

Emerging ICT for Competitive Advantage Executive Briefing

Description: The *Emerging ICT for Competitive Advantage* Briefing is a half-day presentation designed to enhance delegates' appreciation of the latest trends in Information and Communications Technology, as well as 'on the horizon' developments that may have significant business implications in the medium term. The presentation starts by considering a current generic IT system architecture, placing current leading-edge technologies and future developments in context. It then proceeds to outline the essentials of each of the latest areas of development; these include operating systems, component software, communications, web-based systems and energy efficiency. Finally, there is a section on technologies and trends that may prove significant within the decade including the future of the web, distributed computing, nanotechnology and emerging wireless networks. The briefing de-mystifies the technology and places it in the context of why it is important for the enterprise of today and tomorrow.

Audience: This Briefing is suitable for IT Managers and Directors, general Business Managers and Directors, and Project/Programme Managers. All of these need a high-level view of emerging ICT trends and how the maximum business benefit can be derived from their adoption.

Duration: *Half Day*

Objectives: On completion of this Briefing, delegates will:

- ✧ Have a new perspective on ICT and a high-level view of the constituent technologies and architectures
- ✧ Be aware of the main components of modern IT systems infrastructure.
- ✧ Have a sense of the business possibilities presented by Wireless and other emerging technologies and trends.
- ✧ Have an enhanced ability to make informed decisions relating to planning and acquisition of new ICT systems
- ✧ Have an informed view of industry trends that help in the presentation of innovative ideas
- ✧ Visualise the application of technology in industry and the business value it can deliver



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Content:

Context

Generic Current IT System Architecture.
Systems and application Software Communications.
Security

Application Showcase

Radio frequency Identification (RFID)
Biometrics
Voice over Internet Protocol (VoIP)
Digital Media over IP

Platforms

Microsoft Windows:
 Windows Vista
Linux & Open Source Software (OSS).
 History of OSS
 OSS Licensing and costs
 Open Source server applications
 Open Source on the Desktop
 Who's using OSS?

Software Trends

Virtualisation
On-Demand Computing
Grid Computing
Cloud computing
Web services

Communications

Ethernet Future.
IPv6.
MPLS.
Next-Generation Networking.
Convergence
Managed network services

Wireless Technologies

Hierarchy of area networks
Current and emerging wireless standards
Evolution of 802.11 - WiFi
Emergence of 802.16 - WiMAX
New Public Networks - from 2.5G to 3G
Wireless and mobility
Security of wireless networks

Security

Encryption
Public-Key Infrastructure
Email security
Viruses & Worms
Attack Types & Vulnerabilities
Wireless security measures

Mobility

The business case for mobility
The how of mobility
Location-based services

Radio Frequency Identification Technology and operation

History and development
RFID and barcodes
Tag design and differences

RFID in Automated Data Collection

Electronic Product Code (EPC)
Physical Markup Language
Overview of RFID Applications
Convergence with other technologies

Biometrics—Technology and operation

History and development
Biometric devices
Physiological Biometrics
Behavioural Biometrics
Comparison of technologies
Accuracy and precision

Data Management

Enrolment & Verification
Collection systems
Storage and extraction
Comparison methods

VoIP—Technology and operation

History and development
VoIP
IP Telephony
SIP
POTS/IPT Convergence

Evolution

Migration from PABX
New services - Vonage, Skype
Service models

On The Horizon

Wireless: 4G
Virtual Desktop
Quantum Computing



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