

## Product Range

### PRODUCT RANGE HIGHLIGHTS

- APPLIES TO AGILE AND PHASE PROJECTS
- APPLICATION LIFECYCLE MANAGEMENT
- REQUIREMENTS MANAGEMENT
- MODELING / MBSE / SysML / UML
- FULL LIFECYCLE INTEGRATION
- V&V
- REPORTING
- DOCUMENT PUBLISHING
- METRICS
- DASHBOARDS
- PROJECT PLANS
- USER-DEFINED UIs
- CUSTOM WEB UIs
- CONFIGURATION MANAGEMENT
- SINGLE-USER AND MULTI-USER



### Integrated Systems Engineering from the Desktop to the Enterprise

*Manage all information for the entire lifecycle with full traceability, metrics, quality checks and performance indicators, all linked to your project schedules*

Cradle is a complete multi-user solution to manage, trace and document all data in your agile and phase-based projects.

You can capture information from external documents and tools, and track changes. You can build new sets of requirements, analysis, architecture and design models, tests or verifications, and link them to the source data and to each other. You can check the consistency and quality of this information, and prove the integrity of the models and other data with bi-directional coverage and traceability analyses.

You can raise customers' confidence with proof that your work satisfies its sources and constraints, and will meet their needs.

You can easily track progress with metrics and KPIs and link to your WBS and actual progress to your project planning tools.

Manage users' work with user-defined CM, workflows and access controls, and multi-team collaboration and discussions.

Cradle is a complete product range, from single-user requirements management to enterprise scale, multi-user collaborative

environments. All are fully compatible with each other, sharing their architecture, database and I/O formats. You can start with a single-user tool and migrate to the multi-user **Cradle Enterprise** product, seamlessly and easily.

All Cradle systems include:

- Introductory overview
- Tutorial, to teach the UI
- **Start Page** of shortcuts in the UI for new users
- A guide to creating and working in a new project
- Example configurations suitable for many different processes, each with its own process guide
- A range of user guides
- Fully indexed, searchable help

Cradle supports all variants of Windows and Linux. Different platforms can be mixed in a Cradle deployment. Cradle servers are designed to run 24x7, unattended, and

- Supports the full systems development lifecycle at system, subsystem and lower levels
- Integrates in one product features normally spread across separate tools from different vendors
- Completely user-definable and user-extensible with point-and-click UIs
- Manage any information, including requirements, models, risks, interfaces, tests and verifications
- Built-in CM, baselines, formal change control and user-defined workflows
- Scalable to millions of items of information
- Scalable from one to thousands of users
- Web and desktop applications, user-definable UIs
- Rapid deployment facilities
- Embed process in tool UIs, minimized user training

need no administration. No routine upkeep is needed.

Supports virtual servers and clients. Supports IPv4 and IPv6. May be served as SaaS using all popular web and



non-web remote deployment tools.  
Can be served through firewalls and from DMZs.

Includes access, security and licence usage logs, and a range of reporting tools.

## Supported Platforms

| Component Details |   |
|-------------------|---|
| Windows           | 7 SP1, 8.1, 10 (32/64-bit)<br>Server 2008 R2 SP1 (32/64-bit)<br>Server 2012 (64-bit)<br>Server 2012 R2 (64-bit)<br>Server 2016 (64-bit) |
| Linux             | Any 32/64-bit with a kernel ≥ 2.6.32  |
| PDF Viewer        | Acrobat/Reader 9 or later   |
| Web Browser       | IE, Firefox, Chrome, Edge: latest available   |
| Microsoft Office  | 2007 SP3 (32-bit)<br>2010 SP2 (32/64-bit)<br>2013 SP1 (32/64-bit)<br>2016 (32/64-bit)   |
| Other Office      | OpenOffice ≥ 4, LibreOffice ≥ 5   |



## Product Characteristics and Features

| Characteristics and Features  | RM Desktop                     | RM Pro | SE Desktop | SE Pro | Enterprise |
|---|--------------------------------|--------|------------|--------|------------|
| Users   | Single                         |        |            |        | Multi      |
| Technical Support   | 7 days installation assistance |        |            |        | ✓          |
| Product Upgrades  |                                |        |            |        | ✓          |
| Unlimited databases, items/database, user-defined schemas   | ✓                              | ✓      | ✓          | ✓      | ✓          |
| User-defined data types / link to external data and tools   | ✓                              | ✓      | ✓          | ✓      | ✓          |
| User-defined item calculations  |                                |        |            |        | ✓          |
| Load from external documents / import and export  | ✓                              | ✓      | ✓          | ✓      | ✓          |
| User-defined queries, views, forms, matrices, pivot tables, graphs, metrics, KPIs and dashboards                          | ✓                              | ✓      | ✓          | ✓      | ✓          |
| User-defined process-oriented UI, customized by user / team   |                                |        |            |        | ✓          |
| Graphical traceability views / many-to-many & cross-lifecycle transitive links / lifecycle-wide traceability and coverage | ✓                              | ✓      | ✓          | ✓      | ✓          |
| Create requirements, issues, verifications, test cases ...  | ✓                              | ✓      | ✓          | ✓      | ✓          |
| Quality check and spell check information   | ✓                              | ✓      | ✓          | ✓      | ✓          |
| Create models (MBSE) / link models to all other information / consistency check models                                    |                                |        |            |        | ✓          |
| Performance analyze architectures / reverse engineer software to models / code generate models to software                |                                |        |            |        | ✓          |
| User-defined reports  | ✓                              | ✓      | ✓          | ✓      | ✓          |
| User-defined documents (Word)   |                                |        |            |        | ✓          |
| Track database items to formal project documents  |                                |        |            |        | ✓          |
| Publish database to websites / custom web UIs   |                                |        |            |        | ✓          |
| Bidirectional links to plans/schedules  | ✓                              | ✓      | ✓          | ✓      | ✓          |
| CM system (reviews, baselines, formal change control...)  |                                |        |            |        | ✓          |
| Change histories with options to reverse edits  | ✓                              | ✓      | ✓          | ✓      | ✓          |
| User and team setup with optional LDAP support / user-defined access controls   |                                |        |            |        | ✓          |
| External tool integration support   |                                |        |            |        | ✓          |
| API / command line utilities and batch mode support   |                                |        |            |        | ✓          |
| Multi-lingual databases and UI (cy, de, en, fr, ko, nl, ru, zh)   | ✓                              | ✓      | ✓          | ✓      | ✓          |
| Messaging and email / collaboration (discussions, comments)   |                                |        |            |        | ✓          |

## Cradle-RM Desktop

### PRODUCT HIGHLIGHTS

- APPLIES TO AGILE AND PHASE PROJECTS
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- REQUIREMENTS MANAGEMENT
- FULL LIFECYCLE INTEGRATION
- V&V
- REPORTING
- METRICS
- DASHBOARDS
- PROJECT PLANS
- COMPLIANCE MANAGEMENT
- SINGLE USER



### Requirements Management Across the Systems Lifecycle

*Complete Application Lifecycle Management (ALM) and Requirements Management (RM) solution for the entire project lifecycle, fully user-definable and applicable to all agile and phase-based processes*

Cradle-RM Desktop is a complete solution to manage and trace all the data for your agile and phase-based projects.

You can capture information from external documents and tools, and track changes in these sources. You can build new sets of requirements, functions, components, interfaces, tests or verifications, and link them to the source data and to each other. You can check the quality and structure of this information, and prove the integrity of information with bi-directional coverage and traceability analyses.

You can raise customers' confidence with proof that your work satisfies its sources, complies with its constraints, and will meet their needs.

You can easily track progress with metrics and KPIs and link to your WBS and actual progress to your project planning tools.

You can create any number of databases, each with a schema and multiple projects that contain any number of items of any number of user-defined item types. Each item has any number of attributes with up to 1 TByte of data, held in Cradle, or

referenced in files, URLs or other tools.

All items can be linked with user-defined types of cross reference. The links have attributes to justify, explain or parametrize them. Links are direct and indirect, for full lifecycle traceability, impact and coverage analyses.

External documents can be loaded into hierarchies of items. Every item in Cradle is linked to its source in a document. Changes in new document versions are automatically found and the database updated. You can prove the integrity of all source data to your customers with a range of detailed coverage analyses of their documents.

Items can be linear, hierarchical and in many-to-many relationships. Items can be split, merged and reordered. All information can be shared and reused.

- Supports the full systems development lifecycle at system, subsystem and lower levels
- Integrates in one product features normally spread across separate tools from different vendors
- Completely user-definable and user-extensible with point-and-click UIs
- Manage any information, including requirements, risks, interfaces, tests and verifications
- Scalable to millions of items of information
- Full traceability of data from external sources and version management of source documents
- Full traceability and coverage analyses
- User-definable views of data including tables, trees, documents, matrices, diagrams and graphs
- User-defined metrics and management dashboards

Cradle can support product ranges, models, variants and builds, and generate comparative analyses between them as tables, pivot tables and matrices.

Cradle tracks all edits



to every requirement, test case, verification and all other information that you want it to hold. Edits can be reversed selectively or by group. Full or partial change logs are readily available.

You define how information is viewed and reported in any number of views, shown as nested tables, trees, matrices, pivot tables, and as diagrams.

You can manage your projects with:

- Metrics, user-defined calculations of items' values
- Key Performance Indicators (KPIs) results of metric calculations with color-coded display bands
- Bi-directional links to Project, including user task lists and actual progress reporting

Cradle is open. It supports many import/export formats, has several interface mechanisms to link to other tools, and connects to the Microsoft Office® components Word, Excel, PowerPoint, Visio and Project.

Cradle is simple to customize and use. You do not need to learn a scripting language or become a programmer to tailor it to your process. After every change to your schema, Cradle will automatically update collections of queries, views and other definitions that make you productive immediately.

## Major Features

| Product and Tool Capabilities                                |   |
|--|---|
| Supports full system lifecycle                               | Agile and phase processes                               |
| Process independent  | Supports RM   |
| Supports managing functions and components                   | Supports test management                                |
| Manage Cost and System Breakdown Structures                  | Supports feature-driven development (FDD)               |
| Supports project V&V   | Load source documents (text, tables, figures and links) |
| Manage source document versions and differences              | Full lifecycle transitive traceability and coverage     |
| User-defined items and attributes                            | User-defined link types, link rules and link attributes |
| Spell checking   | Quality (conformance) checks                            |
| Direct editing in tables and in user-defined forms           | 1:1, 1:N, M:N linking of all items                      |
| Drag-and-drop linking  | Graphical traceability views                            |
| User-defined queries, views, forms, hierarchies, navigations | Make child, sibling, hierarchy                          |
| Split and merge items  | Reordering of item hierarchies                          |
| Suspect item displays  | User-defined metrics                                    |
| Automated change histories                                   | User-defined calculations                               |
| User-defined progress graphs                                 | User-defined pivot tables                               |
| User-defined matrices  | Automated WBS and progress reporting                    |
| User-defined dashboards and KPIs                             | User-defined reports to CSV, Word, HTML, Excel          |
| User-defined Start Page UIs                                  | User-defined commands in table views                    |
| Import/export for XML (any schema), CSV, Cradle              | Automated batch reporting from command line utilities   |

## Supported Platforms

| Component        | Details   |
|------------------|---|
| Windows          | 7 SP1, 8.1, 10 (32/64-bit)<br>Server 2008 R2 SP1 (32/64-bit)<br>Server 2012 (64-bit)<br>Server 2012 R2 (64-bit)<br>Server 2016 (64-bit) |
| Linux            | Any 32/64-bit with a kernel $\geq 2.6.32$   |
| PDF Viewer       | Acrobat/Reader 9 or later   |
| Web Browser      | IE, Firefox, Chrome, Edge: latest available   |
| Microsoft Office | 2007 SP3 (32-bit)<br>2010 SP2 (32/64-bit)<br>2013 SP1 (32/64-bit)<br>2016 (32/64-bit)   |
| Other Office     | OpenOffice $\geq 4$ , LibreOffice $\geq 5$  |

## Characteristics

| Characteristic    | Details  |
|-------------------|--|
| Users             | Single   |
| Modules Included  | PDM REQ MET DASH                                       |
| Project databases | Unlimited  |
| Items / database  | Unlimited  |
| Links / database  | Unlimited  |
| Limits            | Per database $\leq 25$ item types $\leq 50$ categories |
|                   | Per item $\leq 25$ frames                              |

Cradle-RM Desktop is part of the Cradle product range. The full, multi-user, product is [Cradle Enterprise](#).



## Cradle-RM Pro

### PRODUCT HIGHLIGHTS

- APPLIES TO AGILE AND PHASE PROJECTS
- APPLICATION LIFECYCLE MANAGEMENT
- REQUIREMENTS MANAGEMENT
- FULL LIFECYCLE INTEGRATION
- V&V
- REPORTING
- DOCUMENT PUBLISHING
- METRICS
- DASHBOARDS
- PROJECT PLANS
- COMPLIANCE MANAGEMENT
- SINGLE USER



### Requirements Management Across the Systems Lifecycle

*Complete Application Lifecycle Management (ALM), Requirements Management (RM) and documentation solution for the entire project lifecycle, fully user-definable and applicable to all agile and phase-based processes*

Cradle-RM Pro is a complete solution to manage, trace and document all the data for your agile and phase-based projects.

You can capture information from external documents and tools, and track changes in these sources. You can build new sets of requirements, functions, components, interfaces, tests or verifications, and link them to the source data and to each other. You can check the quality and structure of this information, and prove the integrity of information with bi-directional coverage and traceability analyses.

You can raise customers' confidence with proof that your work satisfies its sources, complies with its constraints, and will meet their needs.

You can easily track progress with metrics and KPIs and link to your WBS and actual progress to your project planning tools.

You can create any number of databases, each with a schema and multiple projects that contain any number of items of any number of user-defined item types. Each item has any number of attributes with up to 1 TByte of data, held in Cradle, or

referenced in files, URLs or other tools.

All items can be linked with user-defined types of cross reference. The links have attributes to justify, explain or parametrize them. Links are direct and indirect, for full lifecycle traceability, impact and coverage analyses.

External documents can be loaded into hierarchies of items. Every item in Cradle is linked to its source in a document. Changes in new document versions are automatically found and the database updated. You can prove the integrity of all source data to your customers with a range of detailed coverage analyses of their documents.

Items can be linear, hierarchical and in many-to-many relationships. Items can be split, merged and reordered. All information can be shared and reused.

- Supports the full systems development lifecycle at system, subsystem and lower levels
- Integrates in one product features normally spread across separate tools from different vendors
- Completely user-definable and user-extensible with point-and-click UIs
- Manage any information, including requirements, risks, interfaces, tests and verifications
- Scalable to millions of items of information
- Full traceability of data to source and generated documents with complete version management
- Full traceability and coverage analyses
- User-definable views of data including tables, trees, documents, matrices, diagrams and graphs
- User-defined metrics and management dashboards

Cradle can support product ranges, models, variants and builds, and generate comparisons between them as tables, pivot tables and matrices.

Cradle tracks all edits to every requirement, test case, verification





and all other information that you want it to hold. Edits can be reversed selectively or by group. Full or partial change logs are readily available.

You define how information is viewed and reported in any number of views, shown as nested tables, trees, matrices, pivot tables, and as diagrams.

Generate versions of documents such as a URD, SRD, IRS, SDS and SSDS to match your or your client's formats with user-defined templates and detailed traceability of which items were published in each document issue.

You can manage your projects with:

- Metrics, user-defined calculations of items' values
- Key Performance Indicators (KPIs) results of metric calculations with color-coded display bands
- Bi-directional links to Project, including user task lists and actual progress reporting

Cradle is open. It supports many import/export formats, has several interface mechanisms to link to other tools, and connects to the Microsoft Office® components Word, Excel, PowerPoint, Visio and Project.

Cradle is simple to customize and use. You do not need to learn a scripting language or become a programmer to tailor it to your process. After every change to your schema, Cradle will automatically update collections of queries, views and other definitions that make you productive immediately.

## Major Features

| Product and Tool Capabilities                                |   |
|--|---|
| Supports full system lifecycle                               | Agile and phase processes                               |
| Process independent  | Supports RM   |
| Supports managing functions and components                   | Supports test management                                |
| Manage Cost and System Breakdown Structures                  | Supports feature-driven development (FDD)               |
| Supports project V&V   | Load source documents (text, tables, figures and links) |
| Manage source document versions and differences              | Full lifecycle transitive traceability and coverage     |
| User-defined items and attributes                            | User-defined link types, link rules and link attributes |
| Spell checking   | Quality (conformance) checks                            |
| Direct editing in tables and in user-defined forms           | 1:1, 1:N, M:N linking of all items                      |
| Drag-and-drop linking  | Graphical traceability views                            |
| User-defined queries, views, forms, hierarchies, navigations | Make child, sibling, hierarchy                          |
| Split and merge items  | Reordering of item hierarchies                          |
| Traceability to/from document versions                       | User-defined document templates                         |
| Suspect item displays  | User-defined metrics                                    |
| Automated change histories                                   | User-defined calculations                               |
| User-defined progress graphs                                 | User-defined pivot tables                               |
| User-defined matrices  | Automated WBS and progress reporting                    |
| User-defined dashboards and KPIs                             | User-defined reports to CSV, Word, HTML, Excel          |
| User-defined Start Page UIs                                  | User-defined commands in table views                    |
| Import/export for XML (any schema), CSV, Cradle              | Automated batch reporting from command line utilities   |

## Supported Platforms

| Component        | Details   |
|------------------|---|
| Windows          | 7 SP1, 8.1, 10 (32/64-bit)<br>Server 2008 R2 SP1 (32/64-bit)<br>Server 2012 (64-bit)<br>Server 2012 R2 (64-bit)<br>Server 2016 (64-bit) |
| Linux            | Any 32/64-bit with a kernel $\geq 2.6.32$   |
| PDF Viewer       | Acrobat/Reader 9 or later   |
| Web Browser      | IE, Firefox, Chrome, Edge: latest available   |
| Microsoft Office | 2007 SP3 (32-bit)<br>2010 SP2 (32/64-bit)<br>2013 SP1 (32/64-bit)<br>2016 (32/64-bit)   |
| Other Office     | OpenOffice $\geq 4$ , LibreOffice $\geq 5$  |

## Characteristics

| Characteristic    | Details  |
|-------------------|--|
| Users             | Single   |
| Modules Included  | PDM REQ MET DASH DOC                                   |
| Project databases | Unlimited  |
| Items / database  | Unlimited  |
| Links / database  | Unlimited  |
| Limits            | Per database $\leq 25$ item types $\leq 50$ categories |
|                   | Per item $\leq 25$ frames                              |

Cradle-RM Pro is part of the Cradle product range. The full, multi-user, product is Cradle Enterprise.



# Cradle-SE Desktop

## PRODUCT HIGHLIGHTS

- ▶ APPLIES TO AGILE AND PHASE PROJECTS
- ▶ APPLICATION LIFECYCLE MANAGEMENT
- ▶ REQUIREMENTS MANAGEMENT
- ▶ MODELING / MBSE
- ▶ FULL LIFECYCLE INTEGRATION
- ▶ V&V
- ▶ REPORTING
- ▶ METRICS
- ▶ DASHBOARDS
- ▶ PROJECT PLANS
- ▶ COMPLIANCE MANAGEMENT
- ▶ SINGLE USER



## Model Based Systems Engineering Across the Systems Lifecycle

*Complete Application Lifecycle Management (ALM) and Model Based Systems Engineering (MBSE) solution for the entire project lifecycle, fully user-definable and applicable to all agile and phase-based processes*

Cradle-SE Desktop is a complete solution to manage and trace all the data for your agile and phase-based projects.

You can capture information from external documents and tools, and track changes. You can build new sets of requirements, analysis, architecture and design models, tests or verifications, and link them to the source data and to each other. You can check the consistency and quality of this information, and prove the integrity of the models and other data with bi-directional coverage and traceability analyses.

You can raise customers' confidence with proof that your work satisfies its sources and constraints, and will meet their needs.

You can easily track progress with metrics and KPIs and link to your WBS and actual progress to your project planning tools.

You can create any number of databases, each with a schema and multiple projects that contain any number of items of any number of user-defined item types. Each item has any number of attributes with up to 1 TByte of data, held in Cradle, or referenced in files, URLs or other tools.

All items can be linked with user-defined types of cross reference. The links have attributes to justify, explain or parametrize them. Links are direct and indirect, for lifecycle traceability, impact and coverage analyses.

External documents can be loaded into hierarchies of items. Every item in Cradle is linked to its source in a document. Changes in new document versions are automatically found and the database updated. You can prove the integrity of your source data to customers with a range of detailed coverage analyses of their documents.

Items can be linear, hierarchical and in many-to-many relationships. Items can be split, merged and reordered. All information can be shared and reused. Cradle can support product ranges, models, variants and builds, and compare them in tables, pivot tables and matrices.

- ▶ Supports the full systems development lifecycle at system, subsystem and lower levels
- ▶ Integrates in one product features normally spread across separate tools from different vendors
- ▶ Completely user-definable and user-extensible with point-and-click UIs
- ▶ Manage any information, including requirements, models, risks, interfaces, tests and verifications
- ▶ Scalable to millions of items of information
- ▶ Full traceability of data from external sources and version management of source documents
- ▶ Full traceability and coverage analyses
- ▶ User-definable views of data including tables, trees, documents, matrices, diagrams and graphs
- ▶ User-defined metrics and management dashboards

Create any number of analysis, process, architecture and design models using UML, SASD, IDEF, ADARTS, SysML and other notations. Optionally group models in hierarchies and link all elements of all models to requirements, SBS,



issues, test cases and all other information.

Cradle tracks all edits to every requirement, test case, verification and all other information that you want it to hold. Edits can be reversed selectively or by group. Full or partial change logs are readily available.

You define how information is viewed and reported in any number of views, shown as nested tables, trees, matrices, pivot tables, and as diagrams.

You can manage your projects with:

- Metrics, user-defined calculations of items' values
- Key Performance Indicators (KPIs) results of metric calculations with color-coded display bands
- Bi-directional links to Project, including user task lists and actual progress reporting

Cradle is open. It supports many import/export formats, has several interface mechanisms to link to other tools, and connects to the Microsoft Office® components Word, Excel, PowerPoint, Visio and Project.

Cradle is simple to customize and use. You do not need to learn a scripting language or become a programmer to tailor it to your process. After every change to your schema, Cradle will automatically update collections of queries, views and other definitions that make you productive immediately.

## Major Features

| Product and Tool Capabilities                                |   |
|--|---|
| Supports full system lifecycle                               | Agile and phase processes                               |
| Process independent  | Supports RM   |
| Supports managing functions and components                   | Supports test management                                |
| Manage Cost and System Breakdown Structures                  | Supports feature-driven development (FDD)               |
| Supports project V&V   | Load source documents (text, tables, figures and links) |
| Manage source document versions and differences              | Full lifecycle transitive traceability and coverage     |
| User-defined items and attributes                            | User-defined link types, link rules and link attributes |
| Fully linked model hierarchies with model sharing and reuse  | Full modeling and checking tools, inter-model checks    |
| Spell checking   | Quality (conformance) checks                            |
| Direct editing in tables and in user-defined forms           | 1:1, 1:N, M:N linking of all items                      |
| Drag-and-drop linking  | Graphical traceability views                            |
| User-defined queries, views, forms, hierarchies, navigations | Make child, sibling, hierarchy                          |
| Split and merge items  | Reordering of item hierarchies                          |
| Suspect item displays  | User-defined metrics                                    |
| Automated change histories                                   | User-defined calculations                               |
| User-defined progress graphs                                 | User-defined pivot tables                               |
| User-defined matrices  | Automated WBS and progress reporting                    |
| User-defined dashboards and KPIs                             | User-defined reports to CSV, Word, HTML, Excel          |
| User-defined Start Page UIs                                  | User-defined commands in table views                    |
| Import/export for XML (any schema), CSV, Cradle              | Automated batch reporting from command line utilities   |

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| Linux            | Any 32/64-bit with a kernel $\geq 2.6.32$   |
| PDF Viewer       | Acrobat/Reader 9 or later   |
| Web Browser      | IE, Firefox, Chrome, Edge: latest available   |
| Microsoft Office | 2007 SP3 (32-bit)<br>2010 SP2 (32/64-bit)<br>2013 SP1 (32/64-bit)<br>2016 (32/64-bit)   |
| Other Office     | OpenOffice $\geq 4$ , LibreOffice $\geq 5$  |

## Characteristics

| Characteristic    | Details  |
|-------------------|--|
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| Modules Included  | PDM REQ MET DASH SYS                                   |
| Project databases | Unlimited  |
| Items / database  | Unlimited  |
| Links / database  | Unlimited  |
| Limits            | Per database $\leq 25$ item types $\leq 50$ categories |
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## Cradle-SE Pro

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You can raise customers' confidence with proof that your work satisfies its sources and constraints, and will meet their needs.

You can easily track progress with metrics and KPIs and link to your WBS and actual progress to your project planning tools.

You can create any number of databases, each with a schema and multiple projects that contain any number of items of any number of user-defined item types. Each item has any number of attributes with up to 1 TByte of data, held in Cradle, or referenced in files, URLs or other tools.

All items can be linked with user-defined types of cross reference. The links have attributes to justify, explain or parametrize them. Links are direct and indirect, for lifecycle traceability, impact and coverage analyses.

External documents can be loaded into hierarchies of items. Every item in Cradle is linked to its source in a document. Changes in new document versions are automatically found and the database updated. You can prove the integrity of your source data to customers with a range of detailed coverage analyses of their documents.

Items can be linear, hierarchical and in many-to-many relationships. Items can be split, merged and reordered. All information can be shared and reused. Cradle can support product ranges, models, variants and builds, and compare them in tables, pivot tables and matrices.

- ▶ Supports the full systems development lifecycle at system, subsystem and lower levels
- ▶ Integrates in one product features normally spread across separate tools from different vendors
- ▶ Completely user-definable and user-extensible with point-and-click UIs
- ▶ Manage any information, including requirements, models, risks, interfaces, tests and verifications
- ▶ Scalable to millions of items of information
- ▶ Full traceability of data to source and generated documents with complete version management
- ▶ Full traceability and coverage analyses
- ▶ User-definable views of data including tables, trees, documents, matrices, diagrams and graphs
- ▶ User-defined metrics and management dashboards

Create any number of analysis, logical, process, architecture or design models in UML, SASD, IDEF, ADARTS, SysML and other notations. Optionally group models in hierarchies and link all elements of all models to requirements, SBS,



issues, test cases and all other information.

Cradle tracks all edits to every requirement, test case, verification and all other information that you want it to hold. Edits can be reversed selectively or by group. Full or partial change logs are readily available.

You define how information is viewed and reported in any number of views, shown as nested tables, trees, matrices, pivot tables, and as diagrams.

Generate versions of documents such as a URD, SRD, IRS, SDS and SSDS to match your or your client's formats with user-defined templates and detailed traceability of which items were published in each document issue.

You can manage your projects with:

- Metrics, user-defined calculations of items' values
- Key Performance Indicators (KPIs) results of metric calculations with color-coded display bands
- Bi-directional links to Project, including user task lists and actual progress reporting

Cradle is open. It supports many import/export formats, has several interface mechanisms to link to other tools, and connects to the Microsoft Office® components Word, Excel, PowerPoint, Visio and Project.

Cradle is simple to customize and use. You do not need to learn a scripting language or become a programmer to tailor it to your process. After every change to your schema, Cradle will automatically update collections of queries, views and other definitions that make you productive immediately.

## Major Features

| Product and Tool Capabilities                                |   |
|--|---|
| Supports full system lifecycle                               | Agile and phase processes                               |
| Process independent  | Supports RM   |
| Supports managing functions and components                   | Supports test management                                |
| Manage Cost and System Breakdown Structures                  | Supports feature-driven development (FDD)               |
| Supports project V&V   | Load source documents (text, tables, figures and links) |
| Manage source document versions and differences              | Full lifecycle transitive traceability and coverage     |
| User-defined items and attributes                            | User-defined link types, link rules and link attributes |
| Fully linked model hierarchies with model sharing and reuse  | Full modeling and checking tools, inter-model checks    |
| Spell checking   | Quality (conformance) checks                            |
| Direct editing in tables and in user-defined forms           | 1:1, 1:N, M:N linking of all items                      |
| Drag-and-drop linking  | Graphical traceability views                            |
| User-defined queries, views, forms, hierarchies, navigations | Make child, sibling, hierarchy                          |
| Split and merge items  | Reordering of item hierarchies                          |
| Traceability to/from document versions                       | User-defined document templates                         |
| Suspect item displays  | User-defined metrics                                    |
| Automated change histories                                   | User-defined calculations                               |
| User-defined progress graphs                                 | User-defined pivot tables                               |
| User-defined matrices  | Automated WBS and progress reporting                    |
| User-defined dashboards and KPIs                             | User-defined reports to CSV, Word, HTML, Excel          |
| User-defined Start Page UIs                                  | User-defined commands in table views                    |
| Import/export for XML (any schema), CSV, Cradle              | Automated batch reporting from command line utilities   |

## Supported Platforms

| Component        | Details   |
|------------------|---|
| Windows          | 7 SP1, 8.1, 10 (32/64-bit)<br>Server 2008 R2 SP1 (32/64-bit)<br>Server 2012 (64-bit)<br>Server 2012 R2 (64-bit)<br>Server 2016 (64-bit) |
| Linux            | Any 32/64-bit with a kernel $\geq 2.6.32$   |
| PDF Viewer       | Acrobat/Reader 9 or later   |
| Web Browser      | IE, Firefox, Chrome, Edge: latest available   |
| Microsoft Office | 2007 SP3 (32-bit)<br>2010 SP2 (32/64-bit)<br>2013 SP1 (32/64-bit)<br>2016 (32/64-bit)   |
| Other Office     | OpenOffice $\geq 4$ , LibreOffice $\geq 5$  |

## Characteristics

| Characteristic    |              | Details                       |
|-------------------|--------------|-------------------------------|
| Users             |              | Single                        |
| Modules Included  |              | PDM REQ MET DASH SYS DOC      |
| Project databases |              | Unlimited                     |
| Items / database  |              | Unlimited                     |
| Links / database  |              | Unlimited                     |
| Limits            | Per database | ≤25 item types ≤50 categories |
|                   | Per item     | ≤25 frames                    |

**Cradle-SE Pro** is part of the Cradle product range. The full, multi-user, product is **Cradle Enterprise**.



# Cradle Enterprise

## PRODUCT HIGHLIGHTS

- ▶ APPLIES TO AGILE AND PHASE PROJECTS
- ▶ APPLICATION LIFECYCLE MANAGEMENT
- ▶ REQUIREMENTS MANAGEMENT
- ▶ MODELING / MBSE
- ▶ FULL LIFECYCLE INTEGRATION
- ▶ V&V / COMPLIANCE MANAGEMENT
- ▶ REPORTING
- ▶ DOCUMENT PUBLISHING
- ▶ METRICS
- ▶ DASHBOARDS
- ▶ PROJECT PLANS
- ▶ USER-DEFINED UIs
- ▶ CUSTOM WEB UIs
- ▶ CONFIGURATION MANAGEMENT
- ▶ MULTI-USER



## Collaborative Model Based Systems Engineering Across the Systems Lifecycle

*Complete Application Lifecycle Management (ALM), Model Based Systems Engineering (MBSE) and documentation solution for the entire project lifecycle, fully user-definable and applicable to all agile and phase-based processes*

Cradle Enterprise is a complete multi-user solution to manage, trace and document all data in your agile and phase-based projects.

You can capture information from external documents and tools, and track changes. You can build new sets of requirements, analysis, architecture and design models, tests or verifications, and link them to the source data and to each other. You can check the consistency and quality of this information, and prove the integrity of the models and other data with bi-directional coverage and traceability analyses.

You can raise customers' confidence with proof that your work satisfies its sources and constraints, and will meet their needs.

You can easily track progress with metrics and KPIs and link to your WBS and actual progress to your project planning tools.

You can create any number of databases, each with a schema and multiple projects that contain any number of items of any number of user-defined item types. Each item has any number of attributes with up to 1 TByte of data, held in Cradle, or referenced in files, URLs or other tools.

All items can be linked with user-defined types of cross reference. The links have attributes to justify, explain or parametrize them. Links are direct and indirect, for lifecycle traceability, impact and coverage analyses.

External documents can be loaded into hierarchies of items. Every item in Cradle is linked to its source in a document. Changes in new document versions are automatically found and the database updated. You can prove the integrity of all source data to customers with a range of detailed coverage analyses of their documents.

Items can be linear, hierarchical and in many-to-many relationships. Items can be split, merged and reordered. All information can be shared and reused. Cradle can support product ranges, models, variants and builds, and show comparisons between them as tables,

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- ▶ Manage any information, including requirements, models, risks, interfaces, tests and verifications
- ▶ Scalable to millions of items of information
- ▶ Full traceability of data to source and generated documents with complete version management
- ▶ Full traceability and coverage analyses
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- ▶ User-defined metrics and management dashboards

pivot tables & matrices.

Create any number of analysis, logical, process, architecture or design models in UML, SASD, IDEF, ADARTS, SysML and other notations. Group



models in hierarchies and link elements of all models to requirements, SBS, issues, test cases and all other information.

Cradle tracks all edits to each requirement, test case, verification and all other information that you want it to hold. Edits can be reversed selectively or by group. Full or partial change logs are readily available.

Control the work with team hierarchies, roles and access controls. Review items with discussions, user-defined workflows and built-in CM with baselines, full version control and formal change management.

You define how information is viewed and reported in any number of views, shown as nested tables, trees, matrices, pivot tables, and as diagrams.

Generate versions of documents such as a URD, SRD, IRS, SDS and SSDS to match your or your client's formats with user-defined templates and detailed traceability of which items were published in each document issue.

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## Major Features

| Product and Tool Capabilities                                |   |
|--|---|
| Supports full system lifecycle                               | Agile and phase processes                               |
| Process independent  | Supports RM   |
| User-defined CM, baselines and workflows                     | Custom web UIs  |
| Alerts with e-mail delivery                                  | Publish database to websites                            |
| Collaboration and discussions                                | Performance analysis                                    |
| User-defined team hierarchies and access controls            | Code generation and reverse engineering                 |
| Supports managing functions and components                   | Supports test management                                |
| Supports project V&V   | Load source documents (text, tables, figures and links) |
| Manage source document versions and differences              | Full lifecycle transitive traceability and coverage     |
| User-defined items and attributes                            | User-defined link types, link rules and link attributes |
| Fully linked model hierarchies with model sharing and reuse  | Full modeling and checking tools, inter-model checks    |
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| Traceability to/from document versions                       | User-defined document templates                         |
| Suspect item displays  | User-defined metrics                                    |
| Automated change histories                                   | User-defined calculations                               |
| User-defined progress graphs                                 | User-defined pivot tables                               |
| User-defined matrices  | Automated WBS and progress reporting                    |
| User-defined dashboards and KPIs                             | User-defined reports to CSV, Word, HTML, Excel          |
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| Linux            | Any 32/64-bit with a kernel $\geq 2.6.32$   |
| PDF Viewer       | Acrobat/Reader 9 or later   |
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| Microsoft Office | 2007 SP3 (32-bit)<br>2010 SP2 (32/64-bit)<br>2013 SP1 (32/64-bit)<br>2016 (32/64-bit)   |
| Other Office     | OpenOffice $\geq 4$ , LibreOffice $\geq 5$  |

## Characteristics

| Characteristic   | Details                             |
|------------------|-------------------------------------|
| Users            | Up to 8,192                         |
| Modules Included | User-defined, all modules available |
| Database limit   | None                                |

Cradle Enterprise is part of the Cradle product range that includes low cost, single-user tools.

