IBM Rational SDL Suite V6.3 - A real-time, software development tool

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At a glance

IBM® Rational® SDL Suite is a real-time, software development tool that provides communications software specification and software development capabilities for complex, event-driven communications systems described using the ITU-T Specification and Description Language (SDL) standard.

Overview

SDL Suite's intuitive graphical syntax is simple enough for non-developers to understand structure and behavior, but still extensive enough to describe all the necessary details of a real-time system. The formality of the languages enables a number of unique features - such as the ability to simulate and mathematically validate your system, and then automatically generate and compile code that implements your system.

Key prerequisites

For details, refer to the Hardware requirements and the Software requirements sections.

Planned availability dates

- June 2, 2009 (electronic software delivery)
- June 19, 2009 (media and documentation)

Description

Describe typical scenarios with a visual trace language

The Message Sequence Charts (MSCs) Editor is a graphical tool for handling MSCs, supporting the graphical notation defined in the standard Z.120. The charts are used early in the development process as use cases. Later, automatically generated MSCs serve as a powerful graphical trace tool when simulating a system specified in SDL.
SDL Explorer can take an MSC that you create and test it against your SDL system to find out whether your MSC describes a possible behavior in your system.

High-level Message Sequence Charts (HMSCs) - or road maps as they sometimes are called - give users the possibility of building hierarchies of MSCs. Instead of drawing different MSCs for situations where perhaps just a single condition separates two cases, an HMSC can be drawn that describes alternative paths.

*Simulate to prove your concept*

SDL Suite offers a rich set of tools for simulation, both for verification and for validation. Verification is performed not only through static analysis, as described above, but also through an automatic exhaustive exploration of the SDL specification, and all included C code. This is done by testing all possible execution paths of the SDL system, during which a number of rules are checked and violations reported (such as, deadlocks, loops, and exceeded queue length). The result of the verification is presented as an easy-to-follow tree view.

In the validation phase, you confirm that the system does exactly what it is supposed to and nothing else. You can simulate in batch or in interactive mode through a graphical user interface. It is also possible to connect it to another SDL system, or to a TTCN test suite. You can monitor the progress of the simulation graphically and set breakpoints at your convenience.

Another of the major application areas of the validation tool is to verify that an SDL system is consistent with an MSC use case by checking whether there is a possible execution path that satisfies the MSC. This provides a powerful way to match your system behavior against for example, a requirements specification.

*Deploy your system visually*

The IBM Rational Deployment Editor is the first step towards full support to distributing an SDL system over several targets. It enables a graphical description of how the system will run physically and provides the documentation simultaneously. Based on UML diagrams, the IBM Rational Deployment Editor gives a complete overview of the SDL entities in the run-time environment, as well as the communication between them. The automatic code generation to build script ensures that the system is built according to the defined partitioning.

*Right on target*

The Targeting Expert offers a user-friendly way to set compilation and integration parameters that will simplify and speed up the actual application generation. In the Targeting Expert, the system - or parts of it - can be compiled automatically to executable applications. Depending on the selected code generator, the process of targeting is completely or partially supported. The Targeting Expert includes several ready-to-use configurations for targeting, which can easily be modified or extended if needed.

*Generate executable code without writing a line*

When the simulators have convinced you that your system is correct, it is time to generate the final application. The SDL compiler automatically translates from SDL to C/C++ environments. It is exactly the same generated C code that is used in simulations as in the applications, ensuring consistency between the tested system and its implementation.

IBM Rational SDL Suite offers three SDL compilers:

- Unrestricted C code generator that supports generation of any kind of executable code.
- Restricted coverage C code generator is optimized for very small embedded systems, where code efficiency, minimum memory demands, and high performance are especially required.
• The third C code generator blends the previous two, and in most cases, outperforms both of them in terms of SDL language coverage, memory usage, and code performance, especially in 3G telecommunications systems development.

Allow flexible integrations with other languages

IBM Rational SDL Suite offers two SDL compilers. One is an unrestricted C code generator that supports generation of any kind of executable code. The other C code generator is optimized for smaller embedded systems, where code efficiency, minimum memory demands, and high performance are especially required.

Unique support of key UMTS/IMT-2000 standards

As decided on by 3GPP, UMTS is the standard for third-generation mobile telephony. By supporting SDL, MSC, and TTCN, as well as Extended ASN.1 and PER encoding, IBM Rational SDL Suite and IBM Rational TTCN Suite encompass all of the important languages and techniques mentioned in the UMTS standard - allowing you to automatically generate code for UMTS applications.

This provides a unique tool solution for developing UMTS communications devices, which enables you to be first-to-market with newly developed UMTS products and services. The support allows you to import SDL and TTCN descriptions directly from the UMTS standard documents. It also saves you invaluable time as the Extended ASN.1 data syntax from the UMTS standard can be directly used, and then automatically encoded and decoded according to Basic Unaligned Packet Encoding Rules (PER) as defined in the standard.

Support ITU Standard SDL-2000 language implementation

SDL Suite offers support for the ITU specification Z.100, which integrates UML diagrams directly as an integral part of SDL, allowing SDL designers to use UML diagrams directly in the IBM Rational SDL Suite as part of the SDL design process. Other supported SDL-2000 concepts include textual algorithms, case sensitivity, and operators without parameters or without return results.

Offer ASN.1 BER/PER encoding and decoding

Available for both the IBM Rational SDL Suite and IBM Rational TTCN Suite, this much asked for feature enables you to convert the abstract ASN.1 data format to an actual bitstream. The tool supports the most common of rule sets, the Basic Encoding Rules (BER), as well as the 3G standard, Basic Unaligned PER.

This utility saves development teams invaluable time during the test and deployment stages of real-time systems in mixed environments. It also allows you to use the encoding engine to create custom encoding and decoding rules.

Integrate with your target environment

The SDL compilers include run-time libraries in source code that make it possible to develop portable applications that can be executed on any machine with a suitable C compiler. The same SDL structure is adapted to different architectures simply by choosing the appropriate template. That gives you a free choice between monotasking, multitasking, or distributed systems - including CORBA. Both the integration and the compilation of your system is simplified by the setting of target parameters in the Targeting Expert.

Communication with the environment is made flexible through a general and open framework for ASN.1-based encoding and decoding, giving you the benefit of automatically generated connections to the environment.

Choose your level of integration

Depending on your application, one of several operating system integration levels may be most suitable:

• Tight integration, in which the generated code interfaces directly with your run-time operating system so that scheduling of SDL processes, memory
management, timer handling, and so on are all customized and handled by the operating system.

- Bare integration, in which the generated code runs on the SDL Runtime Kernel, although you must write functions to handle signals to and from the environment of the SDL system. The signaling could, for example, be translated to socket communication.
- Light integration that in reality constitutes any level in-between the tight and bare integrations.

**Test your micro system hardware**

The IBM Rational SDL Target Tester (C-micro) is used on the target hardware to trace the activity of the system on an SDL level, and to run test suites by sending both environment and internal signals into the system. It is also possible to create and store error traces that can be used to diagnose a problem that occurs with a product when not connected to the host system - in a field test, for example.

**Generate your TTCN test suites**

In IBM Rational SDL Suite, test suite generation is supported by two tools - Autolink and SDL to TTCN Link. These provide an integrated SDL/TTCN environment with access to specifications in SDL directly from the TTCN test case editor. Autolink generates the constraints and dynamic behavior tables of your TTCN test suite. SDL to TTCN Link automatically generates the static parts of the test suite and gives specification-based support for the test case design. The tool also provides a means to check the consistency between an SDL system managed by SDL Suite, and a test specification expressed in TTCN and managed by IBM Rational TTCN Suite.

Regression testing, a powerful method of checking that old functionality still works when an SDL system has been updated, is also possible in the SDL Suite. You can run MSC test cases and if there are any inconsistencies between your SDL system and the MSCs, the errors are pointed out in the summary presented after the operation.

Regression testing, using MSCs, allows you to:

- Send signals to the SDL system and check returned signals
- Check if a process instance exists
- Check if process instance x is in state y
- Check process instance variable values

**Embedded operating system support capabilities**

SDL systems developed with IBM Rational SDL Suite can be integrated with any operating system or kernel for automatic generation of complete real-time applications. The standard delivery supports the following systems:

- Nucleus (Accelerated Technologies)
- OSE (Enea OSE Systems)
- Solaris (Sun Microsystems)
- VxWorks (WindRiver Systems)
- Win32 (Microsoft®)

IBM Rational SDL Suite supports the POSIX interface to allow easy integration with any POSIX-compliant operating system.

Integration with AMX, Chorus, EPOC, HyperStone, Lynx, MicroITRON, OSEK, pSOS, QNX, REOS, Virtuoso, VRTX, Windows® CE, and several other operating systems are available as specialized packages. For more information about integrations, contact your local IBM representative.
**Deliver full development cycle IBM Rational DOORS integration**

IBM Rational SDL Suite and IBM Rational TTCN Suite offer a complete integration with the world’s leading requirements management tool, IBM Rational DOORS. This integration allows you to easily synchronize your work with the requirements documents (for example, when new requirements have been added or if design elements have been added or deleted). The IBM Rational DOORS integration with IBM Rational SDL Suite and IBM Rational TTCN Suite deliver unique benefits because they allow you to trace requirements across the full development cycle all the way from analysis to test. It becomes easy to check that a particular requirement has been covered by SDL design, MSC simulation scenarios, and finally TTCN test cases.

**Allow automated document generation**

SDL Suite has built-in capabilities to produce design-level documentation using pre-built as well as user-defined templates.

### Availability of national languages

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**Program number**

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**Offering Information**

Product information is available via the Offering Information Web site

http://www.ibm.com/common/ssi

Also, visit the Passport Advantage® Web site

http://www.ibm.com/software/passportadvantage

**Publications**

No publications are shipped with this product.

The IBM Publications Center

http://www.ibm.com/shop/publications/order

The Publications Center is a worldwide central repository for IBM product publications and marketing material with a catalog of 70,000 items. Extensive search facilities are provided. Payment options for orders are via credit card (in the U.S.) or customer number for 20 countries. A large number of publications are available online in various file formats, and they can all be downloaded by all countries.
Technical information

Specified operating environment

**Hardware requirements**

- Minimum main memory: 256 MB
- Virtual Memory (Swap) size: 512 MB

**Software requirements**

- Microsoft Windows XP Professional SP3 or higher
- Microsoft Windows Vista Business or Enterprise SP1
- Linux® Red Hat Enterprise 4
- Sun Solaris 8/9/10

The program's specifications and specified operating environment information may be found in documentation accompanying the program, if available, such as a README file, or other information published by IBM, such as an announcement letter. Documentation and other program content may be supplied only in the English language.

Planning information

Software Subscription and Support (also referred to as Software Maintenance) is included with licenses purchased through Passport Advantage and Passport Advantage Express. Product upgrades and technical support are provided by the Software Subscription and Support (also referred to as Software Maintenance) offering as described in the Agreements. Product upgrades provide the latest versions and releases to entitled software, and technical support provides voice and electronic access to IBM support organizations, worldwide.

IBM includes one year of Software Subscription and Support (also referred to as Software Maintenance) with each program license acquired. The initial period of Software Subscription and Support (also referred to as Software Maintenance) can be extended by the purchase of a renewal option, if available.

**Packaging**

**IBM Rational SDL and TTCN Suite V6.3.0**

- IBM Rational SDL and TTCN Suite V6.3.0 Quick Start Guide
- IBM Rational SDL and TTCN Suite V6.3.0

**Security, auditability, and control**

The customer is responsible for evaluation, selection, and implementation of security features, administrative procedures, and appropriate controls in application systems and communication facilities.

**Software Services**

IBM Software Services has the breadth, depth, and reach to manage your services needs. You can leverage the deep technical skills of our lab-based, software services team and the business consulting, project management, and infrastructure expertise of our IBM Global Services team. Also, we extend our IBM Software Services reach through IBM Business Partners to provide an extensive portfolio of capabilities. Together, we provide the global reach, intellectual capital, industry insight, and technology leadership to support a wide range of critical business needs.
To learn more about IBM Software Services or to contact a Software Services sales specialist, visit

http://www.ibm.com/software/sw-services/

**Ordering information**

This product is only available via Passport Advantage. It is not available as shrinkwrap.

**Product information**

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You may utilize the program, including installation of the program on multiple servers, provided that use of the program occurs via a license server, and the total number of concurrent users does not exceed the total number of Floating User licenses obtained for the program.

Passport Advantage program licenses

**IBM Rational SDL Suite**

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IBM Rational SDL Suite

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IBM Rational SDL Suite

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IBM Rational SDL Suite

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### IBM Rational SDL Suite

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### IBM Rational SDL Explorer

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### IBM Rational SDL Viewer

**IBM Rational SDL Viewer Auth User**
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### IBM Rational MSC Suite

**IBM Rational MSC Tracer**
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- Ratl MSC Tracer Floating User SubSq FT Lic+S&S 12 Mo

### IBM Rational SDL Suite

**IBM Rational Deployment Editor**
- Ratl Deployment Editor Auth User Annual SW S&S Rnw1
- Ratl Deployment Editor Auth User Initl FT Lic+S&S 12 Mo
- Ratl Deployment Editor Auth User Lic + SW S&S 12 Mo
Ratl Deployment Editor Auth User SW S&S Reinstate 12 Mo D09HFLL
Ratl Deployment Editor Auth User SubSq FT Lic+S&S 12 Mo E06YLLL
Ratl Deployment Editor Floating User Annual SW S&S Rnwl E0781LL
Ratl Deployment Editor Floating User Init FT Lic+S&S D0986LL 12 Mo
Ratl Deployment Editor Floating User Lic + SW S&S 12 Mo D09NSLL
Ratl Deployment Editor Floating User SW S&S Reinstate D09H3LL 12 Mo
Ratl Deployment Editor Floating User SubSq FT Lic+S&S E06Z4LL 12 Mo

Passport Advantage Trade-up licenses

**IBM Rational SDL Suite**

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### IBM Rational SDL Suite

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### IBM Rational SDL Author V6.3.0

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