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Training

ANSAwise - Welcome [to Building Applications with Distributed Objects]

Chris Mayers

Abstract

This is the 'welcome speech' to the course "Building Applications with Distributed Objects". It gives the course roadmap and timetable.

This course supersedes the one described by APM.1355. It is basically the Introduction to CORBA and CORBA in Depth courses, back to back. There is no coverage of ODP or ANSA.

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Welcome to

Building Applications with Distributed Objects

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About this course

- **This is an introduction to open distributed systems technology**
 - **focusing on the CORBA specifications from the Object Management Group**
- **It explains the main issues, the problems and extent of current solutions, and the terminology you'll need to grasp**



Course Timetable - Day 1

Module
<i>Welcome</i>
Distributed Object Systems in Action
Introduction to CORBA and OMG
<i>Break</i>
Templates for Distributed Applications
<i>Lunch</i>
The CORBA Object Management Architecture
Specifying Services in CORBA IDL
<i>Break</i>
CORBA Object Services
<i>Close</i>



Course Timetable - Day 2

Module
Remote Procedure Call in Distributed Systems
CORBA Directory Services
<i>Break</i>
Trading and Federation
<i>Lunch</i>
The CORBA Object Lifecycle
Persistent Data Storage with CORBA
<i>Break</i>
Engineering Distributed Systems
<i>Close</i>



Course Timetable - Day 3

Module
Transactions in Distributed Systems
CORBA and Real-time Systems
<i>Break</i>
CORBA Event Management and Message Queuing
<i>Lunch</i>
Exercise: Airport Shuttle System
CORBA Futures
Course Roundup
<i>Close</i>



Day 1 - morning

- **Distributed Object Systems in Action**
 - who uses distributed object technology in telecommunications?
 - what are the benefits?
- **Introduction to CORBA and the OMG**
 - what is the Object Management Group's Common Object Request Broker Architecture?
 - what are the components of the CORBA Object Management Architecture?
 - how is interoperability achieved in CORBA?
- **Templates for Distributed Applications**
 - what approaches are there for partitioning client/server applications into components?
 - what are the strengths and weaknesses of each approach?



Day 1 - afternoon

- **The CORBA Object Management Architecture**
 - what is the OMG Object Model?
 - what are the CORBA interfaces?
 - how are CORBA servers implemented?
- **Specifying Services in CORBA IDL**
 - what is the CORBA Interface Definition Language?
 - how is CORBA IDL used?
 - what are the basic features of CORBA IDL?
- **CORBA Object Services**
 - what are the functions of CORBA Object Services?
 - which Object Services are being specified?
 - when should each Object Service be used?



Day 2 - morning

- **Remote Procedure Call in Distributed Systems**
 - what is Remote Procedure Call and how does it work?
 - what are the different forms of Remote Procedure Call?
 - what are the performance implications?
- **CORBA Directory Services**
 - how do clients find servers in distributed systems?
 - what facilities do CORBA Object Services provide?
- **Trading and Federation**
 - how can clients find servers that provide the services that they need?
 - what criteria can be used to guide this process?
 - what are the implications of connecting together distributed systems?



Day 2 - afternoon

- **The CORBA Object Lifecycle**
 - how are objects created and destroyed in CORBA?
 - how can closely-related services simplify designs?
- **Persistent Data Storage with CORBA**
 - how can database technology be integrated with CORBA?
 - what does the CORBA Persistent Object service offer?
 - which other standards and interfaces are relevant?
- **Engineering Distributed Systems**
 - what trade-offs are necessary in distributed systems?
 - what techniques and mechanisms are available to help achieve these?



Day 3 - morning

- **Transactions in Distributed Systems**
 - how do database transactions integrate with distributed systems?
 - what standards are there for transaction services?
 - how does the CORBA Transaction service relate to these standards?
- **CORBA and Real-time Systems**
 - to what extent do current products support real-time distributed processing?
 - what are the design pitfalls?
 - how will CORBA products evolve to support real-time?
- **CORBA Event Management and Message Queuing**
 - how does CORBA deal with asynchronous events?
 - does queued messaging have a place in distributed systems?



Day 3 - afternoon

- **Exercise: Airport Shuttle System**
- **CORBA Futures**
 - **what work is in progress in the Object Management Group?**
 - **where do Microsoft's offerings fit in?**
 - **what is likely to happen in the longer term?**



Enjoy the course!

- ... and ask questions whenever you wish

