

100% Pass Quiz The Open Group - OGA-032 - ArchiMate 3 Part 2 Exam—Trustable Reliable Test Review



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The Open Group OGA-032 (ArchiMate 3 Part 2) exam is designed to test the candidate's knowledge and understanding of the ArchiMate 3 modeling language, specifically focusing on the implementation and application of ArchiMate 3 concepts in real-world

scenarios. ArchiMate 3 Part 2 Exam certification is ideal for enterprise architects, solution architects, and IT professionals who use ArchiMate 3 to model, design, and analyze enterprise architectures.

The Open Group ArchiMate 3 Part 2 Exam Sample Questions (Q13-Q18):

NEW QUESTION # 13

Please read this scenario prior to answering the question

The ArchiSurance enterprise document management solution includes a sophisticated ecosystem of applications and technologies. Designed with a strong emphasis on high availability, it plays a vital role in providing support for a diverse range of document types and managing a substantial volume of document-based transactions on a daily basis. Recognizing its importance to the business, the document management solution is redundantly hosted at two geographically separate data center sites, both configured identically for seamless operations.

The system software at the core of the document management solution is comprised of three key modules. The Document Engine serves as a repository, facilitating document storage, retrieval, and various other operations. The Workflow Engine acts as a host for document management applications, while the Application Engine powers the most advanced and sophisticated applications within the system.

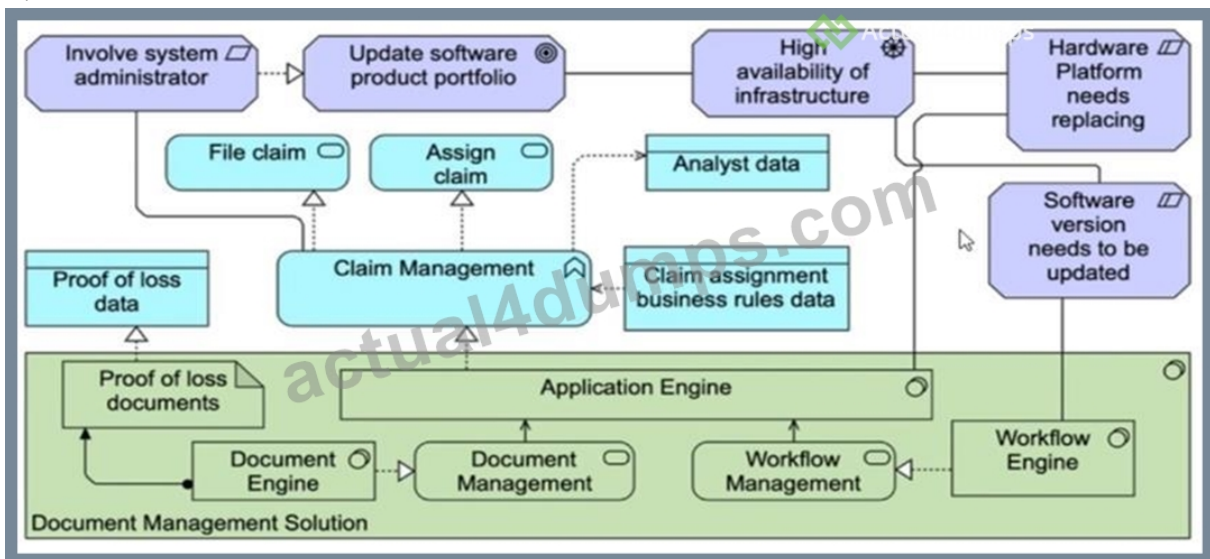
Two key factors have driven the Architecture Board's approval of a project aimed at updating this critical solution. Firstly, the supplier of the Workflow Engine has given notice of the end of support for the current software version, necessitating an upgrade. Secondly, the system administrator responsible for the Application Engine has flagged the need for hardware replacement on the server where the software is currently running. Given that the Claim Management application shares infrastructure with the Application Engine, the involvement of the system administrator responsible for this application is crucial in the project planning and execution.

Refer to the Scenario

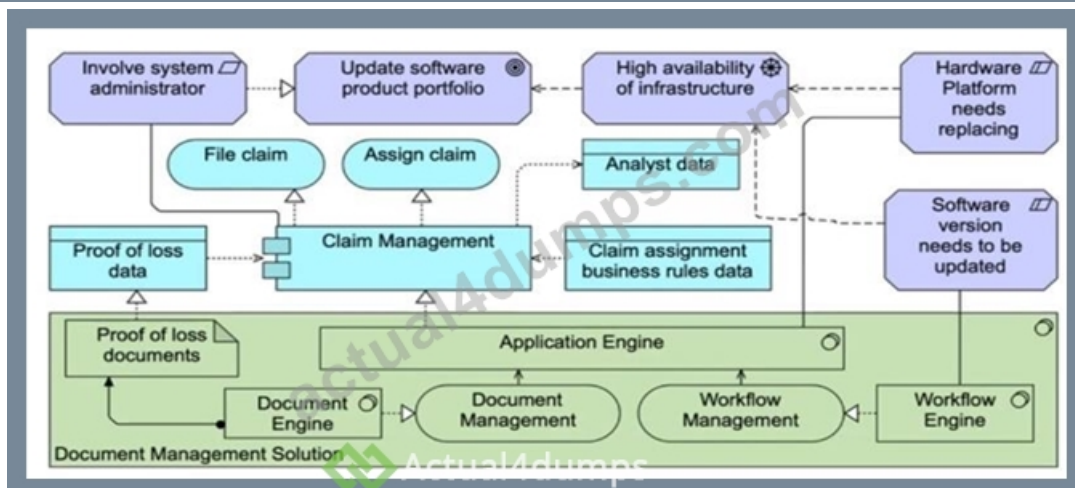
You are the Enterprise Architect within this organization. You have been assigned the task of modeling the applications and technology for this solution, as well as outlining the motivations driving the need for its update.

Based on the scenario, which answer provides the most complete and accurate description?

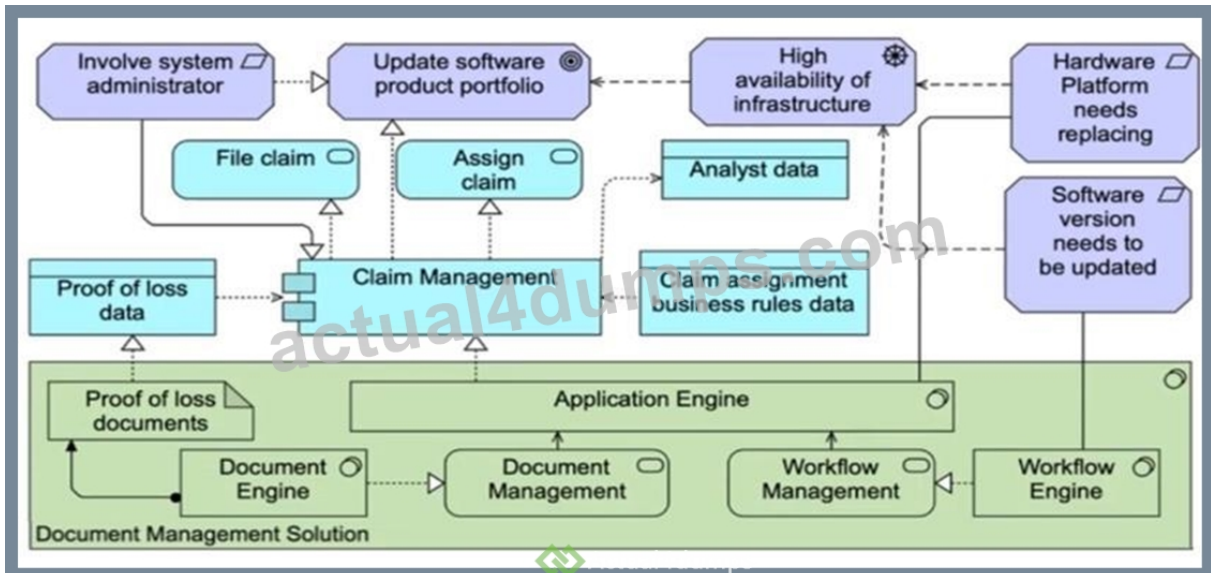
- A.



- B.



- C.



- D. Document Management Solution

Answer: B

Explanation:

Chosen option provides the most complete and accurate representation according to the scenario:

It clearly models the motivations (e.g., "Involve system administrator," "Update software product portfolio," "High availability of infrastructure," "Hardware platform needs replacing," "Software version needs to be updated") and their relationships, capturing both the software and hardware motivations driving the project.

The business layer is represented with processes/services ("File claim," "Assign claim"), and the supporting data objects are linked appropriately (e.g., "Proof of loss data," "Analyst data," "Claim assignment business rules data").

The application layer accurately shows the main components ("Claim Management," "Application Engine," "Document Engine," "Document Management," "Workflow Management," "Workflow Engine") and their interactions, which reflects the described architecture of the document management solution.

The technology layer is represented by the green background (Document Management Solution), which contains the application components as described, showing how infrastructure supports application services.

Relationships between all layers (motivation, business, application, and technology) are clearly modeled, allowing for end-to-end traceability from motivation to implementation.

NEW QUESTION # 14

Please read this scenario prior to answering the question

ArchiSurance has decided to leverage its financial expertise by offering defined contribution retirement plans.

Each trading day, ArchiSurance submits consolidated mutual fund trading transactions to a stock exchange on behalf of its retirement plan participants.

The daily mutual fund trading cycle consists of four key processes: Transaction capture, pricing, trading and reconciliation.

Transaction capture consists of two sub-processes: manual exchange and loans and distributions (L&D). For transaction capture, retirement plan participants use an online account management application to enter manual fund exchange transactions. For L&D,

plan participants use a separate application to enter requests. The L&D application determines whether the request can be fulfilled based on the mutual fund balances held in each plan balances and a set of business rules. Each day's captured manual exchange transactions accumulate in a transaction database.

ArchiSurance contracts with a third-party information service to receive a file of mutual fund prices at the close of each trading day. The pricing application uses this file to convert captured transaction into trades, and then validates each trade against the mutual fund balances held in each plan. The pricing application generates a trade file with the minimum number of trades necessary. The trading application sends this file to an external trading service. When the trading application receives a confirmation file back from the trading service, it passes it to the reconciliation application, which updates the plan recordkeeping database.

The lead application Architect has decided to merge the pricing application, the trading application and the reconciliation application into one application, which will be serving the pricing, trading and reconciliation processes respectively. The reason for this is that maintenance costs for these three components are too high and the performance is too slow. This implementation will increase the performance and lower the maintenance cost significantly.

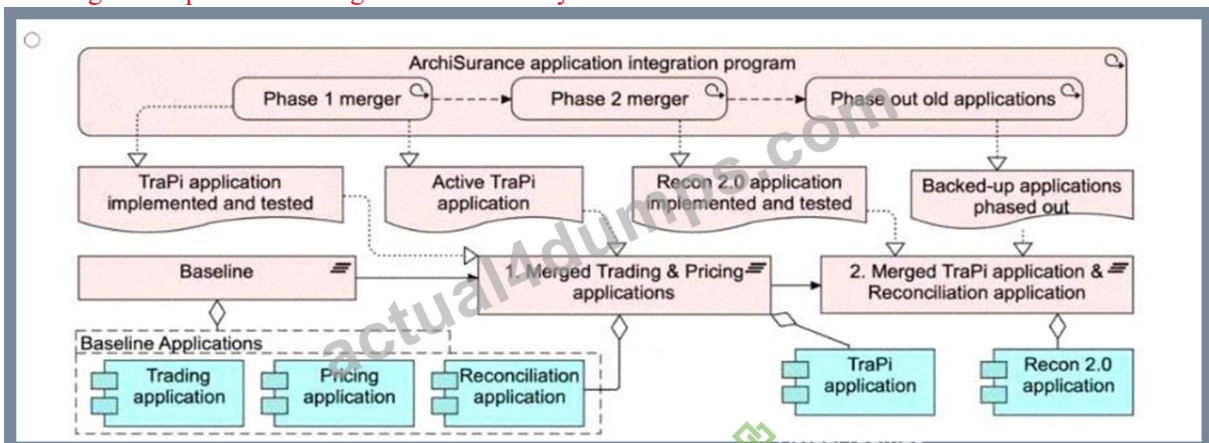
The CIO has agreed on this plan, but wants this to be done in two phases, each in a separate project. Phase 1 should include the merger of the Trading and Pricing applications. Phase 2 should then merge the merged applications with the Reconciliation application respectively. Each project phase has a number of defined deliverables. Phase 1 has two deliverables, 'TraPri application implemented and tested' and 'Active TraPri application', which together form a first transition architecture. Phase 2 has two deliverables, 'Recon 2.0 application implemented and tested' and 'Back-up applications phased out', which together form the second transition architecture. These two projects are part of the ArchiSurance application integration program scheduled for the next 6 months.

Refer to the Scenario

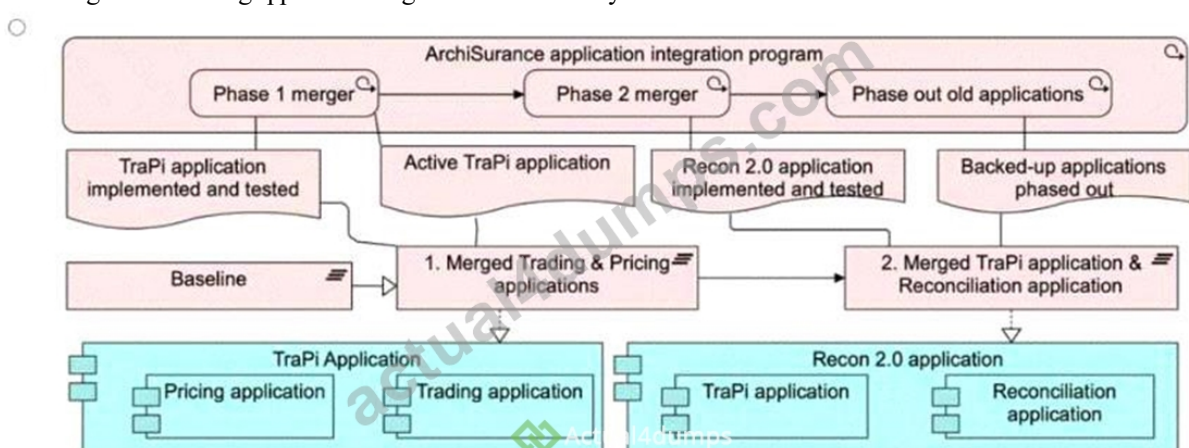
You have been asked by the lead application architect to show how the applications used for daily trading can be migrated. This should include a description of the work packages, deliverables and transition architectures.

Which of the following answers best describes the applications and migration plan?

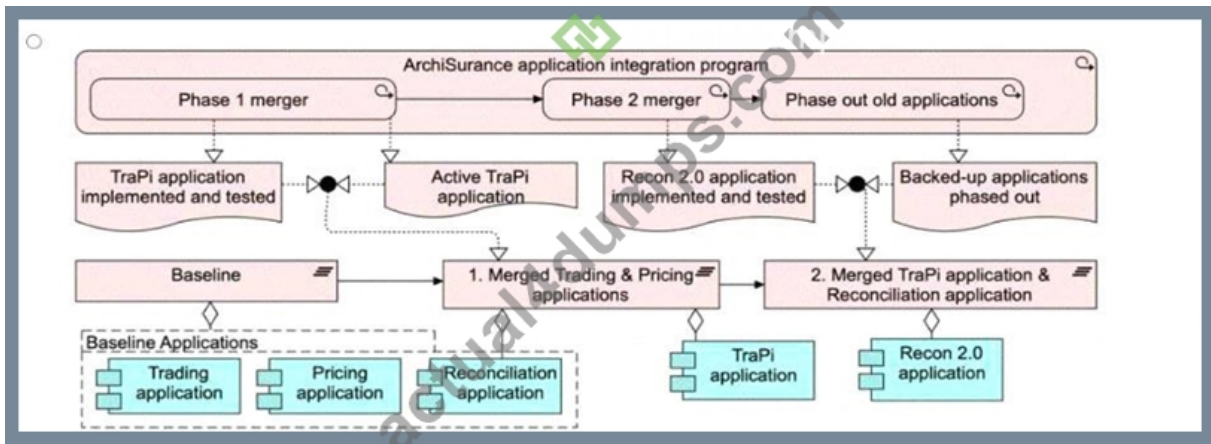
- A. A diagram of a process flow AI-generated content may be incorrect.



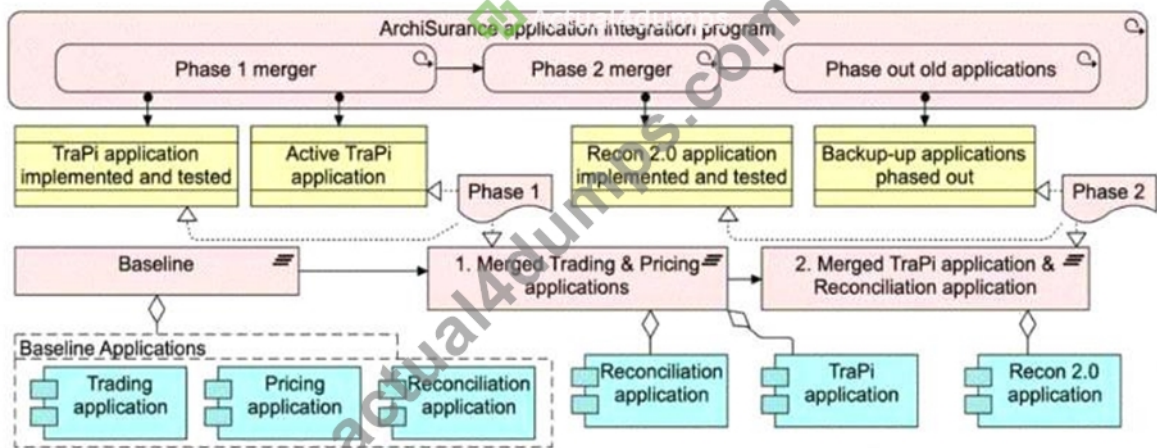
- B. A diagram of a trading application AI-generated content may be incorrect.



- C. A diagram of a process AI-generated content may be incorrect.



- D. A diagram of a process flow AI-generated content may be incorrect.



Answer: A

Explanation:

We need to determine the best model that:

- * Shows the current applications and their functions- Pricing, Trading, and Reconciliation applications.
- * Represents the migration phases-
- * Phase 1: Merges the Trading and Pricing applications into TraPri.
- * Phase 2: Merges TraPri with the Reconciliation application to create Recon 2.0.
- * Includes transition architectures- Each phase has distinct deliverables marking the transition from old applications to new merged applications.
- * Shows the work packages and dependencies- The sequence of activities leading to the final implementation.

Why D is the Best Choice:

#Clearly distinguishes baseline (existing) applications and the new applications after the migration.# Illustrates the two transition states correctly-

- * First transition: Implementation and activation of the TraPri application.
- * Second transition: Implementation of Recon 2.0 and phase-out of backup applications.#Depicts the migration process sequentially- Ensuring a clear understanding of how the applications evolve over time.#Work packages and deliverables are well structured- Aligning with the phases described in the scenario.

Why Not A, B, or C?

- * A: Does not correctly represent the transition phases and their deliverables.
- * B: Lacks clarity in differentiating baseline applications from transition architectures.
- * C: Misrepresents dependencies and transition states, making the migration process unclear.

NEW QUESTION # 15

Please read this scenario prior to answering the question

ArchiCar is a specialized company that focuses on manufacturing luxury electric cars and powertrain components, along with producing battery-charging equipment. With its own distribution network and showrooms, ArchiCar adopts a direct-to-customer sales model through online channels.

The manufacturing of ArchiCar's electric cars is carried out on fully automated assembly lines.

Leveraging a cutting-edge manufacturing process, the company boasts an impressive ability to sell and deliver a vehicle within just one month from the time of order placement. Anticipating significant growth, the CEO has set ambitious plans to increase annual production from 100,000 to 500,000 vehicles within a three-year timeframe.

To ensure the highest quality standards, ArchiCar relies on locally manufactured finished steel from the renowned ArchiMetal plant. ArchiMetal specializes in lightweight steels that allow ArchiCar to achieve a reduced vehicle weight without compromising strength and crash performance. The finished steel is efficiently transported by rail to ArchiCar's production plant, where it is stored in a dedicated warehouse until required for the automated car assembly process. Conveyor belts facilitate the seamless transfer of the finished steel from the warehouse to the assembly plant.

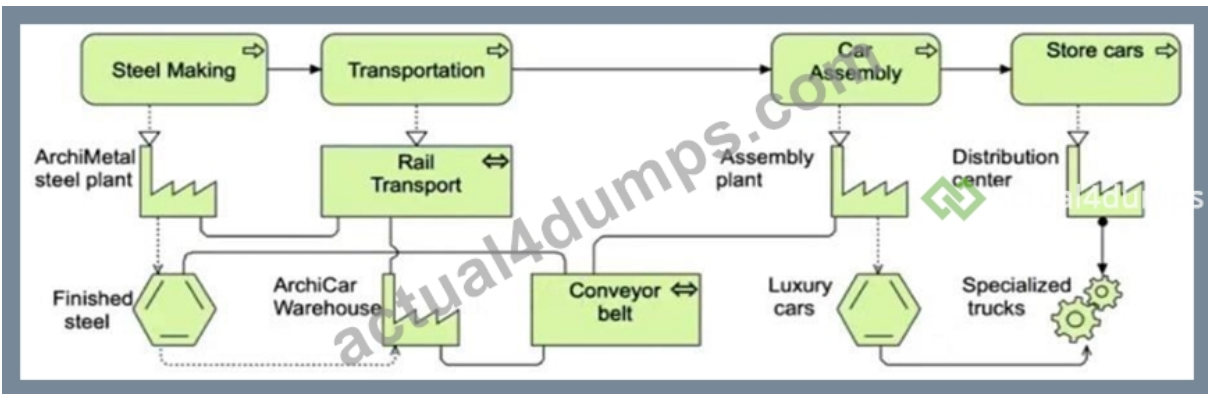
At the ArchiCar assembly plant, an optimized and streamlined assembly process is implemented, resulting in the production of 12 vehicles per hour. Once assembled, the cars are transported to a nearby distribution center using specialized trucks. These vehicles are then stored at the distribution center until they are ready for delivery to their eagerly awaiting new owners.

Refer to the Scenario

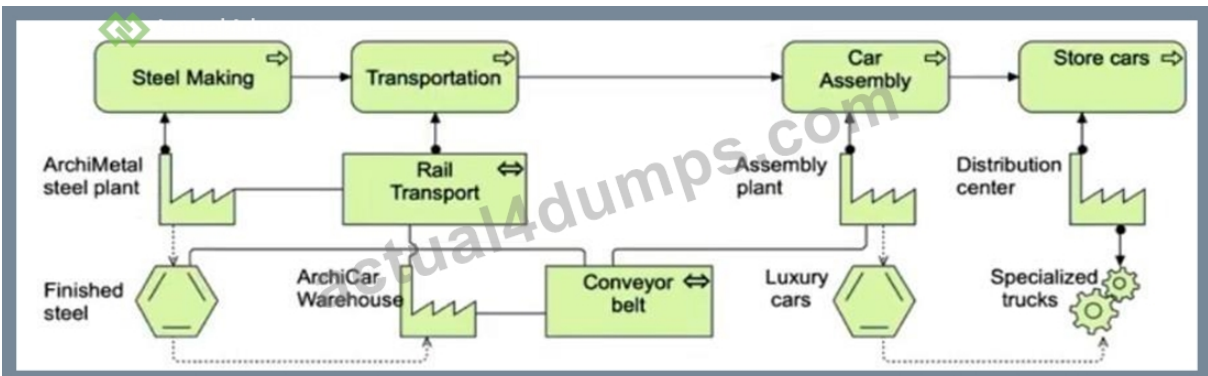
You are a consultant to the CIO. She has asked you to illustrate the end-to-end technology processes at ArchiCar from raw materials to assembled cars ready for delivery.

Which of the following answers provides the best description?

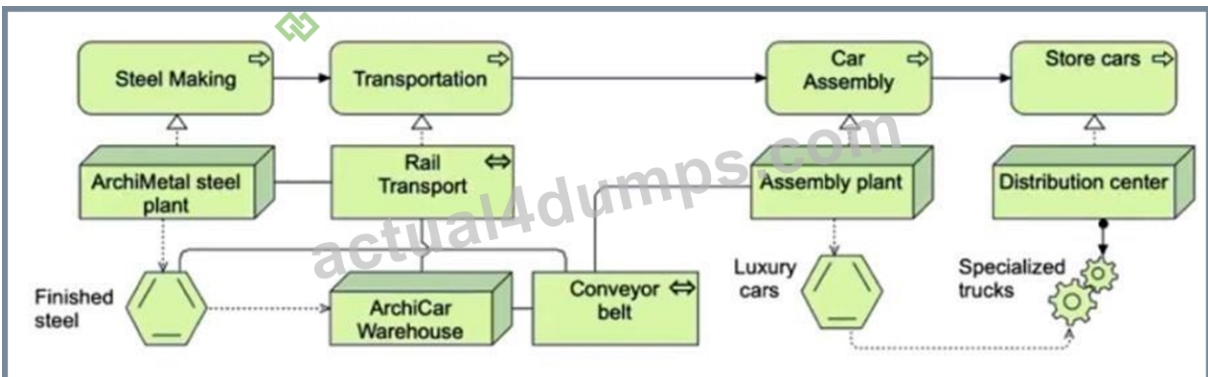
- A.



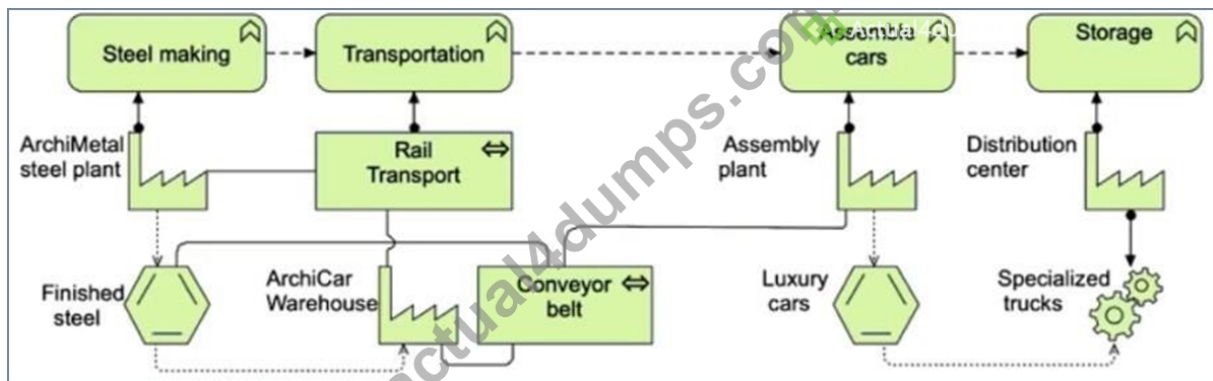
- B.



- C.



- D.



Answer: C

Explanation:

Physical-layer behavior vs. structure

- The four end-to-end steps (Steel Making → Transportation → Car Assembly → Store Cars) are modeled as Technology Processes (flat, green rectangles with the process icon).

- Each process is assigned to the proper piece of physical infrastructure:

- Steel Making is performed by the ArchiMetal steel plant node (3D box).

- Transportation is performed by the Rail Transport network node.

- Car Assembly runs on the Assembly plant node.

- Store Cars runs on the Distribution center node.

Materials as passive physical structure

- Finished steel and Luxury cars are shown as Materials (hexagons), which is exactly the ArchiMate 3 way to represent tangible goods.

- You can see the produce relationship (dashed arrow) from Steel Making → Finished steel, and the flow of Finished steel into the warehouse.

- Likewise the produce from Car Assembly → Luxury cars flows on to the Specialized Trucks for distribution.

Dedicated warehouse, conveyor, trucks

- The ArchiCar Warehouse, Conveyor belt, and Specialized trucks are all modeled as Technology Nodes (3D boxes) that physically hold or move the material.

- Their connections (solid lines) show how the warehouse feeds the conveyor, which in turn feeds the assembly plant, etc.

Correct use of ArchiMate physical layer notation

- Nodes (3D boxes) are used for all physical equipment/facilities.

- Processes (flat rectangles) for behavior.

- Materials (hexagons) for tangible products.

- Produce and flow relationships for material creation and transfer.

NEW QUESTION # 16

Please read this scenario prior to answering the question

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Each trading day, ArchiSurance submits consolidated mutual fund trading transactions to a stock exchange on behalf of its retirement plan participants.

The daily mutual fund trading cycle consists of four key processes: Transaction capture, pricing, trading and reconciliation.

Transaction capture consists of two sub-processes: manual exchange and loans and distributions (L&D). For transaction capture, retirement plan participants use an online account management application to enter manual fund exchange transactions. For L&D, plan participants use a separate application to enter requests. The L&D application determines whether the request can be fulfilled based on the mutual fund balances held in each plan balances and a set of business rules. Each day's captured manual exchange transactions accumulate in a transaction database.

ArchiSurance contracts with a third-party information service to receive a file of mutual fund prices at the close of each trading day.

The pricing application uses this file to convert captured transaction into trades, and then validates each trade against the mutual fund balances held in each plan. The pricing application generates a trade file with the minimum number of trades necessary. The trading application sends this file to an external trading service.

When the trading application

receives a confirmation file back from the trading service, it causes the reconciliation application to update the plan recordkeeping database.

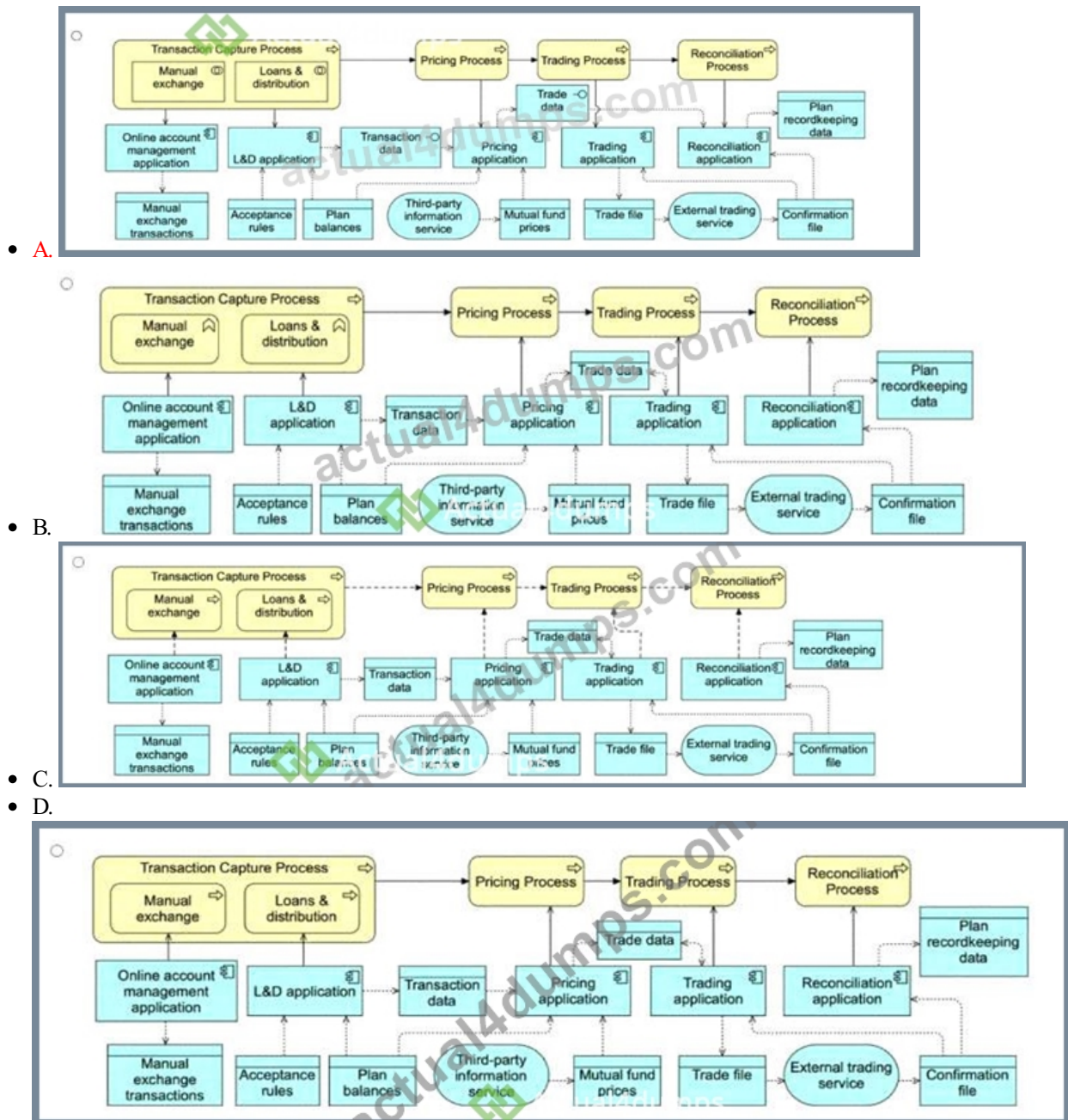
The account management and L&D applications are hosted on separate application server clusters. Each cluster is a physically separate host that runs application server software on a set of virtualized hosts. All of these applications use a database server

infrastructure that is hosted on another separate cluster of virtualized servers also on a dedicated physical host. The pricing, consolidation, trading and reconciliation applications, however, are batch applications that run on the ArchiSurance mainframe computer. All application hosts are connected via a converged data center network (DCN), which also connects them to a storage area network (SAN) as well as a wide area network (WAN) that is used to communicate with the external trading service. The SAN includes two physically separate storage arrays, one of which holds data for all databases, and another that holds data for all files.

Refer to the Scenario

The systems analysts would like to better understand the business processes and applications for daily fund trading. You have been asked to describe the business processes and sub-processes, the applications that they use, the data objects accessed by those applications, and the external application services that access some of those data objects.

Which of the following is the best answer? Note that you are not required to model the business actors/roles.



Answer: A

Explanation:

In this scenario, the goal is to model the business processes, their sub-processes, the applications supporting these processes, and the data objects these applications access. Additionally, external services that access some of these data objects need to be shown. This includes capturing the key processes and their dependencies, as well as understanding how the applications interact with data and external services.

Key ArchiMate® 3.2 Concepts Applied:

* Business Processes and Sub-Processes:

* Transaction Capture Process: Consists of two sub-processes:

* Manual Exchange

* Loans & Distribution (L&D) This process is responsible for capturing transactions from users through different applications (Online Account Management, L&D Application).

* Pricing Process: This process uses the Mutual Fund Prices from a third-party service and the Plan Balances to validate and price trades.

* Trading Process: This process generates a Trade File and interacts with an external Trading Service.

* Reconciliation Process: This final process updates the Plan Recordkeeping Data after confirming trades from the External Trading Service.

* Applications and Data:

* Online Account Management Application and L&D Application: These capture user inputs for transactions and maintain Transaction Data and Plan Balances.

* Pricing Application: Uses Mutual Fund Prices and Transaction Data to generate Trade Data.

* Trading Application: Submits Trade Data and receives a Confirmation File from the external Trading Service.

* Reconciliation Application: Uses the Confirmation File to update Plan Recordkeeping Data.

* External Application Services:

* Third-Party Information Service: Provides Mutual Fund Prices.

* External Trading Service: Processes trades and returns a Confirmation File.

* Data Objects:

* Transaction Data: Captured by the transaction capture processes.

* Mutual Fund Prices: Received from the third-party service.

* Trade Data: Generated by the pricing and trading applications.

* Plan Recordkeeping Data: Updated by the reconciliation process after trade confirmation.

Why Option B is Correct:

* Option B provides the most complete and accurate representation of the scenario. It captures the business processes (Transaction Capture, Pricing, Trading, Reconciliation) and their sub-processes, while showing the appropriate connections to the applications that support these processes.

* It clearly depicts the data objects (Transaction Data, Plan Balances, Trade File, Mutual Fund Prices, Plan Recordkeeping Data) and their flows between the processes and applications.

* The model also includes the external services (Third-Party Information Service and External Trading Service), showing how these interact with the internal applications and data objects.

* It accurately represents the flow of Trade Data from the Pricing Application to the Trading Application, and the use of Mutual Fund Prices by the Pricing Process.

Why Other Options Are Incorrect:

* Option A and Option D miss some critical connections between the applications and the external services. They also lack clarity in how the data flows between the processes and applications.

* Option C does not adequately represent the interaction between the applications and the external services (e.g., Third-Party Information Service), which is a key requirement in this scenario.

Conclusion:

Option B provides the best and most accurate description of the business processes, applications, data objects, and external services involved in ArchiSurance's daily fund trading operations, following ArchiMate® 3.2 standards for modeling business processes and applications.

NEW QUESTION # 17

Please read this scenario prior to answering the question

ArchiCar has been a market leader in the premium priced luxury car sector for the last decade. Its product leadership strategy has brought superior products to market, and enabled ArchiCar to achieve premium prices for its cars. This strategy has been widely successful in the past, but recently competitors have been offering comparable products and taking significant market share.

The governing board of ArchiCar has identified opportunities in emerging markets where the ArchiCar brand is associated with luxury and high performance products, but is thought to be too expensive for mass-market success. Based on this assessment, the board has made the decision to setup a subsidiary company to mass-produce affordable cars locally. This will be achieved by focusing on a strategy of operational excellence. Such a strategy is ideal for such markets where customers value cost over other factors.

To facilitate this strategic transformation, the project has been divided into multiple phases within a five-year program. The initial phase, known as "Achieving Operational Excellence," is underway. The engineering team has begun devising an action plan to drive the necessary changes and outlining the technological conditions that must be met. The product architect has identified three current capabilities - industry-leading engineering, high-quality materials sourcing, and cutting-edge focussed R&D - along with their

contributions to the new production philosophy.

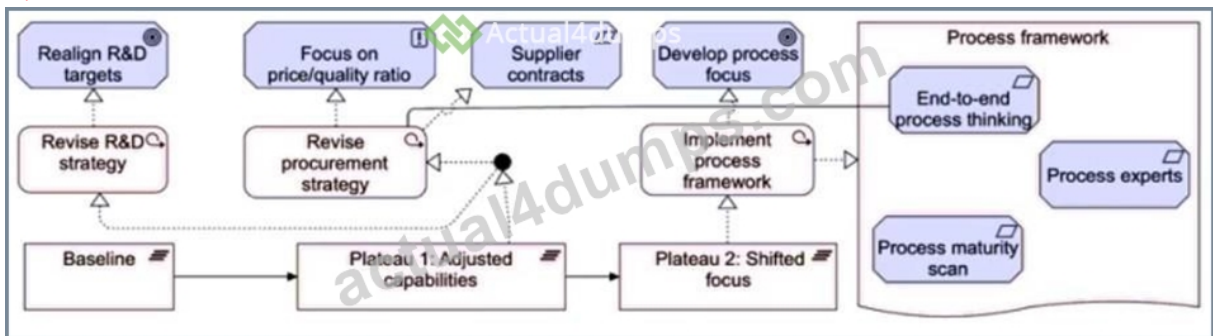
Moving forward, it has been determined that two out of the three current capabilities require revision. Materials sourcing needs to be adjusted to meet optimization demands, and R&D targets must align with future goals to enable affordable production. Additionally, process engineering is introduced as a fourth capability to shift the company's focus from products to a process-oriented approach. The Enterprise Architecture team has been tasked with migration planning, and identifying key work packages and deliverables. They have identified two transition states between the current and future scenario. The first transition aims to adjust current capabilities, including revising the R&D approach and procurement strategy. The second transition aims to shift from a product-centric mindset to a process-focused approach and adjust materials sourcing accordingly. It is important to consider existing supplier contracts that cannot be immediately canceled during this process.

Refer to the Scenario

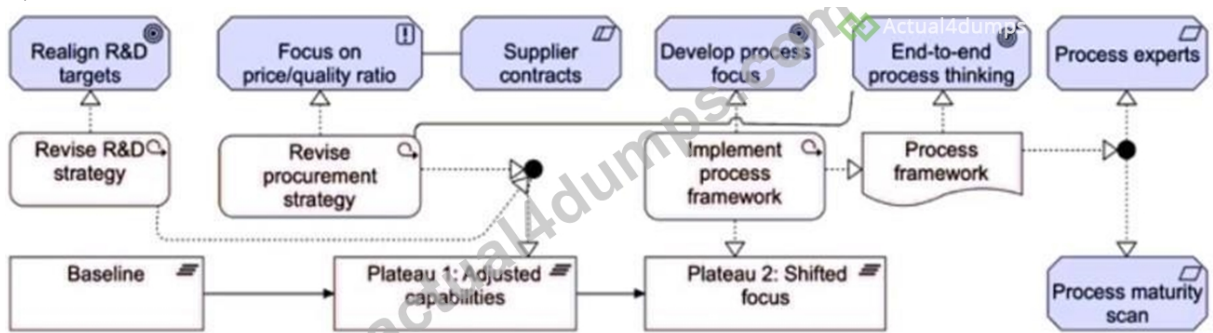
You have been asked to model parts of the overall scenario, including migration planning, the motivations driving the migration, and the work packages necessary to achieve the desired deliverables.

Which of the following answers best describes the scenario?

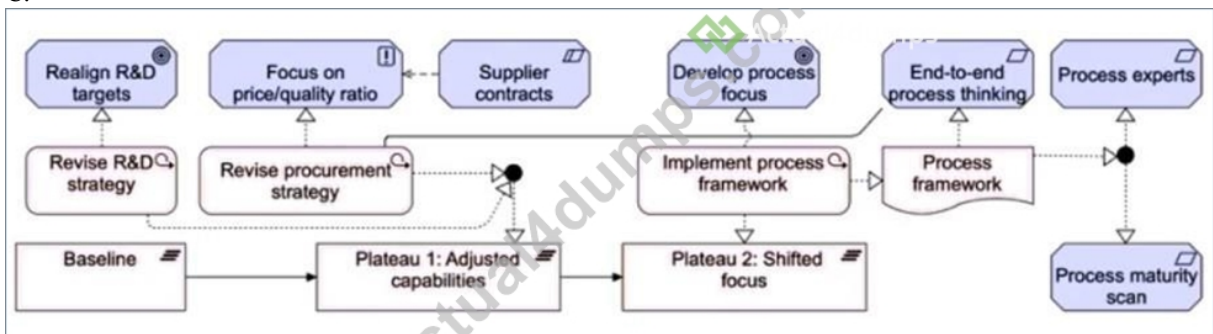
- A.



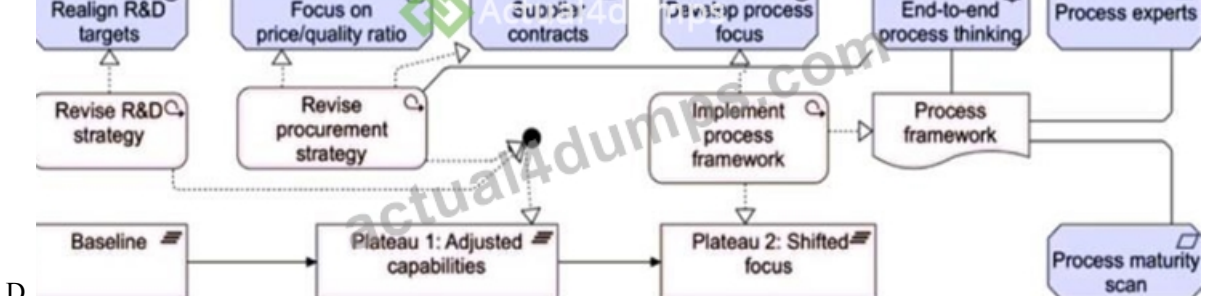
- B.



- C.



- D.



Answer: A

