WebMethods – Interview Questions

1) What is Package? How to deploy it?
2) What is Patch? How to deploy it?
3) What is difference between the patch and package?
4) What is GEAR Methodology?
5) Protocols –HTTP,FTP,SMTP
6) What is Centrasite and its Overview?
7) What is WebMethods Optimize?
8) How to Upgrade Particular Sample to WebMethods 9.X?
9) Working on the Adapters?
10) What is MWS?
   - Adding Broker
   - Adding User
   - Monitoring Queues
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   - File Schemas
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11) How to Look Server Log, Error Log, Error Handling
12) What is Try-Catch Block?
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15) Define versions of WebMethods 6.1/6.5/7.1/8.2/9.X?
16) What is SOAP, XML, XSD, and SOAP Header Handler?
17) How to Invoke a Java Service?
18) How to invoke another service with reference of java service (Service: to Invoke)?
19) Define Package Naming Convention?
20) Define the Flow Steps?
21) What is guaranteed delivery?
22) What is Default URL, Broker, IS?
23) What is ACL?
24) Write about Conditional Mapping?
25) Define Listeners?
26) Define the Complete WebMethods Package Structure?
27) What is Trading Networks?
28) Define about LOG Levels?
29) How to start and stop servers like IS, Broker, MWS?
30) Define the Knowledge about Clustering?
31) What is Enterprise Service Bus?
32) What is BPM?
33) What is IS Key Components?

34) What is Pipeline?(Saving,Restoring,Saving to File, Restoring to file)
35) What is SOAP UI, Universal Messaging?
36) What is XSL, XSLTXML schema, XQuery, path?
37) Idea About DB configurations
38) Loading,Importing,Eporting of Packages
39) Java Compiler, Nesting Parameters
40) Write about Asynchronous Queue, Synchronous Response?
41) SAP adapters, IDOC

How can the webMethods Integration Server logging date format be changed?
By editing the watt.server.dateStampFmt parameter in the server.cnf file
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How can we see the received document in Trading Networks
Using transactional analysis

How do I change the JVM used by Integration Server?
To change to the JDK used by webMethods you will need to edit the
IntegrationServer\bin\server.bat or IntegrationServer/bin/server.sh file used to start up
Integration Server.
Edit the file and change the following line to point to the JDK path
SET JAVA_DIR=C:\opt\j2sdk1.4.2

How do I debug the Developer IDE itself ?
Start the developer up in debug mode, similar to the Integration server:
cd pathToWMInstall/Developer/bin
developer.bat -debug 10
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hat Is Data Validated Against?
During validation, run-time data is compared to a blueprintor model.
The blueprint or model is a formal description of the structure and the allowable content for the
data.
The blueprint identifies structural and content constraints forthe data being validated.
The validation engine in webMethods Integration Serverconsiders the data to be valid when it
conforms to the constraints specified in the blueprint. A blueprint can be an IS schema, an IS
document type, or a set of input and output parameters.

Gate ways in webmethods?
->It allows to connect the territories called as gateways.It also allows to connect brokers of
different Territories iscalled as gateway.
->We have one more type of gate ways like gateway service,which is usefull while developing
TN documents which are of type FF.So by using Gateway services we can recognize TN Docs.

Explain what is index in MAP flow step ?

In MAP Step Index is When You Have Array of data if you want to MAP One of the element in Array to the target Element then you can Use the indices

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For a REPEAT operation to execute as long as the specified repeat condition remains true, the count parameter needs to be set to:

->>The count parameter needs to be set to "-1 " .

How do I see the java code for my flow service ?

Flow is not turned into java code. It resides on disk as XML representing the flow operations which is then parsed and turned into an in-memory java tree of the operations. Although the underlying code that implements the flow operations is java, it is stored on disk as XML.

How do I sort using the JDBC select adapter service?

Although there is no tab to specify "order by" the same functionality is able to be specified in the "SELECT" tab. One of the columns in the is labelled "Sort Order" which will allow you to specify the column(s) you wish to sort by. To alter the order: simply alter the order of the columns selected

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How do I throw an exception when using a try-catch block ?

Set a flag in your catch block or leave a variable holding the error message in the pipeline. Outside the catch block put a branch on that variable or flag and if it is non-null then exit with failure or call the service that generates the exception.

How do we create and use processing Rules in Trading Networks ?

When you add a new processing rule, you have three Add ?? options for processing rules: you can add it above or below an existing processing rule or add the new rule to the bottom of the processing rules list. Set the sender, Receiver and document type in criteria tab. select the service execution task(check box) in Action tab.

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how do we invoke another service in a Java service and in which package does this method reside?

"doInvoke" method in service class and com.wm.app.b2b.server

How do you do JMS connection configuration types in webMethods 6.1?

Connection type,package name,transaction type,JNDI initial context Factory,JNDI provider URL,Queue connection Factory JNDI name,pwd.

How do you do MQ Adapter configuration in webMethods 6.1?

connection type,package,queue manager,host,tcp/ip port, server conncetion channel,ccsid,user,pwd,queue name.

MQ adapter templates: put/get/peek/request/response.

How do you do MQ Adapter configuration in webMethods 6.1?

connection type,package,queue manager,host,tcp/ip port, server conncetion channel,ccsid,user,pwd,queue name.

MQ adapter templates: put,get,peek,request/response.

How do you setup a try/catch sequence in flow code in Developer?

Sequence 1(main sequence,set to exit on sucess)
      Sequence 2(logic sequence,set to exit on failure)
          service 1
          service 2
           Sequence 3(error sequence set to exit on done as required)
              pub.flow: get lost error
              custom: log error, custom: notify error

Parameters in get/last error:

1) Time(string) [yyyy/mm/dd HH:MM:SS.SS]
2) error type [exception type that was thrown]
3) error dump [more detailed information about exception]
4) service [fully qualified name]
5) user   [user r requested the service to generate]
6) thread ID [identifying the thread that invoked the service]
7) session ID [exception in which session]

Limitations of get last error:

1) A flow exist $parent and report FAILURE will cause the logic sequence to fail and execution will transfer to error handling sequence calling get last error will not return a Last error ID object.
2) An Access Exception caused when a service is called without the required permission will cause to logic sequence to fail and the execution will transfer to error handling sequence calling get last error will not return a get last error ID object in it is case.

How many kinds of log files in WebMethods ? And where are they exist ?

1) Server Operations and errors that occur on Integration Server, such as starting of Integration Server subsystems and loading of packages belonging to Integration Server or other webMethods products.
2) Session Sessions opened on Integration Server by clients and Developer users.
3) Error Stack trace information about all errors that occur in Integration Server, including exceptions thrown by services.
4) Guaranteed delivery Guaranteed delivery transactions.
5) Security Administrative and operational actions on Integration Server, such as modifications to authorization and authentication, and attempts to access Integration Server resources or perform runtime events.
6) Service Services that run in Integration Server.
7) Business process Business processes modeled in Designer that run on Integration Servers.
8) Task Tasks designed in Designer that run on My webMethods Server. Tasks can be called from business processes or can run as standalone tasks.

9) Integration process Integration processes made up of a chain of services that run on Integration Servers.

10) Document In doubt, failed, and retries exceeded documents, and documents that Broker clients publish or subscribe to on Brokers.

By default, Integration Server stores most of the data in flat files

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How many types of scheduled delivery Queues in Tn supports? What are they?

TN supports Two types of schedule delivery Queues.They are

1) Public Queues

2) Private Queues.

1) PUBLIC QUEUES:- Public Queues are Queues that can contain documents for multiple receiving partners.

2) PRIVATE QUEUES:- Private Queues are Queues that contain only delivery tasks that corresponds to documents aimed for a specific receiving partners. Private Queues are defined in the profile of receiving partners.

How many ways can you invoke a service ?

Following are the multiple ways to invoke a flow service in webMethods.

1.using invoke step within webMethods IDE

2.using Transformers in Map Step

3.using remoteInvoke builtin service can invoke flow service from other webMethods Environment

4.using service.doInvoke() in Java services

5.using webServices,consuming webService provider operations.

6.using webmethods supported protocols like http,https.

Ex: http://hostname:portnumber/Invoke/namespace

7.using Publish subscribe mechanism in webmethods

8.In BPM using CAF application,invoking the flow service through a webservice call

9.using Scheduler in webMethods

10.using Filepolling in webMethods

11.using Startup & Shutdown services

How should I organise connection pools ?

If you have adapter notifications and adapter services then you will need to have two separate connections. Otherwise you may get strange errors about transactions and the like. You should also avoid having connection pools shared across different functional areas, even if they are pointing to the same database. The reason for this is that tuning the size of the pool becomes quite difficult if you have multiple types of usage of a pool. You are also unable to easily change the database settings for one without impacting on the other. One approach that seems to work quite well is to have separate pools for each package (generally.. not a hard and fast rule though), as your packages should generally be divided up according to functional area too.

How to Change the Order of Steps in a Flow Service?

We can change the Order of steps in a Flow Service of Various other services which are called in sequence within Flow service using "Shift Up and Shift Down" buttons exists at top of Editor Panel.

As well we can move any service or Map inside a SEQUENCE or BRANCH using "Shift Left and Shift Right" buttons

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How to convert document list to document? If document list contain documents and documents contain strings field. How to convert?

Directly invoke the service

pub.document:documentListToDocument to convert document list into document.

This service is the buit in services and its availble in wMpublic package in developer.

How to Create an ACL?

ACL can be created using the below mentioned steps.

1 Open the Integration Server Administrator.

2 In the Security menu of the Navigation panel, click ACLs.

3 Click Add and Remove ACLs.

4 Specify one ACL name per line. Press ENTER to separate the lines.

5 Click Create ACLs.

How to Create an IS Schema?

An IS schema can be created by following these steps:

1. First create a webMethods document

2. Run the service pub.schema:createXSD

3. Give the input parameter the fully qualified name of

your document. The output parameter xsd/source has the text

schema representation of your document. Save this to a file

(e.g. sample.xsd)

4. In the appropriate folder create a New Schema

5. Give the schema a name

6. Select XML Schema and give the filename of the saved

file (e.g. sample.xsd)

How to find dependents of a selected element on the server?

Right click on the element for which you have to find the dependents in the navigational pannel.and click on the option find dependents

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How to Find Elements in the Navigation Panel?

Just right click on the element ehich u want to see then u click Locate in navigation option then u can see that element in the navigation panel

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How to get the current index of the List in a loop?
There is a special variable on the pipeline called $iteration which will be incremented as the loop operator works up through the list.

How to invoke a service from a browser ?
Use a URL in the form:
http://servername:port/invoke/folder.subFolder.subsubFolder/serviceName
(the package name is not part of the URL in any way)

How to limit a flow service executed only by one thread at a time?
Create a java service
Create a private static object on the shared source (private static Object LOCK_OBJ = new Object();)
Have the code below on the java service source:
IDataCursor idc = pipeline.getCursor();
IDataCursor idcResult = null;

try {
// put this section into a critical section to ensure single-threaded execution

synchronized(LOCK_OBJ)
        {
            Execute a flow service using Service.doInvoke
        }
idc.destroy();
idcResult.destroy();

} catch (Exception exc){
        ServerAPI.logError(exc);
        idc.destroy();
throw new ServiceException(exc.toString());   }\\

How to open a session on a different server?
Select "session" from the menu in toolbar and click open. key in the server IP and port on which you have to open the connection.The user name and password on that server.

How to preserve existing pipeline before a restorePipeline step ?
Set the "$merge" variable in restorePipeline or "merge" in restorePipelineFromFile to be true. This will ensure that everything in the pipeline before a restorePipeline step is preserved.

How to remove a system lock from an element?
System locks can be removed by making the server side files of the element as redable.right
Click on the elemet in developer which is system locked.and choose the lock properties. It will

display the server side files for the element.Make the files as readable and click the referesh button in the developer.You will find that the element is no more locked.

How to Restore a Session on a Server? (Very Imp)
Developer gets disconnected from the server if the server goes down or if there is a problem in the network. Donot close the developer.If you close the developer you wont be able to save the changes.Once the server come up or the network problem is resolved. you will be automatically connected to the server and then you can retsore your session.

How to send Documents (XML, EDI) to Trading Networks ?
using http protocol

How to store logs in DB?
By using this extended setting "watt.server.auditStore=database" we can store the logs into webMethods internal DB.

How to use SEQUENCE as the Target of a BRANCH?
Set evaluate label property of branch step to true. Then set the label property of sequence with the value on which it needs to be processed.

How to validate an Inbound EDI document?
Using envelopeProcess in WmEDI package.

How we can catch exception error on run time mode using Flow language in WebMethods? and how we can send error description as an output parameter?
> sequence ---------- Succeded
|--sequence ------------- try block------
|--sequence ------------- catchBlock-----
|-- invoke getLastError service
And Exit flow step also..

How webMethods Developer Supports Tables?
There is an element called Adapter Service in Web methods.Using this element u can create adapter service like
insert,update and delete,select the records from table.Before that u have to create Adapter Connection in
Integration server under Jdbc Adapter.

How You Can Delete Session Logs On IS ?
Go to Installationfolder/IntegrationServer/logs/
Here you will find logs in the name WMSESSION_.log
Delete this log files.

How you handle trading networks flat file or configure it?

via Gateway service at wMTNSamples.wm.tn.samples.gateway.gateway

(Check this process completely)

If i dont want to repeat then what i need to do ?

put exit step in repeat loop whenever you want to exit from repeat

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If i have a parent sequence with the property set- exit on success, n the try sequence block set to exit on failure, n the catch sequence block too set to failure, what is the result?

->>In this case if any step in try block fails it will exit that and come to catch block and if any step in catch block fails it will exit from the catch block and skip rest of the flow steps.

If i have to move packages from one IS to another,wmDeployer?

 If we want to move any one or two packages publish/subscribe is ok. If we want to do code migration

the best is to use wMDeployer.

 2) You can do it in 2 ways.

       1. wmDeveloper.

       2. Admin Console

DEVELOPER : You can copy and paste or drag and drop a package from one server to other.

From Admin console : We can do this by replicating a package and then send or Publish the package to another server.

To do this you should be a member of Replicator ACL.

If the webMethods Integration Server is started with from the server root directory with this command, "bin\server.bat -debug 9 -log none", what does this tell the server to do?

Start in level 9 debug mode and write all server log information to the screen.

If v want to run the server with some other port number , what v need to do ??

Developer:

1) We need to copy the Integrationtionserver path where the

IS resides & rename it.

2) Go to IS admin.

3) click Ports tab under security

4) Go to Add port & select (webmethods/http)

5) Go to change primary port select the port & update it

If we have Parent Service A invoking a child service B and B is invoking one more service C, then in which service you implement error handling ? in service A or in all services ?

It should be implemented in a single service and it will be always in Parent service A(main service).

In webMethods Integration Platform, where is the lock information stored (such as names of elements that are locked, when they were locked, etc.)?(very imp)

Lock information is stored in the webmethods Repository version2

Is Source Control the Same as Locking?

No. Locking is one component of a full source management solution.

Source control is designed to allow the administrator to archive and maintain multiple file revisions.

Many source control applications also allow the administrator to tag revisions, run revision history reports, and other functions.

Lock functionality allows the user or administrator to control who is working on a particular element at a particular time.

Resons why Java should not be used to write services ?

Following are some reasons why Java should not be used to write services:

1. The webMethods Developer does not provide an Integrated Development Environment(IDE) for java. In fact, by comparison, the Developer's java editor makes Notepad look powerful.

2. Java programs cannot easily manipulate the pipeline that is used by Integration Server to pass data among services.

3. Java code is marginally more efficient than Flow code, but java programs are substantially harder to implement and maintain.

Scenario: i have a loop A, under which i have a child loop B, under which i have a Branch with few services with a condition. if a condition is satisfied , then i need my branch to exit from loop B, what should i do ?.

Place a Exit Step inside the branch condition and set the property exit from to "Loop".

Should we archive derived files?

Yes we can archive the derived files by two ways

 1:We can do in IS how menas we have one option under
packages management if u click that we will get all the
packages list there we have the option to create the
archive for the resp package.

 2:we can create in developer goto file-->export as a ZIP file.

 Steps of deploying a service in webmethods?

 The steps are as follows:

a)define

b)build

c)map

d)deloy

Tell me about A Publishable document with an adapter notification?
When the Adapter uses to send the notification data to an IS or Broker.

 The Developer was used to create a Java Service named myService in a folder named myFolder in the Default package. What is the best way to hide the source code of the Java service?
Configure an Access Control List which only allows members of authorized groups and assign it as the Read ACL for the service

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The Integration Server requires access to the Java classes for each JDBC driver that it will use. Typically, where must such Java classes be placed?
webMethods6\IntegrationServer\lib\jars

The Package Management interface of the webMethods IS Administrator can be used to create package dependencies. Package dependencies can be used to:?
Ensure that specific webMethods IS packages are loaded before the depending package loads

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We can do that same by using java services also ,then why do we use webmethods flow services ?
1) Java is a language. While webMethods is a tool. webMethods provides lots of build-in services as loke the
API in java.For using the API, in java again we need to wrie some codes.But in webMethods they are providing the drag and drop
facilities. so its a time consuming process.
Apart from this webMethods supports lot of functionality like publish\subscribe, portal developement, brokers etc...
2) When you can walk, why you need Bike? or if you've bike, do you need car?
Java is a language while webMethods is specialised tool with many built in functions/feature to support guaranteed
deliveries, transaction tracking, resubmissions, data transformation, SOA, Event Management, web service, File,
EDI, JDBC, SAP, JDE, JMS, MQ Series, integration with multiple applications on multiple platform.
If you'd to do all of that by yourself in Java, you'll look at years to develop full proof solution that webMethods can
provide you out of box. As they say, don't reinvent the wheel.

What are client groups ? (Broker client groups..can be seen in MWS>Messaging)
Client groups contains a list of clients and it configures which all documents its client could publish and subscribe to.

What are components of Trading networks?
Components of TN:- IS, RDBMS,TN console, TN Webmanager

What are Document Gate way Services?

For Trading network to process a flatfile document, you must create a document gateway service. The main function of this to recognise the type of flatfile. It matches (ie. incoming flatfile). These services are the entry points for flatfiles into Trading netwprks.

What Are Event Handlers?

Event handlers are the services that you write to perform some actions when a specific event occurs.

What are extended settings?

extended settings are basically done for specifying values to some of the internal keys of Integration server.

Like we can specify java compiler at this setting and whenever we compile any java service IS will take this compiler only for compiling the java code.

Eg: Location of log file storage watt.server.auditstore = database

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What Are Input and Output Parameters?

Name and datatype

What are integration patterns and how many you implemented?

There are no of Integration patterns like SOA, ESB, web Service and Messaging patterns.
 Channel Patterns, Message Construction Patterns, Routing Patterns, Transformation Pattern,s Endpoint Patterns, System Management Patterns and Message sequencing patterns are some of them which i have implemen

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What are JDBC configuration parameters?

Alias name:
Alias Description:
Associated Driver Alias:
Database URL:
User ID:
password
minimum connection -
maximum connection-
Idle time out-

What are MQ - Cnfiguration parameters?

Queue Manage Name
Hast name:
TCP/IP port:
Server connection channel:
CCSID:
Queue name.

Transaction :- Uses Synchronous point (Group of request into a single logical unit of work)
Non-Transaction:- This is stateless.

What are Pre-Processing actions?
After selecting the processing rule,TN specifies a list of pre-processing actions.
1) Verify Digital signature
2) validate structure(pub : schema validate)
3) Check for duplicate document
4) Save document to database.

What are processing Rule Actions?
Processing Rule Actions specifies how trading networks is to process a document .
   TN can perform the following processing actions .
1) Execute a service that you create. TN can execute the service synchronously (or)
Asynchronously.
2) Send an alert e-mail message.
3) Change the user status attribute that is associated with the document.
4) Deliver the document to receiver identified in the document. TN can deliver document using
immediate delivery(http,ttp or by invoking a service that is created).

What are Structural transformations ?
Splitting one field into several or merging fields, reordering portions of a message or renaming
fields are know as structural transformations

What are the Advantages of EAI ?
Advantages of EAI solutions are:
Streamlines business processes and helps raise organizational efficiency.
Real time information access among systems.
Maintains information integrity across multiple systems.
Speedier transactions at reduced costs.
If one of the applications misbehaves and requires to be shut down for maintenance, then with
EAI, we can easily "decouple" it from rest of the systems. Which avoids having to bring down
other systems.

What are the basic elements in Publish and subscribe model?
1) Documents
2) Publishable Document type:- Is a named schema that describes the structure of a particular
document that can be published and subscribed to an instansce of publishable document can be
published locally within an IS or published to a broker.
3) Triggers:- Triggers establish subscriptions to publishable document types. Triggers also
specify services that will process documents received by subscriptions.
4) Services:- They contain logic that the IS executes. When building a trigger the service is to
be specified to process the document that are to subscribed.

5) Adapter notification:- Notify webMethods Integration plat form whenever a specific event occursbon a adapter resource . It publishes a document when the specified event occurs on the resource

6) Canonical Document :- Is a standard document representation that a document might assume while it is passing the webmethods Integration platform.

What are the components in webMethods?

The webMethods Integration platform is made up of components that you use to design,execute and manage Integration solution.

These components fall into three basic categories:

1) Runtime components
2) Design time components
3) Administrative components

1) RUNTIME :- Execute the Integration solution that you develop.

   a)   WebMethods Integration server : Is the platforms runtime component and serves as a entry point for systems and application that you   want to integrate.

   b)   WebMethods Broker: Is a high speed message router .It is a asynchronus message based solution that are built an publish-subscribe model .

   c)   WebMethods mainframe: Integrating with mainframe applications.

   d)   WebMethods trading networks and e standard : In a document oriented exchange scenario.

   e)   Webmethods Adapters: Adapters run on Integration server . They connect backend resources in the enterprise to integration platform.

   f)   webmethods workflow:-- A series of tasks performed by one or more people.

2) DESIGN TIME :- Provide tool for developing and testing an Integration solutions.

   a) WebMethods developer: Developing Integration logic

   b) WebMethods workflow Designer : Develop and deploy workflow.

   c) WebMethods Moduler : Is a graphical tool to design and implement business process.

3) ADMINISTRATIVE MONITORING :- Configures the runtime environment and monitor the execution of Integration solution running on the Platform.

   a) webMethods Administrator

   b) WebMethods Monitor

   c)   WebMethods manager.

What are the different ports in IS..?

There are 10 different type of ports in IS

1) 5555

 2) 6666

 3) 7777

4)8888
5)9999

What are the different ways to publish a document in webmethods?
1.pub.publish:deliver--------------Delivers a document to a specified destination
2.pub.publish:deliverAndWait-----Delivers a document to a specified destination and waits for a response.
3.pub.publish:publish--------------Publishes a document locally or to a configured Broker.
4.Pub.publish:publishAndWait----Publishes a document locally or to a configured Broker and waits for a reply.
5.pub.publish:reply----------------Delivers a reply document in answer to a document received by the client.
6.pub.publish:waitForReply--------Retrives the reply document for a request published asynchronously.

What are the disadvantages of EAI ?
The main disadvatages of using EAI systems:
Constant change: The very nature of EAI is dynamic and requires dynamic project managers to manage their implementation.
Lack of EAI experts : EAI requires knowledge of many issues and technical aspects.
EAI is a tool paradigm: EAI is not a tool, but rather a system and should be implemented as such.
Building interfaces is an art : Engineering the solution is not sufficient. Solutions need to be negotiated with user departments to reach a common consensus on the final outcome. A lack of consensus on interface designs leads to excessive effort to map between various systems data requirements.
Loss of detail : Information that seemed unimportant at an earlier stage may become crucial later.
Accountability : Since so many departments have many conflicting requirements, there should be clear accountability for the system's final structure.

What are the intermediary data format between resources?
For example, in an implementation that accepts purchase orders from companies, one of the steps in the process convert the purchase order document to a company's standard purchase order format. This format is called the 'canonical' form of the purchase order document. The canonical document is published, delivered, and passed to services that process purchase orders.

What are the Major categories of EAI ?
Integration can be at different application layers:
Data Level Integration:
 Batch data transfer, OR
 On-line propagation of data updates

API Level Integration:
 Data is accessed through published API services
Service Method Level Integration:
 Common services shared by different applications
User Interface Level Integration:The controller reacts to the user input. It creates and sets the model.
 Common user interface (e.g. web based) for unified access to multiple applications.

What are the modules of webMethods Product Suite ?
Integration and B2B
Service Oriented Architecture
Business Process Management
Business Activity Monitoring

What are the steps used to deploy?
Use of finally block in exception handling in webmethods
Lets assume we have a code where we are using open ssh and in the try block we are doing a sftp login .
 So in case of success or error either step we would have to do a logout . So to avoid code duplication both in end of try and catch block we can have a finally block (exit on done). Do a logout in this sequence.
 Also it can hold good when we do a manual connection to a DB and irrespective of success or failure we want to close connection.
 Main(Exit on success)
|
|----Try(Exit on Failure)
|
|----Catch(Exit on Done)
Finally(Exit on Done)

What are the tools of webMethods Integration ?
1.webMethods Adapters
2.webMethods Developer
3.webMethods Integration Server
4.webMethods Integration Platform
5.webMethods Broker
6.webMethods Monitor
7.webMethods Optimize for Infrastructure
8.webMethods Trading Networks
9.webMethods EDI Module
10.webMethods EDIINT
11.webMethods eStandards Modules
12.webMethods PIM

What are Transaction types? (JDBC Adapter)

The Transaction types are,

1) Local Transaction:- A Local transaction is a transaction to resource's Local transaction mechanism(Based on boundary services).

2) XA Transaction :- Is a Transaction to resources XA Transaction Mechanism (Multiple data bases).

3) No Transaction:- Automatically commits and Roll backs.

What are Transformers in WebMethods?

Transformers are services use to accomplish value transformations on the pipeline tab

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What Does an IS Schema Look Like?

The Apperance and content of IS Schema depends on whether you generate an Is Schema from XML shema or DTD

If u cretae an IS schema from xml shema ,the resulting IS schema displays type difinitions,element declarations and attribute declarations.

If u create an IS schema from DTD,the resulting IS shema displays element type declaration

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What does pipeline tab contain?

It is a graphical representation of the data through which you can map and inspect the contents of the pipeline (or) A variable pool with in integration server. All data that is ued for processing is in the pipeline.

What happens to the locks on elements when we replicate a package?

Locking information is not preserved when u replicate a package.

What happens to the locks on elements when we upgrade webMethods Integration Platform?

Locking information is not preserved between version of webmethods integration platform

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What Happens When a Client Runs a Service with ACLs?

the server checks the ACL assigned service.

If the client is a member of an allowed group and is not a member of a denied group,

the server executes the service.if the client is not a member of an allowed group,the server denies the request to invoke the service and stops executing.

What Happens When an Event Occurs?

There are various types of events that occur in Integration Server.i.e Session start, session end, session timeout, alarm, exception etc.

These can be seen in Developer Event Manager. Go to Tools menu in the menu bar on the developer and click on Event Manager.

We can invoke a service when a particular event occurs in this event manager. e.g: we can invoke a particular service

when an exception occurs in any of the IS services. This is helpfull when we want to implement custom/generic exception handling framework.
eg: do a example scenario in developer

What happens when the pub.flow:tracePipeline service is invoked? (very Imp)
The Integration Server logs the name-value pairs in the pipeline at that time.

What is a canonical document ?
A Canonical document is a standardized representation that a document might assume while it is passing through the webMethods Integration Platform. A canonical document acts as the intermediary data format between resources. For example, in an implementation that accepts purchase orders from companies, one of the steps in the process converts the purchase order document to a company's standard purchase order format. This format is called the 'canonical' form of the purchase order document. The canonical document is published, delivered, and passed to services that process purchase orders.

What is a default record in Flat file schema and How to select for a default record in Flat file schema?
A default record is always a record defination in a flat file dictionary. If th default record is specified when creating the flat file
schema, any record that cannot be recognized will be parsed using this default record defination. We can select it via Flat file Schema properties. Select property "Default Record".
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what is a dictionary? (FlatFile)
A flat file dictionary contains record definitions, field definitions, and composite definitions that can be used in
multiple flat file schemas.And also if we want to creat a record which dont have a header we can create it thru Dictionary giving it a name
recordWithNoID.

What is a Explicit Transaction?
When we need to explicitly control the transactional units of work we use explicit transaction. We use additional services (or) built in services.
    pub.art.transaction.start transaction() ; pub.art.trans. :commit transaction (or) Rollback Transaction.
A new explicit transaction can be started with a transaction contest . provided that you ensure that the transaction within transaction context are completed within reverse order they were started.

What Is a Flow Service?
A flow service is a service that is written in the webMethods flow language. This simple yet powerful language lets you encapsulate a sequence of services within a single service and manage the flow of data among them.

What Is a Flow Step?

Flow service contains a flow step.flow step is a basic unit of work that webMethods Integration Server interprets and executes at run time.

Difference between flow service and flow step

What is a Implicit Transaction?

In an Implicit Transaction the Integration server starts and completes an Implicit Transaction with no additional service calls required by adapter user.

 An single Transaction can contain any number of XA Transaction but not more than one Local Transaction.To use Local Transaction more than one we use explicit Transaction.

What is a publishable document type ?

A publishable document type is an IS document which has some specific publishing properties. Instance of this document can be published and subscribed.

What Is a Replication Service?

Replication Service is one that IS automatically executes

when it prepares to replicate a package

- Startup and shutdown services and usage as well

What Is a Shutdown Service?

A Shutdown service is the one we can write and add it to the shutdown services list. these services will be executed

when the server shuts down. In this service we can write codes to close the network connections, releasing memory etc..

What Is a Startup Service ?

A startup service is one that Integration Server automatically executes when it loads a package into memory.

What Is a Third-Party Source Control Application?

A third-party source control application is a product designed to help an administrator archive versions of files in a development environment.

Such products include PVCS,CVS, Visual Source Safe, and Perforce,SVN.

What is a Trading Network ?

A Trading Network is a set of organizations that have agreed to exchange business documents.

What is a transient error and how you can resolve it

A transient error is caused by a resource unavailability due to network issues and the error may be resolved if the service is retried again later.

What is Adapter Notifications?

Adapter notifications notify the WebMethods Integration platform whenever a specific event occcurs on an adapter's resource.The adapter notification publishes a document when the specified event occurs on the resource.

What is an ACL ?

An ACL controls access to packages, folders, and other elements (such as services, IS document types, and specifications) at the group level. An ACL identifies groups of users that are allowed to access an element (Allowed Groups) and/or groups that are not allowed to access an element (Denied Groups). When identifying Allowed Groups and Denied Groups, you select from groups that you have defined previously.

There are four different kinds of access: List, Read, Write and Execute.

-> List controls whether a user sees the existence of an element and its metadata; that is, its input and output, settings, and ACL permissions. The element will be displayed on screens in the Developer and the Integration Server Administrator.

-> Read controls whether a user can view the source code and metadata of an element.

-> Write controls whether a user can update an element. This access also controls whether a user can lock, rename or delte an element or assign an ACL to it.

-> Execute controls whether a user can execute a service.

What Is an Element ?

An element is an item that exists in the Navigation panel in webMethods Developer.Elements include folders, services, specifications, IS document types, triggers, and ISschemas. In the Navigation panel, servers and packages are not considered to be elements.

or

Element is an item,which contains folders,services,specifications..etc...

 .Server and packages can not be an element

What is Connection?

Connection is an object that contains parameters that adapter notifications and listeners use to connect to a resource.

What Is Data Validation?

Data Validation is the process of verifying that run-time data conforms to a predefined structure and format.

It also verifies that the run-time data is a specific datatype and falls within a defined range of values.

What Is Developer ?

webMethods Developer is a graphical development tool that you use to build, edit, and test integration logic. It provides an integrated development environment in which to develop the

logic and supporting objects that carry out the work of an integration solution. It also provides tools for testing and debugging the solutions you create.

What Is Dimensionality?

Dimensionality refers to the number of arrays to which a variable belongs.

What is EAI ?

EAI or Enterprise Applications Integration can be defined as data that can be integrated from disparate applications regardless of the platform, allowing the sharing of business processes amongst multiple organizations.

What is IDATA object ?

IDATA object is an universal container that services uses to receive input and deliver output to other programs. It contains an ordered collection of key and value pairs on which a service operates. An IDATA object can contain any number of key/value pairs. The keys in an IDATA object must be strings. The values can be any java objects.

What is IS document type?

It contains a set of fields use to define a structure and type of data in a document.

What is IS Schema (creating) in webMethods?

IS schema is a free standing element in the navigation panel that acts as a blue print or model against which an XML document is validated. The formal description is created   through specification of constraints.

Structural constraint:- An IS schema describes elements, attributes and types that appear in a valid instance document.ex:- po-> < ten number> < color >

Content constraint:- An IS schema describes the type of information that element and attributes can contain in a valid instance document.

What is Mangiustics?

Mangiustics is a leading global provider of demand and supply chain management solutions. many clients help them drive profitable growth , unlock the value of their existing. IT investments, ensure security and integrity of global supply chains. It's clients include AT&T, BMW, Coca-cola, contenental airlines,Nestle,Nussan.

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what is meant by "Block time out" and "Expire time out " in jdbc adapter configuration ? (very imp)

Block timeout: refers to how much time the IS should wait to get connection from connection pool before throwing exception.

Expire Timeout:refers to how much time the free connection stay as it is before it expires.

What is processing Rule selection criteria?

The processing Rule selection criteria is sender,Receiver, TN document type, user state and Recognition errors.

What is Recognition processing?

When trading network receives an inbound document ,the first step is recognition processing,that is determining the TN document type to use when determining the TN document type. Trading network uses to match the TN document type to determine document atribute values to associate the document and the initial list of preprocessing actions to perform against the document.

The final step is form a biz doc envelop that contain the original document ,the extracted attribute values, and additional information that trading networks requires for router and processing the document . The Biz doc envelop is passed to other processing variable called Biz doc in the pipeline.

What is repeat step ?

The REPEAT step allows you to conditionally repeat a sequence of child steps based on the success or failure of those steps. You can use REPEAT to retry a success step or retry a failed step.

What is the basic difference between RosettaNet and ebXML standards?

 RosettaNet is a widely adopted standard that provides message content,choreography and transport specifications for high-tech manufacturing companies. It is slightly more mature than ebXML ,and its standards development process is targeted at the high-tech industry.Although RosettaNet publishes messaging specifications(such as RNIF2.0) but its vision is to develop standards that pertain to the industry processes.This involves creating message content specifications and choreography with a reduced focus on the infrastructure that supports such activities.

 ebXML is a set of standards developed to enable enterprises to conduct business over the Internet. Its stated goal is similar to RosettaNet, although the specific standards developed are different. It produces specifications for messaging,registries,and business processes.Unlike RosettaNet,ebXML is a horizontal standard -it is not targeted towards any particular industry. As a conceptual model for discussing differences between standards ,RosettaNet uses the B2B conceptual model by the Business Internet consortium.

What is the better way of processing MQ messages at webMethods - serial or concurrent ? where can we set this property at Adapter or notification or at listener level??

All the messages at MQ quues will be picked by wM MQ Adapter and then filtered by listeners in Concurrent mode. But depending on your requirements you can set this property Serial/Concurrent while creating a Trigger for subscribing the messages from Broker/JMS queuues and processing at webMethods.

Serial:

Where volume of messages received is slow you can go for Serial message processing at wM.

Concurrent:
When you have huge volumes of messages then you can opt for concurrent processing while creating the triggers and optimize processing by creating no of threads based on your requirement
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What is the Branch operation?
Branch operation conditionally executes an operation based on the value of a variable at run time
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What is the default behavior if a Flow EXIT does not specify a "from"? (SAG - very important)
The EXIT will throw an java.lang.NullPointerException.

What is the Design concept for large file handling, and acheiving output sequence at target ?
Message Sequence (Incomplete answer - pls review it)

What is the difference between a loop and a repeat? (Good Explanation)
1) For Loop we need to give the input as document. for repeat we need to give the input as number
2) Along with above answer, ideally loop will exit by default after completing all iterations corresponding to no.of documents in document list.
repeat will exit onfaiulre/sucess condition
3) Loop and Repeat both are used to execute child steps.
Repeat : Repeat is a conditional based flow step. The execution of child steps will be depends on "REPEAT ON" value(SUCESS / FAILURE in property panel).
Loop : You should perform a loop operation on array of items(String list/Document list/Object list). Loop operation process each and every array element in the array. you have to give the input array value.

What is the difference between a system locked element and a read-only element?
many times webmethods elements are created/deployed under the user context of root user the elements appear system
lock. the read access can explicitly be given to elements through acl by administrator?
(More Explanation is required)

What is the difference between drop and delete pipeline variable?
Drop pipeline is an explicit cleanup. It is a request for the pipeline to remove a variable from the available list of variables and make the object it refers to available for garbage collection by the Java Virtual Machine.
Delete is purely a design time operation to remove the variable from the current view. It is only of use if you have created a variable that you didn't mean to create. If you delete a variable that was there because it was previously in the pipeline when you change the view in developer you will see the variable appear again.

What is the difference between Schema and SchemaDT?
Schema is nothing but a structure of document, we can generate "Document Type" from Schema, and it's called SchemaDT.
We can say Schema is a blue print. We can create "Document Type" separately, it is containing fields, but here we have to add fields manually.
Schema is a flat file schema. schemaDT is a IS Document Type created/generated from this schema.

What is the file (.jar) name that sharing between WebMethods integrated with JD Edwards ?
Connector.jar, database.jar, jdeutil.jar, kernel.jar, log4j.jar, xalan.jar, xerces.jar, XTS.jar are the Jar files that you need to paste in the "<EnterpriseOne_install_dir>\system\classes\"
For enterpriseOne versions 8.9 and 8.10...

What is the pipeline ?
The pipeline is the general term used to refer to the data structure in which input and output values are maintained for a flow service. It allows services in the flow to share data.

What Is the Pipeline Editor?
Pipeline Editor is a place which enables Data elements to be visually mapped from a service to another.
It also allows the elements to be dropped after or before any service or Hardcore the values of any variable needed for the next step service.

What is the primary function of the built-in pub.flow:savePipeline service?
Save the current pipeline to a named memory location on the Integration Server
(Diff between savePipeline and savePipelineToFile)

What is the primary purpose of a Web Service Connector?
The purpose of Web Service Connector is to invoke a Web Service on a different web server
Startup service will execute whenever the package is loaded or re-loaded
----
What is the purpose of Default processing Rule ?
If a document matches more than one processing rule, Trading Networks uses the first Processing rule it encounters. As a result, the order in which you maintain your processing Rules is important because Trading Networks checks for a matching processing rule in that order. Keep rules with specific criteria before rules with general criteria. You should Also set up a default processing rule that you want Trading Networks to use "when a Document does not match any of the other processing rules. Place the default-processing rule last in the list".
OR
If a document matches more than one processing rule, trading Networks uses the first processing rule it encounters.as a result, the otder in which you maintain your processing rules is important because Trading Network checks for a matching processing rule in that order.keep rules with specific criteria before rules with general criteria.

You should also set up a default processing rule that you want Trading Networks to use """
when a Document does not match any of the other processing rules. place the default-
processing rule last in the list."""

What is the variable need to keep in the clearpipeline service preserve ?
Clear pipeline service is going to clear the pipeline information.If we did not specify "preserve"
in the service all the pipeline information will be lost.If we keep variable in pipeline in
"preserve" except the
variable specified in the preserve all the other information will be lost

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What is Trading Network Webmanager?
Trading Network Webmanager is another user interface for TN that you access via Web
browser. It offers some of the functionality of the Trading networks console plus additional
administrative acts.
(Not sure its still available in latest version)

What is Trigger?
A Trigger associates with one or more publishable document types. When an Integration server
receives a document that satisfies the condition of trigger . The IS invokes /executes associated
service.

What is webMethod Trading network?
1) WebMethod Trading network is a component that runs on WebMethods Integration server.
Trading networks enables an enterprise to link with other enterprises and market places to form
a business trading network(sellors,buyers, suppliers).
2) An IS installed with WMTN and WMTN webpackers installed and enabled. The server
handles the management of partners on your network and exchanged documents. you interact
with the server via TN console and TN webmanager. The partners interact with server co
exchange business documents.

What is webMethods ?
A company that provides integration tools. The key products include Integration Server,
Enterprise Server, Business Integrator, Workflow and Mainframe Integration Server.
webMethods is a company, not a product.

What is webMethods Trading Network ?
webMethods Trading Networks is a component that runs on
 1) webMethods Integration server, Trading Networks enables an enterprise to link with other
enterprises and market places to form a business(seller, buyer) trading network.
 2) An IS installed with wmTN and wmTN web packages installed and enabled. The server
handles the management of partners on your network and exchange of documents. You interact
with the server via TN console and TN webManager. The partners interact with server co
exchange business documents.

What service is used to send Documents to Trading networks ?
wm.tn:receive

When and why should we use transformers and flow services? How are they different from each other?
Mapping is the process of performing transformations to resolve data representation differences between services or document formats. By linking variables to each other on the Pipeline tab, you can accomplish name transformations and structural transformations. However, to perform value transformations you must execute some code or logic.
Developer provides two ways for you to invoke services: You can insert INVOKE steps or you can insert transformers onto the Pipeline tab. Transformers are the services you use to accomplish value transformations on the Pipeline tab.

When coding IS Services, how can a variable of type Document Type be represented in Java?
Variable of type Document Type be represented as "IData "

When creating Flow services, what is the purpose of a SEQUENCE operation?
The purpose of Sequence operation is to group a subset of Flow operations so that they are treated as a unit.
-Used for try/catch block

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when one server is down, automatically another will take over. Can you please throw some light on above ?
1)You can look at load balancing and clustering part of the webmethods .
2) Its possible with veritas clustering system(VCS)...coordinate with UNIX admins regarding this

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When u use REPEATE,EXIT flow steps?
REPEAT step is used when we want a particular step to be repeated provided with some conditions.
EXIT step is used to exit from any loop or from the whole flow step

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When using the SEQUENCE Flow operation, if exit-on is set to SUCCESS, what condition will cause the entire SEQUENCE to fail?
When all of the child operations fail .

When we use REPEATE, EXIT flow steps?
REPEAT step is used when we want a particular step to be repeated provided with some conditions.
EXIT step is used to exit from any loop or from the whole flow step or sequence.

When you create and save the FLOW "my.pack:myFlow" in the "MyPack" package, where will you find the code?
In the "MyPack\ns\my\pack\myFlow\flow.xml" file

Which service can be used to get value for a particular element in an XML document? (or) If you want split the one-xml file into two xml files,then how will you handle that scenario?
Pub.xml.queryXMLNode
(Look for more explanation)