



# OG0-092<sup>Q&As</sup>

TOGAF 9 Part 2

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## QUESTION 1

Scenario Please read this scenario prior to answering the question Your role is consultant to the Lead Architect within a multinational semiconductor and software design company. Its largest business is in processors, although it also designs system-on-a-chip infrastructure and manufactures memory chips. A characteristic feature of its processors is their low electric power consumption, which makes them particularly suitable for use in portable devices. As well as licensing its technology, the company has several manufacturing divisions.

The company has a mature enterprise architecture practice and uses TOGAF 9 for the basis of its architecture framework. In addition to the EA program, the company has a number of management frameworks in use, including business planning, portfolio/project management, and operations management. The EA program is sponsored by the CIO.

The company has defined a strategic architecture to improve its ability to meet customer demand and improve its ability to manage its supply chain. The strategic architecture called for the consolidation of multiple Enterprise Resource Planning (ERP) applications that have been operating independently in the divisions\' production facilities. The goal is to replace the functionality of the existing applications with a new ERP product running as a single instance in the company\'s primary data center.

Each division has completed the Architecture Definition documentation required to tailor and configure the environment to meet its own specific manufacturing requirements.

The enterprise architects have analyzed the key corporate change attributes and implementation constraints. A consolidated gap analysis has been completed which has identified the gaps across the Business, Data, Application, and Technology domains. Based on the results of the gap analysis, the architects have reviewed the requirements, dependencies and interoperability requirements needed to integrate the new ERP environment into the existing environment. The architects have completed the Business Transformation Readiness Assessment started in Phase A. Based on all of these factors they have produced a risk assessment. They have also completed the Implementation and Migration Plan v0.1, the draft Architecture Roadmap, and the Capability Assessment deliverables.

Because of the risks posed by the complexity of the current environment, it has been determined that a phased approach is needed to implement the target architectures. The overall implementation process is estimated to take several years.

Refer to the Scenario You have been asked to recommend the next steps to prepare the final Implementation and Migration Plan.

Based on TOGAF, which of the following is the best answer?

A. You recommend that the enterprise architects apply the Business Value Assessment Technique to prioritize the implementation projects and project increments. The assessment should focus on return on investment and performance evaluation criteria that can be used to monitor the progress of the architecture transformation. They should confirm the Transition Architecture phases using an Architecture Definition Increments Table to list the projects. They should then document the lessons learned and generate the final Implementation and Migration Plan.

B. You recommend that the enterprise architects conduct a series of Compliance Assessments to ensure that the architecture is being implemented according to the contract. The Compliance Assessment should verify that the implementation team is using the proper development methodology. It should include deployment of monitoring tools and ensure that performance targets are being met. If they are not met, then changes to performance requirements should be identified and updated in the Implementation and Migration Plan.

C. You recommend that the enterprise architects assess how the plan impacts the other frameworks in use in the organization. Minimally, the plan should be coordinated with the business planning, portfolio/ project management and operations management frameworks. They should then assign a business value to each project, taking into account available resources and priorities for the projects. Finally, they should generate the Implementation and Migration Plan.



D. You recommend that the enterprise architects place the Architecture Definition Document under configuration control. This will ensure that the architecture remains relevant and responsive to the needs of the enterprise. They should then produce an Implementation Governance Model to manage the lessons learned prior to finalizing the plan. You recommend that lessons learned be applied as changes to the architecture without review.

Correct Answer: D

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## QUESTION 2

Scenario: Summer Seeds BV Please read this scenario prior to answering the question Summer Seeds BV is an international agricultural company exporting bulbs, flowers and seeds worldwide. It is headquartered in Rotterdam in the Netherlands, and has sales and distribution centers in over 60 countries worldwide. Several of these centers include administrative, manufacturing, and research facilities. To achieve full integration of their research capabilities with their development centers located in various climate zones, the company wants to develop strong self directed teams in each location. It also wants to define new business models that are profitable while reducing their impact on the environment. The management is deeply committed to ensuring that the company is a world leader in socially responsible seed development with a business strategy that focuses on profitability through environmentally friendly operating processes. Summer Seed's international operations are subject to various legal and regulatory requirements. In areas such as genetically modified seeds, governmental controls are strictly enforced and compliance is critical. Recently a competitor was heavily fined for violating the regulations in a country where it was developing pest-resistant seeds. The Governing Board is concerned, and as a result has approved the expenditure of resources to establish an Enterprise Architecture program. They have requested information about the status of projects that could impact regulatory compliance. They also want to enable the corporate legal staff and auditors to analyze proposed architectures to ensure that they are within the legal guidelines for a given location. In addition, the research organization should be able to see that the architecture is appropriate for its needs. TOGAF 9 has been mandated as the guiding framework for the development and evolution of the Enterprise Architecture practice. Refer to the Summer Seeds BV Scenario You have been appointed as the Lead Consultant. You have been asked to recommend an approach that would enable the development of an architecture that addresses the needs of all these parties. Based on TOGAF 9, which of the following is the best answer?

A. Depending on the nature of the architecture, a set of models should be created that can be used to ensure that the system will be compliant with the local regulations. Stakeholders should be able to view the models to see that their concerns have been properly addressed.

B. Each architecture activity should be developed using a consistent modeling approach that is uniform across all architecture projects. Each architecture should be defined based on this fixed set of models so that all concerned parties can examine the models to ensure that their issues and concerns have been addressed,

C. A stakeholder map should be developed that allows the architects to define groups of stakeholders sharing common concerns. A set of views should then be defined that addresses the concerns for each group- Architecture models can then be created for each view to address the stakeholders' concerns.

D. For those groups that have sufficient power and level of interest, a special report should be created that summarizes the key features of the architecture with respect to the particular location. Each of these reports should reflect the stakeholders' requirements.

Correct Answer: C

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## QUESTION 3

Scenario: AGEX Inc.

Please read this scenario prior to answering the question



AGEX is a large, global commodities trading company which has been growing rapidly through a series of acquisitions.

Each new business is performing well in its markets. However, the lack of integration between headquarters and the business units has increasingly caused problems in the handling of customer and financial information. The inability to share information across businesses has resulted in lost opportunities to "leverage the synergies" that had been intended when the businesses were acquired. At present, each business unit maintains its own applications. Despite an earlier initiative to install a common application to manage customer, products, supplier, and inventory information, each business unit has different ways of defining each of these core elements and has customized the common application to the point where the ability to exchange information is difficult, costly, and error-prone.

As a result, AGEX has begun implementing a single Enterprise Resource Planning (ERP) system to consolidate information from several applications that exist across the lines of business. The Corporate Board is concerned that the new ERP system must be able to manage and safeguard customer information in a manner that meets or exceeds the legal requirements of the countries in which the company operates. This will be an increasingly important capability as the company expands its online services offered to clients and trading partners.

The CIO has formed an Enterprise Architecture department, and one of the primary goals in its charter is to coordinate efforts between the ERP implementation team and the business unit personnel who will be involved in the migration process. The CIO has also formed a cross-functional Architecture Review Board to oversee and govern the architecture.

After reviewing the available alternatives, and based on recommendations from the ERP vendor, AGEX has selected TOGAF 9 as the basis for its Enterprise Architecture program.

The CIO has endorsed this choice with the full support of top management.

Refer to the AGEX Inc. Scenario

You are serving as the Chief Architect.

You have been asked to recommend the approach to take in the Preliminary Phase to ensure that the Corporate Board's concern is addressed.

Based on TOGAF 9, which of the following is the best answer?

- A. You evaluate the implications of the Board's concern in terms of regulatory and security policy requirements. You then update the AGEX security policy to reflect the concern, ensuring that this policy is communicated across the organization. You allocate a security architecture team to ensure that security considerations are included in ongoing architecture planning. You then assess the security implications and agreements within the AGEX businesses and their suppliers.
- B. You evaluate the implications of the Board's concern in terms of regulatory requirements and their impact on business goals and objectives. Based on this understanding, you then issue a Request for Architecture Work to commence an architecture development project to develop a solution that will address the Board's concern. You allocate a security architect to oversee the implementation of the solution in the ERP system that is being developed.
- C. You start by clarifying the intent that the Board has for raising this concern. This enables you to understand the implications of the concern in terms of regulatory requirements and the potential impact on current business goals and objectives. You propose that a security architect or security architecture team be allocated to develop comprehensive security architecture.
- D. You evaluate the implications of the Board's concern by examining the potential impacts on business goals and objectives. Based on your understanding, you then update the current AGEX security policy to include an emphasis on the Board's concern. In addition, you allocate a security architect to ensure that security considerations are included in the architecture planning for all domains.



Correct Answer: A

#### QUESTION 4

Please read this scenario prior to answering the question.

You are working as a consultant to the Chief Architect at an intelligent and security organization responsible for securing government communications and information systems. These provide real-time, highly secure communication of voice, video, and message data to remote locations around the world. The agency has recently received information from intelligence sources that the current encryption protocols may no longer be secure. In response, a program is underway to upgrade the systems.

The agency has an established Enterprise Architecture (EA) capability based on the TOGAF standard. The Executive Director of the agency is the sponsor of the EA capability.

Since reliable, high-performance, and secure communications are essential to preserving national security, the Executive Director has placed stringent requirements for the architecture of the upgraded systems. It must be able to provide assurance of the upgraded systems. It must be able to provide assurance and verification of specific performance measures on the key services that are most crucial for system operation. Focusing on these service-level details and specific measurements will allow stricter requirements to be enforced in service contracts. It will also provide a high degree of assurance that necessary performance is being delivered and that notifications will occur if any critical service fails to perform as required.

A portion of the program budget has been allocated to conduct a review of the EA. The scope of the review is to evaluate the processes, content, and governance of the EA capability to ensure that the higher target performance and service levels required by the upgraded system can be achieved.

The Chief Architect has noted that the core EA artifacts that have been in use are not able to describe these new capabilities. The artifacts do not have explicit provisions for defining the in-depth measurement requirements regarding specific services required for the system. She has learned that certain services within the current system have service measurement implementations that match some of the new requirements, but they are only used in a few areas.

Recent EA efforts at another national agency have produced generalized high-performance communication system models to realize similar requirements in a critical defense system involving secure communications. It is possible that these models may be useful for the upgrade program.

Refer to the Scenario

[Note: You may need to refer to the Content Metamodel chapter, section 30.4 (located in Part IV) of the reference text in order to answer this question.]

You have been asked to make recommendations for tailoring the Architecture Content Metamodel to accommodate the requirements of the upgraded system.

Based on the TOGAF Standard, Version 9.2, which of the following is the best answer?

- A. You recommend that the motivation and governance extensions are incorporated into the Architecture Content Metamodel. Using these extensions will allow modeling the goals, objectives and drivers for the architecture, linking them to service levels and more detailed governance models. This will also enable the ability to re-use existing profiles, customizing them for the various service contracts involved.
- B. You recommend that a Communications Engineering view is created using the infrastructure consolidation extension from the Architecture Content Metamodel. This view will allow architects to align the needed performance measurement communications across the system. This will support the stringent performance measurements needed for the more detailed governance views required for the upgraded system, making the interfaces to the communication and network



layer of the architecture highly visible at the application level.

C. You recommend all of the extensions be incorporated into the Architecture Content Metamodel. The full Content Metamodel will enable the EA team to capture and categorize all the important additional data needed to support the performance and measurement objectives linked to these artifacts. Once the new repository content has been implemented, on-demand queries can be used to generate a customized governance stakeholder view that isolated the artifacts and data needed to assess measurement for any particular service. If this view is found to be inadequate for the governance concerns, the service models within those artifacts can be expanded.

D. You recommend that the services extension be incorporated into the Architecture Content Metamodel.

By using this extension, the service model is no longer constrained by what is expected in typical

business service definitions, allowing more flexibility for adding customized models to support the more

stringent measurement requirements. The services extension can also be used to map terminology

between the business services and the application components.

Correct Answer: D

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## QUESTION 5

Scenario: Eight Twelve Eight Twelve has retail outlets throughout North America. An Enterprise Architecture practice already exists in Eight Twelve. Now the CEO and CIO decide that they want to use TOGAF9 to re-architect their Enterprise Architecture to cater to the changing strategies of Eight Twelve to better respond to the changes in the economic and technology environments.

Some of the key issues which need to be addressed in this re-architecting work are:

1.

Since Eight Twelve's retail chain operate 24 hours a day and are expanding to South America and Europe, the retail chain business ecosystem should be able to withstand any unforeseen disruptions which might affect the chain's day to day operations. This is highly critical to ensure high levels of customer satisfaction and thus maintaining and enhancing Eight Twelve's revenue chain.

2.

Dependency between the application components, which are the nerve centers to Eight Twelve's sophisticated range of services both external and internal, and the application platform and technology infrastructure should be minimal. This would facilitate scalability and ease of enhancement of the service offerings.

3.

Eight Twelve uses the ARTS Data Model and the quality of data is of utmost importance for its operation.

4.

Users of the Enterprise Information ecosystem should have an environment which is able to cater to their needs without any undue delays.

Which one of the following set of Architecture Principles do you feel is the most appropriate for these guidelines stated above for the TOGAF 9 architecting work which Eight Twelve is embarking on?



- A. a) Maximize Benefit to the Enterprise b) Data Trustee c) Service Orientation d) Responsive Change Management
- B. a) Business Continuity b) Data is an Asset c) Data is Shared d) Requirements Based Change
- C. a) Maximize Benefit to the Enterprise b) Data is an Asset c) Data is Shared d) Requirements Based Change
- D. a) Business Continuity b) Data Trustee c) Technology Independence d) Responsive Change Management

Correct Answer: D

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