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**Exam** : **BEA 0B0-105**

**Title** : BEA8.1 Certified  
Architect:Enterprise Architecture

**Update** : Demo



1. Smithers and Dithers must now support interaction with business applications that use ebXML and RosettaNet B2B protocols. Which architectural approach would best satisfy this new requirement?

### Smithers and Dithers Background

#### History and project background

Smithers and Dithers (S&D) is a well-established, well-respected retail apparel company that has been in business for forty years; it currently implements thirty custom product lines in five separate retail divisions; each division comprises many retail locations across the United States. Although the day-to-day store operations are handled locally for each chain and managed through local POS systems, S&D's corporate headquarters handles all back-office business operations for each retail division as a whole. As a result of its longevity, the size and complexity of its operations, and a series of acquisitions, S&D currently supports many large-scale and legacy applications.

The primary legacy applications are as follows:

- **PeopleSoft-based Human Resources (HR) system:** all employee information, including corporate information, employee benefits package, timesheets, and so on, for every Smithers and Dithers employee, is stored in the corporate PeopleSoft implementation. Employee new-hire and status-change information is also stored in the corporate PeopleSoft system.
- **Customer Relationship Management (CRM) system:** S&D uses a CRM system provided by NCR; this choice allowed Smithers and Dithers to leverage their existing Teradata Data Warehouse, and incorporate capabilities to target the right kind of merchandise at the right type of customer, based on demographic and geographic information. This system is successfully used by Marketing to analyze and predict customer trends and help in creating special promotions and ad campaigns.
- **Custom accounting system:** S&D uses a proprietary accounting system that has been in use by their chains for many years. The system was written in Cobol; it uses CICS for transaction monitoring and management. Correct integration with the accounting system is crucial to the POS project, because the other systems rely on this system.
- **Inventory control system:** the inventory system employed by S&D is a custom application. It has been evolving for many years. It is complex, and it integrates with the existing accounting system, SCM system, and warehouse. Interestingly, in addition to regular inventory control functions, the inventory system contains the purchase ordering functionality for all of the retail divisions.
- **Supply Chain Management:** this is another custom application, running on the S&D mainframe, leveraging a DB2-based data store. The current system is very sophisticated; it is designed around the following key ideas:

- A. Publish WebLogic Portal JMX MBean APIs to each business partner
- B. Design one or more WebLogic Server Messaging Bridges with J2CA adapters
- C. Configure a Trading Partner Management repository with WebLogic Integration
- D. Use WebLogic Workshop to wrap coarse-grained business functionality as Web Services
- E. Use the Liquid Data View Builder to design and build custom queries for integrated data access

**Correct: C**

2. Scenario: The Notify Merchandiser and Notify Inventory Control steps defined in FR004's activity diagram should be invoked in parallel. Which of the following is NOT a valid architectural approach based on this use case requirement?

- A. Send notification messages to two separate JMS Queues monitored by both consumers
- B. Send one notification message to a single JMS Topic which maintains a separate subscription from both consumers
- C. Send notification messages directly to two Message-driven EJB callback objects provided by both consumers
- D. Send one notification message to a single JMS Topic which maintains a separate subscription from both consumers within a single XA transaction
- E. Send two notification messages to a single JMS Queue using a JMS message selector by each consumer

**Correct: C**

3. Scenario: The activity diagram for FR004 details dependencies on other applications whose requirements are defined in separate use cases. A primary requirement for the new POS application is that it must accommodate future architectures and currently-unknown internal and

external clients. Given the path defined by FR004's activity diagram and the non-functional requirement, answer the following question. The activity diagram and use case specify that if an update to an EIS fails, the process must roll back the current transaction. Assuming that each update is asynchronously invoked, what is the best way to handle transaction rollback within this process?

- A. Use a standard XA transaction employing two-phase commit
- B. Define an explicit transaction boundary within the process definition
- C. Use the transaction propagation facilities of J2CA and execute each update from the XA transaction context of the process
- D. Use a compensating transaction after each callback from the EIS' update operation that manually restores the affected data
- E. Implement a custom exception path within the process that invokes the rollback method of the related global distributed transaction

**Correct:E**

**4.WSRP is an attractive option for web development because it decouples the deployment and delivery of applications. WebLogic Platform allows for the creation of WSRP-enabled portlets EXCEPT for which portlet type?**

- A. Struts
- B. Pageflow
- C. HTTP Web Service
- D. JSR168 Java Portlet
- E. JSP Portlets using a JPF

**Correct:C**

**5.Smithers and Dithers' architecture must accommodate multiple Web requests, which may demand various preprocessing and postprocessing activities. Which Design Pattern best describes a solution that meets this requirement?**

- A. Flyweight
- B. View Helper
- C. Front Controller
- D. Composite View
- E. Dispatcher View

**Correct:C**

**6.You have determined that your Web Applications will be deployed to a WebLogic cluster for high availability. In order to take advantage of HTTP session replication, which of the following is required?**

- A. All session data must be serializable
- B. Replication Groups must be configured
- C. One member of the cluster must be used as the proxy server
- D. All members of the cluster must be located within the same subnet
- E. At least two cluster members must be running on separate machines

**Correct:A**

**7.Scenario: Use Case FR004 gives the requirements for the daily transaction upload that every store POS terminal must complete. The associated activity diagram provides the path through this**

use case. You decided to implement this functionality as a separate Java Process Definition using WebLogic Integration. Use this information to answer the following question. Given the requirements of FR004 for guaranteed message delivery, which architectural approach provides the best solution for maximum performance throughput?

- A. Configure the store's JMS server to use persistent message delivery using a JDBC backing store.
- B. Configure the POS terminal's JMS server to use persistent message delivery using a JDBC backing store.
- C. Configure the POS terminal's JMS server to use persistent message delivery using a file store as the message's paging store.
- D. Configure the store's JMS server to use persistent message delivery using a file backing store. Use a common network mount point and a file directory on a RAID array.
- E. Configure the POS terminal's JMS server to use persistent message delivery using a file backing store. Use a common network mount point and a file directory on a RAID array.

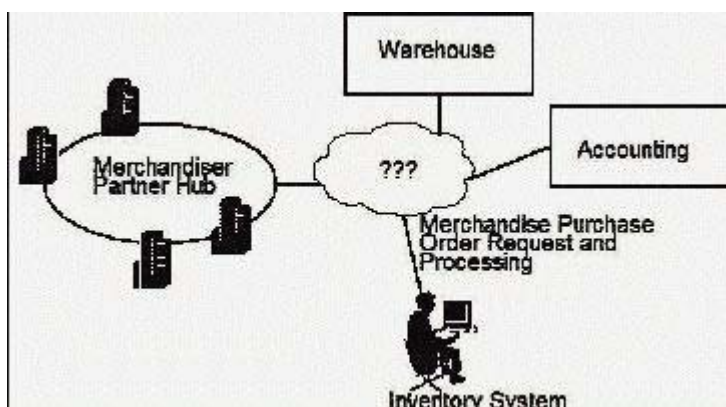
**Correct:D**

8. Smithers and Dithers will be using HP Openview for all SNMP management. Which of the following is NOT true concerning WebLogic Server's SNMP capabilities?

- A. The WebLogic SNMP agent supports both SNMPv1 and SNMPv2 protocols
- B. The WebLogic SNMP agent can only run on a domain's Administration Server
- C. Each MBean attribute in the MIB is an SNMP managed object with a unique object identifier
- D. The WebLogic SNMP agent can be configured to respond to simple GET and SET requests
- E. The WebLogic SNMP agent can act as a proxy to other SNMP agents on the same machine

**Correct:D**

9. Scenario: The diagram represents the interactions of the Inventory system with external entities during the processing of a purchase order. The activity is completely described in Activity Diagram. In this business process, the PO is presented to a merchandiser; a warehouse confirms storage requirements; and the information is used to update the accounting system, asynchronously. Which type of invocation model is best suited to implement Use Case FR002?



- A. Creating a command object that delegates passing parameterized messages, asynchronously.
- B. A synchronous invocation on every module required to implement the functionality defined by the Use Case
- C. An asynchronous invocation of each notification sub-system, which delivers the appropriate message to the appropriate message destination.
- D. Using a separate delegate object, which creates a thread pool using separate threads to invoke each

operation concurrently and perform thread monitoring and management

E.Scope each synchronous invocation within a single XA transaction.

**Correct:C**

**10.Within a Service-Oriented Architecture, which of the following is NOT a Connectivity Layer component?**

A.Portlet

B.EJB Control

C.Java control

D.J2CA Adapter

E.Application View

**Correct:A**

**11.You have determined that your J2EE EJB tier applications should be deployed to a WebLogic Cluster in order to achieve the necessary scalability requirements. When considering adequate network bandwidth to minimize lost multicast packets, which activity is likely to generate the greatest concentration of multicast traffic?**

A.JNDI updates

B.JMS Server migration

C.JMX Mbean monitoring

D.HTTP Session replication

E.WebLogic cluster heartbeats

**Correct:A**

**12.Scenario: You have determined that Model-View-Controller (MVC) architecture will be used for Smithers and Dithers' Web applications. To streamline development efforts, you have decided to standardize by leveraging WebLogic Workshop using Java Page Flows. Which of the following statements is NOT true concerning Page Flows?**

A.Page Flows can contain other Page Flows

B.Page Flows can be called from JPD business processes

C.Page Flows are based on the open-source Struts architecture

D.Page Flows can be exposed as a Portlet within a Portal application

E.Page Flows can access business functionality with Workshop controls

**Correct:B**

**13.Scenario: You have a requirement to use existing user-specific data to display selected data elements and control personalization of the presentation to the user. Which is the best architectural approach to seamlessly provide access to this data?**

A.Wrap the legacy data behind a Web service

B.Incorporate access through a unified user profile

C.Add access to the data through the content repository system

D.Create Entity Beans that provide wrapper access to the legacy data

E.Provide direct programmatic access to the legacy data directly from the presentation layer

**Correct:B**

**14.When considering distributed transactions and the two-phase commit protocol, which of the following statements is NOT true?**

A.WebLogic Server does not support nested transactions

- B. WebLogic Server allows transactions to be terminated only by the client that created the transaction
- C. Recovering transactions for a failed WebLogic server instance requires a WebLogic Cluster configuration
- D. A heuristic decision occurs when any XA resource makes a unilateral decision during the completion phase
- E. By default, the Transaction Manager will continue to complete the transaction during the second phase for up to 24 hours

**Correct: C**

**15. Within a Service-Oriented Architecture, which of the following would NOT appear in the Orchestration Layer:**

- A. J2CA Adapters
- B. Java Controls
- C. Application Views
- D. Business Processes
- E. Data-aggregation Services

**Correct: A**

**16. Scenario: Currently, Smithers and Dithers' architecture makes use of many Remote Procedure Call (RPC)-style calls to business system assets, aggregating large amounts of data across the network (see network diagram). There are, of course, multiple concerns regarding latency and performance that arose from the initial design. Now, you intend to review the reference architecture and identify some reasonably easy to implement solutions to these concerns. Use this information to answer the following question. Smithers and Dithers would like to implement better mapping and management of the Object Model to the Relation Model. They want to manage Entity relationships without having to maintain Entity Bean references within Entity Beans. They want to minimize, as much as possible, the networking overhead of clients and EJBs accessing other EJBs. Which is the best design pattern to accomplish this?**

- A. Session Facade
- B. Composite Entity
- C. Value List Handler
- D. Service to Worker
- E. Transfer Object Assembler

**Correct: B**

**17. Many users, located in different geographic regions, all need access to certain secure Web applications and EJB components. The users, although dispersed, have common job descriptions. What is the best way to generically provide access for all of these users?**

- A. Use declarative security by providing authorization based user roles
- B. Programmatically authorize each user who requests a protected resource
- C. Use Security Assertion Markup Language (SAML) to implement discretionary security
- D. Create all user accounts in an LDAP server, and make it the default security realm for the domain
- E. Define a custom security proxy that stores and propagates each authenticated user's credential information

**Correct: A**

**18. The Smithers and Dithers architecture has several legacy Tuxedo services that are used for XA**

transactions as well as overnight batch processing. You must now make some of these Tuxedo services available to Java Page Flows and Java Process Definitions within WebLogic Platform deployments. Which architectural approach is the best way to implement this requirement with the least amount of development effort while still providing transactional integrity?

- A. Configure a /Q Tuxedo queue; create a JMS to /Q bridge within each WebLogic Server
- B. Configure a Tuxedo Domain Gateway; create a Tuxedo control as a JATMI client using a WTC bridge from each WebLogic Server
- C. Configure Tuxedo to accept Jolt clients; create a Tuxedo Jolt client class that can be distributed within a utility jar file for each interested WebLogic client
- D. Configure Tuxedo to accept Work Station clients; create a J2CA adapter that can be accessed as an Application View control from each WebLogic client
- E. Configure and deploy a CORBA wrapper for the Tuxedo services; create a Tuxedo CORBA client class than can be distributed within a utility jar file for each interested WebLogic client

**Correct: B**

**19. Which statement best describes the way in which WebLogic Workshop can be used to develop applications following the MVC pattern?**

- A. Create EJBs and JSPs. Call EJBs from Servlets.
- B. WebLogic Workshop doesn't use the MVC model.
- C. Create a Struts Action Form and associate it with the appropriate Action Mapping definition.
- D. Create a serializable JavaBean that defines the stateful fields and their methods, and passes the data between the model invocation and view elements.
- E. Create an action form that defines the stateful fields and their accessor/mutator methods. Scope the form to a PageFlow and pass the state to controls, and call from the view as necessary.

**Correct: E**

**20. Which approach provides the best solution for dealing with Entity EJB data access granularity and Remote Method Invocations?**

- A. Create a value object and pass the value object to each Entity EJB method
- B. Directly update the value of the persistent attribute, thus bypassing a call to the Entity EJB
- C. Create a Stateless Session Bean facade, providing a more coarse-grained method invocation
- D. Implement the value list pattern, restricting the amount of data that is passed and returned from the Entity EJB
- E. Replace the Entity interface with a Session interface to improve performance, yet maintaining the same EJB container functionality

**Correct: C**

**21. Scenario: Currently, Smithers and Dithers use SSL to ensure the confidentiality and integrity of data at the transport layer. Non-functional requirement NFREQ 1.7 documents the requirements for security of remote method invocation and document exchange with Smithers and Dithers' trading partners. Gap analysis of the current security model and the proposed security model indicated that which of the following statements is true?**

- A. The requirement is met by the current security architecture
- B. There is not enough information to determine whether the requirement is met
- C. The requirement is not met by the current security architecture because SSL does not guarantee message-level security

D.The requirement is almost met by the current security architecture; to meet the requirement, a declarative security implementation must be added

E.The requirement is almost met by the current security architecture; setting the SSL transport-guarantee property of the WebLogic SSL configuration will meet the requirement

**Correct:C**

**22.NFREQ 1.11 states that single sign-on shall be used for authentication and authorization of principals that use the POS application. Analysis of the current security model shows that this requirement is not currently met. In creating your security model gap analysis, which of the following should be your recommended solution for implementing the single sign-on requirement?**

A.SAML

B.XMLKS

C.PKCS7

D.XMLDigitalSignature

E.SSL, configured with Support Single Sign On enabled

**Correct:A**

**23.Scenario: The activity diagram for FR004 details dependencies on other applications whose requirements are defined in separate use cases. A primary requirement for the new POS application is that it must accommodate future architectures and currently-unknown internal and external clients. Given the path defined by FR004's activity diagram and the non-functional requirement, answer the following question. Considering the parallel paths of execution in the POS terminal application's business process, after creating WLI application views using the appropriate J2CA adapters, which is the best architectural approach for updating the General Ledger, Store Inventory and General Inventory?**

A.Access each application view using an application view control

B.Expose each application view as a Web service and access it with a Control Send

C.Access each application view using a Stateless Session EJB facade in a Perform node Access each application view using a Stateless Session EJB facade in a Perform node

D.Access each application view through separate process controls within the process definition

E.Expose each application view as a Web service and access it with a Control Send with Return

**Correct:B**

**24.Your application requirements include accessing a legacy mainframe application with native communications protocols. The legacy system must be accessible from J2EE and .Net servers. To do this most effectively, you would use a product based on which specification?**

A.J2CA

B.JDBC

C.RMI/IIOP

D.Web Services

E.Java to CORBA bridge

**Correct:D**

**25.Smithers and Dithers has a standard XML representation for Purchase Orders. However, use case FR003 indicates that Purchase Orders may be sent to multiple suppliers. Each supplier may have its own requirements for the structure of the document being submitted as a Purchase Order. What is the most effective way to accommodate each vendor's requirements?**

- A. Create Transformation controls to use the XQuery mapper in WLI.
- B. Create an XSLT Stylesheet to generate the appropriate document type.
- C. Use XML Beans to create the appropriate XML Structure from the internal representation.
- D. Require each vendor to accept the Smithers and Dithers Purchase Order document type.
- E. Create a Java Control for each required document type and call it from a business process.

**Correct:A**

**26.Scenario: Currently, Smithers and Dithers' architecture makes use of many Remote Procedure Calls to business system assets, aggregating large amounts of data across the network (see network diagram). There are, of course, multiple concerns regarding latency and performance that arose from the initial design. Now, you intend to review the reference architecture and identify some reasonably easy to implement solutions to these concerns. Use this information to answer the following question. You have decided to use the Value Object as a key pattern. What is the most important concern that you should have about the aggregated data that a Value Object contains?**

- A. The granularity of the data stored within the Value Object
- B. The frequency with which the cached data in the Value Object is refreshed
- C. There is no cause for concern; this pattern has no negative effect on an implementation
- D. The latency of the called methods in creating and populating the data contained in the Value Object
- E. The frequency with which clients make synchronous calls to business methods using the Value Object

**Correct:B**

**27.Scenario: A functional requirement specifies that you must include an existing order-fulfillment business process and provide direct access to the legacy order-fulfillment system. You determined that the J2CA specification provides the most direct and appropriate way to accomplish this task within your architecture. You have decided to use J2CA adapters and the business process modeling capabilities of WebLogic Integration 8.1 to implement the requirement. What is the most practical way to access the J2CA adapter within your WebLogic Integration application?**

- A. Deploy a separate J2CA control so that it called directly from the Java Page Flow.
- B. Create an application view then generate an application view control within the JPD.
- C. Generate a Web service control around the adapter so it can be used directly from any JPD.
- D. Implement a simple two-tier API call between the JSP and the adapter by creating a custom control in the Web tier defined in the Web application.
- E. Create a facade of Stateless Session EJBs that encapsulates the sequence, control, transactional attributes and security associated with each invocation of the adapter.

**Correct:B**

**28.Within a Service-Oriented Architecture, service versions are bound to consumers through the:**

- A. UDDI Server
- B. Service Policy
- C. Connectivity Layer
- D. Services Directory
- E. Orchestration Layer

**Correct:B**

**29.Scenario: To streamline development efforts, you have decided to standardize by leveraging**

**WebLogic Workshop controls within Smithers and Dithers' J2EE projects. There are several built-in Java controls provided but some custom Java controls will need to be created. Which of the following would NOT be a valid architectural reason for designing a custom Java control?**

- A. Provide direct access to an EJB
- B. Provide an implicit XA-transaction boundary
- C. Encapsulate resources with additional business rules
- D. Aggregate other controls for more coarse-grained access
- E. Prevent direct access to certain back-end control methods

**Correct:A**

**30. You have determined that Smithers and Dithers' Web applications should be deployed to a WebLogic Cluster in order to achieve the necessary requirements. In order to provide session failover, high throughput, and high availability with the fastest performance, which architectural approach would offer the best solution for providing Web client access to the cluster?**

- A. Configure a hardware load-balancer with an SSL-accelerator as a proxy to the cluster
- B. Deploy an instance of WebLogic Server with a configured HTTPClusterServlet as a proxy to the cluster
- C. Configure a Third-Party Web Server (such as Apache), using a native WebLogic Server plug-in as a proxy to the cluster
- D. Leverage DNS servers by mapping a single DNS name to the IP addresses of all the clustered WebLogic server instances
- E. Deploy a separate set of Third-Party Web Servers (such as Apache), using native WebLogic Server plug-ins as a proxy to the cluster

**Correct:A**

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