

Eclipse Data Tools Platform (DTP) 1.8 Release Review

Eclipse DTP PMC
May 28, 2010



Introduction

- The Data Tools Platform (DTP) project provides APIs and exemplary implementations for creating Eclipse-based database and data access tooling.
- The DTP project was started in 2005 with primary contributions from Sybase, IBM, and Actuate.
- The DTP project has participated in each Eclipse release since Callisto.
- A number of projects and products make use of DTP, including the following:
 - BIRT (Actuate)
 - AWS Toolkit for Eclipse (Amazon)
 - Optim Developer Studio (IBM)
 - CAFÉ (Ingres)
 - Nexaweb Studio (Nexaweb)
 - JBoss Developer Studio (Red Hat)
 - Sybase Workspace

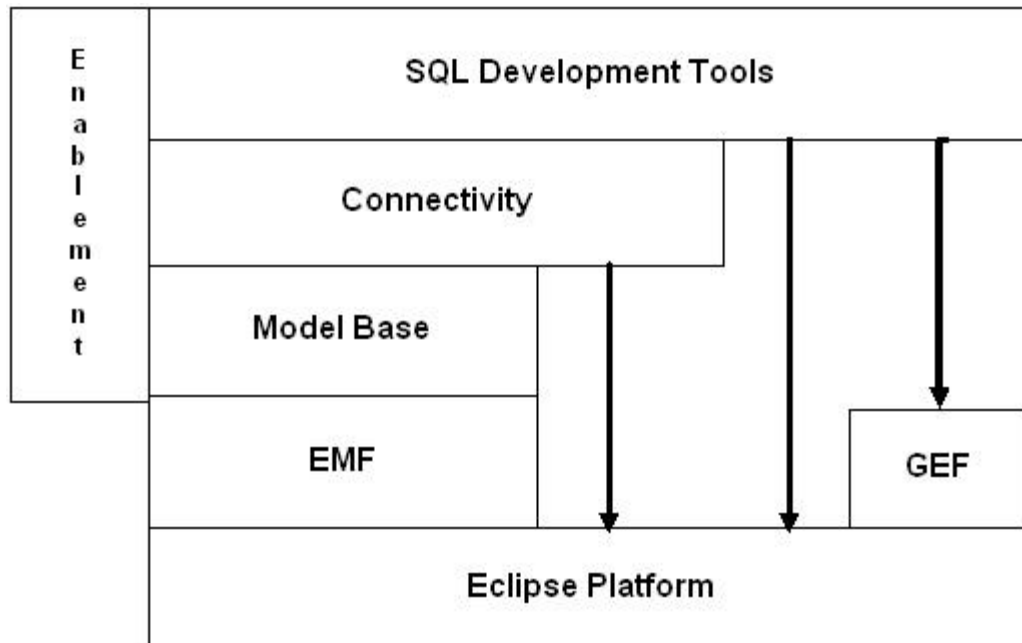
DTP Projects

The DTP top-level project includes the following sub-projects:

- **Connectivity:** frameworks and tools for connecting to data sources
- **Model Base:** core EMF models for DTP
- **SQL Development Tools:** frameworks and tools for working with SQL
- **Enablement:** data source specializations for DTP frameworks
- **Incubator:** new and upcoming projects for eventual inclusion in the main DTP sub-projects

DTP Architecture

High level architecture view, by project:



Themes for DTP 1.8 Release

- Enhance APIs to improve extensibility and replaceability
- Fix bugs
- Maintain stability for existing clients

Previous DTP Releases

- DTP 0.7 – April 7, 2006
- DTP 0.9 (Callisto) – June 30, 2006
- DTP 0.9.1 – September 2006
- DTP 1.0 – December 2006
- DTP 1.5 (Europa) – June 25, 2007
- DTP 1.5.1 – September 2007
- DTP 1.5.2 – February 2008
- DTP 1.6 (Ganymede) – June 25, 2008
- DTP 1.6.1 – September 2008
- DTP 1.6.2 – February 2009
- DTP 1.7 (Galileo) – June 26, 2009
- DTP 1.7.1 – September 2009
- DTP 1.7.2 – February 2010

DTP 1.8 Milestones

- M1: August 21, 2009
- M2: October 2, 2009
- M3: November 13, 2009
- M4: December 18, 2009
- M5: February 5, 2010
- M6: March 19, 2010
- M7: May 7, 2010
- RC1: May 17, 2010
- RC2: May 24, 2010
- RC3: May 31, 2010
- RC4: June 11, 2010
- RC5: June 18, 2010
- 1.8 Release: June 23, 2010

DTP 1.8 Target Platforms

- Build environment:
 - Eclipse 3.4.2
 - Dependencies: EMF 2.4.2, GEF 3.4.2
 - JVM: Sun J2SE 1.5
- Primary test platform:
 - Eclipse 3.4.2
 - Dependencies: EMF 2.4.2, GEF 3.4.2
 - JVM: J2SE 1.5
- Secondary test platform
 - Eclipse 3.6
 - Dependencies: EMF 2.6, GEF 3.6
 - JVM: J2SE 1.6

DTP 1.8 Accessibility, L10n, and I14n

- Uses ICU libraries
- Strings externalized and ready to be localized
- Part of the Babel project
- Included in IBM accessibility and translation testing

I.P. Issues

- Contributions
 - All DTP 1.8 code comes only from approved channels
 - All DTP 1.8 code provided under the Eclipse Public License (EPL)
- Third Party Libraries
 - All third party libraries sourced from Orbit
- Due Diligence & Record Keeping
 - All DTP committers have signed Committer Agreement forms and been approved by EMO
 - IP Log maintained by PMC and available on DTP web site
 - <http://www.eclipse.org/datatools/dtp-log.csv>
 - Individual sub-projects have their automated IP Logs as well:
 - http://www.eclipse.org/projects/ip_log.php?projectid=datatools.connectivity
 - http://www.eclipse.org/projects/ip_log.php?projectid=datatools.enablement
 - http://www.eclipse.org/projects/ip_log.php?projectid=datatools.incubator
 - http://www.eclipse.org/projects/ip_log.php?projectid=datatools.modelbase
 - http://www.eclipse.org/projects/ip_log.php?projectid=datatools.sqltools

Community Participation

- Mailing lists
 - General development (dtp-dev)
 - PMC (dtp-pmc)
- Newsgroup
 - eclipse.dtp
 - Around 70 discussion threads started since Galileo release
- Bugzilla
 - See following bug charts

Community Visibility

- Conference presentations
 - EclipseCon 2010
 - “DTP in the Real World”: combined presentation by Red Hat and Motorola

Bug Totals

- Current open bugs: 441
- Bugs reported since Galileo release: 343
- Bugs resolved since Galileo release: 133

Bugs Resolved, Detail

DTP bugs resolved since Galileo release, by project and release

	1.7.1	1.7.2	1.8	Total
Connectivity	10	16	22	48
Model base	0	1	5	6
SQL Dev Tools	3	12	23	38
Enablement	4	7	6	17
Releng	0	3	1	4
Total	17	39	57	133

Challenges

- Participation by sponsoring companies is greatly reduced
 - Sybase, which started DTP, has withdrawn almost completely, and no longer has any active committers
 - IBM and Actuate have also reduced resources
- Number of active committers has dropped to 4 (plus two build team committers). The remaining committers are stretched very thin.
- After Helios, the DTP PMC will be down to two (Actuate and IBM)
- The project is considered mature by the sponsoring companies and clients, so no significant new resource investment is currently planned.

Future Plans

- Two post-Helios maintenance releases planned, DTP 1.8.1 (2010) and DTP 1.8.2 (2011), corresponding to Eclipse platform releases
- Next major release will align with Eclipse Indigo release in June 2011.
- Additional releases will be considered based on community requests and readiness