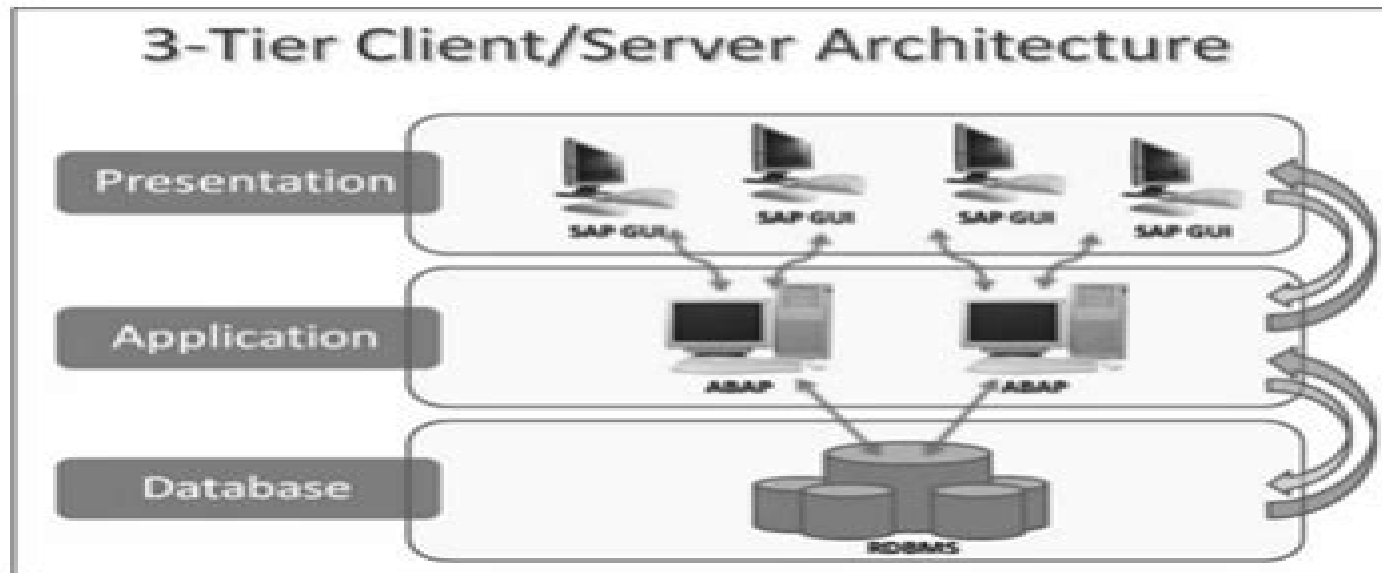


# SAP ABAP - Quick Guide

## SAP ABAP - Overview

ABAP stands for *Advanced Business Application Programming*, a 4GL (4th generation) language. Currently it is positioned, along with Java, as the main language for SAP application server programming.

Let's start with the high level architecture of SAP system. The 3-tier Client/Server architecture of a typical SAP system is depicted as follows.



The **Presentation layer** consists of any input device that can be used to control SAP system. This could be a web browser, a mobile device and so on. All the central processing takes place in **Application server**. The Application server is not just one system in itself, but it can be multiple instances of the processing system. The server communicates with the **Database layer** that is usually kept on a separate server, mainly for performance reasons and also for security.

# Sap Abap Guide

**Dr. Boris Rubarth**

A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the author's name.

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Practical Guide to SAP ABAP Part 1: Conceptual Design, Development, Debugging Thomas Stutenbäumer, This book offers a comprehensive practical guide to SAP ABAP for ABAP professionals Part I of this two part series lays the groundwork with ABAP basics Readers will learn fundamental methods and procedures for everyday ABAP use for example how to download files from SAP directories to workstations Dive into the SAP Data Dictionary and how it works Get detailed information on effective debugging techniques and how to use the SAP Debugger Clarify when it is best to use standard SAP tables vs Z tables Get expert developer tips and tricks including how to navigate ALV grid lists Understand the documentation programs available to you and how to use them Obtain useful reference lists of SAP transactions and SAP database tables By using practical examples tips and screenshots the author brings readers up to speed on the fundamentals of SAP ABAP How to get the most out of SAP ABAP Guide for understanding and using the SAP Data Dictionary Beginner and advanced debugging techniques Expert ABAP development techniques

**Practical Guide to SAP ABAP Part 2: Performance, Enhancements, Transports** Thomas Stutenbäumer, This book offers a comprehensive practical guide to SAP ABAP development for ABAP professionals Part 2 explores program performance authorizations error analysis corrections and SAP Transport Management along with how to tailor SAP applications Dive into performance analysis and get tips on using the performance trace and ABAP runtime analysis Walk through the tools available to enhance standard SAP applications such as the Modification Assistant user exits business add ins BADIs and the Enhancement Framework Identify techniques for authorization management and find out how SAP ABAP developers can impact data protection Obtain best practices for identifying the cause of application errors Get step by step instructions for transports and learn how to correct errors By using practical examples tips and screenshots the author brings readers up to speed on the fundamentals of SAP ABAP development Developer influence on performance SAP access and account management techniques Modifications and enhancements to SAP standard SAP Transport Management System

*SAP ABAP List Viewer (ALV) - A Practical Guide for ABAP Developers* Kathi Kones, This book is geared towards ABAP developers and offers detailed information on how to use SAP List Viewer ALV to display business data with an interface that lets users rearrange sort total and download data Obtain comprehensive information on how to write a basic ALV program Walk through a detailed training scenario and get tips on how to adapt the scenario for your company Readers will master two ALV types control framework and function modules Identify when to use object oriented techniques and when it may make more sense to quickly adjust existing ALV programs By using practical examples tips and screenshots the author brings ABAP developers up to speed on SAP ALV Learn how to write a basic SAP ALV program Walk through the object oriented control framework and function modules Get tips on adding sorting and grouping features Dive into how to add editable fields events and layout variants

*First Steps in Abap* Boris Rubarth, 2013-09-17 A lot of SAP professionals start their careers as programmers and focus on turning functional

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*Interface Programming in SAP ABAP* Boris Rubarth, 2018-08-03 Interface programming in SAP ABAP offers a straightforward path into the world of ABAP interfaces This book introduces readers to all relevant classic technologies for system to system communication using ABAP including synchronous and asynchronous techniques Learn how to leverage the RFC protocol to create applications and gain an understanding of how it serves as a foundation for modern interfaces such as Web Services in ABAP Learn how to create an RFC in three minutes and walk through a detailed example Dive into creating and using BAPIs IDocs and ALE Explore important aspects of using function modules in SAP S/4HANA Get an overview of SAP Connectors Overview of classic SAP ABAP interface techniques Remote Function Call RFC and BAPIs IDoc and ALE Using Remote Function Module RFM and BAPIs in SAP S/4HANA *Practical Guide to SAP ABAP* Thomas Stutenbumer, 2016-03-08 This book offers a comprehensive practical guide to SAP ABAP for ABAP professionals Part I of this two part series lays the groundwork with ABAP basics Readers will learn fundamental methods and procedures for everyday ABAP use for example how to download files from SAP directories to workstations Dive into the SAP Data Dictionary and how it works Get detailed information on effective debugging techniques and how to use the SAP Debugger Clarify when it is best to use standard SAP tables vs Z tables Get expert developer tips and tricks including how to navigate ALV grid lists Understand the documentation programs available to you and how to use them Obtain useful reference lists of SAP transactions and SAP database tables By using practical examples tips and screenshots the author brings readers up to speed on the fundamentals of SAP ABAP How to get the most out of SAP ABAP Guide for understanding and using the SAP Data Dictionary Beginner and advanced debugging techniques Expert ABAP development techniques *The Essential SAP*

*Career Guide - Hitting the Ground Running*, SAP is the world's leading enterprise applications provider with software solutions for companies of all sizes and industries. Nearly 80% of Fortune 500 companies rely on SAP to run their inventory management, financials, human resources, purchasing, and sales business processes. There are numerous job opportunities for all experience levels, and the right approach can fast-track your career. This book is written for students and professionals aspiring to start a career with SAP as a consultant or users. This second edition includes interviews with leading SAP professionals with diverse career paths. This book covers key SAP career topics including Fundamentals of an SAP job search, Interviews with leading SAP professionals in diverse career paths, Tips for choosing the right SAP module for you, Important SAP skills/tools.

**The SAP R/3® Guide to EDI and Interfaces** Axel Angeli, Ulrich Streit, Robi Gonfalonieri, 2013-06-29 A book for whole R/3 teams including team leaders, customizers, and developers to understand the benefits, financial risks, and technical backgrounds of IDocs and ALE in interface development. It covers the role of interfaces in an R/3 roll-out and the relationship to common standards like EDIFACT, ANSI X 12, or XML. A large number of recipes deliver templates as a basis of own enhancements. It also works out why many EDI projects are ten times as expensive as they could be.

**SAP ABAP Objects** Rehan Zaidi, 2019 Understand ABAP objects, the object-oriented extension of the SAP language ABAP, in the latest release of SAP NetWeaver 7.5 and its newest advancements. This book begins with the programming of objects in general and the basics of the ABAP language that a developer needs to know to get started. The most important topics needed to perform daily support jobs and ensure successful projects are covered. ABAP is a vast community with developers working in a variety of functional areas. You will be able to apply the concepts in this book to your area. SAP ABAP Objects is goal-directed rather than a collection of theoretical topics. It doesn't just touch on the surface of ABAP objects but goes in depth from building the basic foundation, e.g., classes and objects created locally and globally, to the intermediary areas, e.g., ALV programming, method chaining, polymorphism, simple and nested interfaces, and then finally into the advanced topics, e.g., shared memory, persistent objects. You will know how to use best practices to make better programs via ABAP objects. What You'll Learn: Know the latest advancements in ABAP objects with the new SAP NetWeaver system. Understand object-oriented ABAP classes and their components. Use object creation and instance methods/calls. Be familiar with the functions of the global class builder. Be exposed to advanced topics. Incorporate best practices for making object-oriented ABAP programs.

**First Steps in SAP ABAP - 2nd Edition** Dr. Boris Rubarth, 2023-03-25 If you're looking to master SAP ABAP Advanced Business Application Programming, this book is your perfect starting point. Written in a clear and concise style, this guide takes you through the basics of SAP ABAP programming, helping you build a strong foundation. Many SAP professionals start their careers as programmers and focus on turning functional specifications into technical specifications and writing code. Learn how to write your own ABAP code step by step and progressively build your own ABAP application. This updated 2nd edition provides you with the tools you need to get started with a job as an SAP ABAP programmer, including new information on ABAP.

Development Tools ADT Step by step instructions for beginners Comprehensive descriptions and code examples A guide to creating your first ABAP application Tutorials that provide answers to the most commonly asked programming questions

*SAP/ABAP HANA PROGRAMMING* Sudipta Malakar, 2018-06-06 DESCRIPTION The book has been written in such a way that the concepts are explained in detail giving adequate emphasis on examples To provide clarity on the programming examples logic is properly explained and discussed by using comments in the program itself The topics covered in this book include starting the software using snapshots of the same and writing programs Simple to complex SAP ABAP HANA examples are provided in detail considering the requirement of IT consultants the basic idea of developing projects in it The examples provided in this book are user focused and are provided through sections figures and examples KEY FEATURES Comprehensive coverage of SAP ABAP HANA with emphasis on real time case studies Practical examples along with Screen personas SAP Fiori cloud OPEN SQL Native SQL ADBC CDS support in SAP NW ABAP 7 4 SP5 SAP HANA Studio performance enabler Rules guidelines Simple language crystal clear approach straightforward comprehensible presentation Concepts are duly supported with examples Topic coverage with the aim to fill the skill gap between industry and academia SAP Business Suite powered by SAP HANA are helpful for developing projects for IT consultants **How to Pass the SAP ABAP Certification Exam** Paul Bakker, Rick Bakker, Demystify the SAP ABAP certification process and get the knowledge you need to pass the SAP Certified Development Associate exam This book offers a comprehensive guide to passing the certification exam dive into question formats review the core material you need to know and find out what to expect on the exam What are ABAP certification questions really like How many different formats are there Dive into the 11 certification topic areas including ABAP Dictionary ABAP programming ABAP Objects Web Dynpro for ABAP and enhancements and modifications Learn proven strategies for passing the exam including practical tips for maximizing your score This book includes realistic abbreviated and full length sample exams and a comprehensive checklist of topics that you will be expected to know Find out what to expect on the day of the exam If you have the ABAP skills this book gives you the best possible chance of passing the SAP Certified Development Associate exam Essential guide on how to pass the ABAP Associate Certification exam Overview of certification exam topics Proven strategies for passing the exam Abbreviated and full length practice exams with answer guides *Beginner's Guide to SAP Security and Authorizations* Tracy Juran, 2016-04-14 SAP has a wide range of built in functionality to meet various security requirements including network protection data protection and SAP authorizations This book will focus on the application of SAP authorizations and how user access can be limited by transaction codes organizational levels field values etc Explore the basic architecture of SAP Security and Authorizations including user master records roles profiles authorization object classes authorization objects and authorization fields Dive into how to create user profiles and assign roles Get tips on leveraging the profile generator transaction PFCG Obtain valuable tools and tables for identifying user master records and role and authorization information By using practical

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