

# Systems Engineering with

# SDL

Developing  
Performance-Critical  
Communication Systems

Andreas Mitschele-Thiel

*"a comprehensive and  
well-structured reference  
which every SDL developer  
should have on their shelf."  
Anders Ek, Telnologic AB*

 WILEY

# Systems Engineering With Sdl Developing Performance Critical Communication Systems

**Laurent Doldi**



## **Systems Engineering With Sdl Developing Performance Critical Communication Systems:**

Systems Engineering with SDL Andreas Mitschele-Thiel, 2001-02-08 SDL Specification and Description Language is a modern high level programming language intended for the description of complex event driven real time and communicating systems SDL was originally designed to describe performance critical real time systems with precision and accuracy and if used correctly it can significantly enhance the performance of system designs This text is unique in the integration between performance and design issues describing the specific problems encountered when specifying designing and implementing communication systems with SDL and offers experience based advice and solutions Other topics covered include Navigating through complex design processes Strategies for deriving efficient implementations from SDL descriptions The latest version of SDL SDL 2000 Systems Engineering with SDL also includes a CD ROM containing a demonstration version of Telelogic s SDL design suite Tau the market leading SDL design tool which further reinforces the comprehensive integration between theory and practice Written by a former system architect at Alcatel who currently serves on the ITU standards body for SDL responsible for the development of performance and time aspects of the standard this valuable reference resource is principally of use to practitioners using SDL to develop communicating systems communication protocols distributed systems embedded systems especially systems architects development engineers and tool builders making strategic design decisions However the comprehensive coverage and concise and practical style make this text also applicable to students on graduate level courses on protocol engineering communication systems engineering and distributed systems **Systems**

**Engineering with SDL.** Andreas Mitschele-Thiel, 2003 SDL Specification and Description Language is a modern high level programming language intended for the description of complex event driven real time and communicating systems SDL was originally designed to describe performance critical real time systems with precision and accuracy and if used correctly it can significantly enhance the performance of system designs This text is unique in the integration between performance and design issues describing the specific problems encountered when specifying designing and implementing communication systems with SDL and offers experience b SDL 2013: Model Driven Dependability Engineering Ferhat Khendek, Maria Toeroe, Abdelouahed Gherbi, Rick Reed, 2013-06-12 This book constitutes the refereed proceedings of the 16th System Design Languages Forum SDL 2013 held in Montreal QC Canada in June 2013 The 16 revised high quality full papers presented were carefully reviewed and selected from 30 submissions The papers are organized in topical sections on verification and testing dependability engineering analysis domain specific languages model transformation specification and description language and evolution Validation of Communications Systems with SDL Laurent Doldi, 2003-09-12 Validation of Communications Systems with SDL provides a clear practical guide to validating by simulation a telecom system modelled in SDL SDL the Specification and Description Language standardised by the International Telecommunication Union ITU T is used to specify and develop complex systems such as GSM GPRS UMTS IEEE 802 11 or Hiperlan Since the downturn in the

telecom industry validating a system before its implementation has become mandatory to reduce costs This volume guides you step by step through the validation of a simplified protocol layer from interactive simulation to proof of properties using reachability analysis combined with observers Every step is explained using the two main SDL tools commercially available ObjectGeode™ and Tau SDL™ Suite both from Telelogic Contents Short tutorial on SDL Presentation of the protocol layer case study Interactive simulation MSC generation Scripting automatic non regression Auto matic validation against MSC HMSC etc Random simulation Exhaustive and bit state simulation Errors detected and not detected by simulation Other simulator features This book offers you the opportunity to Learn expert validation techniques and tips Master advanced simulation features of Telelogic ObjectGeode™ and Tau SDL Suite™ Practice 156 hands on exercises with solutions The SDL models and scripts used in the exercises can be downloaded from the Web

**SDL 2005: Model Driven** Andreas Prinz,Rick Reed,Jeanne Reed,2005-06-02 This volume contains the papers presented at the 12th SDL Forum Grimstad Norway The SDL Forum was rst held in 1982 and then every two years from 1985 Initially the Forum was concerned only with the Speci cation and Description Language that was rst standardized in the 1976 Orange Book of the Inter tional Telecommunication Union ITU Since then many developments took place and the language has undergone several changes However the main underlying paradigm has survived and it is the reason for the success of the Speci cation and Description Language in many projects This paradigm is based on the following important principles of distributed plications Communication large systems tend to be described using smaller parts that communicate with each other State the systems are described on the basis of an explicit notion of state State change the behavior of the system is described in terms of local changes of the state The original language is not the only representative for this kind of paradigm so the scope of the SDL Forum was extended quite soon after the rst few events to also include other ITU standardized languages of the same family such as MSC ASN 1 and TTCN This led to the current scope of System Design Languages coveringallstagesofthedevelopmentprocessincludinginparticularSDL MSC UML ASN 1 eODL TTCN and URN The focus is clearly on the advantages to users and how to get from these languages the same advantage given by the ITU Speci cation and Description Language code generation from high level speci cations

**SDL 2011: Integrating System and Software Modeling** Iulian Ober,Ileana Ober,2011-12-03 This book constitutes the thoroughly refereed post conference proceedings of the 15th International SDL Forum SDL 2011 held in Toulouse France in July 2011 The 16 revised full papers presented together were carefully reviewed and selected for inclusion in the book The papers cover a wide range of topics such as SDL and related languages testing and services and components to a wide range presentations of domain specific languages and applications going from use maps to train station models or user interfaces for scientific dataset editors for high performance computing

**SDL 2001: Meeting UML** Rick Reed,Jeanne Reed,2003-06-29 This volume contains the papers presented at the Tenth SDL Forum Cop hagen SDL is the Speci cation and Description Language rst standardized by the world

telecommunications body the International Telecommunications Union ITU more than 20 years ago in 1976 While the original language and domain of application has evolved significantly the foundations of SDL as a graphical state transition and process communication language for real time systems have remained Today SDL has also grown to be one notation in the set of unified modelling languages recommended by the ITU ASN 1 MSC SDL ODL and TTCN that can be used in methodology taking engineering of systems from requirements capture through to testing and operation The SDL Forum is held every two years and has become the most important event in the calendar for anyone involved in SDL and related languages and technology The SDL Forum Society that runs the Forum is a non profit organization whose aim it is to promote and develop these languages

**System Level Design Model with Reuse of System IP** Patrizia Cavalloro, Christophe Gendarme, Klaus Kronlöf, Jean Mermet, J. van Sas, Kari Tiensyrjä, Nikolaos Voros, 2003-09-30 This book addresses system design providing a framework for assessing and developing system design practices that observe and utilise reuse of system design know how The know how accumulated in the companies represents an intellectual asset or property IP

*Protocol Engineering* Hartmut König, 2012-10-08 Communication protocols form the operational basis of computer networks and telecommunication systems They are behavior conventions that describe how communication systems interact with each other defining the temporal order of the interactions and the formats of the data units exchanged essentially they determine the efficiency and reliability of computer networks Protocol Engineering is an important discipline covering the design validation and implementation of communication protocols Part I of this book is devoted to the fundamentals of communication protocols describing their working principles and implicitly also those of computer networks The author introduces the concepts of service protocol layer and layered architecture and introduces the main elements required in the description of protocols using a model language He then presents the most important protocol functions Part II deals with the description of communication protocols offering an overview of the various formal methods the essence of Protocol Engineering The author introduces the fundamental description methods such as finite state machines Petri nets process calculi and temporal logics that are in part used as semantic models for formal description techniques He then introduces one representative technique for each of the main description approaches among others SDL and LOTOS and surveys the use of UML for describing protocols Part III covers the protocol life cycle and the most important development stages presenting the reader with approaches for systematic protocol design with various verification methods with the main implementation techniques and with strategies for their testing in particular with conformance and interoperability tests and the test description language TTCN The author uses the simple data transfer example protocol XDT eXample Data Transfer throughout the book as a reference protocol to exemplify the various description techniques and to demonstrate important validation and implementation approaches The book is an introduction to communication protocols and their development for undergraduate and graduate students of computer science and communication technology and it is also a suitable reference

for engineers and programmers Most chapters contain exercises and the author s accompanying website provides further online material including a complete formal description of the XDT protocol and an animated simulation visualizing its behavior     *System Analysis and Modeling: Theory and Practice* Oystein Haugen,Rick Reed,Reinhard Gotzhein,2013-02-11 This book constitutes revised papers of the proceedings of the 7th International Workshop on System Analysis and Modeling SAM 2012 held in Innsbruck Austria in October 2012 The 12 papers presented were carefully reviewed and selected from 27 submissions In addition the book contains two keynote speeches in full paper length The contributions are organized in topical sections named test and analysis language enhancements fuzzy subjects components and composition and configuring and product lines

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