

SAP-XI/PI ONLINE TRAINING COURSE CONTENT

SAP Process Integration

Instructor: SAP PI 7.3 Expertise in PI 7.3 & 7.31 Concepts

Chapter 1:

Introduction EAI Tools

Middleware Technology Tools other than XI

SAP XI / PI Vs Other Technologies in the same category

Introduction to SAP Net Weaver 7.0

Modules of SAP Net Weaver 7.0

Overview SAP Net Weaver Process Integration 7.1/7.3/7.31

Chapter 2:

System Landscape Directory

Software Catalog

- Product and Product Versions

- Software Unit

- Software Component and its versions

System Catalog

- Technical Systems

Business Systems

Chapter 3:

ESR (Enterprise Service Repository)

Importing Software Component Versions

Integration Scenario & Integration Process

Integration Scenario

Actions

Integration Process

Interface Objects

Service Interface

Message Type

Data Type

Context Object

External Definition

Mapping Objects

Message Mapping

ABAP Mapping

JAVA Mapping (DOM/SAX)

XSLT Mapping

Operation Mapping

Mapping Template

Imported Archives

Multi-Mapping

XML Validation (Integration Server/Adapter Engine)

Folders

Service Registry – UDDI3.0

Mapping Enhancements

Using Graphical Variables in Message Mapping

Share User-Defined Functions in Message Mappings

Import SQL Table's Metadata

Graphical Support for JDBC and RFC Lookups

Parameterized Message Mappings

Copy XML Subtree

Correct Structural Inconsistencies

Adapter Objects

Adapter Metadata

Communication Channel Template

Imported Objects

RFCs

IDOCs

Chapter 4:

Standard Functions

Node Functions

Text

Boolean

Conversions

Constants

Basic Java

User Define Function (UDF)

Simple UDF

Advance UDF

Enhanced Receiver Determination Scenario

Enhanced Interface Determination Scenario

Chapter 5:

Integration Builder:

Integration Directory

Creating Configuration Scenario

Party

Service without Party

Business System

Communication Channels

Business Service

Communication Channels

Integration Process

Receiver Determination

Interface Determination

Sender Agreements

Receiver Agreements

Integrated Configuration Scenarios (ICO)

Advance Adapter Engine (AAE)

XML Validations (Adapter Engine)

Integration Engine Configuration (SXMB_ADM)

Chapter 6:

Adapter Communication

Introduction to Adapters

Need of Adapters

Types and elaboration on various Adapters

1. FILE
2. SOAP
3. JDBC
4. IDOC
5. RFC
6. XI (Proxy Communication)
7. HTTP
8. Mail
9. CIDX
10. RNIF
11. BC
12. Market Place
13. WS-RM
14. IDOC_AAE
15. HTTP_AAE

Chapter 7:

Cross Component Business Process Management (ccBPM)

Introduction to BPM

Different types of steps in BPM.

Synchronous and Asynchronous Bridge in BPM.

BPM Patterns

Chapter 8:

Monitoring Tools

ABAP stack monitoring

JAVA stack Monitoring

Runtime Workbench

Complete End to End Scenarios to be handled in our Training Program

Chapter 9:

Non SAP to Non SAP Systems Integrations

1. FILE TO FILE
2. JDBC TO FILE
3. SOAP TO FILE
4. FILE TO JDBC
5. HTTP TO FILE

Chapter 10:

SAP to Non SAP Systems Integrations

6. IDOC TO FILE
7. RFC TO FILE
8. PROXY TO FILE

Chapter 11:

Non SAP to SAP Systems Integrations

9. FILE TO IDOC
10. FILE TO RFC
11. FILE TO PROXY

Chapter 12:

Non SAP to Non SAP Systems Integration using BPM

12. FILE TO FILE using BPM.

Non SAP to SAP to Non SAP Systems Integration using BPM

13. FILE TO RFC TO FILE using BPM

Chapter 13:

Transporting Interface overview

- File Based System
- CTS+

Alert Configurations (ALRTCATDEF) overview

AS2 Overview (Industry Adapter)

PGP (Encryption/Decryption) Overview

Chapter 14:

Monitoring Techniques:

SMQ2 Monitoring

SMQ1 Monitoring

Locking & unlocking of queues

Runtime Workbench Monitoring Techniques

Message Monitoring

Adapter Queue Status checking

Communication Channel Monitoring

Chapter 15:

Additional SAP PI 7.11 & PI7.3x New Features:

14. Advance Adapter Engine Extended (AEX).

15. Principal Propagation

16. User Define Message Search Configuration
(Integration Server/AAE).

17. Connecting ESR from SAP Net Weaver Developer
Studio

18. IDOC Packaging

19. SOA configuration for connectivity of Web Services and consumers based on SOA MANAGER
20. Message Prioritization
21. IDOC conversion adapter module
22. XI Message Protocol supported in AAE
23. Enhanced End to End Monitoring of Messages Status
24. IDOC and HTTP adapters in AAE
25. Very large (binary) file-to-file transfer
26. Auto-publication of Service Interfaces from ESR to Service Registry
27. Publish and subscribe messaging for JMS Topics

Chapter 16:

28. Development Project Implementation
29. Testing Project Implementation

Chapter 17:

**Trouble Shooting Interfaces and Real Time Scenarios
Walk Through**

Chapter 18:

30. Process Orchestration
31. AS2

32. OFTP

33. SFTP Adapters