

Implementing SAP S/4HANA

**A Framework for Planning and
Executing SAP S/4HANA
Projects**

Sanket Kulkarni

Apress®

Implementing SAP S/4HANA

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Printed on acid-free paper

*To my lovely wife, Archana,
and kids, Rohan and Anika*

Table of Contents

About the Author	xi
About the Technical Reviewer	xiii
Acknowledgments	xv
Introduction	xvii
Chapter 1: SAP S/4HANA Overview	1
New in SAP S/4HANA.....	3
New Architecture.....	3
Process Simplification.....	4
New User Experience	4
Deployment Choice.....	4
Summary of Changes	4
What Is in IT for Me?	5
How Should I Go About It?.....	7
SAP S/4HANA Implementation	8
Greenfield Implementation	8
Brownfield Implementation	9
Additional References	12
Chapter 2: Scope Areas of SAP S/4HANA	13
Creating the Implementation Framework	14
Functional Impact Assessment	16
Technical Impact Assessment.....	17

TABLE OF CONTENTS

Data Impact Assessment	17
Test Assessment	18
Technical Architecture Assessment	19
Organizational Change Management Assessment.....	20
SAP UX (Fiori) Assessment.....	20
SAP Analytics Assessment.....	21
Chapter 3: Process Effort in S/4HANA	23
Process Assessment	24
Identify Core Processes and Architecture	25
Understanding Process Vision.....	26
Understanding SAP S/4HANA Capabilities	28
Simplification List.....	29
Best Practices.....	30
Mapping S/4HANA Capabilities	31
Conclusion	35
Additional References	36
Chapter 4: Development in S/4HANA	37
Initial Considerations	37
Greenfield Implementation.....	41
Native SAP S/4HANA Development.....	42
SAP Cloud Platform	43
Brownfield Implementation.....	49
Using Code Inspector.....	50
Custom Code Remediation	52
Additional References	56

Chapter 5: Data Conversion in S/4HANA	57
Phases of Data Conversion	57
Data Objects in Scope	60
Data Conversion Tool Sets	63
SAP Data Services and Rapid Data Migration	63
SAP Legacy System Migration Workbench	65
Migration Cockpit and Migration Object Modeler	65
Data Conversion Methods	66
Data Conversion Processes	67
Data Cleansing	68
Data Validation	70
Mock Data Conversion	72
Data Conversion Cutover	74
Data Freeze	75
Business Partner Data Conversion	76
Additional Reference	77
Chapter 6: Testing Effort in S/4HANA	79
Testing Considerations	79
S/4HANA Test Environments	82
S/4HANA Test Cycles	83
Functional Unit Testing and Assembly Testing	84
System Integration Testing	85
User Acceptance Testing	86
Performance Testing	88
Regression Testing	91
Data Conversion Testing	92
Security Testing	93
Defect Management Process	93

TABLE OF CONTENTS

Chapter 7: Technical Architecture Effort in S/4HANA95

- High-Level Architecture96
- Technical Architecture Assessment98
 - Datacenter Strategy.....99
 - Scalability Requirements.....100
 - Change Management Landscape102
- S/4HANA Migration103
 - Step 1: Establish Prerequisites105
 - Step 2: Prepare for S/4HANA106
 - Step 3: Complete SAP S/4HANA Migration108
- S/4HANA Migration in Four-Tier Landscape.....109
- Security111
 - SAP Security Design and Build113
 - SAP Role Types115
 - Security for Nonproduction S/4HANA Systems117
- Additional References119

Chapter 8: Organizational Change Management in S/4HANA.....121

- OCM Strategy122
 - Change Impact Assessment124
 - Stakeholder Assessment126
 - Communication and Training Plan127
 - Communications Plan.....129
- Training Plan131

Chapter 9: Fiori in S/4HANA.....137

- Key Changes138
- Fiori App Categories140
 - Transactional Apps140

Analytical Apps	140
Fact Sheets.....	140
Fiori Architecture.....	141
Implementing SAP Fiori.....	143
Fiori Configuration	148
Fiori Authorizations.....	149
Additional References	150
Chapter 10: Embedded Analytics in S/4HANA	151
Understanding CDS Views.....	152
CDS Implementation	156
Integration with SAP Analytics	158
SAP BusinessObjects Analytics Suite and SAP Lumira Design Studio.....	158
SAP Analytics Cloud.....	158
SAP BW/4HANA.....	159
Scenario 1: SAP S/4HANA Embedded Analytics and SAP BW4/HANA in Two Different Instances	160
Scenario 2: SAP BW Embedded in SAP S/4HANA	160
Additional References	161
Chapter 11: Deployment and Governance Strategy for S/4HANA	163
Three-Pronged Approach	164
Deployment Constraints.....	166
Deployment Scenarios	167
Value and Functionality-Based Deployment.....	167
Big-Bang Deployment.....	167
Geography-Driven Deployment.....	168
Business Unit-Driven Deployment.....	168
Customer Segment-Driven Deployment	169

TABLE OF CONTENTS

Arriving at a Deployment Strategy 170

Governance Strategy..... 173

Chapter 12: Building a Business Case for S/4HANA181

 Business Case Evaluation Exercise..... 181

 Value Drivers 185

 SAP Value Lifecycle Manager 189

 Cost Drivers..... 190

 Scope Levers 194

 Delivery Levers 195

 Additional Considerations..... 195

 Building a Business Case..... 198

Chapter 13: Alternative S/4HANA Implementation Approaches . . . 201

 Central Finance 202

 Universal Journal..... 203

 Implementation Approach 205

 S/4HANA Cloud 208

 Implementation Considerations..... 211

 Bluefield Implementation 213

 Conclusion 215

Additional References..... 221

Index.....223

About the Author



Sanket Kulkarni has more than 18 years of experience in implementing SAP solutions worldwide. He has consulted with many customers on complex SAP transformations involving multiyear rollouts. He has worked across a range of industries including consumer goods, oil and gas, semiconductor, and transportation. Over the last few years, he has been coaching customers on SAP S/4HANA-driven digital transformations.

About the Technical Reviewer



Dinesh Mukundu Mohan is a Solution Architect with more than 20 years of IT work experience including 16 years of hands-on SAP experience implementing finance, controlling, planning, consolidation, budgeting, and forecasting solutions using S/4HANA, SAP BPC Optimized for S/4HANA, BPC 11 and 10.1, BW-BPS & IP, and BW and FICO, he has successfully delivered multiple S/4HANA, BPC, and BW implementations and S/4HANA migrations.

He has experience solutioning and enabling clients with decisions on the right range of applications, including S/4HANA, BW4HANA, BPC 10.1, and BPC 11, along with integration of Fiori and BO reporting tools like Lumira 2.X, Design Studio, Analysis for Office 2.X, and Web. His experience extends to working in multiple regions, including North America, Germany, Dubai, Australia, Mexico, Europe, China, and Thailand.

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In the small world of SAP consulting, you meet two types of people: rocks or rock stars. You know a rock star when you encounter such a person. The rock star is the one who is passionate about SAP, loves helping customers, and is always learning.

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As they say, it often takes a village to produce a book. Writing is just one portion of it. Thank you to the Apress team (Divya, Nikhil, and Matthew) for professionally handling the rest and making this book happen.

Introduction

SAP released SAP S/4HANA amid much fanfare in February 2015. It demonstrated the promise of the new in-memory computing database HANA, a sleek user interface (UI), Fiori apps, and enhanced functionality. Since then, SAP has improved the S/4HANA suite of products with best practices, industry templates, more than 7,000 Fiori apps, Embedded Analytics, and close integration with Leonardo.

As compared to the SAP ECC system, S/4HANA is a much more advanced enterprise application, well suited for intelligent enterprises. With its leading-edge tool set, possibilities with S/4HANA are limitless. Traditional SAP enterprise resource planning (ERP) systems often excelled at being systems of record. S/4HANA aspires to be a system of intelligence.

What does it mean for organizations embarking on the journey of S/4HANA? How can they plan their journey and not be derailed by the full range of information and choice available?

The days of superspecialization in the SAP space are slowly ending. If you are implementing S/4HANA, you should not only know about the business process, but also the SAP user experience, technical architecture, and cloud offerings, as well as analytics.

So, why did I write this book? Well, the key for successful S/4HANA implementation is developing an all-around view of the components and assess their impact up front. Most of the books or blogs on S/4HANA provide step-by-step information on a very niche topic, leaving you to figure out the big picture yourself. The purpose of this book is to develop the big picture the right way. It is to help you establish a well-rounded understanding of S/4HANA implementation and its associated components. You can always reach out the blogs and SAP help sites for further details.

Who Should Read This Book?

If you are considering SAP S/4HANA, either you are already an SAP customer or planning to be one. As such, I assume that you are familiar with SAP, although you need not be familiar with SAP S/4HANA.

If you are a vital stakeholder or executive who is considering implementing SAP S/4HANA, you will find this book useful, as S/4HANA is going to be the future of SAP as well as your business. This book is the first step in your S/4HANA journey.

How Is This Book Organized?

We begin with the introduction of SAP S/4HANA and discuss the value it brings to the table. We then outline fundamental implementation approaches such as Greenfield and Brownfield at the end of Chapter 1.

The S/4HANA journey starts with an assessment of existing capability vs. the functionality offered by S/4HANA. Chapter 2 discusses various types of assessments done during the planning phases. We then move toward a discussion of the functional aspects of S/4HANA and tools offered by SAP including simplification lists and best practices in Chapter 3.

Once customizations are shortlisted as part of the functional assessment, development is done either through custom code remediations or new SAP objects and apps. We discuss S/4HANA development standards and remediation aspects in Chapter 4.

Data conversion plays a significant role regardless of your implementation approach, whether Greenfield or Brownfield. SAP also offers tools for S/4HANA migration in the case of Brownfield implementations. We discuss data conversion strategy, including extract, transform, and load aspects, in Chapter 5.

Testing is an integral part of every project phase in S/4HANA, beginning in the planning phase. Overall, S/4HANA implementation is

testing intensive, with various cycles being run in parallel—regression, performance, integration testing, and so on. Chapter 6 discusses a variety of test cycles and dependencies among them.

Migration to a cloud infrastructure is often combined with S/4HANA implementation. Various technical architecture aspects such as sizing, datacenter management, S/4HANA migration, and security are discussed in Chapter 7.

S/4HANA changes organizations in many ways. Organization change management (OCM) is often sidelined as organizations struggle with low rates of user adoption and subsequent delays in deployment. Chapter 8 presents you with various approaches to improve user adoption and change management.

SAP Fiori is one of the key value propositions of S/4HANA. Chapter 9 discusses the Fiori architecture, ways to implement Fiori apps, and methods for customizing it.

Embedded Analytics offers real-time reporting via analytical apps. Views developed using Embedded Analytics can also be accessed by other reporting applications. Chapter 10 touches on an SAP analytics strategy and how Embedded Analytics can help.

S/4HANA implementation is one of the most important IT projects you will ever run. It requires proper considerations of program governance and deployment strategy. We discuss many options for deployment and program governance in Chapter 11.

All of this information culminates in the business case for S/4HANA. It is an objective assessment of the effort it takes to implement vis-à-vis the benefits it brings. Chapter 12 offers you guidelines to develop and manage a business case for S/4HANA implementation.

Finally, Chapter 13 discusses some unique aspects of S/4HANA implementation if you are going for a central finance implementation or S/4HANA on the cloud.

INTRODUCTION

All of the topics covered deserve a separate book by themselves if explored in detail. As stated earlier, the purpose of this book is to help you develop a navigational map for S/4HANA implementation, rather than spoon-feed you every step.

From Here

In the third century BC, Greek writer Plutarch put it best when he wrote, “Mind is not a vessel to be filled, rather a spark to be lighted.” I hope that as a reader of this book, you embark on the S/4HANA journey with a quiet confidence that comes only from your knowledge. I hope you enjoy the book.