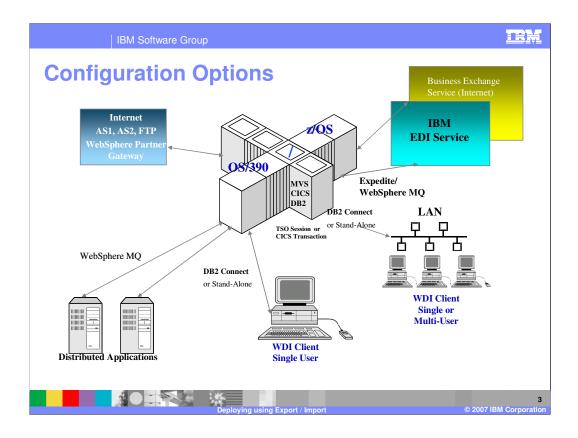


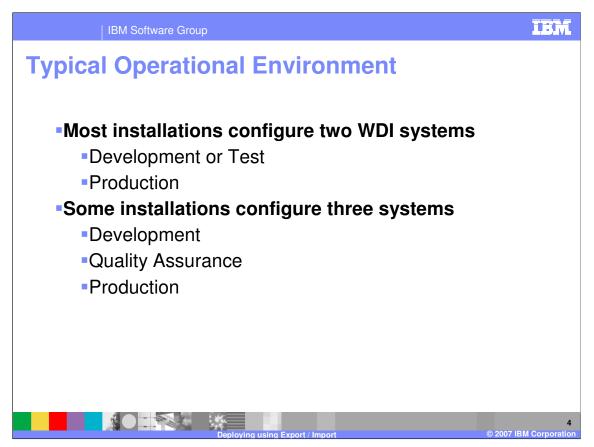
This presentation will review the WebSphere Data Interchange Version 3.3 Export Import subsystem and how it can be used in deploying objects from test to production systems.



Topics to be discussed are Typical Operational Environment Export / Import Overview WDI Deployment Techniques Client Export flow Client Import Flow Summary



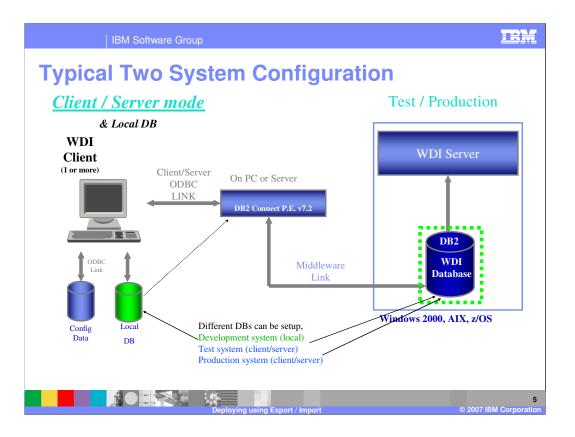
WebSphere Data Interchange (WDI) OS/390 and z/OS environment. A test and production environment is recommended for WDI.



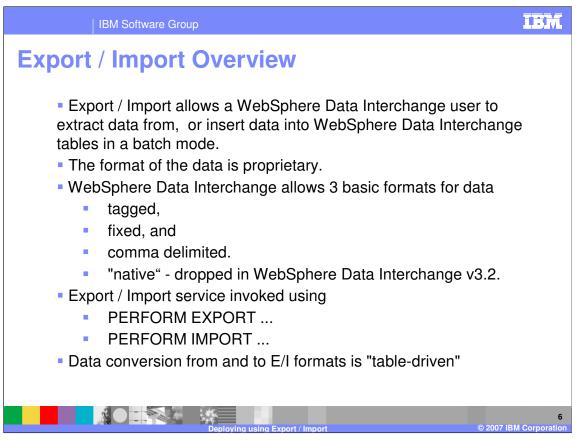
Most installations have at least two WDI systems deployed. One is for Development or Test, and the second is the production or operational system. The Test system is used to create new maps and test usages, etc. The production system is used for live data. Objects such as map control strings, trading partner profiles, and map usages are moved or deployed from Test to Production when things are performing as desired.

Some installations use a three system approach. In this configuration, developers create objects and do unit tests in the Development system. Objects are then promoted to a Quality Assurance / Quality Control region which mimics the Production region. This allows a formal test group to verify development changes with live data in a duplicate environment before changes are promoted to production.

Sometimes only operational objects are in the production system. This would include Trading Partner Profiles and Map control strings, but not the Maps, EDI Standards, or Data Formats themselves. This technique assures that changes cannot be made without going through a formal "promotion" / acceptance procedure.



A local DB may also be used for a stand-alone development system. Maps, profiles, and other objects can be exported from the 'local' system to the client/server systems using 'export to system'.

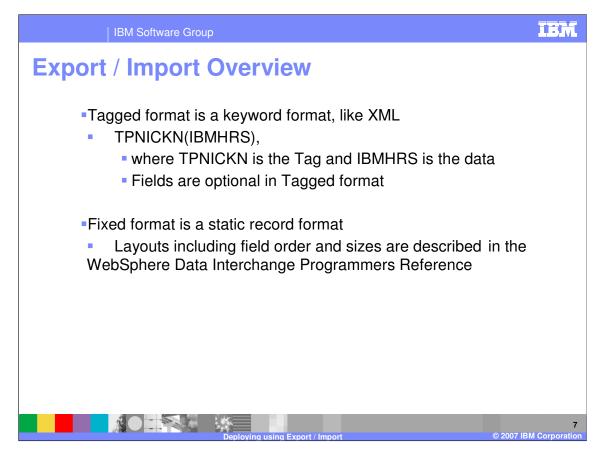


The Export / Import subsystem allows a WebSphere Data Interchange user to extract data from WebSphere Data Interchange tables, or insert data into WebSphere Data Interchange tables in a batch mode. The structure of the Export Import records is such that they are independent of WebSphere Data Interchange version, and they convert the DB2 data into a format that can be handled and viewed easily.

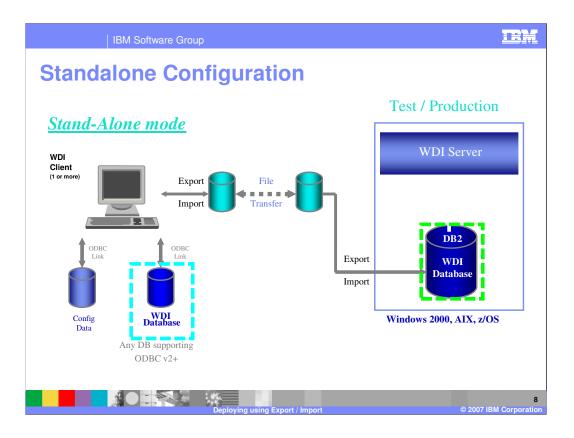
The format of the data is proprietary. WebSphere Data Interchange allows 3 basic formats for data. Tagged, fixed, and comma delimited. Older versions use a format called "native", but was dropped in WebSphere Data Interchange v3.2.

The Export / Import service is available from the Utility using, PERFORM EXPORT ... or PERFORM IMPORT ...

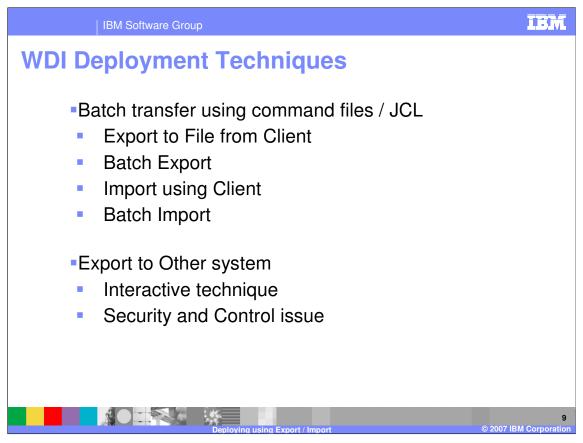
Data conversion from and to Export Import formats is done by the Structure-to-structure (STS) service, and hence is "table-driven", using the WebSphere Data Interchange Format service and definitions in EDIRDEF H and EDIFDEF H



Tagged format is a keyword format, like XML data is presented as TPNICKN(IBMHRS), where TPNICKN is the tag and IBMHRS is the data. Fields are optional in tagged format. Fixed format is a static record format. Layouts including field order and sizes are described in the WebSphere Data Interchange Programmers Reference.



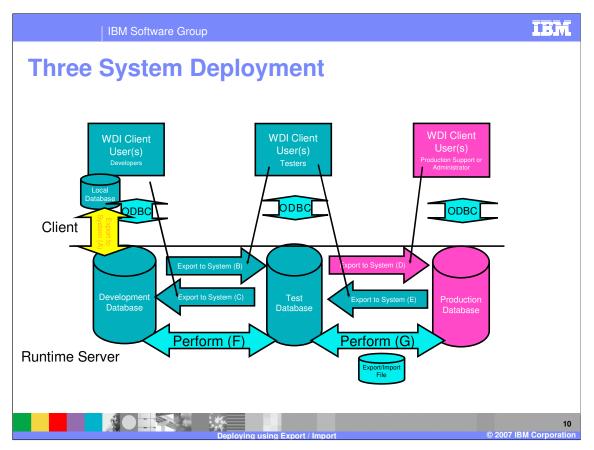
Standalone requires data to be exported from WDI Client, transferred to the server and imported to WDI Server. Import/Export are functions provided with WDI.



The promotion of WDI objects from Test to Production can be handled using either of two features of WDI. The first feature is a batch JCL or command file technique. In this technique, the export / import subsystem allows the user to execute batch PERFORM EXPORT commands and the export control file to extract specific WDI objects from the database to a flat file. The Client Export to File function also does the same thing. The PERFORM IMPORT command formats and stores flat file data in WDI E/I format to the WDI database. Data can then be exported form Test and imported into production.

The second feature is the Client Export to other system function. This GUI function allows the selection and transfer of WDI objects from one system defined to the Client to another system – that is, from Test to Production, or QA to Production. The client user must be authorized to access the selected databases and the databases must be defined to the client.

With the security and audit trail features of WDI 3.3 both techniques provide a trail of changes and the ability to control access to the functions.



The configuration shown combines elements of a source code control system with a rigidly managed deployment process for changes in a multiple translation server environment. This configuration uses both PC and server databases. It makes extensive use of client/server access, along with the Export to System function within WebSphere Data Interchange Client to move objects, such as Trading Partner Profiles, Maps and DTDs, from system to system.

Exporting	Software Group J Objects	5				IBM
WebSphere Data Interchange File Actions: View Window Help Copy, Rename Delete Export to File Export to Other System Rules and Usages Comple (Generate)	Del	14 - (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	System Local DB			_ # ×
Create Standard from Data I Acknowledge Activate or Deactivate Look Unlock Object Properties	Formet	Description Default TP profile WMQETP	Company	Telephone	Network Profile Account	User ID
		eploying using Expo	rt / Import		© 2007 I	11 BM Corporation

After an object or objects are selected, the File Menu is used to select either the "Export to File" option or "Export to Other System" option. The "System" value on the menu bar shows the database from which data will be exported.

IBM Software Group	IBM
Exporting Objects	
System	
Image: Local DB (Trading Partners) - Query: All D 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Nickname Description Company ANY Default TP profile WMQI WMQI TP	
Select Export File ? × Look In: EDIFACT • • • • • • • • • • • • • • • • • • •	
Deploying using Export / Import	12 © 2007 IBM Corporation

The file into which to write the data to be export can be specified.



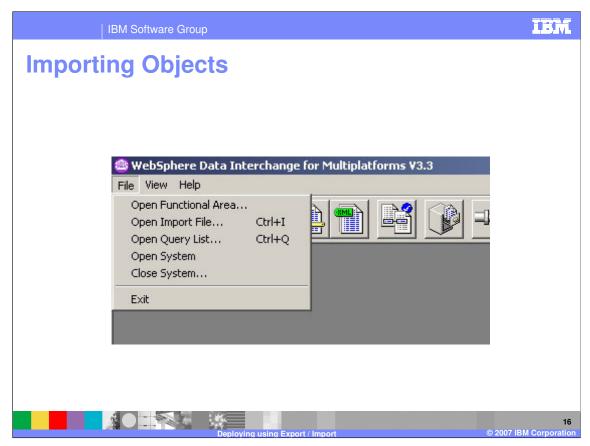
When creating an export file, the format of the export data is determined. Most files are tagged, but fixed file export can be used to interface with user applications or comma delimited format can be used for vendor supplied software.

IBM Software Group	0		IBM
Exporting Object	ets		
Local DB (Trading	Partners) - Query: All		
🕮 Export With Trading Parti	ner Profile	×	
Referenced Types Trading Partner Contacts Network Profile Network Profile Associated T Network Security Profile Refree Network Security Profile Refree Network Security Profile Refree Network Security Exits		OK Jetwork Cancel VMQI Select All Deselect All	Prof
Associated Types			
Control Numbers Control Numbers C None C All C Select	Send Map Usages None All Select	Receive Map Usages	
Map Rules/Usages Reference Translation Exits	ed Types	pe Profiles	
	Deploying using Export / Im	port © 20	14 07 IBM Corporation

Most objects have an option screen to identify related objects to be exported.

I	IBM Softwar	e Group					IBM
Exporti	ng Ok	ojects					
		ng Partners) - Query: All					
	Trading Partners			1-1-1			
	Nickname ANY	Description Default TP profile WMQI TP	Company	Telephone	Network Profile Accoun	t User ID	
	WMQI	Status			WHQI	×	
		Exporting Trading Partner Profile WP Export completed successfully	QL 4			s on Top	
		Deplovi	na usina Export / Imp	ort		© 200	15 7 IBM Corporation

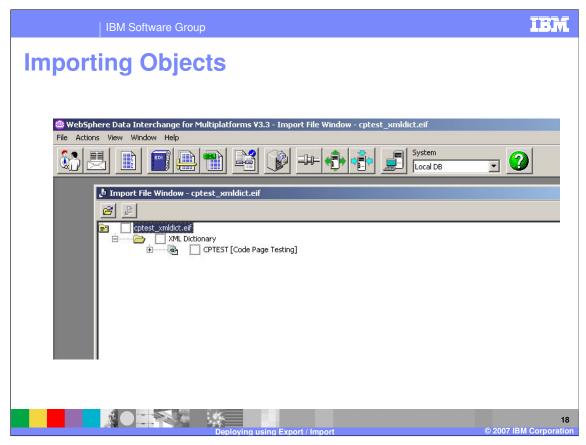
The completion status for the export is displayed in the status window,



The File Menu has the "Open Import File" option.

IBM Software Group	IBM
Importing Objects	
WebSphere Data Interchange for Multiplatforms V3.3 File Actions Vew Window Help Image: Actions Vew Window Help	
Files of type: Export/Import Files (*.eif)	
Deploying using Export / Import © 2007 IB	17 M Corporation

Select the import file to be opened.



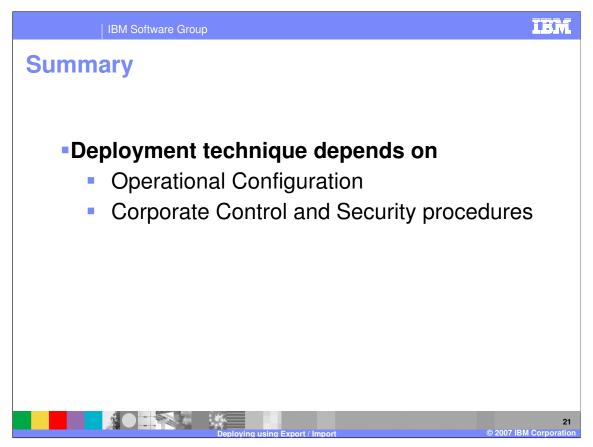
Data objects in the import file are listed.

IBM Software Group	IBM
Importing Objects	
Fie Actions View Window Help W Window Y Help W Window - cptest_xmldict.eif W Cort File Window - cptest_xmldict.eif W Dictionary C CPTEST [Code Page Testing] W Dictionary C CPTEST [Code Page Testing] W Vieweightenst H177EVY H177	
Deploying using Export / Import	19 © 2007 IBM Corporation

The database into which data is to inserted can be selected.



The status screen is shown at completion.



WDI provides a couple of functions for allowing customers to deploy test objects into production. The procedures used depend on the operational configurations determined by the corporation and the Control and Security administrative procedures of the enterprise.

Deployment can be handled interactively or on a delayed basis using automated batch scheduling systems and WDI batch techniques.

