tigris.org/>

**SVN** Subversion.

**TAO** The Ace ORB.

**The ACE ORB** TAO is a free open-source C++ implementation of CORBA based upon ACE. <http://www.cs.wustl.edu/~schmidt/TAO.html>

**TLB** Type Library

**Type Library** A file that contains type information for a COM object; a description about what the object contains and what you can do with it.

**Visitor pattern** A way to separate an algorithm from an object structure that it operates upon. [http://en.wikipedia.org/wiki/Visitor\\_pattern](http://en.wikipedia.org/wiki/Visitor_pattern)