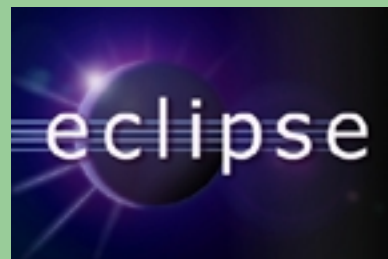


# Eclipse Data Tools Platform (DTP) 1.5 Release Review

Eclipse DTP PMC  
June 6, 2007



# Introduction

- DTP 1.5 is scheduled for week of 6/25
- Build Platform
  - Platform: Eclipse 3.2.2
  - Dependencies: EMF 2.2.2, GEF 3.2.2
  - JVM: Sun J2SE 1.4.2
- Primary Target Platform
  - Platform: Eclipse 3.3
  - Dependencies: EMF 2.3, GEF 3.3
  - JVM: Sun J2SE 1.5

# DTP: Previous Releases

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- DTP 0.7: April 7, 2006
- DTP 0.9 (Callisto): June 30, 2006
- DTP 0.9.1 (Callisto): September 29, 2006
- DTP 1.0: December 22, 2006

# DTP Projects

- Model Base: Core EMF models for DTP
- Connectivity: Frameworks and tools for connecting to data sources
- SQL Development Tools: Frameworks and tools for working with SQL
- Enablement: Data source specializations for DTP frameworks

# DTP 1.5 Milestones

- M5: February 16
- M6: March 30
- M7/RC0: May 11
- RC1: May 23
- RC2: May 30
- RC3: June 13
- RC4: June 20
- 1.5 Release: Week of June 25

# DTP 1.5 Requirements Process

- Community feedback on DTP 0.9.x and 1.0
- Presentations & Discussions:
  - EclipseCon 2007
  - EclipseWorld 2006
- Bugzilla bugs and enhancements requests
- DTP Requirements Council
- Newsgroup & mailing list comments

# DTP 1.5 Design Efforts

- Captured in documents
  - Published on each projects' site
  - Highlighted in top-level plans
- Captured in meeting minutes
  - Published to mailing lists
  - Open decision process
- Discussions on dtp-dev with community at large
- Key points captured in Bugzilla

# DTP 1.5 Themes

- Facilitate adoption of DTP frameworks
- Promote selected API to “platform” status
- Provide incremental feature improvements for all projects
- Additional enablement support
- Evolve the core frameworks past DTP 1.0



# DTP 1.5 Features: Some Examples

- Enablement:
  - Sybase SQL Anywhere model and catalog loader
  - ODA Web services
  - HSQLDB profile and catalog loader
- Database Table Creation Wizard
  - Contributed by NEC Soft
  - NEC Soft joins the DTP team in Europa
- Feature definitions reorganized (BZ185820)

# Non-Code Aspects: Documentation & Examples

- Database Examples
  - Driver templates for 10 databases
  - Generic JDBC Support
  - Apache Derby 10.x Support
- ODA Examples:
  - Flat File Connection Profile
  - Flat File UI Examples
- Documentation: ISV and User

# Non-Code Aspects: Localization, Internationalization & Accessibility

- Using ICU libraries
- Strings externalized and ready to be localized
- NL packs for DTP 0.9.x can be used as a base for DTP 1.5 localization efforts
- ODA and dependencies localized as part of BIRT releases
- DTP 1.5 has completed accessibility check lists

# DTP 1.5 API Statement

- Selected ODA and Connectivity framework API promoted to platform status:
  - Proposed to community on public mailing list; no objections
  - See <http://dev.eclipse.org/mhonarc/lists/dtp-dev/msg01210.html> for details.
- All other API are *provisional* for DTP 1.5
- We follow the platform's policy and Jim des Rivières "How to Use the Eclipse API" article\*
  - Usage of "internal" consistent with platform
  - Presence of clear API declaration
  - Support and evolution commitment in line Jim's article and platform practices

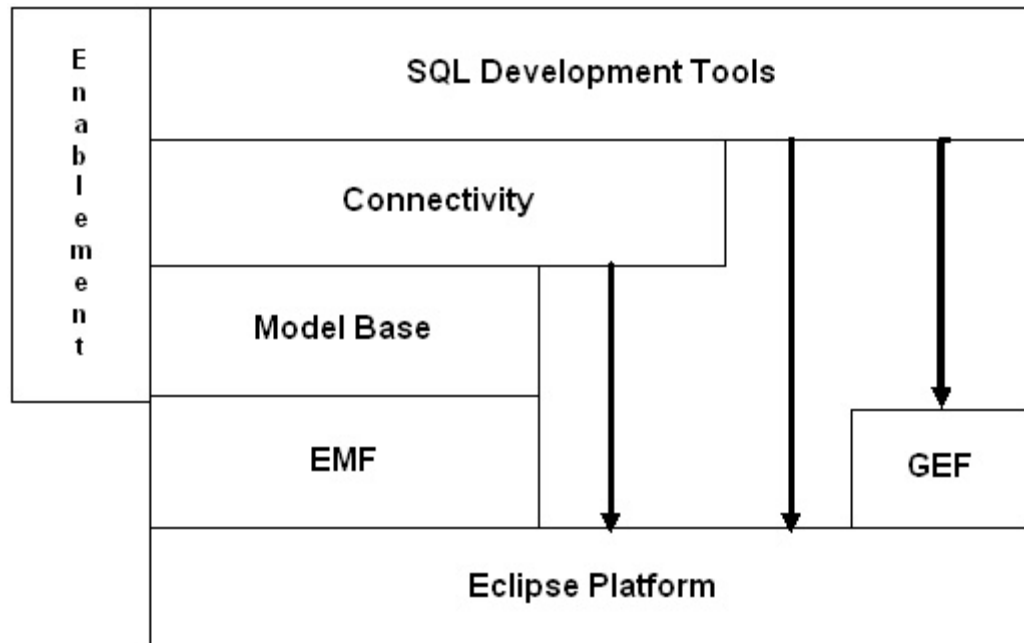
\* <http://www.eclipse.org/articles/Article-API%20use/eclipse-api-usage-rules.html>

# DTP 1.5 API: Details

- 17 extension points declared
- 86 Java packages
- Usage details in ISV plug-in
- Requirements, specifications available on web site, wiki, and Bugzilla
- Unit tests available in CVS
- Exemplary clients bundled with DTP

# DTP Architecture

High level architecture view, at project granularity:



# Architectural Issues

- Further integration of DTP models and components, including parser
- Increase number, depth and quality of exemplary and extensible tools going forward
- Pull code up into frameworks from Enablement as necessary

# Defect Policies

- Tested by DTP committers and community
- All automated tests available in CVS
- Release Criteria
  - No blocking, critical or major defects assigned against release candidate
  - Anyone in the community can petition the PMC to delay a milestone or release for a specific bug



# Bugs Resolved as of RC2 (5/30)

	M5	M6	RC0	RC1	RC2	1.5	Total
Blocking	0	0	4	1	0	5	10
Critical	0	0	5	3	0	1	9
Major	1	2	11	3	4	7	28
Normal	3	15	16	19	12	47	112
Minor	10	1	1	2	2	2	18
Trivial	1	0	0	0	0	0	1
Enhancement	1	7	5	3	0	12	28
<b>Total</b>	<b>16</b>	<b>25</b>	<b>42</b>	<b>31</b>	<b>18</b>	<b>74</b>	<b>206</b>

# Bug Trends

Number of bugs open on release date, excluding enhancements:

	<b>Open</b>	<b>Delta</b>
<b>DTP 0.7</b>	13	---
<b>DTP 0.9</b>	19	6
<b>DTP 0.9.1</b>	29	10
<b>DTP 1.0</b>	40	11
<b>DTP 1.5 (est.)</b>	90	50

# Code Statistics

	Plug-ins	KLOC
<b>Model Base</b>	6	81
<b>Connectivity</b>	23	82
<b>SQL Dev Tools</b>	19	132
<b>Enablement</b>	29	52
<b>Total</b>	<b>77</b>	<b>347</b>

# Standards

- Based on the SQL99/03 standard
  - SQL model
  - SQL query model
  - SQL query parser
- Sample database connectivity is based on JDBC standard

# UI Usability

- SQL editor allows users to create, edit, and test SQL statements
- SQL routine editor allows for execution of stored procedures
- Connectivity components allow for using heterogeneous data sources

# Schedule

- Iterative development cycle, enabling agile reactions to community feedback
  - Milestones at regular intervals
  - Nightly builds between milestones
  - Release candidates for endgame
- Project plan and endgame plan posted on DTP web site and updated as necessary

## Schedule: Planned v. Actual, as of RC2 (5/30)

	<b>Planned</b>	<b>Actual</b>	<b>Delta (days)</b>
<b>M5</b>	2/16	2/16	0
<b>M6</b>	3/30	3/30	0
<b>M7/RC0</b>	5/11	5/11	0
<b>RC1</b>	5/23	5/23	0
<b>RC2</b>	5/30	5/30	0

# Process: Achievements

- Extensive use of mailing lists and newsgroups for discussions and decisions
- Code available in CVS early
- Full disclosure of schedules and delays
- Announcements about major feature deliveries
- Bugzilla used to mark defect and feature work
- Weekly PMC and project lead/PMC meetings



# Process: Room to Grow

- Earlier and better design documentation
- Develop use cases, especially for API
- More automated tests
- Follow and update Bugzilla faster
- In general, strive for continuous improvement

# Community: Participation

- Mailing lists
  - General development (dtp-dev)
  - PMC (dtp-pmc)
  - One for each project
- Newsgroup
- Dtp-dev is busy, project mailing lists less so
- Newsgroup mostly as gateway to DTP
- Committers from
  - Actuate
  - IBM
  - NEC Soft
  - Sybase

# Community: Visibility

- Conference presentations
  - EclipseWorld 2005, 2006
  - EclipseCon 2005, 2006, 2007
  - JavaOne 2006
  - Eclipse Summit Europe 2006
- Articles
  - Two in ACM “Queue” magazine
  - EclipseZone
  - Eclipse Developers Journal
  - Eclipse Review
- Other Events
  - bostonEdge Eclipse Developers Group
  - “Eclipse in Motion” Code Camps: Raleigh and Atlanta
  - Callisto podcast
  - DTP Requirements Council calls

# Community: Adoption

- “Community” page on DTP web site\*
- Commercial Adoption
  - Sybase
  - Actuate
  - Nexaweb
- Open Source
  - BIRT
  - Jalcedo
  - JFire
  - NightLabs
  - WTP
- Standards
  - OMG for *Information Management Metamodel (IMM)*\*\*
- Based on community feedback, estimating about 8 to 10 more commercial products in development using DTP

\* <http://www.eclipse.org/datatools/community.html>

\*\* <http://www.omg.org/cgi-bin/doc?ab/05-12-02>

# Community: Download Details\*

	<b>SDK</b>	<b>Runtime</b>	<b>Update Site</b>
<b>DTP 0.7</b>	3,102	0	(no update site)
<b>DTP 0.9</b>	8,247	50	31
<b>DTP 0.9.1</b>	1,706	689	7,520
<b>DTP 1.0</b>	12,255	4203	11,870
<b>Subtotal</b>	<b>25,310</b>	<b>4,942</b>	<b>19,421</b>

\* Through May 15, 2007

# Community: Statistics\*

- 49,673 downloads of DTP 0.7 – 1.0
- Newsgroup
  - Number of posts: 709
  - Number of participants (not DTP committers): 101
  - Repeat Rate (not DTP committers): 60%
- Bugzilla
  - Total (bugs & enhancements): 781
  - Accepted bugs: 725
  - Enhancement requests: 125
  - Number of submitters (not DTP committers): 128

\* Through May 18, 2007

# Intellectual Property

- Contributions
  - All DTP 1.5 comes only from approved channels
  - All DTP 1.5 code provided under the Eclipse Public License (EPL)
- Third Party Libraries
  - All third party libraries sourced from Orbit
  - SQL Query Parser depends on *lpg.jar*, available for separate download from SourceForge
  - DBUnit integration depends on DBUnit plug-ins, available for separate download from SourceForge
- 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
  - Eclipse legal review complete

# Project Plan

- DTP 1.5.x maintenance releases with Europa
- DTP “Ganymede” planned for June, 2008
- Additional releases will be considered based on community requests and readiness



# Thank You!

- For the interest and support so far
- Please visit us on our mailing lists and newsgroups
- Come visit us at EclipseWorld!
- New proposals for DTP always welcome...

[www.eclipse.org/datatools](http://www.eclipse.org/datatools)