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The skills of a (?) architect

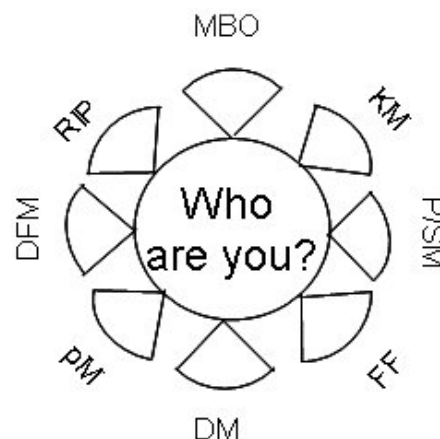


I have finally come around to defining the job descriptions, skills and the frameworks that support the skills that are needed to fulfil the roles of the various types of the 'questionable' architect type. Some will call it the 'enterprise', 'business', 'information' or as I call it the Ripose 'architect'.

To begin the journey of discovery, you will have to decide 'who you are'? Once you have decided on this I will be able to show you the first step you selected in order to discover the skill set you need to fulfil your destiny.

Who are you?

The following diagram represents the 8 types/jobs of (?) architects - if I have missed any then please inform me and I will rectify the omission.



Where the 'job/type' descriptions are as follows:

- [MBO](#) – Management by objectives
- [KM](#) – Knowledge management
- [P/SM](#) – Programme/strategic manager
- [FF](#) – Fact finder
- [DM](#) – Data modeller
- [pM](#) – Project manager
- [DFM](#) – Data flow modeller
- [RIP](#) – Rapid iterative prototyper

Click on the appropriate acronym to view the 'strengths, weaknesses, opportunities and threats' as well as the 900+ frameworks that should help you decide whether your skills fit the requirements to fulfil the job description and whether the framework does indeed assist you.

Management by objectives

Job description: To rapidly and fully identify, define, record and gain acceptance (sign off) of all the business objectives by the full board of directors as well as the senior C-Type management. To identify the 'strengths (including the 'unique value proposition'), weaknesses, opportunities and threats' the business objectives pose and their 'worth' to the enterprise/business stakeholders in a timely manner (not longer than 4 weeks).

The following chart shows the skills this type of architect needs to fulfil their job description using a common SWOT approach:

Strengths	Weaknesses	Opportunities	Threats
<ul style="list-style-type: none">• Business centric• Ontology	<ul style="list-style-type: none">• Anatomy of objectives• Business knowledge• Business strategies	<ul style="list-style-type: none">• Structure objectives	<ul style="list-style-type: none">• Analysis by paralysis• Poor SWOT analysis• Meaningless outputs

Supporting frameworks - to be completed in the near future with the assistance of other (?) architects:

- Ripose – Phase 1, business objectives
- Balanced scorecard (?)
- PEAf (?)
- TOGAF (?)
- Zachman (?)

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Knowledge management

Job description: To use the lowest ranking business objectives (namely the worth of the lowest ranking to highest values) to rapidly and fully identify, define, record and gain acceptance (sign off) of all the business knowledge artifacts (this is not the data model) by the senior C-Type management in a timely manner (not longer than 4 – 6 weeks).

The following chart shows the skills this type of architect needs to fulfil their job description using a common SWOT approach:

Strengths	Weaknesses	Opportunities	Threats
<ul style="list-style-type: none">• Business centric?• Story telling• Ontology• Taxonomy• Heuristics	<ul style="list-style-type: none">• Anatomy of knowledge• Business strategies• Knowledge = data• 4th 5th & 6th normal forms	<ul style="list-style-type: none">• Structure knowledge	<ul style="list-style-type: none">• Analysis by paralysis• Meaningless outputs

Supporting frameworks - to be completed in the near future with the assistance of other (?) architects:

- Ripose – Phase 2, Knowledge crafting
- Knowledge management (?)

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Programme/strategic manager

Job description: To use the priorities inherent in the corporate knowledge model to rapidly and fully identify, define, record and gain acceptance (sign off) of all the business strategies (in their correct implementation priorities) by the senior C-Type management in a timely manner (not longer than 2 – 4 weeks).

The following chart shows the skills this type of architect needs to fulfil their job description using a common SWOT approach:

Strengths	Weaknesses	Opportunities	Threats
<ul style="list-style-type: none">• Business centric?• Strategising	<ul style="list-style-type: none">• Anatomy of strategies• Business knowledge• Business objectives	<ul style="list-style-type: none">• Structure strategies	<ul style="list-style-type: none">• Analysis by paralysis• Wrong priorities• No link to objectives• Meaningless outputs

Supporting frameworks - to be completed in the near future with the assistance of other (?) architects:

- Ripose – Phase 3, Strategic planning
- Balanced scorecard (?)
- PEAf (?)
- TOGAF (?)
- Zachman (?)

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Fact finder

Job description: To use the strategic priorities inherent in the corporate knowledge model as well as the known facts inherent in the current data bases, input forms, output reports, data streams and screen designs to rapidly and fully identify, define, and record all the data attributes and place them in the most appropriate knowledge class, in a timely manner (not longer than 4 – 6 weeks).

The following chart shows the skills this type of architect needs to fulfil their job description using a common SWOT approach:

Strengths	Weaknesses	Opportunities	Threats
<ul style="list-style-type: none">• IT centric• Data nomenclature	<ul style="list-style-type: none">• Business objectives• Business knowledge• Business strategies	<ul style="list-style-type: none">• Structure of knowledge	<ul style="list-style-type: none">• Analysis by paralysis• Wrong priorities• No link to objectives• Meaningless outputs

Supporting frameworks - to be completed in the near future with the assistance of other (?) architects:

- Ripose – Phase 4, fact mining

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Data modeller

Job description: To use the strategic priorities inherent in the corporate knowledge model as well as the added facts rapidly and fully identify, define, and record '[domain key](#)' [normal form](#) data bases/stores in a timely manner (not longer than 2 – 4 weeks).

The following chart shows the skills this type of architect needs to fulfil their job description using a common SWOT approach:

Strengths	Weaknesses	Opportunities	Threats
<ul style="list-style-type: none">• IT centric• Normalisation?	<ul style="list-style-type: none">• Business objectives• Business knowledge• Business strategies• Domain key normal form	<ul style="list-style-type: none">• Structure of knowledge	<ul style="list-style-type: none">• Data base designs• Wrong priorities• No link to objectives• Meaningless outputs

Supporting frameworks - to be completed in the near future with the assistance of other (?) architects:

- Ripose – Phase 5, data base design (includes SQL table create statements)
- PEAf (?)
- TOGAF (?)
- Zachman (?)

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Project manager

Job description: To use the priorities inherent in the corporate data bases to rapidly and fully identify, define, and record the appropriate project plans to deliver the IS-IT services (not longer than 2 – 4 weeks).

The following chart shows the skills this type of architect needs to fulfil their job description using a common SWOT approach:

Strengths	Weaknesses	Opportunities	Threats
<ul style="list-style-type: none">• IT centric• Project planning• Management	<ul style="list-style-type: none">• Business objectives• Business knowledge• Business strategies• Data base design	<ul style="list-style-type: none">• Structure of objectives• Structure of knowledge• Structure of strategies	<ul style="list-style-type: none">• Wrong priorities• No link to strategy

Supporting frameworks - to be completed in the near future with the assistance of other (?) architects:

- Ripose – Phase 5, project management tool
- Agile – Scrum

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Data flow modeller

Job description: To follow the priorities in the IS-IT project plans and the appropriate data bases to rapidly and fully identify, define, and record the appropriate program logic (in pseudo code to avoid being bogged down in the specifics of the 8,000+ programming languages in not longer than 6 – 8 weeks).

The following chart shows the skills this type of architect needs to fulfil their job description using a common SWOT approach:

Strengths	Weaknesses	Opportunities	Threats
<ul style="list-style-type: none">• IT centric• Process modelling• Process logic	<ul style="list-style-type: none">• Data base design	<ul style="list-style-type: none">• Data modelling• Fact finding	<ul style="list-style-type: none">• Wrong priorities• Multiple output designs

Supporting frameworks - to be completed in the near future with the assistance of other (?) architects:

- Ripose – Phase 6, pseudo code design logic
- UML
- TOGAF (?)
- Zachman (?)

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Rapid iterative prototyper

Job description: To follow the priorities in the IS-IT project plans, the appropriate data bases and pseudo code to rapidly develop and unit test the computer applications which supports the appropriate business objectives and strategies.

The following chart shows the skills this type of architect needs to fulfil their job description using a common SWOT approach:

Strengths	Weaknesses	Opportunities	Threats
<ul style="list-style-type: none">• IT centric• Program logic• Program languages	<ul style="list-style-type: none">• Data base design• Program design	<ul style="list-style-type: none">• Data modelling• Fact finding• Process modelling	<ul style="list-style-type: none">• Wrong priorities• Poor inputs• Multiple languages

Supporting frameworks - to be completed in the near future with the assistance of other (?) architects:

- Ripose – Phase 7, a future release of code generators
- C#
- C++
- Java
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