

# SAP P\_SAPEA\_2023

SAP Certified Professional - SAP Enterprise Architect

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# Latest Version: 8.1

## Subjects

1. Application, Data, and Technical Architecture
2. SAP Enterprise Architecture Framework and tool set
3. Architecture vision and roadmap
4. Business Architecture

Topic: 1

Application, Data, and Technical Architecture

### Question: 1

Which of the following are the best architectural decisions for an extension application in S/4HANA?

- A. Use "Developer Extensibility" for data-intensive ABAP extensions to S/4HANA.
- Use "Side-by-Side Extensibility on SAP BTP, ABAP Environment" when additional SAP BTP services are intensively used and SAPUI5 user interfaces are required.
- B. Use "Developer Extensibility" for ABAP extensions to S/4HANA that do not require a UI component.
- Use "Side-by-Side Extensibility on SAP BTP, ABAP Environment" for extensions that require a SAPUI5 based user interface.
- C. Use "Developer Extensibility" for data-intensive ABAP extensions to S/4HANA.
- Use "Side-by-Side Extensibility on SAP BTP, ABAP Environment" for applications that are less data-intensive and SAP BTP services that are intensively used.

**Answer: A**

Application, Data, and Technical Architecture

### Question: 2

A customer has developed SAPUI5 (SAP Fiori) custom applications (running on SAP BTP), and needs to give their customers access to the applications' production process data sets. These custom applications need to display the status of a production order that is managed in the customer's S/4HANA system. Which set of integration styles would you select for the application requirement in this context (SAP BTP SAPUI5 Application needs to provide access production order status in S/4HANA)?

- A. Analytics Integration
- User Integration
- B. Data Integration
- Thing Integration
- C. Process Integration
- Data Integration

**Answer: B**

#### Application, Data, and Technical Architecture

### Question: 3

As a result of solution mapping, business capabilities might require services which partners have implemented in SAP BTP.

Which SAP components and services, if any, are required to integrate such BTP partner services with an on premise SAP S/4HANA system (hybrid scenario)?

- A. No other components are required to make an SAP on-premise backend system securely accessible over SAP BTP. SAP BTP automatically establishes secure connections in SAP backend systems.
- B. SAP HANA Cloud Connection, and the corresponding SAP Data Provisioning Agent, to make the on-premises system available to applications and services in a given SAP BTP sub account. Preferably use the SAP BTP Destination Service.
- C. SAP Cloud Connector, to make the on-premises system available to applications and services in a given SAP BTP sub account. Preferably use the SAP BTP Destination Service in combination with Cloud Connector.

**Answer: C**

#### SAP Enterprise Architecture Framework and tool set

### Question: 4

As the Chief Enterprise Architect of your company you have been asked by the CIO to apply agile principles instead of following the sequential phases of TOGAF® ADM. How do you respond?

- A. The TOGAF® ADM already embraces agile principles within and across phases and generally follows a cyclic approach. The SAP EA Framework builds on that and is especially suitable for organizations that follow agile principles.
- B. The SAP EA Framework combines the sequential approach of the TOGAF® ADM with agile principles. Agile principles are included and can be applied only to Application Architecture. Therefore, the SAP EA Framework is especially suitable for organizations that follow agile principles.
- C. It is essential to fully understand the business needs and to successfully review the business architecture with critical stakeholders before going to the next phase. In the implementation phase, agile approaches can naturally provide quick wins, constant progress, and the benefit of early validation. The phased approach, during architecture definition phases, avoids double work and will lead to overall better results.
- D. It is reasonable to apply an agile methodology for the most urgent tasks and switch to the process as guided by the SAP EA Framework later, as long as the fundamental IT architecture is not affected. Collecting "low-hanging fruit", and realizing instant value before using the SAP EA Framework, and ensuring an overall successful transformation is possible.

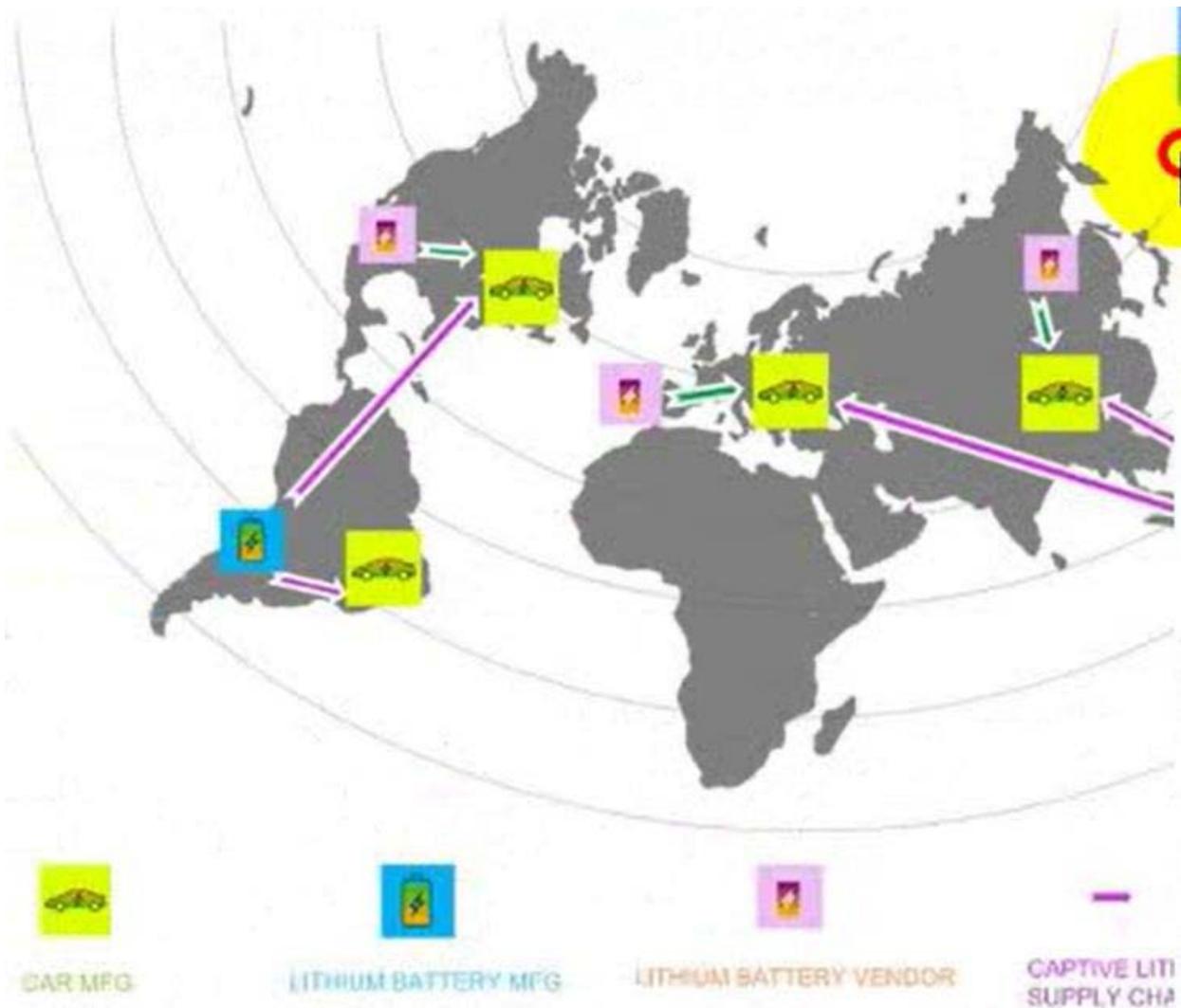
**Answer: A**

SAP Enterprise Architecture Framework and tool set

## **Introduction**

Wanderlust GmbH, headquartered in Germany but with manufacturing facilities and sales globally, is a leading global manufacturer of conventional fuel driven cars. They are renowned for their best-in-class engineering, but not so much for aftermarket customer service. In recent years, Wanderlust has had limited success expanding into the market of electric vehicles.

Following is Wanderlust's geographical manufacturing and supply spread :



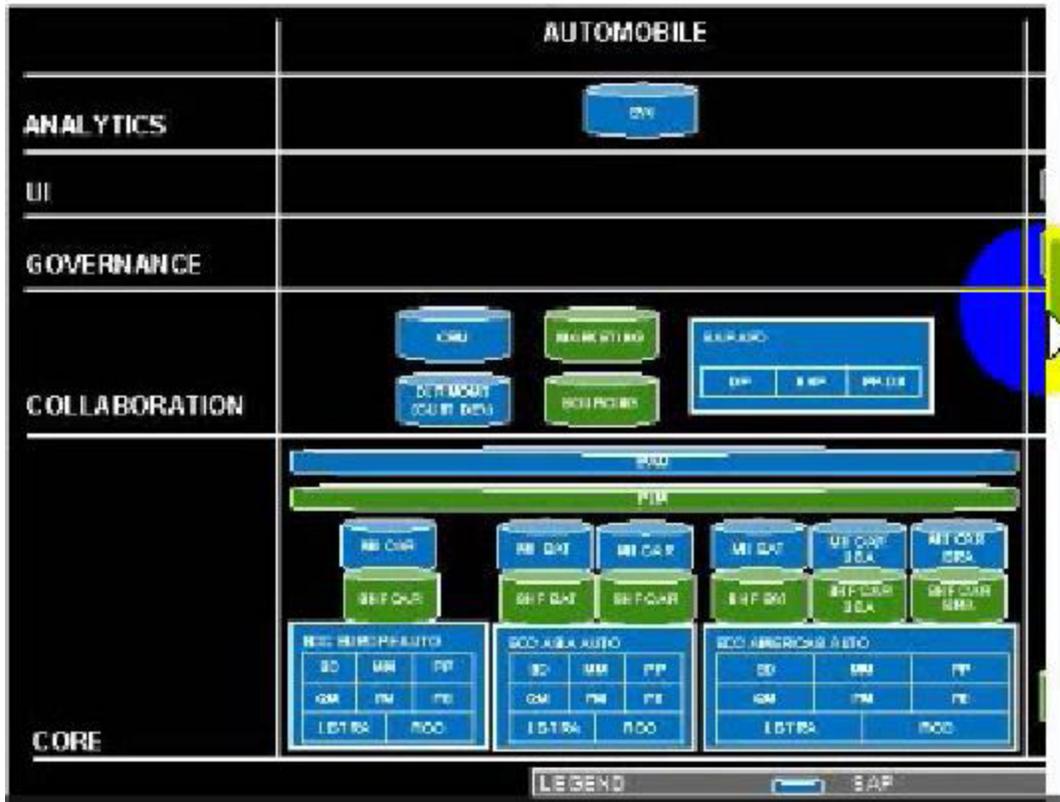
Wanderlust offers one compact electric Sedan (model ELAN) and one compact electric SUV (model ELUV), each with three variants – basic (LX), mid-range (VX) and high-end (ZX). Customers can also choose from a range of five metallic colours, two drive trains and two battery ranges. Overall, 50 different combinations are offered for all segments and variants put together.

## Extracts from CEO Interviews – Business Environment

- Constraints/ Issues
  - Stiff water consumption regulations and huge penalties for violation – Lithium extraction is a heavily water intensive process and mine locations are in very arid areas like the Australian outback and Atacama desert
  - Significant dependence on external suppliers of Lithium batteries due to limited number of manufacturing units, long lead times and high carbon footprint in all car manufacturing facilities except Brazil.
  - Long delays in spare battery availability, leading to an avalanche of unresolved battery related customer complaints for vehicles under warranty
- Limited charging infrastructure, long charging cycles (as compared to refilling fuel) and slow resolution of battery related complaints.

## Extracts from CIO Interviews – IT Environment

- Strategic Priorities - IT
  - Ease of usage
  - Ease of Maintenance
  - Total Cost of Ownership Optimization
  - Time to Value Acceleration
  
- Transformation Status
  - Only at a conceptual stage – no planning done yet
  - Nascent architecture practice
  - Unclear on supported processes, required capabilities, applications and transition path
  - Yet to identify, prioritize and sequence initiatives



- Wanderlust has separate organisation and set up for their Automobile and Aftermarket businesses
  - Wanderlust is reluctant to consider cloud for Core applications due to data privacy concerns, but are open for Collaboration applications
- 
- Automobile business started off in Europe and grew through acquisitions in Asia and Americas
  - Automobile business runs on three continental SAP ECC instances with inherited, disparate processes, which need to move to S/4 HANA
  - Automobile business is also looking to harmonise their processes across the continents, adopt a seamless, transparent global supply chain for batteries and consolidate the continental instances into a global single instance, data regulations permitting
  - Automotive business uses a highly complex custom developed dealer management solution on ECC, which needs to be replaced
  - Automotive business uses SAP APO, which is nearing end of lifecycle and needs to be replaced by IBP (DP & SNP) & S/4 HANA (PP-DS)

- Automotive business uses several bespoke Non-SAP applications, which are considered irreplaceable, except for the Marketing and Sourcing applications, which are expensive to maintain, seldom used and hence need to be replaced
- Aftermarket business processes are largely uniform and handled through a single ECC instance which also should move to S/4 HANA
- Aftermarket business uses SAP SCM which is nearing end of lifecycle and needs to be replaced by S/4 HANA AATP (gATP) and eSPP (SPP)

## Extracts from Interview with Enterprise Architect

- Enterprise Architecture Dimensions & Maturity
- Wanderlust's Key EA Dimensions, their overall purpose and current maturity level

Sl No	EA Dimension	Purpose	Current Status & Matur
1	Business-IT Alignment	Trasability between Business Drivers & IT Services	Only strategic objectives defin
2	Stakeholder Involvement	Stakeholders Identification, Awareness & Engagement in EA	Only a few stakeholders ident
3	Action & Impact	Usage of EA in Sourcing & Investment Decisions & Business Strategy	EA involved in ERF decisions
4	Architecture Development	Development Methodology with Standards, & Reference Models	Nothing developed, methodolo
5	Architecture Process	EA Creation, Maintenance, & Approval Processes	Ad hoc ●
6	Organization & Governance	Governance Organization Structure Approved by Senior Management	Governing body formed, team
7	Communication	Documentation & Communication of EA Practice Decisions	Artefacts available but not know
8	People Enablement	Roles, Skills and RACI Definition of People Involved in EA	Role & skill set defined ●

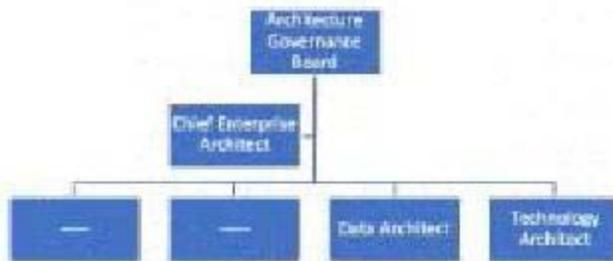
Current Status & Maturity Level
Only strategic objectives defined ●
Only a few stakeholders identified ●
EA involved in ERF decisions ●
Nothing developed, methodology in place ●
Ad hoc ●
Governing body formed, team not yet ●
Artefacts available but not known ●
Role & skill set defined ●

- Top three priorities given the current maturity level, are as follows
- Stakeholder Involvement is the topmost priority, to create a Stakeholder Map that'll identify all key EA stakeholders within Wanderlust
- Business-IT Alignment is also a top priority, to anchor every IT initiative to a Business Strategy Map, consisting of clearly defined strategic business objectives, tangible goals and measurable value drivers
- Architecture Development is the next priority, beginning with development of business architectures, followed by application architectures and finally opportunities & solutions planning

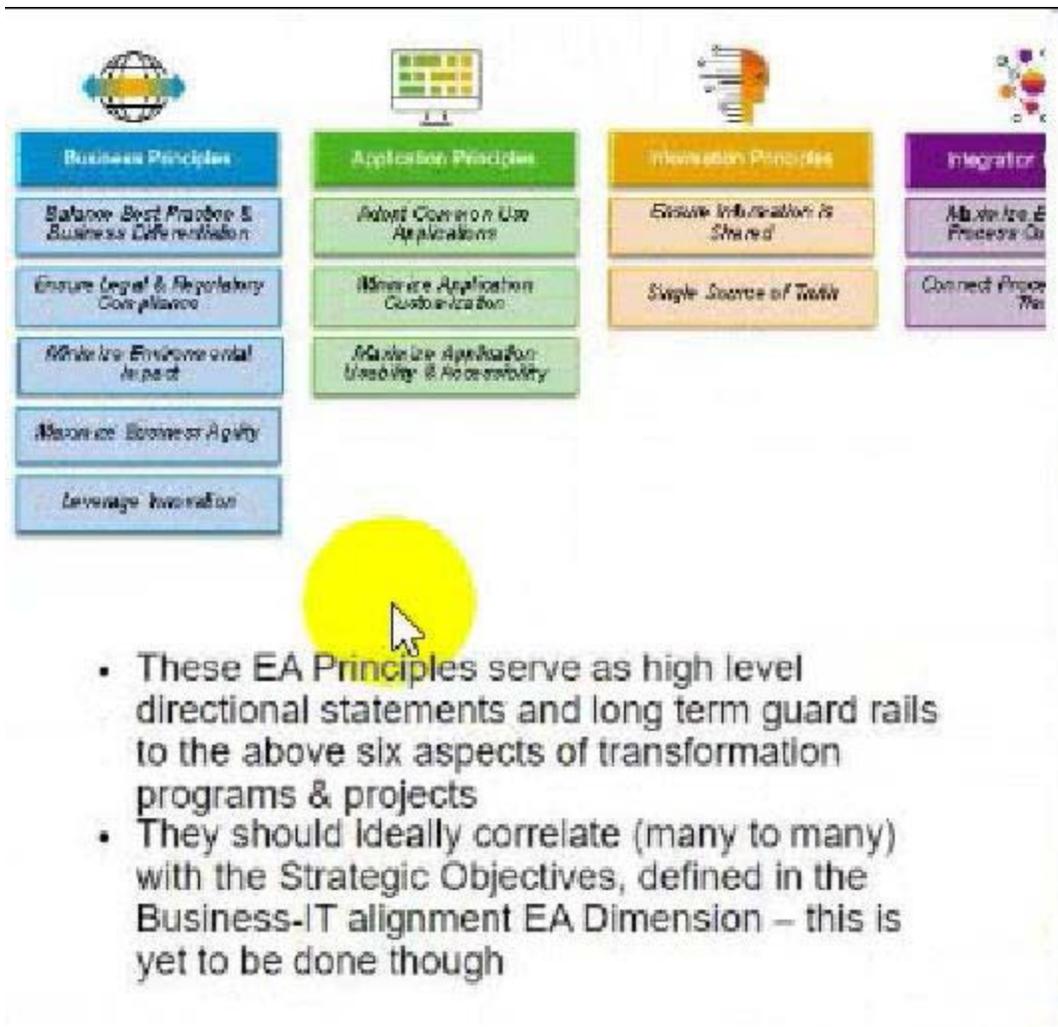
- Enterprise Architecture Practice Structure (Current)

0:03:40

(Current)



- Enterprise Architecture Principles
  - Wanderlust's Enterprise Architecture Principles are a collection of crisp and precise one liners pertaining to business, application, information, integration, technology and security aspects of transformation
  - Some of the EA Principles in the repository are



### Question: 5

Which of the following roles are missing from Wanderlust's current Enterprise Architecture practice structure? Note: There are 2 correct answers to this question.

- A. Architecture Board
- B. Business Architect
- C. Application Architect
- D. Data Architect

**Answer: B,C**

SAP Enterprise Architecture Framework and tool set

### Question: 6

As the Chief Enterprise Architect of Wanderlust GmbH, you are aware that EA principles should correlate to the Business and IT Strategic Objectives and decisions. In the list given below, the left column has some Wanderlust Business/IT objectives and decisions, and the right column has some EA principles.

Which objectives and decisions correlate best to which principle?

As the Chief Enterprise Architect of Wanderlust GmbH, you are aware that EA principles should correlate to the Business and IT Strategic Objectives and decisions. In the list given below, the left column has some Wanderlust Business/IT objectives and decisions and the right column has some EA principles.

Which objectives and decisions correlate best to which principle ?

Minimize water loss during Lithium extraction	<input type="text" value="Ensure legal and regulatory compliance and minimize environmental impact"/>
Reluctant to move Core to Cloud but open to consider cloud for collaboration	<input type="text" value="Minimize technology diversity and complexity and subscribe before buy before build"/>
Smart Battery, Insta-Charge and Perpetual Warranty initiatives	<input type="text" value="Maximize business agility and use innovation"/>
Substitute bespoke applications	<input type="text" value="Adopt common use applications and balance best practice and with best of breed"/>
Total cost of ownership optimization	<input type="text" value="Protect business data and cloud first but not cloud only"/>

- A- Ensure legal and Regulatory compliance and minimize environmental impacts
- B- Minimize technology diversity and complexity and subscribe before buy before build
- C- Maximize business agility and use innovation
- D- Adopt common use applications and balance best practice and best of breed
- E- Protect business data and cloud first but not cloud only

- Option 1:
- Minimize water loss during lithium extraction -A
  - Reluctant to move core to cloud but open to consider cloud for collaboration !E
  - Smart battery insta-charge and perpetual warranty initiatives -C
  - Substitute bespoke applications -D
  - Total cost of ownership optimization. ! B

- Option 2:
- Minimize water loss during lithium extraction -A
  - Reluctant to move core to cloud but open to consider cloud for collaboration -B
  - Smart battery insta-charge and perpetual warranty initiatives -C
  - Substitute bespoke applications -D
  - Total cost of ownership optimization. -E

- Option 3:
- Minimize water loss during lithium extraction -C
  - Reluctant to move core to cloud but open to consider cloud for collaboration -A
  - Smart battery insta-charge and perpetual warranty initiatives -D
  - Substitute bespoke applications -B
  - Total cost of ownership optimization. -E

- Option 4:
- Minimize water loss during lithium extraction -D
  - Reluctant to move core to cloud but open to consider cloud for collaboration -C
  - Smart battery insta-charge and perpetual warranty initiatives -B
  - Substitute bespoke applications -A
  - Total cost of ownership optimization. -E

- A. Option 1
- B. Option 2
- C. Option 3
- D. Option 4

**Answer: A**

#### SAP Enterprise Architecture Framework and tool set

### Question: 7

As Chief Enterprise Architect, you are asked to select an Enterprise Architecture toolset of Wanderlust GmbH' Enterprise Architecture activities.

What are the most critical selection criteria you should consider? Note: There are 3 correct answers to this question.

- A. The enforcement of strict order of activities, as defined by an enterprise architecture development method to ensure efficient project executions.
- B. The support of excellent visualization, to optimally engage with portfolio and business management teams.
- C. The support of version control in the repository, to manage architecture changes.
- D. The use of already established office applications, to keep the entry hurdle for all authors as low as possible.
- E. The support of data import or export capabilities, to use external reference data.

**Answer: B,C,E**

#### Architecture vision and roadmap

### Question: 8

Green Elk & Company is the world's leading manufacturer of agricultural and forestry machinery. The former company slogan "Elk always runs" has recently been changed to "Elk feeds the world". One of Green Elk's strategic goals is to increase its revenue in the emerging markets of China, India, and other parts of Asia by 80 % within three years. This requires a new business model that caters to significantly smaller farms with limited budgets. You are the Chief Enterprise Architect and the CIO asks you to assess the new business model for smaller farms with smaller budgets.

Given the principle and statement, which of the following combinations of rationale and implication do you consider well-defined?

A.

<b>Principle</b>	Use packaged solutions, in a standard way
<b>Statement</b>	Buy packaged solutions that support our business requirements and use them in a standard way.
<b>Rationale</b>	<ul style="list-style-type: none"> <li>• Process and solution will be simplified by using packaged software in a standard way</li> <li>• Adherence to standard will allow better maintenance and lower the total cost of ownership</li> <li>• Increase the capability to adopt technology innovation</li> </ul>
<b>Implication</b>	<ul style="list-style-type: none"> <li>• Reuse vendor and industry best practices, reference architectures and pre-delivered content</li> <li>• Apply guidelines, patterns, standards, and naming conventions</li> <li>• Use maximum possible solution standards and avoid custom developments wherever possible</li> </ul>

B.

<b>Principle</b>	Use packaged solutions, in a standard way
<b>Statement</b>	Buy packaged solutions that support our business requirements and use them in a standard way.
<b>Rationale</b>	<ul style="list-style-type: none"> <li>• Process and solution will be simplified by using packaged software in a standard way</li> <li>• Adherence to standard will allow better maintenance and lower the total cost of ownership</li> <li>• Increase the capability to adopt technology innovation</li> </ul>
<b>Implication</b>	<ul style="list-style-type: none"> <li>• Deviations from standard require additional cost, not only during the implementation</li> <li>• Non-standard solutions block the potential of disruptive business models</li> <li>• Decreased overall cost and reduced complexity leading to efficiencies due to adoption of standard</li> </ul>

C.

<b>Principle</b>	Use packaged solutions, in a standard way
<b>Statement</b>	Buy packaged solutions that support our business requirements and use them in a standard way.
<b>Rationale</b>	<ul style="list-style-type: none"> <li>• Process and solution will be simplified by using packaged software in a standard way</li> <li>• Adherence to standard will allow better maintenance and lower the total cost of ownership</li> <li>• Increase the capability to adopt technology innovation</li> </ul>
<b>Implication</b>	<ul style="list-style-type: none"> <li>• In case custom developments are required, adhere to defined best practices, standards, and guidelines (extensibility concept, side-by-side extensions)</li> <li>• Reuse before buy, before build</li> <li>• Enable easier transition to the cloud in the future</li> </ul>

D.

<b>Principle</b>	Use packaged solutions, in a standard way
<b>Statement</b>	Buy packaged solutions that support our business requirements and use them in a standard way.
<b>Rationale</b>	<ul style="list-style-type: none"><li>• In case custom developments are required, adhere to defined best practices, standards, and guidelines (extensibility concept, side-by-side extensions)</li><li>• Reuse before buy, before build</li><li>• Enable easier future transition to the cloud</li></ul>
<b>Implication</b>	<ul style="list-style-type: none"><li>• Process and solution will be simplified by using packaged software in a standard way</li><li>• Adherence to standard will allow better maintenance and lower the total cost of ownership</li><li>• Increase the capability to adopt technology innovation</li></ul>

**Answer: A**

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