IT OVERVIEW
presented by
Taurus Enterprise Engineering
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Programming
Programming Languages
C
C++
C++ MFC
Pascal
Cobol
PL1
C#
Java
Python
SmallTalk
ADA
Modula2
Delphi
ABAP (SAP)
Ruby
Fortran
Lisp
Cobol
APL
PL/1
Scripting Languages
Types
Batch
CGI
UNIX scripting
Shell Scripting
Bash
Kshell
Cshell
Perl
C++
C
GREP
Tcl - Tool Command Language)
Tcl/Tk
Mainframe
CICS
CICSPLEX
DB2 (database)
JCL
IMS
IDMS
DL/1 (PL/1)
AS400
RPG
ILE/RPG
CL/400
Programming Environments
.NET
Framework
.NET 1.1
.NET 2.0
Prg. Lang.
C#
VB.Net
ASP.Net
ADO.Net
Java
Frameworks
Spring
Struts
Hinbernate
Swing
Components
Applets
Beans
Servlets
Middleware
JDBC
Development Environments - IDE
Sun JDK
J2EE (Enterprise Edition)
J2ME (Micro Edition for PDA)
J2SE (Std Edition)
Visual J++
Other
Java Transaction Service (JTS)
Java Messaging Service (JMS)
Enterprise JavaBeans (EJB)
Development Environment
MS Visual Studio
Web development
Application Servers
Apache
Tomcat
MS IIS (Internet Information Server)
BEA Weblogic
IBM Websphere
Oracle IAS
JBoss
JRun (Macromedia)
Languages
HTML
XML
XSLT
XSL
CSS
JavaScript
PHP
Flash
ASP - Active Server Pages
AJAX - Asynchronous JavaScript and XML
Tools
Drupal
Joomla
Information Systems
CIM - Computer Integrated Manufacturing
MRP - Material Resource Planning
MRP - Material Requirements Planning
ERP - Enterprise Resource Planning
CRM - Customer Relationship Management
SRM - Supplier Relationship Management
Data Warehousing
SCM - Supply Chain Management
MIS - Management Information System
GLIS - Global Information System
DSS - Decision Support System
EIS - Executive Information System
GDSS - Group Decision Support Systems
ODSS - Organizational Decision Support Systems
IDSS - Intelligent Decision Support Systems
Types
Communication-driven
Data-driven
Document-driven
Knowledge-driven
Model-driven
GIS - Geographical Information System
KM - Knowledge Management
Methodology
CommonKADS
BI - Business Intelligence
OA - Office Automation
e-Learning Systems
Expert Systems
Artificial Intelligence
Artificial Neural Network
Action Selection Mechanism
Business Intelligence
Case-based Reasoning
Data Mining
Fuzzy logic
Heuristic
Inference Engine
Knowledge Base
Machine Learning
Rete Algorithm
EAS - Enterprise Application Suite
ES - Enterprise Systems
Software Applications
ERP - Enterprise Resource Planning
BAAN
Oracle
PeopleSoft
SAP R/3 - MySAP ERP
ABAP (Progr. Language)
FICO - Finance and Controlling
CO - Controlling
MM - Materials Management
SD - Sales & Distribution
PM - Plant Management
PP - Production Planning
QM - Quality Management
WM & AM - Warehouse Management / Asset Management
PS - Project System
RE - Real Estate
HR - Human Resource Planning
WFM - Workflow Management
HUM - Handling Unit Management
BW - Business Warehouse
SEM-BPS - Planning
MS Dynamics
Dynamics AX / Axapta
Dynamics NAV / Navision
Statistical Packages
SAS
SPSS
Office Automation
Mail
Outlook
IBM Lotus Notes
Eudora
Thunderbird
Office
Autocad
MS Office
Open Office
Star Office
Photoshop
MS Visio
Document Management
Documentum
Sharepoint
BI - Business Intelligence
ETL-tools - Extraction-Transform-Load-Tools
Ascential (Datastage)
Informatica PowerCenter
Data Warehousing
Database
Data Mining
Data Marts
Reporting
IBM Cognos BI
Cognos 8 BI Report Studio:
Cognos 8 BI Metrics Studio
Business Objects
Crystal Reports
EAI
Middleware
MQ Series
ODBC
JDBC
Native protocols
Databases
IMS
Oracle
Informix
MS SQL Server
Sybase
MySQL
PostgreSQL
DB2
MS Access
Ingres
Cloudscape
System Architecture
Front-End / Back-end
2-Tier, 3-Tier
Web-based
Service Oriented Architecture
Work Flow Environments
Agent Based Systems
Component Based Systems
Operating System
Types
Multi-tasking
RTOS - real-time operating system
Embedded Systems
Softwares
UNIX
POSIX (=UNIX Std)
Mach (=UNIX kernel)
Cygwin (UNIX on Windows)
Linux
RTLinux
Debian
Redhat
MontaVista Linux
Caldera
SuSe
UBUNTU
OpenSUSE
Slackware
Mandriva
Fedora
Gentoo
Sabayon
Puppy
SLAX
MINT
PCLinuxOS
UNIX & Linux GUI's
KDE
GNOME
Motif
X/Motif (XMotif
X / X11 (X Windows)
GTK+ / GTK+ 2 toolkit
Xfwm
Xfce
Solaris (Sun)
HPUX (HP)
QNX
AIX (IBM)
BSD
FreeBSD
NetBSD
Minix
OpenSolaris
Windows
Windows 3.1
Windows 97
Windows XP
Windows CE
Windows NT
Windows 2000
Windows Vista
Windows 7
Mac OS X (Macintosh)
Google Chrome OS
BeOS
PS2
VMS (VAX
OS/360
OS/2
VxWorks
eCos
RISC OS
NeXTSTEP
OpenStep
Symbian OS
Palm OS
AS/400
IT Infrastructure Systems
Servers
Application Server
Internet Server
DHCP server
DNS Server
Database Server
File Server
Mail Server
IBM Lotus Notes
MS Exchange
General Server
Printer Server
Virtualisation
Virtual Server
VMWare
MS Virtual Server
Virtual Network Architecture
Computers
VC - Vector Computers
MPP - Massively Parallel Processor
Distributed Systems
Clusters
Network
DMZ
VPN - Virtual Private Network
LAN - Local Area Network
WAN - Wide Area Network
Architecture
Peer to Peer
Client - Server
Protocols
FTP - File Transfer Protocol
NFS
HTTP
TCP/IP - Transmission Control Protocol - Internet Protocol
UDP - User Datagram Protocol
HTTPS
Netbios
RPC
HMP
RMI
IPSec
SSL/TLS
PPTP - Point-to-Point Tunneling Protocol
RTP - Real-time Transport Protocol
VoIP - Voice over IP
SIP - Session Initiation Protocol
MGCP - Media Gateway Control Protocol
IMS - IP Multimedia Subsystem
UUCP
Mail
SMTP - Simple Mail Transfer Protocol
IMAP - Internet Message Access Protocol
POP3
X.400
MIME - Multipurpose Internet Mail Extensions
Hardware
Bridge
Router
Token Ring
Ethernet
Disks
SAN
NAS
RAID 0 tot 9?
Load Balancing
HPC - High Performance Clusters
LBC - Load Balancing Clusters
HAC - High Availability Clusters
Parallel Computing
Internet Based computing
Cloud Computing
IaaS - Infrastructure as a Service
PaaS - Platform as a Service
SaaS - Software as a Service
Grid Computing
Distributed Computing
Back-up Systems
(UPS) Uninterruptible Power Supply
Security
Directory Services
X500
DAP
LDAP
Firewalls
Anti-spyware
Anti-virus
Management
Change Management
ADKAR
Quality Management
Quality Control
Quality Assurance
TQM - Total Quality Management
Six Sigma
Lean
EFQM
Concepts and Methods
Kaizen
QFD - Quality Function Deployment / House of Quality Approach
PDCA - Plan, Do, Check, Act
DMAIC - Define, Measure, Analyze, Improve, Control
Quality Circle
Taguchi method / Fishbone
Standards / Awards
EFQM - European Foundation for Quality Management
Malcolm Baldrige National Quality Award
ISO 9004
ISO 15504-4
Program/Project
Levels
Project Portfolio Management
Program Management
Project Management
Project Coordination
Methodologies
Project Management Methodologies
PMBoK - Project Management Body of Knowledge
<> Methodology. It organises PM knowledge.
Project Management Body of Knowledge of Project Management Institute
Knowledge Area's
Scope Management
Time Management
Procurement Management
Human Resource Management
Risk Management
Quality Management
Cost Management
Communication Management
Integration Management
Prince2 / Prince II (OGC)
ASAP
Program Methodology
Project Portfolio Management Methodology
Guidance & Support
Project Management Office
Project Support Office
Project Office
PM Tools
MS Project
Primavera
PSN
Augeo
Planisware
IT Dept Org Dev & Mngmnt
CobiT
VALIT
ASL - Application Service Library
BiSL - Business Information Services Library
ITIL
ITIL 2.0 - official books
Application Management
Service Delivery
Service Support
ICT Infrastructure Management
Security Management
ITIL 3.0 - official books
ITIL Service Strategy
ITIL Service Design
ITIL Service Transition
ITIL Service Operation
ITIL Continual Service Improvement
Capability Maturity Models
CMMI - Capability Maturity Model Integration (SEI)
SCAMPI
Other
JAD - Joint Application Development
Outsourcing
Off-shore development
Near-shore
Insourcing
Co-sourcing
Consultance
Fixed price projects
Time and materials
Enterprise Architecture
Parts/Approach
Architectures
Business Architecture
Process Architecture
Information Architecture
IS/Application Architecture
Technology Architecture
Complementary Architectures
Security Architecture
...
Methodologies / Frameworks
GERAM
PERA
FEAF
TOGAF
TEAF
Zachman
DYA
MODAF
NAF
AGATE v3
MACCIS
DAF
C4ISR
Business Analysis
BABoK - Business Analysis Body of Knowledge
(Source: International Institute of Business Analysis (IIBA))
Knowledge Area's
Business Analysis Planning and Monitoring
Enterprise Analysis
Elicitation
Requirements Analysis
Requirements Management and Communication
Solution Assessment and Validation
Information Management
Information Architecture
Methods
Information Engineering
RIPOSE - Rapid Information Processing Oriented Systems Environment
Codd's Normalisation steps
Standard
DAMA DMBoK
Business Process Engineering & Management
Process Architecture
Process Engineering
Process Analysis
CPI - Continuous Pocess Improvement
BPR - Business Process Reengineering
CI - Continuous Improvement
Methods & Std's
BPMN
IDEFx (IDEF0, IDEF1,..)
BPM BoK
Process Management
Process Analysis
Information Systems Management
Strategic Information System Planning
Software Application Architecture
Software Application Management
Software Development
Methodologies
Types
Waterfall
Classic
SSADM - Structured Systems Analysis and Design Method
SDM - System Development Methdology
Iterative / Incremental
Spiral Model
GDP - Goal-Driven Software Development Process
Agile
SCRUM
Crystal Clear
Extreme Programming
Adaptive Software Development
Feature Driven Development
DSDM - Dynamic Systems Development Methodology
RUP - Rational Unified Process
Other
RAD - Rapid Application Development
Protoping
Cleanroom Software Engineering
V-Model
Extreme Programming
System Lifecycle
Design and Development Phase
Development Life Cycle
Requirements Elicitation
Analysis
Design
Programming
Testing
Implementation / Deployment
Migration
Operational Phase
Production
Maintenance
Debugging
Support
Adaptation Phase
Changes
Expansion / Additions
Merge
Split-up
Upgrade
Re-Engineering
Decommissioning
Migration
Replacement
Phase-out
Removal / Disposal
Standards
PSP BoK - Personal Software Process BoK
SWEBoK - Software Engineering Body of Knowledge
Analysis
Types
Business Analysis
BABoK - Business Analysis Body of Knowledge from International Institute of Business Analysis (IIBA)
Information Analysis
Process Analysis
Systems Analysis
Functional Analysis
Technical Analysis / System Design
Parts
Business rules
Information
Data Modeling
Entity Relation Diagram (ERD)
Bachman Notation
Express
IDEF1X
Martin Notation
Data Dictionary
Processes
Use Cases
DataFlow Diagram
Structured Chart
Flow chart
State Transitions
State Transition Diagram
Classes / Objects
Class Diagram
Object Diagram
Object Role Modeling
Analysis Methods
Cfr Analysis / Parts
IDEFx (IDEF0, IDEF1,..)
Notations
BPMN
UML
Use Case Diagram
Activity Diagram
Collaboration Diagram (Communication Diagram)
Sequence Diagram
State Transition Diagram
Class Diagram
Object Diagram
Component Diagram
Other
System Context Diagram
Case Tools
MEGA
ARIS ID Scheers
Poseidon (UML)
Enterprise Architect
Corporate Modeler
Rational Rose
Visio
Borland Together
Visual Paradigm
Softw. Dev. Tools
Software Configuration Management
Rational ClearCase
Rational Clearquest
MS Visual Source Safe
System Administration