



The Lattix Architecture Management System

Create, communicate & control your architecture

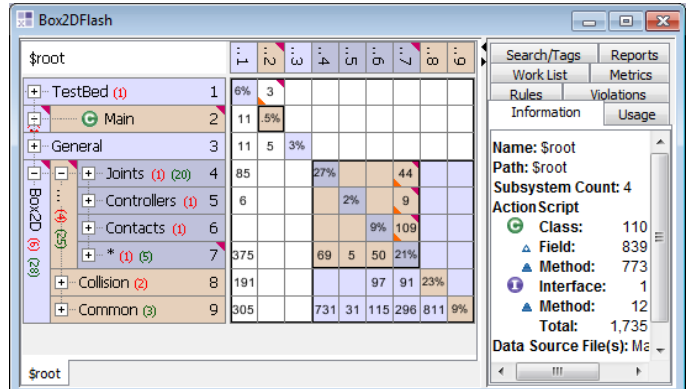
The Lattix System enables you to manage the architecture and dependencies of your software systems, including applications, databases, services and configuration files. With Lattix, you can analyze your architecture in depth, edit the structure to what-if and should-be architectures, and then create rules to formalize and communicate that architecture to your entire development organization.

Introducing the Lattix Approach

Based on the work at MIT on complex systems, Lattix has pioneered a breakthrough technology that utilizes the Dependency Structure Matrix (DSM) to formalize and automatically enforce the overall architecture of a software system.

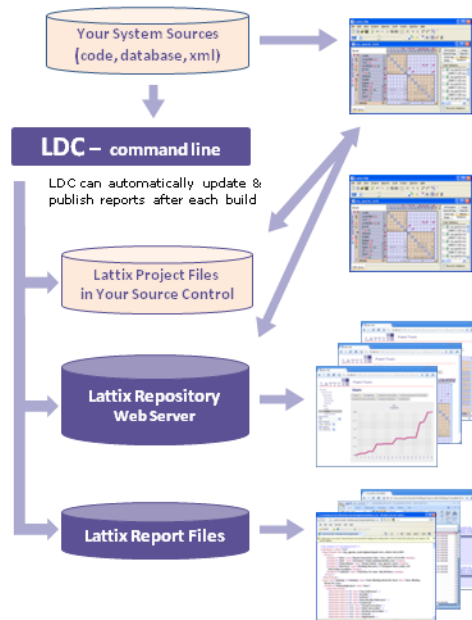
Powerful DSM algorithms in Lattix enable you to analyze structure, identify opportunities for refactoring, and perform impact analysis before making changes to the code.

Lattix also has full web-based reporting of architectural metrics, violations, and trends between builds.



- Provide high level **Visibility** to extended team to accelerate development cycles
- Improve and maintain **Quality** by controlling the architecture and reducing defects
- Lower **Costs** through more effective development and faster refactoring
- Manage **Risks** by understanding the impact of proposed changes to the system
- Enhance **Testability** and improve the efficiency of the QA process

The Lattix System



Architects

LDM Creates the Model

The structure and rules are stored in the Lattix Project file which doesn't change your system sources. Snapshots are published to the Lattix Repository to build Project Tracks.

Developers & QA

LDV is for Analysis

With LDV you can do everything except save changes to the Lattix Project, including impact analysis.

Managers & Extended Team

Project Browser

View Project Tracks with Snapshots for each build over time. Navigate the DSM and see trends of key metrics.

Project Reports

Reports can be published in many formats including xml, txt, csv, jpg, png, and htm.



Lattix System Overview

The Lattix System has a rich set of features which can be used by architects, developers, QA and managers to visualize, measure, test, and maintain the architecture of a complex system at any stage of its development lifecycle. The following modules are available to meet your system requirements:

ActionScript	Analyze the architecture of your ActionScript and Adobe Flex MXML applications and understand the interrelationships between packages, classes, interfaces, methods, and data members.
Ada	Analyze the architecture of any Ada 93 or 95 application in terms of the system elements and their interrelationships (directories, package spec files and package body files). Included in this solution is a module for loading dependency data from <i>Understand for Ada</i> .
C/C++	Analyze the relationships between the contents of your files, so you can explore dependencies at the level of functions, variables, class methods, fields and macros. Included in this solution are modules for loading dependency data from <i>Understand for C++</i> , Klocwork, Doxygen, and Microsoft BSC files.
Fortran	Analyze the architecture of Fortran applications in terms of the system elements and their interrelationships (directories, source files and common blocks). Included with this solution is a module for loading dependency data from <i>Understand for Fortran</i> .
Java	Analyze the architecture of your Java applications in terms of the elements and their interrelationships (jars, packages, classes, methods, data). Included in this solution are support for JSPs and EJBs as well as modules for Hibernate and Spring Framework, and an Eclipse plugin.
.NET	Analyze the architecture of your .NET applications (managed code such as C# and VB.net) in terms of the elements and their interrelationships (exe, dlls, namespaces, classes, methods, data). This module integrates with MS Visual Studio.
Oracle	Analyze the structure of your Oracle 9i or 10g database system in terms of the database elements and their interrelationships (schemas, tables, stored procedures, views, packages, triggers, etc).
SQL Server/Sybase	Analyze the structure of your SQL Server 2005/2008 or Sybase ASE 12.5.x and 15.x database systems in terms of database elements and their interrelationships (schemas, tables, stored procedures, triggers, types, etc).
UML/SysML	Enables you to construct a DSM that unites the various perspectives of UML and SysML systems modeling approaches into a scalable big picture view. Included in this solution is an XMI module and a direct integration to IBM Rational Rhapsody.
LDI	Enables you to specify your own systems and configurations to create an end-to-end view of an enterprise system. LDI is an XML specification that allows users to load dependency information from different languages, configuration files and proprietary tools.

Additional technologies supported include JNI, Python, ProC, and Struts.



**Map architecture
to actual code**

**Identify
problems & bad
dependencies
instantly**

**Extract, specify
& enforce
component APIs**

**Refactor your
architecture**

**Reduce defects
& keep your
design clean!**



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Getting Started. SCL is the European distributor for Lattix and offers a number of ways to learn and evaluate it's solutions, including whitepapers, web-based demonstrations, free evaluation licences and assessments.