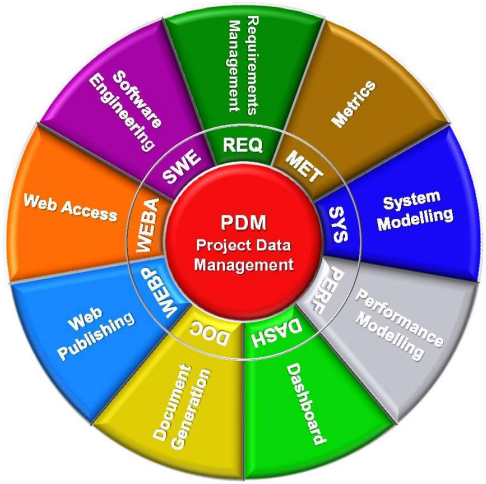
Cradle-7
From concept to creation...

3SL

Overview

Cradle is an integrated requirements management and systems engineering environment with the features, flexibility and scalability for the full lifecycle of today's complex agile and phase-based projects.
From concept to creation, from Cradle to grave.



Cradle is unique. It provides the tools and features to create and manage all your data, at all stages in your systems development, and at all levels. By managing all the data in one place, only Cradle can provide traceability across the entire lifecycle in one tool. Without Cradle, you have to assemble many products from many vendors, and you will still not have the full traceability that Cradle can provide.

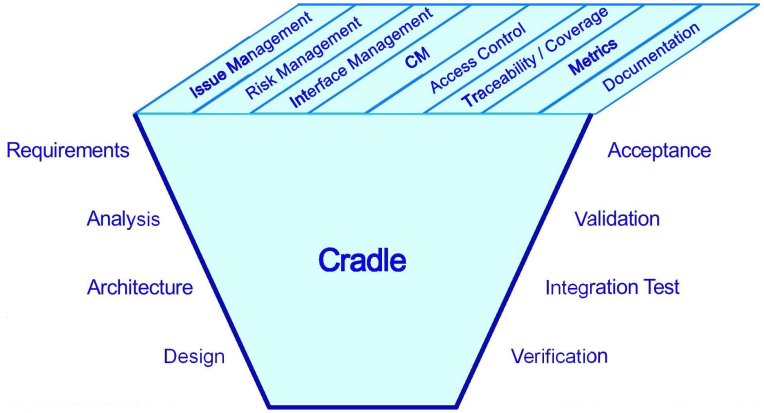
Cradle provides full requirements management, analysis, design, architecture and performance modelling, test, risk and interface management and metrics in one product. You can use all of these facilities, or combine Cradle with tools from other vendors. If you have such tools then Cradle will link to them, extending their scope from a part of the system lifecycle to all of it.

Cradle is multi-user, multi-project, distributed, open and extensible. It links to your existing desktop tools to create a tailored environment to suit your process.

Cradle provides built-in issue, risk and interface management. It supports comparative trade studies and analyses. Cradle provides a built-in configuration management and control system with baselines, version control, change histories and formal change control. It bidirectionally links a WBS and progress reporting to your project planning tool. With these capabilities, Cradle removes the need for you to try to connect risk, CM or change tracking tools to your systems engineering. Cradle provides everything you need, integrated and ready to use.

Cradle has customisable, hierarchical, access control facilities and integrates with your authentication, access control and security mechanisms including firewalls, LDAP and SSL.

Cradle provides user-definable views of project data, tailored to each stakeholder group. With customisable navigation, review and entry tools and tailored web UIs, Cradle shows each user the data that they want to see, in the way that they want to see it.



Projects use user-defined, arbitrarily extensible databases, linked to external files, URL resources and data in external repositories. Each database is configuration controlled, with change histories, baselines, versions and variants, managed by configurable change requests and change tasks.

Cradle supports off-line and remote access from geographically separate groups. Internet and VPN access is provided, with full support for project and company firewalls and DMZs.

Cradle connects dispersed teams together, with tailorable discussions, alerts and e-mail.

Cradle is modular, using floating licences to share resources dynamically across the project.

Cradle-PDM provides a project infrastructure, from access control and user accounts, through a user-defined schema, phase hierarchy, team hierarchy and access controls to configuration

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management and open external interfaces.

Cradle-REQ provides requirements management from external source documents to baselined, engineered requirements linked to the rest of the system lifecycle. It allows you to define and manage user stories, validations, test cases, and any other types of information for all of your process.

Cradle-MET provides user-definable metrics to gather and analyse statistics from project data.

Cradle-SYS is a flexible analysis and design modelling environment. It allows any number of models to be built and grouped into model hierarchies in distinct analysis and design domains. Models are fully cross referenced to requirements and all other information. SysML is also supported.

Cradle-DASH provides user-definable Key Performance Indicators (KPIs) calculated from live project data in user-defined dashboards shown as tables or dials.

Cradle-PERF provides performance assessment, budget apportionment and data aggregation facilities for design models at any level in a system development.

Cradle-SWE provides code generation and reverse engineering for C, Ada® and Pascal, to synchronise design and source code.

Cradle-DOC provides user-defined project document generation and a formal document register of project deliverables.

Cradle-WEBP provides web publishing of project data to static, hyperlinked, websites for external stakeholders.

Cradle-WEBA allows read-only and read-write access to project data through multiple, user-defined, web UIs that are tailored to each stakeholder group. It also provides external access to Cradle items through URLs.

Feature Summary

Feature	Benefits
Single integrated environment	Supports entire lifecycle in a single environment, no need to interface requirements to design or test tools
Process independent	The flexibility to tailor the tool to your process, not the reverse
Process support	Embed your process into the Cradle UI, to simplify use, and reduce need for training
Agile and phase-based processes	Supports agile, highly iterative processes, and those using longer phases and phase gates
Full integration of RM, MBSE, V&V and project management	Develop needs, user stories, use cases, logical models, requirements, link to architecture and design models, then link to V&V and manage with your PM approach, such as WBS, SBS, CBS, house of quality and others
Full lifecycle traceability	Allows full end-to-end traceability and coverage analysis across the entire lifecycle from a single tool
Integrates management activities	Provides built-in support for all transversal issues, including issue, risk, test and interface management
Integrates project planning	Bidirectional links exchange WBS and actual start/finish dates and progress with external planning tools. Users have individual task lists that automatically update over time and are linked to project data.
Document generation	Generate complete, accurate and consistent documentation for the entire project from a single source
Progress tracking and metrics	Provides built-in metrics support to track all project activities and products
Arbitrarily extensible databases	Project schema defined by point-and-click UI, changed at any time, support smallest or largest of projects
External database linking	Connect Cradle database to external data sources, as files, URLs and in other environments
Baselines and change control	Supports evolution of database contents through integral configuration management and control system with full change tracking of all edits
Comprehensive access controls	Controllable authentication, access control and project organisation structure, will protect project data whilst supporting distributed work groups and the integration of customers and suppliers into the project
Robust, multi-user environment	Cradle Database Server (CDS) accommodates systems with millions of items and 8,192 concurrent users
Flexible interface mechanisms	Link Cradle to existing tools to preserve your investment
Integrates with all desktop tools	Predefined integrations for Microsoft Office® and other standard tools
Flexible remote user support	Remote access through web and non-web facilities, with a fully controllable TCP/IP environment and SSL
Floating, dynamic licensing	Efficient use of licences for minimum cost of ownership
Supports Windows and Linux	Freedom for host platform for clients and servers, take advantage of the strengths of each
Complete interoperability	Run any part of Cradle on any platform, move data freely between them
On-line manuals and help system	Fully web-based on-line documentation, fully searchable, with task-based help, a comprehensive index and technical reference
Active support programme	Expert help and guidance when you need it from a support team that cares
Regular updates	Prompt solutions to problems and a continual programme of extensions and upgrades that works at your pace to match the needs of your project
Active consultancy programme	Strategic process/project planning, mentoring and on-site support

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