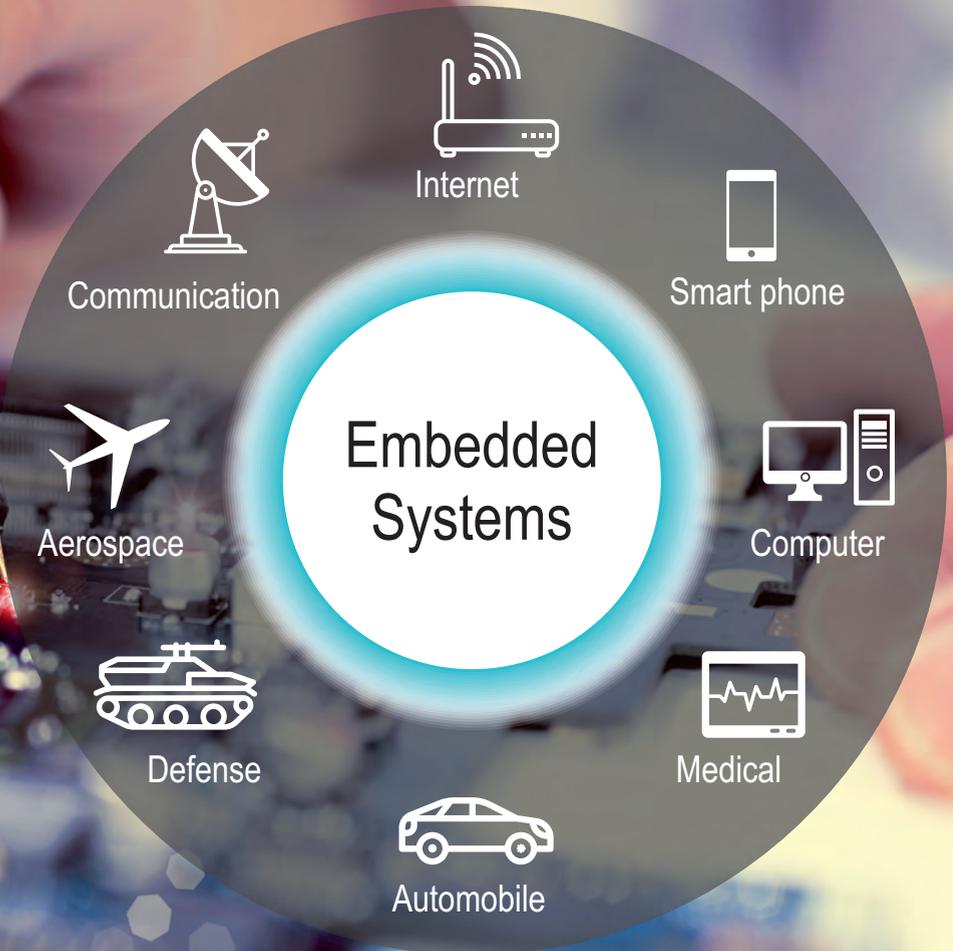


### Embedded Software Development Made Easy



- ✓ Are you a manufacturer of smart devices with embedded software?
- ✓ Are your products safety critical mandating strict compliance standards like DO-178B/C, DO-278, DO-254 (Aerospace & Defense), ISO 26262, MISRA, HIS (Automotive), IEC 61508 (Industrial & Energy), IEC 62304, FDA (Medical), EN 50128, CENELEC (Rail), FACE?
- ✓ Are you using disparate tools from multiple vendors in your software development life cycle?
- ✓ Are you facing silos and disruptions affecting delivery schedules due to lack of synergy and integration among the tools used?
- ✓ Do you need to automate code check-in build, test, and release cycles in order to achieve CI and ensure manual handoffs?

Today embedded software development projects involve large teams of developers, external stakeholders, third-party software technology vendors, chipset partners and open source tools. This requires engineering teams to manage, integrate and verify a wide range of software components from various sources. The ad hoc systems and years-old SDLC practices, especially in the areas of software integration and testing, pose several challenges to developers, integrators and testers. An automated, test-driven strategy helps reuse and automate tests whenever code changes.

Kovair Omnibus integration platform provides an integrated development and common test framework that supports and manages automated software verification throughout the development lifecycle of an embedded software - ensuring on-time delivery with uncompromised quality.

Application lifecycle for embedded systems include various phases like managing requirements, modelling, code development, code quality analysis, configuration management, problem tracking, validation test, test automation, release & deployment, performance monitoring etc. Each of these phases are implemented using domain specific tools. Kovair Omnibus platform along with tool specific adapters and plugins seamlessly integrates these tools for synchronizing data across the toolchain. This keeps all project stakeholders, managers, developers, testers, and operations team on the same page, making all artifacts traceable, and ensuring continuous integration and delivery without disruptions.

The platform enables developers and integrators to take more reliable and scalable approach to code writing, code quality analysis, code integration with other software components and delivering automated tests that are reusable. For testers, it helps in large-scale testing through automated execution of test assets. The platform allows for continuous monitoring and metrics gathering as well as application security compliance through other 3rd party tools integrations.

### **Benefits of using Kovair Omnibus Integrations platform:**

- ✓ Keep using existing best of breed tools
- ✓ Increases Productivity
- ✓ Reduces Cost and Time
- ✓ Improves Quality
- ✓ Meet Compliance & Standards
- ✓ Improved Collaboration & Transparency
- ✓ Traceability for all artifacts across toolchain
- ✓ Automated Workflows
- ✓ Achieve Continuous Integration and Delivery goals easily

**Kovair Omnibus creates an integrated software development and verification framework by connecting IDEs, code analysis, SCM, build, test, test automation and monitoring tools.**

Kovair Omnibus uses multi-vendor ALM/SDLC tools integration technology that is based on the Enterprise Service Bus (ESB) Architecture. Serving as the single data-repository of all essential ALM/SDLC services such as collaboration, traceability, process automation, security, reporting and analytics, Kovair Omnibus integrates multiple tools for multiple functions using tool-specific Kovair Adapters.

## Tool Integrations

Following is the list of embedded software development tools for which Kovair offers Omnibus integrations:

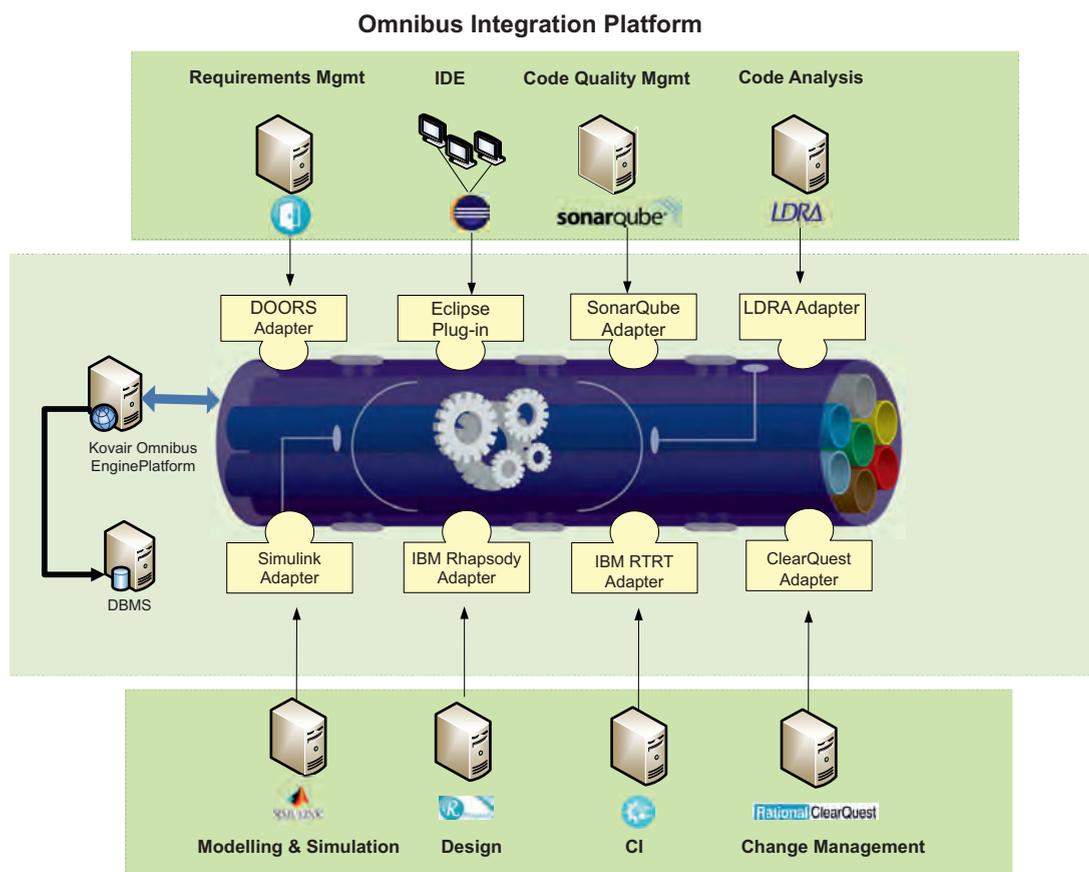
- ✓ **DOORS** – IBM Rational Doors is a popular tool for managing requirements and project scope.
- ✓ **Simulink** - Modeling and Simulation tool used in embedded development
- ✓ **Rhapsody** - IBM Rational Rhapsody solution is a model-driven development (MDD) environment that allows real-time or embedded systems engineering.
- ✓ **Eclipse** - Eclipse is a popular open source IDE tool for code development.
- ✓ **SonarQube** - Code analysis tool popular in embedded development.
- ✓ **RTRT** - (Rational Time Real Time) - IBM RTRT is used to generate profile memory and performance reports, analyze code coverage and visualize the behavior of a program execution.
- ✓ **LDRA** - This software quality and verification tool is popular in embedded development cycle.

## Kovair Omnibus features

- ✓ Ability to integrate multiple tools on the bus for the entire development & IT Lifecycle
- ✓ Service Oriented Architecture (SOA) based Enterprise Service Bus (ESB) Architecture
- ✓ Supports 2-way Synchronization and Federation
- ✓ Thin Adapters - no hard-coded business rules
- ✓ High level 'Tool Class'- specific API
- ✓ Conflict Detection and Mediation
- ✓ Omnibus augments integrated tools' capabilities for Process & Traceability
- ✓ Comprehensive and user-friendly Web interface
- ✓ Adapters can be created by users with API's from Kovair if needed
- ✓ Rich Plug-ins for popular IDEs to provide end users with visibility across tools
- ✓ Consolidated Reporting & Dashboards from Multiple ALM Tools

# Integration Adapters to be released in the near future

- ✓ **CodeWarrior** - IDE for embedded software development released by NXP.
- ✓ **KlockWork** - Comprehensive code analysis for security and reliability.
- ✓ **AppScan** - IBM Security AppScan is a web security and monitoring tool.
- ✓ **VectorCast** - Test automation for embedded software.
- ✓ **ConformIQ** - Next generation agile and test automation tool. Tests are automatically generated from models. This suite has multiple tools including ConformIQ 3600 Integrations that has plugins to integrate with other ALM software.
- ✓ **QA C++** - A software analysis tool for analyzing source code and enforce coding standard.
- ✓ **Siemens IDE (LMS ESD)** - An Integrated Development Environment for model-based software environment to facilitate modeling, coding and testing.



Note: The Kovair adapters follow the subject tool's standard specifications. Any deviations from the tool's typical use pattern may not have been anticipated in our off-the-shelf product. For any customization or special configuration needs, please contact Kovair Sales - [sales@kovair.com](mailto:sales@kovair.com)

Kovair Software, Inc: Kovair is a California based software product company specializing in the domain of Application Lifecycle Management (ALM). Kovair's focus on integrating third party best-of-breed ALM tools enables creation of applications in a synchronized tools environment.

Call us: 408 262 0200 Extn. 1

## US Corporate Office:

Kovair Software, Inc.  
2410 Camino Ramon, STE 230  
San Ramon, CA 94583  
1.408.262.0200 (Press 1)

## India Registered Office:

Kovair Software Pvt. Ltd.  
PTI Building, 6th Floor, DP- 9, Sector-V  
Salt Lake City, Kolkata – 700091  
91-33-4065 7016 / 17 / 18 / 19 (T)

## Bangalore Office:

Kovair Software Pvt. Ltd.  
Samad House, #402, 4th B cross, 7th A  
Main, HRBR Layout, Kalyan Nagar,  
Bangalore- 560043  
91-95350 92589 (T)

For Delhi and Noida area  
contact: 91-96506 98316

Website: [www.kovair.com](http://www.kovair.com) Email: [sales@kovair.com](mailto:sales@kovair.com)