

# HCLSoftware

## HCL DevOps Model RealTime

The Only Tool You Need to Develop Stateful,  
Event-Driven, and Real-Time Applications



### HCL DevOps

HCL DevOps Model RealTime is a development environment for creating event-driven, real-time applications in C++ providing software engineers with feature-rich tools for designing, analyzing, building, debugging and deploying real-time applications.

### > Features

- 01 Design your real-time applications using state machines, capsules and other powerful UML-RT concepts
- 02 Freely mix graphical diagrams with C++ code when developing applications
- 03 Generate consistent, readable, and efficient C++ code that prevents concurrency and performance problems
- 04 Build generated code together with other C++ code into an application or libraries with your compiler of choice
- 05 Support collaborative development in both large- and small-scale agile teams
- 06 Runs on latest Eclipse and integrates with EGit and CDT
- 07 Detect and fix problems using high-level model debugging
- 08 Write and execute unit tests for capsules using the Mocha framework
- 09 Visualize graphically how a protocol event can be routed in the composite structure of a capsule
- 10 Integrates with OneTest Embedded for capturing and visualizing execution coverage of state machines
- 11 Supports migration of models from Rational Rose Real-Time

## Benefits and value



### **Designing at a higher abstraction level than code:**

Providing UML real-time models, state-charts, composite structure, and other diagrams, and utilizing a powerful Code Editor built on Eclipse CDT.



### **Debugging at a high-level (verifies design and detects failures):**

Providing interactive model debugging and allowing trace management and visualization. The software also provides run-time structure monitoring and behavior animation, and offers combined model and code debugging.



### **Building executables your way:**

Building applications interactively and from batch builds to enable easy setup of build configurations while providing a highly-customizable run-time environment.



### **Teamwide collaboration with support for Git and other SCM systems:**

Model RealTime features an interactive and intuitive compare/merge of both model and code, and provides a powerful command-line interface. It also allows models to be accessed via web browsers and linked to requirements.



### **Application analysis:**

Features navigation and search with diagram highlighting, supports refactoring of models and code, and synchronizes code changes back to the model.



### **Code RealTime**

Users of Visual Studio Code and Eclipse Theia can use Code RealTime that allows to create C++ real-time applications based on the same run-time system as applications generated by Model RealTime.

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#### **About HCLSoftware**

HCLSoftware is a division of HCLTech (HCL) that operates its primary software business. It develops, markets, sells, and supports over 30 product families in the areas of Digital Transformation, Data Analytics & Insights, AI and Automation, and Enterprise Security. HCLSoftware has offices and labs around the world to serve thousands of customers. Its mission is to drive ultimate customer success with their IT investments through relentless innovation of its products.