Contents at a Glance

1 Introduction ................................................................. 17
2 Supply Chain Event Management ................................. 23
3 SAP Event Management .................................................. 41
4 Visibility Processes Supported in SAP Event Management 5.1 ................................................... 63
5 Architecture in SAP Event Management 5.1 .................. 95
6 Setting Up a Procure-to-Pay Scenario ......................... 117
7 Setting Up a Manufacturing Scenario ......................... 183
8 Setting Up an Order-to-Cash Scenario ......................... 217
9 Setting Up a Transportation Scenario ......................... 275
10 Setting Up a Returnable Transportable Scenario ............ 309
11 Integrating SAP Event Management with other SAP Solutions ......................................................... 339
12 Monitoring Procedures for SAP Event Management ....... 349
A Activities for SAP Event Management ......................... 367
B Transaction Codes ......................................................... 383
C SAP Notes on SAP Event Management ......................... 391
D The Author ................................................................ 399
Contents

Preface ............................................................................................................... 15

1 Introduction ............................................................................................. 17
  1.1 Who Is This Book For? .................................................................. 18
  1.2 How Is This Book Structured? ...................................................... 19
  1.3 Summary ..................................................................................... 21

2 Supply Chain Event Management ..................................................... 23
  2.1 Understanding Supply Chain Event Management ...................... 23
  2.2 Implementing Supply Chain Event Management ....................... 29
  2.3 Integrating SCOR within Supply Chain Event Management ...... 32
    2.3.1 The Process Modeling Pillar ............................................. 33
    2.3.2 The Performance Measurement Pillar ......................... 35
    2.3.3 The Best Practices Pillar ............................................. 35
  2.4 Supply Chain Event Management – Future Outlook ................... 37
  2.5 Summary ..................................................................................... 39

3 SAP Event Management ................................................................. 41
  3.1 SAP Event Management Overview ........................................... 41
  3.2 Using SAP Event Management to Achieve Supply Chain Visibility ................................................................................................................. 42
    3.2.1 Process Visibility ......................................................... 42
    3.2.2 Product Visibility ....................................................... 42
    3.2.3 Performance Visibility ............................................. 43
  3.3 SAP Event Management Components ........................................ 44
  3.4 Types of Events in SAP Event Management .............................. 45
  3.5 SAP Event Management Definitions ....................................... 47
    3.5.1 Application Object Type (Application System) ................ 47
    3.5.2 Event Handler (SAP Event Management) ...................... 47
    3.5.3 Event Message .......................................................... 48
3.6 SAP Event Management Capabilities .................................................. 50
3.6.1 Visibility ............................................................................... 50
3.6.2 Notification ......................................................................... 52
3.6.3 Response ........................................................................... 53
3.6.4 Collaboration .................................................................... 53
3.6.5 Analysis ............................................................................ 55
3.7 SAP Event Management in Service-Oriented Architecture (SOA) ... 55
3.8 SAP Event Management Example ................................................ 60
3.9 Summary ..................................................................................... 62

4 Visibility Processes Supported in SAP Event Management 5.1 .................................................. 63
4.1 Business Process Modeling Notation ............................................. 63
4.2 Procurement (SCOR - SOURCE) ..................................................... 64
4.2.1 Process Overview ............................................................... 65
4.2.2 Business Benefits ............................................................... 68
4.3 Production Malfunction (SCOR - MAKE) ..................................... 69
4.3.1 Process Overview ............................................................... 69
4.3.2 Business Benefits ............................................................... 71
4.4 Order Fulfillment (SCOR - DELIVER) ......................................... 72
4.4.1 Process Overview ............................................................... 73
4.4.2 Business Benefits ............................................................... 75
4.5 Transportation (SCOR - DELIVER) ............................................. 76
4.5.1 Process Overview ............................................................... 77
4.5.2 Business Benefits ............................................................... 81
4.6 Outbound and Inbound Delivery (SCOR - DELIVER) .................... 82
4.6.1 Process Overview ............................................................... 82
4.6.2 Business Benefits ............................................................... 84
4.7 RFID – Returnable Transport Item (SCOR - RETURN) .................. 85
4.7.1 Process Overview ............................................................... 85
4.7.2 Business Benefits ............................................................... 87
4.8 Seasonal Procurement (SCOR - SOURCE) .................................... 87
4.8.1 Process Overview ............................................................... 87
4.8.2 Business Benefits ............................................................... 90
Contents

4.9 Railcar Management (SCOR - DELIVER) ........................................ 90
4.9.1 Process Overview .......................................................... 91
4.9.2 Business Benefits ....................................................... 91
4.10 Summary ........................................................................... 92

5 Architecture in SAP Event Management 5.1 ......................... 95

5.1 System Architecture and Integration ................................. 95
5.2 SAP Event Management Deployment Options .................... 98
  5.2.1 SAP Event Management as an Add-On for SAP ERP ....... 98
  5.2.2 SAP Event Management as Part of SAP SCM .................. 99
  5.2.3 SAP Event Management as an Optional Add-On .......... 99
  5.2.4 Application Component Matrix ..................................... 101
5.3 Setting Up the SAP Event Management System ................... 103
  5.3.1 Setting up Communication with SAP Event Management from SAP ECC ........................................... 103
  5.3.2 Setting up Communication with SAP ECC from SAP Event Management ......................................... 106
  5.3.3 Setting up Communication Between SAP Event Management and SAP NetWeaver BW ........................... 107
5.4 SAP Event Management Technical ...................................... 109
  5.4.1 Connection of SAP Systems .......................................... 109
  5.4.2 SAP Exchange Infrastructure Integration .................... 114
5.5 Summary ........................................................................... 115

6 Setting Up a Procure-to-Pay Scenario ................................. 117

6.1 Business Scenario ........................................................... 117
6.2 SAP ECC Configuration .................................................... 121
  6.2.1 Business Process Type ................................................. 121
  6.2.2 Application Object Type ............................................. 123
  6.2.3 Event Types .............................................................. 130
6.3 Event Posting Techniques .................................................. 136
  6.3.1 Input Parameters ......................................................... 137
  6.3.2 Output tables ............................................................ 138
  6.3.3 BAPI Processing ......................................................... 140
  6.3.4 BAPI Posting Example – Purchase Order Release ........ 144
### Contents

6.4 SAP SCM Configuration .............................................................. 148  
6.4.1 Event Handler ................................................................. 148  
6.4.2 Event Notification ............................................................ 161  
6.4.3 Reaction to Event .............................................................. 164  
6.4.4 Web Communication ....................................................... 169  
6.4.5 Analytics ........................................................................ 172  
6.5 Scenario Monitoring in SAP Event Management 5.1 ................. 175  
6.5.1 Event Handler ................................................................. 176  
6.5.2 Web Dynpro Reporting .................................................... 178  
6.5.3 Overdue List .................................................................. 178  
6.5.4 Alert Inbox ..................................................................... 179  
6.6 Summary ................................................................................ 180  

7 Setting Up a Manufacturing Scenario ....................................... 183  
7.1 Business Scenario ................................................................. 183  
7.2 SAP ECC Configuration .......................................................... 186  
7.2.1 Business Process Type ................................................... 186  
7.2.2 Application Object Type ................................................ 189  
7.2.3 Event Types .................................................................... 194  
7.3 SAP SCM Configuration .......................................................... 198  
7.3.1 Event Handler ................................................................. 198  
7.3.2 Reaction to Event .............................................................. 205  
7.3.3 Web Communication Layer (WCL) with Authorization  
Model .................................................................................... 208  
7.3.4 Analytics ........................................................................ 211  
7.4 Scenario Monitoring in SAP Event Management 5.1 ................. 212  
7.5 Summary ................................................................................ 215  

8 Setting Up an Order-to-Cash Scenario ..................................... 217  
8.1 Business Scenario ................................................................. 218  
8.2 SAP ECC Configuration .......................................................... 220  
8.2.1 Business Process Type ................................................... 220  
8.2.2 Application Object Type ................................................ 223  
8.2.3 Event Types .................................................................... 244  
8.3 Event Posting Techniques ..................................................... 258
8.4 SAP SCM Configuration .............................................................. 262
   8.4.1 Event Handler ................................................................. 262
   8.4.2 Reaction to Event ........................................................... 267
   8.4.3 Web Communication ..................................................... 268
   8.4.4 Analytics .................................................................... 269
8.5 Scenario Monitoring in SAP Event Management 5.1 .................... 270
8.6 Summary .................................................................................. 273

9 Setting Up a Transportation Scenario ........................................ 275
   9.1 Transportation Business Processes ......................................... 275
      9.1.1 Transportation Planning ................................................ 276
      9.1.2 Transportation Execution ............................................. 277
      9.1.3 Transportation Monitoring and Controlling .................... 278
      9.1.4 Transportation Tendering ............................................. 279
      9.1.5 Transportation Scenarios ............................................. 280
   9.2 Visibility Export Scenario I – Road and Sea Shipments .......... 282
      9.2.1 Scenario Monitoring ................................................... 282
      9.2.2 Configuration Steps .................................................... 285
   9.3 Visibility Scenario II – Transportation Management .......... 289
      9.3.1 Tracking of Shipment Requests and Shipments ................ 290
      9.3.2 Tracking of Tours ...................................................... 293
      9.3.3 Tracking of Transportation Unit and Vehicle Resources ... 294
      9.3.4 Tracking of Supplier Shipment and Freight Quotes ...... 295
      9.3.5 Configuration Steps .................................................... 295
   9.4 Visibility Scenario III – SAP APO TP/VS Shipments and Tendering ................................................................. 301
      9.4.1 Configuration Steps .................................................... 303
   9.5 Transportation Analytics .......................................................... 307
   9.6 Summary .................................................................................. 308

10 Setting Up a Returnable Transportable Scenario ......................... 309
   10.1 Business Scenario ............................................................... 309
      10.1.1 Commission RTI Tag .................................................... 313
      10.1.2 Process RTI ............................................................... 314
      10.1.3 Decommission RTI Tag ................................................ 315
## Contents

10.2 SAP ECC Configuration ............................................................... 316  
  10.2.1 Business Process Type ..................................................... 316  
  10.2.2 Application Object Type ................................................. 317  
  10.2.3 Event Types ................................................................. 320  
10.3 SAP SCM Configuration .............................................................. 324  
  10.3.1 Event Handler ............................................................... 324  
  10.3.2 Reaction to Event ........................................................... 327  
  10.3.3 Setting Up the Web Interface ........................................ 328  
  10.3.4 BAdI Activation for SAP AII ............................................ 331  
10.4 Scenario Monitoring in SAP Event Management 5.1 .................... 331  
  10.4.1 Analytics and Reporting ................................................. 336  
10.5 Summary .................................................................................... 337  

11 Integrating SAP Event Management with other SAP Solutions ................. 339  
  11.1 SAP Supply Network Collaboration ............................................. 339  
  11.2 SAP Transportation Management ................................................ 342  
  11.3 SAP NetWeaver Business Warehouse ........................................... 344  
  11.4 SAP NetWeaver Portal ............................................................ 344  
  11.5 SAP Advanced Planning and Optimization .................................. 346  
  11.6 Summary .................................................................................... 347  

12 Monitoring Procedures for SAP Event Management  .............. 349  
  12.1 Monitoring ................................................................................ 349  
    12.1.1 Processing Control ......................................................... 349  
    12.1.2 Application Logs .......................................................... 351  
    12.1.3 Alert Monitoring with CCMS .......................................... 352  
    12.1.4 Interface Monitoring ...................................................... 354  
  12.2 Archiving and Deletion ............................................................. 354  
    12.2.1 Archiving ................................................................. 354  
    12.2.2 Growing Tables for SAP Event Management ................. 357  
    12.2.3 Deletion ................................................................. 358  
  12.3 Regular Batch Jobs ..................................................................... 358  
  12.4 Sizing .......................................................................................... 361  
    12.4.1 Sizing CPU and Memory ............................................. 361  
    12.4.2 Sizing the Disk ............................................................ 362
12.5 Event Handler Processing ............................................................ 362  
12.5.1 Event Handler Reprocessing ........................................... 362  
12.5.2 Simulation of Event Handler Processes ...................... 363  
12.6 Summary .................................................................................... 364

Appendices ..................................................................................... 365
A Activities for SAP Event Management ................................................... 367  
A.1 Rule Activity Function ................................................................. 367  
A.2 Rule Activity Method .................................................................. 370  
A.3 Expected Event Monitor Activity Function ............................. 376  
A.4 Expected Event Monitor Activity Method ............................... 377  
A.5 Event Handler Update Activity Function ................................. 379  
A.6 Event Handler Update Activity Method ................................. 379  
B Transaction Codes ................................................................................ 383  
B.1 SCM Event Manager Transaction Codes ...................................... 383  
B.2 SAP ECC Application System Transaction Codes ................. 388  
C SAP Notes on SAP Event Management ................................................. 391  
C.1 SAP SCM Event Manager ............................................................ 391  
C.2 SAP ECC Application System ....................................................... 396  
D The Author ........................................................................................... 399  
Index ........................................................................................................ 401
What is this book about? Who is it intended for? How is the book structured, and what is the best way for the reader to read and interpret the topics well?

1 Introduction

Supply chain event management (SCEM) is defined as an application supporting control processes for managing events within and between companies. This integrated software functionality supports five major business processes including the ability to monitor what’s happening within the supply chain, notify the right person in case of a delay or critical event, simulate activities, control your processes, and measure your supply chain activities so that you can adapt your business process and make it more effective and efficient.

The goal of supply chain event management is to introduce a proactive control mechanism in managing supply chain business events via exception management. This process allows customers to define business rules to detect operational issues in their supply chain and route notifications to the appropriate individuals or groups for remediation and resolution.

Companies that deploy supply chain event management can expect to achieve the following operational and economic benefits:

- **Lower inventory levels**
  Increasing the visibility of supply chains, makes it possible to place the right product at right time at the right amount. This ensures that the company carries buffer inventory for market demand variations.

- **Increased customer satisfaction**
  Visibility provides comfort to business partners to track and trace their orders. This increases customer service levels and order fulfillment metrics.
Introduction

- **Reduced transportation costs**
  The ability to see any operational issues upfront and be informed proactively reduces the number of rush orders or expedite shipments performed in the company. If the delays are identified well in advance, alternative options can be accommodated in the supply chain.

- **Reduced manufacturing costs**
  The stability of the production plan with seamless integration between planning, manufacturing, and plant maintenance ensures that the production plans runs smoothly as planned.

- **Reduced labor costs**
  There is less need for overtime to address unplanned events in the supply chain.

SAP Event Management provides real-time visibility into a company’s supply chain at a granular level — around planned and unplanned events — with near real-time status reporting, event overdue, alert notification, follow-up activity workflow, and analytics to measure supply chain metrics. The tool set helps companies identify business priorities, escalation paths, and guidance in resolving variations in supply chain business operations. Companies can take advantage of preconfigured visibility scenarios provided by SAP as a template in accelerating their implementation efforts.

This book provides you with a comprehensive explanation of the implementation and configuration of SAP Event Management in today’s adaptive supply chain environment. Using business process maps and the Supply Chain Operations Reference model (SCOR®) methodology, readers will learn the SCEM concept and SAP customization steps required for setting up SAP Event Management in an efficient and effective manner.

## 1.1 Who Is This Book For?

This book is aimed at supply chain practitioners who are concerned with learning the concept of supply chain event management and would like to implement and configure SAP Event Management functionality.
This book will teach you about the implementation framework and how to configure SAP Event Management. Using the SCOR framework and business process maps, the book explains visibility scenarios related to procurement, manufacturing, order fulfillment, transportation, and returns to give a complete picture of supply chain business SCOR processes. In addition, we explain system architecture, integration with other SAP solutions, and monitoring procedures when setting up SAP Event Management system.

Basic knowledge of supply chain management business processes and a sound understanding of material management, production planning, sales and distribution, and transportation in SAP ERP is required to fully understand the visibility scenarios explained in this book.

1.2 How Is This Book Structured?

The book consists of 12 chapters:

**Chapter 2**, Supply Chain Event Management, describes the concept and implementation framework. It also highlights the SCOR methodology, which can be integrated while deploying the concept and functionality.

**Chapter 3**, SAP Event Management, provides an overview of the functionality and its key definitions and capabilities. The chapter also details how to leverage SAP Event Management in a service-oriented architecture (SOA).

**Chapter 4**, Visibility Processes Supported in SAP Event Management 5.1, details the supply chain visibility processes that SAP provides as preconfigured templates. The chapter highlights the business processes mapping and business benefits of implementing supply chain event management.

**Chapter 5**, Architecture in SAP Event Management 5.1, deals with the technical landscape, deployment options, communication, and connectivity options available in SAP Event Management. The chapter also provides details on the hardware sizing for SAP Event Management.
Chapter 6, Setting Up a Procure-to-Pay Scenario with SAP Event Management, details the customizations required in SAP ERP Central Component (ECC) and SAP Supply Chain Management (SCM) environments and how to use the functionality capabilities in a purchasing environment.

Chapter 7, Setting Up a Manufacturing Scenario with SAP Event Management, details the customizations required in SAP ECC and SAP SCM environments and how to use the functionality capabilities in a manufacturing environment.

Chapter 8, Setting Up an Order-to-Cash Scenario with SAP Event Management, details the customizations required in SAP ECC and SAP SCM environments and how to use the functionality capabilities in an order management environment.

Chapter 9, Setting Up a Transportation Scenario with SAP Event Management, details the customizations required in SAP Transportation Management (TM) and SAP SCM environments and how to use the functionality capabilities in a transportation environment.

Chapter 10, Setting Up a Returnable Transportable Scenario with SAP Event Management, details the customizations required in SAP ECC and SAP SCM environments and how to use the functionality capabilities in a returnable transportable items environment.

Chapter 11, Integrating SAP Event Management with Other SAP Solutions, deals with the possibility of integrating SAP Event Management with other SAP products. Examples are used to show how the integration provides benefit to the supply chain visibility processes.

Chapter 12, Monitoring Procedures for SAP Event Management, provides details about the monitoring process, routine background jobs, and archiving and deleting of data in SAP Event Management.

Appendices A – C list SAP Event Management transactions, rule set activity functions, and important SAP notes related to SAP Event Management implementations.
1.3 Summary

This chapter introduced supply chain event management and the functionality provided by SAP Event Management to support the supply chain visibility concept. The process and toolset allows companies to manage supply chain exceptions and build business rules for proactive monitoring of critical events and routing of exception notifications for remediation and resolution. The book serves as a technical guide for supply chain practitioners interested in implementing and configuring SAP Event Management.

The next chapter explains supply chain event management concepts in detail with example and provides an implementation methodology.
Index

A

Adaptive supply chains, 37
Agent-based supply chain optimization, 38
Alert framework, 41, 167
Alert inbox, 179
Alert Monitoring with CCMS, 352
Analysis, 55
Analytics, 172
APO PP/DS alert, 215
Application component matrix, 101
Application logs, 351
Application object type, 47
Application object type relevance, 227
Architecture landscape, 97
Archiving, 354
Archiving object, 355
Archiving process, 355
Authorization model, 208
Authorization objects, 209
Auto-ID Cockpit, 332
Available to promise (ATP), 120

B

BAdI, 110, 304
BAPI EventHandler.
AddEventMessages02, 136
BAPI posting example, 144
BAPI processing, 140
Batch jobs, 358
Best practices pillar, 35
BPMN symbols, 64

Business add-ins for TP/VS integration
with SAP Event Management, 305
Business application programming
interface (BAPI), 114
Business benefits, 68, 71, 75, 81, 84, 87,
90, 91
Business challenges, 65, 72, 76
Business content, 172, 269
Business object extractor, 224
Business Process Modeling Notation, 63
Business process owners, 30
Business transaction events (BTEs), 110
BW extraction, 174
BW profile, 173

C

Carrier score-carding, 81
Cockpit, 30
Collaboration, 53
Collaboration between partners (CPIs),
272
Collaborative business process, 53
Communication Between SAP Event
Management and SAP NetWeaver BW,
107
Communication with SAP ECC from SAP
Event Management, 106
Communication with SAP Event
Management from SAP ECC, 103
Competitive advantage, 34
Computing Center Management System
(CCMS), 352
Condition editor, 193

401
Control and info parameter extractor, 230
Core Interface (CIF), 302
Critical path, 99

D
Dashboard, 30
Deletion, 358
Deployment options, 98
  SAP Event Management as optional add-on, 99
  SAP Event Management as part of SAP SCM, 99
Deployment options
  SAP Event Management as add-on for SAP ERP, 98
Device controller, 333
Document flow, 286
Document flow group, 288
Document flow object link model, 287

E
Early/late event, 46
Electronic data interchange (EDI), 301
Electronic product code (EPC), 313
End-to-end business process
  order-to-delivery, 26
Enterprise transparency, 43
Error handling, 359
Escalation paths, 41
Event, 50
Event-based response, 44
Event controller, 44
Event handler, 47
Event handler list, 284, 349
Event handler processing, 362
Event handler Reprocessing, 362
Event handler set, 50
Event management plan, 24
Event message, 48
Event message processing, 349
Event message tables, 143, 144
Event posting techniques, 258
Event posting techniques, 136
Event processor, 44
Exception-based alerting, 43
Expected event, 46
Expected event extractor, 234
Expected event monitor, 151, 350
Expected events processor, 45
Expected message date, 163
Extended connectivity, 43

F
Function module
  /SAPAPO/EVENT_MGR_FILL_TABCONT, 111
  /SAPTRX/BAPI_EH_ADDEVENTMSG_02, 258
  /SAPTRX/EVENT_MGR_COMMUNICATE, 111
  /SAPTRX/IDOC_INPUT_EVMSTA, 258
Function module template, 224

G
Global Returnable Assets Identifier (GRAI), 313
Growing tables for SAP Event Management, 357

I
IDoc EVMSTA02, 136
IDOC partner profile, 260
Implementation, 29
Inbound delivery, 82
Industry Solution Automotive, 61
Integrated view, 347
Interface monitoring, 354
International road shipment, 282
International sea shipment, 282
iViews, 344

evaluations in SAP NetWeaver BW, 213
event codes, 198
event handler, 198, 202
event handler set, 204
event type - notification, 196
event type - work order, 194
expected and unexpected events, 185
parameter mapping, 201
rule set, 206
status, 202
Manufacturing scenario with SAP Event Management
expected event profile, 198
Material requirement planning (MRP), 120
Mini-app, 344
Monitoring, 349

Java Connector (JCO), 97
Java Server Page (JSP) technology, 208

Key performance indicators, 32

Level of granularity, 133
Logistics Execution (LE), 303

Manual event posting, 162
Manufacturing scenario with SAP Event Management
application object type, 189
application object type - notification, 192
application object type - work order, 190
authorization, 208
business process, 184
business process type, 186
business scenario, 183

Material requirement planning (MRP), 120
Mini-app, 344
Monitoring, 349

Notification, 52

Order fulfillment, 72
Order-to-cash (OTC), 37, 217
Order-to-cash scenario with SAP Event Management
application object type, 223
business events, 219
business process type, 220
business scenario, 218
delivery event type, 252
event codes, 263
event handler, 262
event types, 244
expected event profile, 265
invoice event type, 256
Index

parameter mapping, 266
rule set, 267
sales order event type, 245
shipment event type, 256
status attributes, 266
status reporting, 271
web communication, 268

Original equipment manufacturers (OEMs), 60
Outbound delivery, 82
Overdue list, 178
Overdue List, 41

P

Parameter, 50
Perfect order fulfillment, 218
Perfect order metric, 77
Performance measurement pillar, 35
Performance metrics, 44
Performance visibility, 43
Personal Object Worklist Tracking (POWL), 343
Planned or expected event, 24
Plug-in, 103
Process-based approach, 29
Process chain, 211
Processing control, 349
Process modeling pillar, 33
Process overview, 65, 69, 73, 77, 82, 85, 87, 91
Process visibility, 42
Procure-to-pay scenario with SAP Event Management
   parameters, 153
Procure-to-pay, 36
Procure-to-pay scenario with SAP Event Management
   alert framework, 167
application object type, 123
business process type, 121
business scenario, 117
control and info parameters function, 129
event codes, 149
event handler, 148
event handler set, 159
event handler type, 157
event notification, 161
event types, 130
event types - tolerance tables, 135
expected and unexpected events, 120, 121
expected event functions, 128
expected event profile, 149
purchasing business activities, 119
purchasing business process, 119
rule set, 164
status, 155
tracking and query ID, 152
tracking ID, 130
web interface, 169
Production malfunction, 36, 69
Production malfunction visibility, 183
Product launches, 32
Product visibility, 42
Proof of delivery (POD), 218

Q

Query ID extractor, 234
Quick Sizer, 361

R

Radio frequency identification (RFID), 38, 311
Railcar management, 90
Reaction to event, 164
Relevance condition, 127
Residence time, 357
Response, 53
Responsive replenishment, 340
Retendering process in transportation, 280
Returnable transportable scenario with SAP Event Management
  analytics and reporting, 336
  application object type, 317
  business process type, 316
  business scenario, 309
  commission RTI tag, 313
  decommission RTI tag, 315
  event handler, 324
  event types, 320
  list of function modules, 321
  parameter mapping, 326
  process flow, 311
  process RTI, 314
  rule set, 327
  status, 326
  web interface, 328
Returnable transport item, 37, 85
Returnable transport items (RTIs), 309
RFID technology with SAP landscapes, 312
Role-based approach, 41
Roles in SAP Event Management, 208
Rule processor, 45
Rule sets, 50
S
Sales and Operations, 117
SAP Advanced Planning and Optimization (APO), 346
SAP APO Alert, 215
SAP APO TP/VS alerts, 306
SAP Auto-ID infrastructure, 101
SAP Auto-ID infrastructure (SAP AII), 313
SAP CCMS monitoring jobs, 353
SAP Event Management, 18
SAP Event Management Components, 45
SAP Event Management connection methods with SAP APO, 113
SAP Event Management connection methods with SAP R/3, 111, 112, 113
SAP Exchange Infrastructure (XI), 114
SAP NetWeaver BW data sources, 174
SAP NetWeaver Portal, 344
SAP NetWeaver Portal integration, 345
SAP object event repository (OER), 101
SAP SNC purchase order integration, 341
SAP SNC XML message monitoring, 342
SAP Supply Network Collaboration (SNC), 339
SAP TM document flow and monitoring, 343
SAP Transportation Management (TM), 289, 342
SAP XI integration with SAP Event Management, 115
Seasonal procurement, 87
Service-oriented architecture (SOA), 55
  Enterprise services, 56
Simulation of event handler, 363
Sizing
  Sizing CPU and Memory, 361
  Sizing the disk, 362
SOA template for event messages, 59
SOA template for tracked processes, 57
Software as a service (SaaS), 55
Status attribute, 50
Structure overview for tracked process, 57, 58
Structure overview for tracked process event notification, 59
Supplier collaboration, 339
Supplier score-carding, 68
Supply and demand, 31
Supply chain events, 24, 66, 70, 74, 79, 83, 86
Supply chain event assessment, 29
Supply chain event management (SCEM)
  concept, 23
  control, 25
  definition, 17
  example, 26
  goal, 24, 42
  measure, 25
  monitor, 25
  notify, 25
  Operational and economic benefits, 17
  simulate, 25
  supply chain visibility, 23
  tactical solution, 39
Supply chain event measurement, 29
Supply chain event transition, 29
Supply Chain Operations Reference model (SCOR)
  deliver, 33
  make, 33
  plan, 33
  return, 33
  source, 33
  three levels of processes, 34
Supply chain visibility, 339
System architecture and integration, 95

T

Terminology, 49
Tolerance ranges, 29

Tolerance rule, 163
Tolerance table, 134
TP/VS integration with SAP Event Management, 302
Tracked process, 56
Tracked process event notification, 56
Transportation, 37, 76
Transportation analytics, 307
Transportation execution, 277
Transportation monitoring and controlling, 278
Transportation planning, 276
Transportation Planning and Vehicle Scheduling (TP/VS), 301
Transportation planning functionalities, 276
Transportation process, 277
Transportation scenarios, 280
Transportation scenario with SAP Event Management
  Business processes, 275
  tracking of shipment requests and shipments, 290
  tracking of supplier shipment and freight quotes, 295
  tracking of tours, 293
  tracking of transportation unit and vehicle resources, 294
  visibility export scenario I - road and sea shipments, 282
  visibility scenario III - SAP APO TP/VS shipments and tendering, 301
  visibility scenario II - transportation management, 289
Transportation Service Provider (TSP), 301
Transportation tendering, 279
Type of Events in SAP Event Management, 45
### U

- Unexpected event, 46
- Unplanned or unexpected event, 24
- Unreported event, 46
- User exits, 110

### V

- Vehicle Management System (VMS), 60
- Visibility, 50
- Visibility scenarios, 18, 51
- Visibility scenario templates, 52
- Visibility solutions, 37
- VMS and SAP Event Management, 60

### W

- Web Application Server (AS), 95
- Web communication, 169
- Web Communication Layer (WCL), 50
- Web-Dynpro, 169
- Web Dynpro Reporting, 178
- Web server, 97
- Web status portal, 41
- Workflow, 41