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APM Business Unit

Proposal for Business Description of ODP [CCTA]

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Abstract

The CCTA are supportive of ODP, but have do not have appropriate written material that presents a a business case for it.

The CCTA have requested a proposal for writing "The Business Description of Distributed Architecture", aimed at the business manager rather than the IT manager. This must focus on business issues rather than technology.

This is that proposal.

[Note: version 00.01 is an early sketch of that proposal. Later drafts were not prepared in FrameMaker, and are not available in this system. Refer to the author for later drafts.]

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Draft

28th April 1995

Marketing and Contracts

Distribution:

Supersedes:

Superseded by:

CCTA Proposal

Objectives:

To provide a clear and readable set of documentation which will explain and position the role of Systems Architect, and the concept of Architecture, in the modern distributed IT scenario.

In essence, the changes in modern business organisations, driven by internal or external forces, require that the corresponding IT systems also be able to respond to change in a predictable and reliable manner. Such changes may require independently designed systems to communicate with one another, support one another, co-ordinate and so on, completely outside of the view of the traditional systems engineer or the established view of requirements.

Open Systems have provided powerful tools and benefits both to end-users and developers. However, the total problem of designing an application for a mission-critical area within an Open System is much more complex than in the earlier proprietary domain. To design such systems requires leading personnel with an outstanding grasp of the critical principles which need to be followed. These principles, when followed, will ensure that the system fits the need and structure of the enterprise, the business and the technical requirement. In totality, we refer to these principles as the Architecture of the system, and the specified of these principles as the Architect.

Document Title:

An IT-Architect and Architecture

Intended Audience

Senior IT Management, Directors, Business Managers responsible for generation or acquisition of IT systems.

Approximate Size

4 to 5 pages

Purpose

Explain the need and use of Architects in modern Distributed Systems.

Key Topics

Change as an inherent part of modern organisations and hence, IT systems. The reflection of one in the other and their position in fundamental requirements.

Dangers of systems being designed in isolation

Enterprise model as a fundamental part of systems design

Architect is concerned with tools and concept, related to overall enterprise's integration

Architect has knowledge of emerging and current standards, leading to "surprise-free" enhancement of systems and response to change (quake-proof building analogies)

Analogy of Building Architect with IT Architect, and benefits/risks of using/not-using them.

CASE STUDIES, as vehicles for the above arguments.

NASA Project
Inland Revenue Project
Scottish Hydro Scheme project

Document Title

Winning All Ways

Intended Audience

Senior IT Management, Directors, Business Managers responsible for generation or acquisition of IT systems.

Approximate Size

20 Pages

Purpose

To explain the broader visions of modern IT systems, the business trends causing IT architectural aspects to be critical, and how the Architecture model satisfies these needs.

Key Topics

Change is inherent, from inside and outside (BPR and technology, for example), and the consequences for system procurement. Systems cannot be viewed in isolation; what can we do to prevent today's systems being tomorrow's legacy systems. IT systems and the enterprise (as it is now and tomorrow) are intertwined

- How architectural view contributes to safer, cheaper systems.
- How architectural view leads to complete IT solutions
- How an architectural view identifies basic building blocks leading to simplicity of structure and adaptable, open systems.
- How to recognise a good architectural design

Document Title

Your Enterprise Architecture

Intended Audience

Senior IT Management, Directors, Business Managers responsible for generation or acquisition of IT systems, Project Managers and Strategists

Approximate Size

40 pages

Purpose

To present the architectural approach to modern IT systems design, its benefits, methods, and the role of an architect in a project and project organisation.

Key Topics

The five views of the complete enterprise computing model, and how it applies to system acquisition and implementation.

How the views are reflected in the architecture

The completeness of the views, from the point of view of the enterprise and the corresponding solution.

The architectural perspective of IT design

Standard, present and emerging standards, and their effects on IT specification.

How to maximise the ROI and what to attend to

How to minimise risk and benefit from emerging technologies in IT strategies.

A modern architectural approach to building modern adaptable systems (avoiding the Albatross effect)

Proposal

APM proposes to design and write the above documents under the following time and cost frame:

Document 1:

Delivery Time from Order:14 days
Price: £4000

Document 2:

Delivery Time from Order:20 days
Price: £9000

Document 3:

Delivery Time from Order26 days
Price: £12000

All documents will be delivered on disk in Word 6.0 format, and on paper, using the standard APM bindings. Other special formats can be considered and priced separately.

During the production of the documents, APM may need, from time to time, to have reviews of the current documents with CCTA staff.

Handover:

APM envisages that the handover of the documents will be accompanied by a presentation of the results and an overview of trends, to be held either at CCTA or APM premises. The cost of this presentation and discussion is contained within the total figures shown above.

