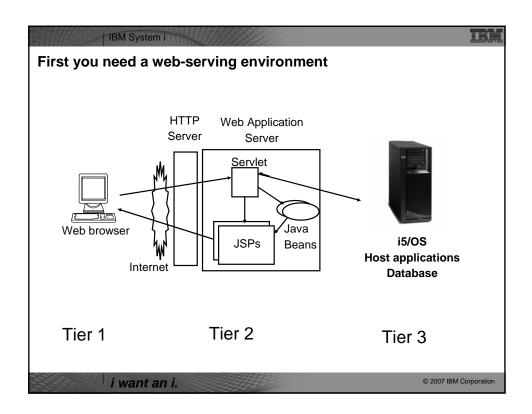


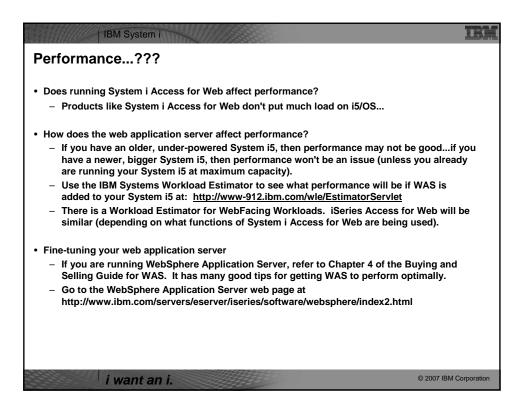
V5R4 5722-XW1 System i Access Family	V5R3 5722-XW1 System i Access Family
System i Access for Windows, 5722-XE1, V5R4	System i Access for Windows, 5722-XE1, V5R3
System i Access for Web, 5722-XH2, V5R4	System i Access for Web, 5722-XH2, V5R3
	HATS Limited Edition V5.0, 5724-F97-01
System i Access for Linux, 5722-XL1	System i Access for Linux, 5722-XL1, V1.10
System i Access for Wireless, 5722-XP1, V5R4	System i Access for Wireless, 5722-XP1, V5R3
	V5R3 customers not wanting to upgrade to i5/OS V5R4 but want the new V5R4 System i Access Family clients can order no-charge Feature No. 2648 of Product No. 5722-XW1

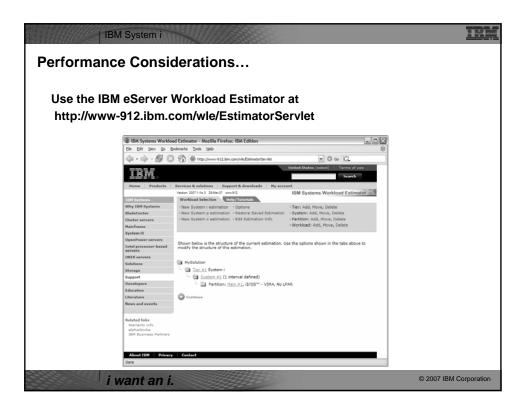


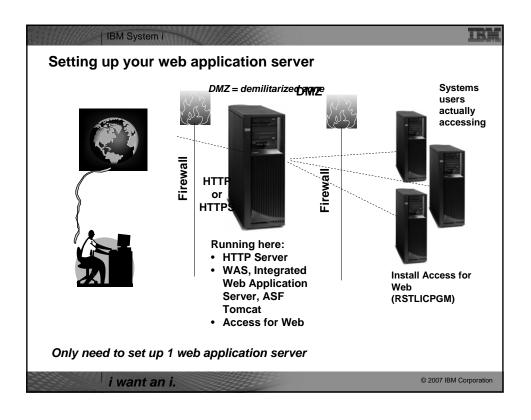
IBM System i	IBM
Pieces of the web-serving environment	
HTTP Server (powered by Apache)	
 Front door for your system into your web serving environment HTTP/HTTPS (SSL) 	
 Listens for web requests on a specific TCP/IP port 	
 Routes web requests between an end-user browser and a web application sever 	
Web application server	
WebSphere Application Server	
 Provides a java virtual machine environment where web applications run 	
Web application	
 System i Access for Web 	
 Provides specific function that users access using a web browser 	
 Deployed/installed within a web application server 	
WebSphere Portal/Workplace	
 Web application deployed to WebSphere Application Server 	
 Provides environment in which portlets are deployed and run. 	
i want an i.	M Corporation

IBM System i Supported Web Application Servers	S IBM
iSeries Access for Web servlet code can be used with any of the following web application servers:	iSeries Access for Web portlet code can be used with any of the following portal servers.
 Integrated web application server – announced October 10, 2006 WebSphere® Application Server V6.1 and V6.0 – Express for i5/OS WebSphere Application Server V6.1 and 6.0 Base and Network Deployment WebSphere Application Server V5.1 - Express for iSeries WebSphere Application Server V5.0 - Express WebSphere Application Server V5.1 and 5.0 Base and Network Deployment Editions ASF Tomcat 	 IBM Workplace Services Express V2.6 (V5R4 iSeries Access for Web) IBM Workplace Services Express V2.5 WebSphere Portal for Multiplatforms V6.0 WebSphere Portal for Multiplatforms V5.1.0.1 WebSphere Portal Express for Multiplatforms V5.0.2 WebSphere Portal Express Plus for Multiplatforms V5.0
i want an i.	© 2007 IBM Corporation

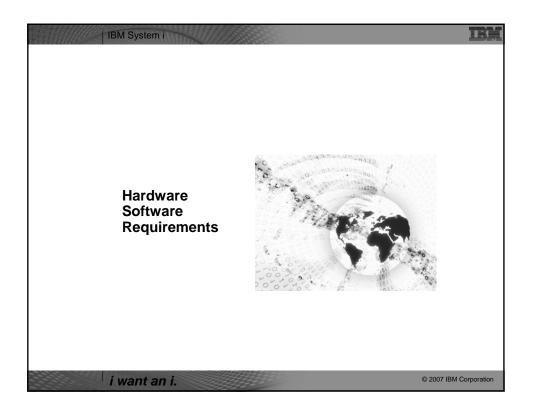
BM System i	B
S/400, iSeries, or System i rea	ady?
Bxx, Cxx, Dxx, Exx, Fxx \$10, \$01, Pxx \$20 / #2161, #2163 100, 150 170 / #2159,#2160,#2164,#2289,#2290,#2291,#2292,#2407, #2408,#2409 200, 20S, 250 270 / #2422,#2423, #2424,#2248,#2452,#2454	3xx, 4xx 500, 510, 50S 538 / #2154 530 / # 2150, # 2151 600 620 / #2175,#2179,#2180,#2181 720 / #2061 820 / #2425,#2426,#2457,#2456
S30 / #2257 S20 / #2170,#2165 170 / #2176,#2183,#2383,#2384,#2385,#2386 270 / #2250,#2431 535 / #2155 530 / #2150,#2151 600 / All 620 / #2175,#2179,#2180,#2181 720 / #2161 820 / #2425,#2426,#2456,#2457	WAS Express with few concurrent users
SB1,SB2,SB3,S20(1),S30(1),S40,170 / #2388 270 / #2252,#2253,#2432,#2434 53S / #2156,#2157 530 / #2153,#2162 730,740,800 / #2464 810,825,870,890,i5 520,i5 550,i5 570,i5 595 / All	Complex web applications with many concurrent users
	S/400, iSeries, or System i real Bxx, Cxx, Dxx, Exx, Fxx S10, S01, Pxx S20 / #2161, #2163 100, 150 170 / #2159,#2160,#2164,#2289,#2290,#2291,#2292,#2407, #2408,#2409 200, 205, 250 270 / #2422,#2423, #2424,#2248,#2452,#2454 S30 / #2257 S20 / #2170,#2165 170 / #2176,#2183,#2383,#2384,#2385,#2386 270 / #2250,#2431 538 / #2155 530 / #2150,#2151 600 / All 620 / #2175,#2179,#2180,#2181 720 / #2161 820 / #2425,#2426,#2456,#2457 SB1,SB2,SB3,S20(1),S30(1),S40,170 / #2388 270 / #2252,#2253,#2432,#2434 536 / #2156,#2157 530 / #2156,#2162 730,740,800 / #2464







IBM System i Port Requirements Comparison	IBM
iSeries Access for Windows (5722-XE1)*	iSeries Access for Web (5722-XH2)
 Port 449 for Port Mapper Port 8476 (9476) for Sign-on Port 8470 (9470) for Central Port 8472 (9472) for Data Queues Port 8471 (9471) for Database Port 8475 (9475) for Remote Commands Port 8473 (9493) for Print Port 2001 (2010) for Web Admin Port 2001 (2010) for Web Admin Port 446 (448) for DDM Port 23 (992) for Telnet Port 137, 138 for NetServer Port 389 (636) for LDAP Port 5355 (5566) for Mgmt Central Port 53 if using DNS Server 	 Port 80 (or any other port) for HTTP Server Port 443 (or any other port) for HTTPS Server *See Information APAR II12227 for detailed information
i want an i.	© 2007 IBM Corporation



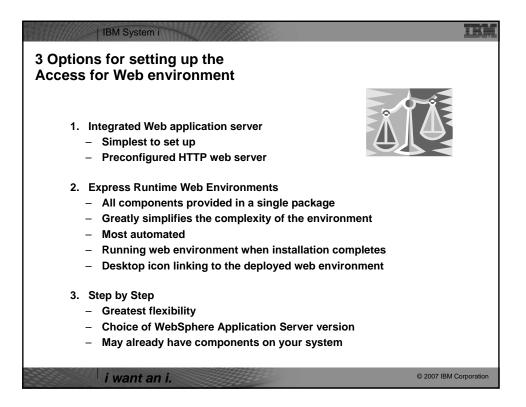
IBM System i	IBM
Client Browser Requirements	
 These browsers have been tested with V5R4 iSeries Access for Web: Firefox 1.0.2 (Windows, Linux) Internet Explorer 6.0 with Service Pack 1 (Windows) Opera 7.54 (Windows, Linux) Mozilla 1.7 (Windows, Linux, AIX) Other browsers that support the current HTTP and HTML specifications should work, but have not been tested with System i Access for Web. 	 These browsers have been tested with V5R3 iSeries Access for Web: Netscape 4.7 (AIX) Netscape 7.0 (Windows, Linux) Internet Explorer 6.0 with Service Pack 1 (Windows) Opera 7.11 (Windows, Linux) Mozilla 1.3 and 1.4 (Windows, Linux) Other browsers that support the current HTTP and HTML specifications should work, but have not been tested with System i Access for Web.
 Set browser to allow 'Cookies' System i Access for Web requires that the cookie configuration option to allow cookie 	
i want an i.	© 2007 IBM Corporation

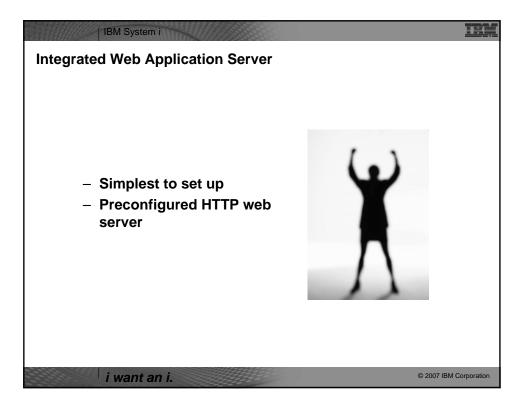
	-		
Product Number	Product Name	Option	\$
5722-SS1	V5R3 System i Access for Web: V5R2 OS/400 or V5R3 i5/OS V5R4 System i Access for Web: V5R3 and later i5/OS	Base	w/HW
5722-SS1	i5/OS - Extended Base Directory Support	3	N/C
5722-SS1	i5/OS - AFP Compatibility Fonts	8	N/C
5722-SS1	i5/OS - Host Servers	12	N/C
5722-SS1	i5/OS QShell Interpreter	30	N/C
5722-SS1	If you plan to use Secure Sockets Layer (SSL) • i5/OS Digital Certificate Manager • Cryptographic Service Provider	34 35	N/C N/C
5722-DG1	IBM HTTP Server for iSeries	Base	N/C
5722-JV1	Developer Kit for Java Developer Kit for Java Version 1.3 Developer Kit for Java Version 1.4 Developer Kit for Java Version 5.0 J2SE 5.0 32 bit	Base 5 6 7 8	N/C N/C N/C N/C
5722-JC1	(Check WebSphere doc for required version) Toolbox for Java	Base	N/C
5722-TC1	TCP/IP Connectivity Utilities for iSeries	Base	N/C

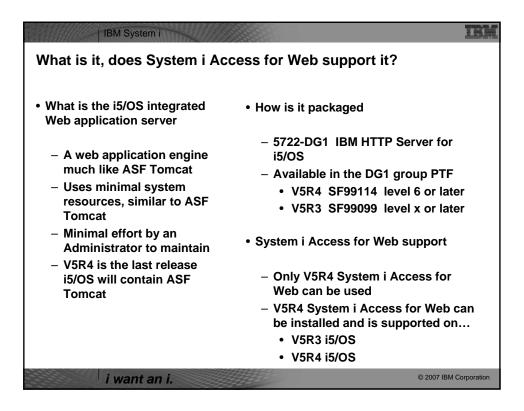
Base Base	\$
Base	
	part of XW1
Base	\$
	Base

Product Number	Product Name	Option	\$
5733-W61 5733-W60 5722-E51 5733-W51 5722-IWE 5733-WS5 5722-DG1 * * *	One, or more, of the following web servers • WebSphere Application Server V6.1 for i5/OS (all three editions) • WebSphere Application Server V6.0 for OS/400 (all three editions) • WebSphere Application Server V5.1 - Express for iSeries • WebSphere Application Server V5.1 for iSeries (Base and ND) • WebSphere Application Server V5.0 for iSeries (Base and ND) • WebSphere Application Server V5.0 for iSeries (Base and ND) • WebSphere Application Server V5.0 for iSeries (Base and ND) • integrated Web application server • Apache Software Foundation Tomcat • WebSphere Portal for iSeries (Express and Express Plus) • V5.0.2.2 • WebSphere Portal Enable for Multiplatforms V5.1.0.1 • WebSphere Portal Server Ser	See documentation	
not be lis – W – Pc – Pc – Pc – W – W	IBM Workplace Services Express V2.5, V2.6 the documentation for the individual web serving environments addit ted above. ebSphere http://www.ibm.com/servers/eserver/iseries/software/web ortal V5.0.2.2 http://publib.boulder.ibm.com/infocenter/wp51help/inde: ortal V5.10.1 http://publib.boulder.ibm.com/infocenter/wp51help/inde: ortal V6.0 http://publib.boulder.ibm.com/infocenter/wp50/environment/server/	bsphere/wsappser enter/index.html x.jsp lex.jsp ic/v2r5/index.jsp ic/v2r6/index.jsp	

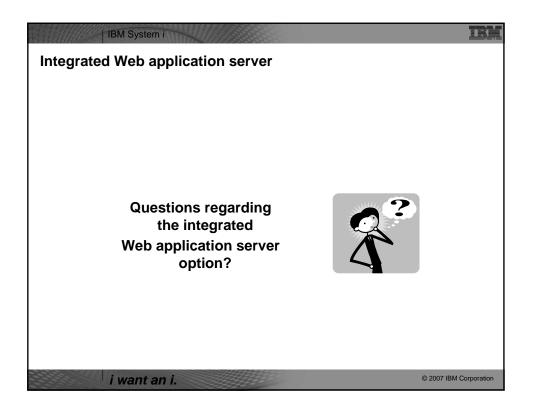
IBM System i				
System i Hardware Requirements				
Models/Processor features	s/Memory			
Refer to the web applicati processor features, an environment	ion server documentation to determine what server mo d the memory requirements are for your web serving	odels,		
 ASF Tomcat http://www.ibm.com/s WebSphere Portal Express http://publib.boulder.i WebSphere Portal V5.1.0. http://publib.boulder.i WebSphere Portal V6.0 http://publib.boulder.i WebSphere Portal V6.0 http://publib.boulder.i WebSphere Portal V6.0 http://publib.boulder.i Workplace Services Expression 	servers/eserver/iseries/software/websphere/wsappserver/ servers/eserver/iseries/software/http/ s/Express Plus for iSeries V5.0.2.2 ibm.com/pvc/wp/502/smbi/en/InfoCenter/index.html 1 ibm.com/infocenter/wp51help/index.jsp ibm.com/infocenter/wpdoc/v6r0/index.jsp ass V2.5 ibm.com/infocenter/wseic/v2r5/index.jsp			
• Server disk space – 275MB – 470MB	Software product V5R3 System i Access for Web V5R4 System i Access for Web			
i want an i.	© 200	07 IBM Corporation		

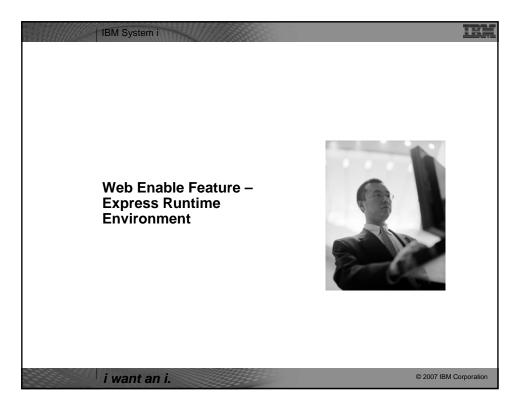


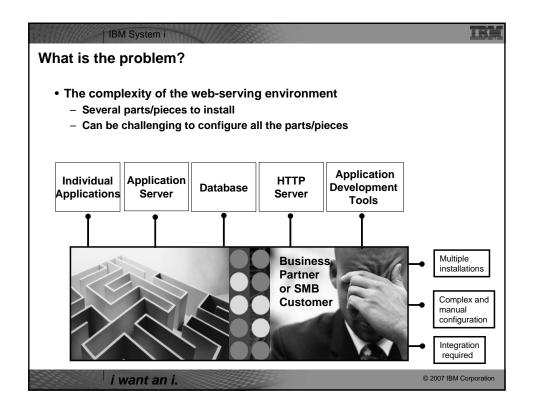




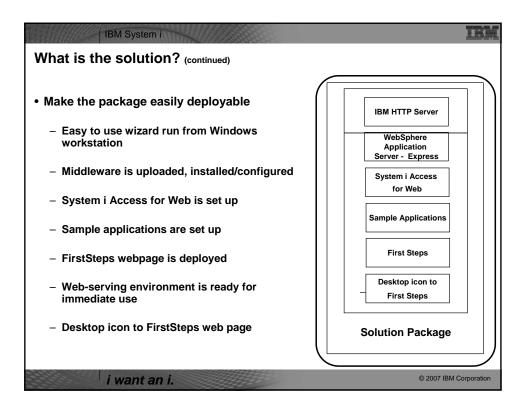
IBM System i
To use System i Access for Web within this environment
1. Stop the Web Administration for i5/OS
 ENDTCPSVR SERVER(*HTTP) HTTPSVR(ADMIN)
 2. Load/apply latest 5722-DG1 group PTF (review cover letters for any additional information) V5R4 SF99114 V5R3 SF99099
 Load/apply latest <u>V5R4</u> System i Access for Web PTF SI25551
 4. Configure System i Access for Web QSH cd /QIBM/ProdData/Access/Web2/install cfgaccweb2 –appsvrtype *INTAPPSVR
 5. Start the Web Administration for i5/OS STRTCPSVR SERVER(*HTTP) HTTPSVR(*ADMIN)
 6. Start preconfigured HTTP web server • STRTCPSVR SERVER(*HTTP) HTTPSVR(IWADFT)
 Open a browser to System i Access for Web using preconfigured HTTP:port <a href="http://<system_name>:2020/webaccess/iWAMain">http://<system_name>:2020/webaccess/iWAMain</system_name>
8. Done!
i want an i.



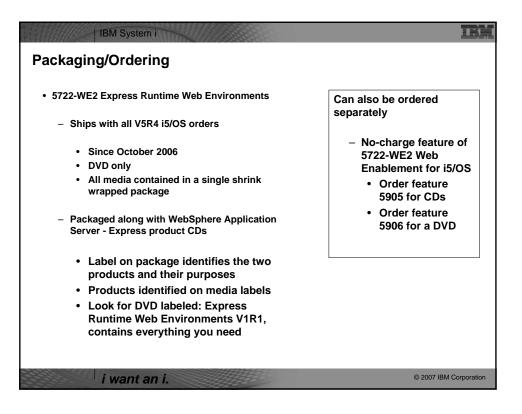




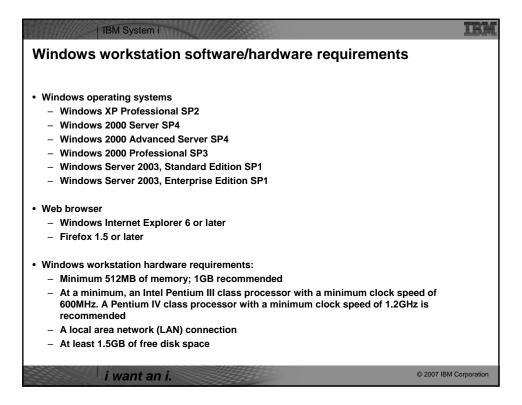
IBM System i	HA.
What is the solution?	
Put all the parts/pieces into a single package	
 Middleware components 	IBM HTTP Server
HTTP web server	WebSphere
 WAS Express 6.0.2.9 	Application Server - Express
 V5R4 System i Access for Web 	
PTFs are included	System i Access
	for Web
 Sample applications – modernizing an RPG application (flight400) using the following technologies: 	Sample Applications
HATS, WebFacing, Web Services	First Steps
 First Steps 	Dealter ison to
 Web page with links to System i Access for 	Desktop icon to
Web, Samples, web administration, Information	First Steps
 Getting Started Document 	Solution Pookage
 Deployment help text 	Solution Package
- Product licenses	/
i want an i.	© 2007 IBM Corporation



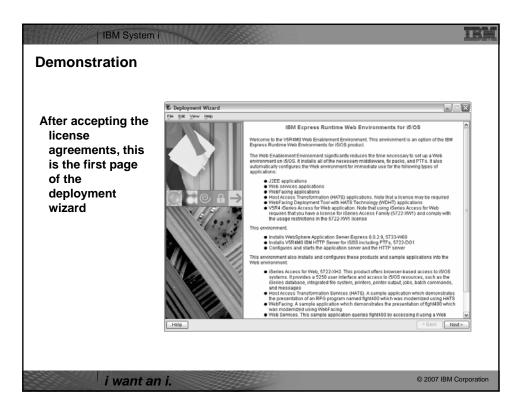
IBM System i
Target Audience
 V5R4 i5/OS customers and partners Anyone wanting/needing a simple way to setup web-serving on their i5/OS
 Users of the following:
 System i Access for Web – end user web browser access to i5/OS resources WDHT / HATS / WebFacing applications
 J2EE web applications (JSF, JSP, servlets, EJBs, etc)
 SOA applications (web services, including RPG/COBOL integration)
 Demo of an application modernized using SOA, HATs and WebFacing
• Partners
 Modify a similar solution to include their applications
 Obtain SAT and source from PartnerWorld
 Rebuild solution to include their application
i want an i. © 2007 IBM Corporation

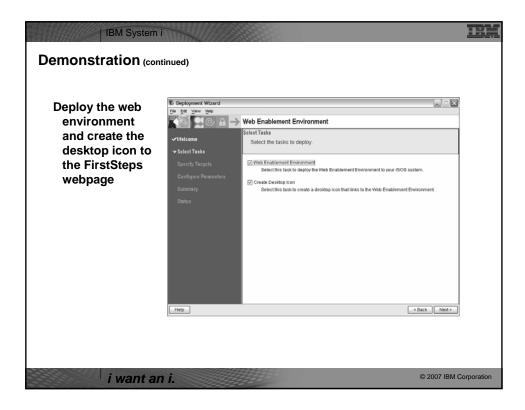


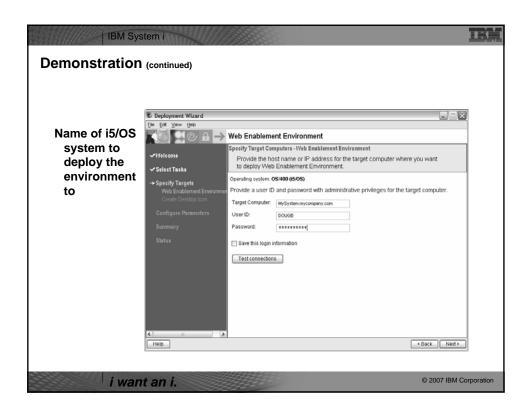
Installation/Setup Process	
 Read the ReadMe packaged with the product Verify requirements for Windows workstation and i5/OS system From a Windows workstation, launch the deployment wizard 	 Deployment wizard complete Click desktop icon named Web_Enablement_Environment_V5R 4M0
 Provide credentials Specify i5/OS system to deploy Name the HTTP web server, WebSphere profile/application server, ports Optionally a backend i5/OS for System i Access for Web to connect Deployment wizard runs Pushing middleware from workstation/media to the i5/OS system Installs/configures middleware Install/configures System i Access for Web, sample applications, FirstSteps web page Creates desktop icon on Windows workstation 	 FirstSteps webpage provides links to web environment, System i Access for Web, sample applications Administrator can then distribute web browser URL to users GO LICPGM will list 5733-S01 Base Express Runtime Web Environments 5733-S01 1 Web Enablement Environment

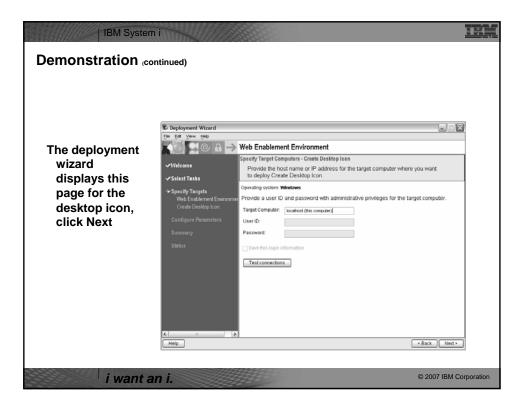


IBM System i i5/OS Software/Hardware Requi	rements
• 5/OS V5R4 (5722-SS1)	Recommended PTFs:
 option 3 - Extended Base Directory Support option 8 - AFP(TM) Compatibility Fonts option 12 - Host Servers option 30 - QShell 	 i5/OS Cumulative PTF Group SF99540 Level 6066 or later Java Group PTF SF99291 Level 2 or later DB2 Universal Database for iSeries Group PTF SF99504 Level 2 or later
Software products	 i5/OS hardware requirements:
 5722-JV1 Java Developer Kit 1.4 - *BASE, option 5, option 6 5722-JC1 Toolbox for Java 5722-TC1 TCP/IP Connectivity Utilities 5722-XW1 System i Access Family 5722-QU1 Query - if you want to run reports using the HATS or WebFacing sample applications 	 It is recommended that you use the <u>IBM</u> <u>Systems Workload Estimator</u> to help estimate your hardware needs.
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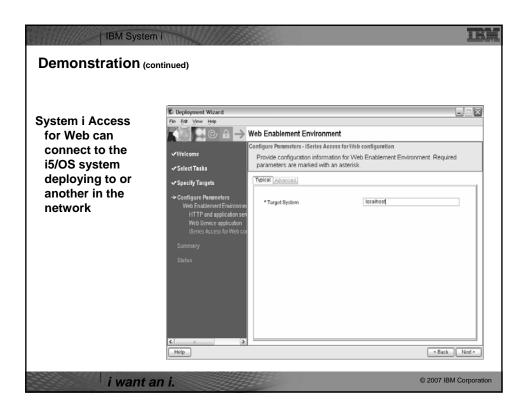


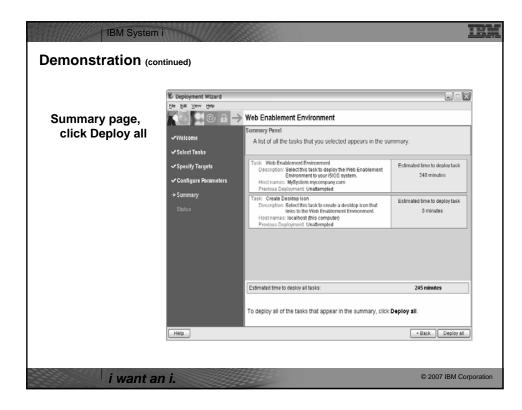




IBM System	111111111111111111111111111111111111111		LDM
	C Deployment Wizard		
Name the HTTP		Veb Enablement Environment	
web server and		Configure Parameters - HTTP and applicat	tion server names and ports
it's port, name	√Welcome	Provide configuration information for	r Web Enablement Environment. Required
WebSphere	✓ Select Tasks	parameters are marked with an aste	erisk.
profile/app	✓ Specify Targets	Typical Advanced	
server and it's	-> Configure Parameters Web Enablement Environmen	* HTTP server name	MYHTTPSVR
port range	HTTP and application service application	* HTTP server port	10000
	iSeries Access for Web col		MYAPPSVR
	Summary	* Application server name	MYAPPSVR
	Status	* Application server starting port	10001
	K N		< Back Next >
i want a	n i.		© 2007 IBM Corporation

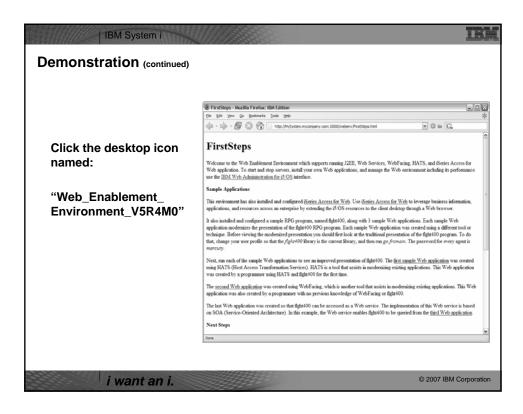
IBM System		
Deployment of the sample applications requires a security officer level user ID/password	Deployment Wizard Deployment Wizard Velocone Velocone Select Tasks Specify Targets Configure Parameters are marked with an asterisk. Typical Advanced Velocone Web Schlowerd Environment TYPe and application en Web Schlowerd Environment Velocone Vel	Ned >
i want a	n i. © 20	007 IBM Corporation

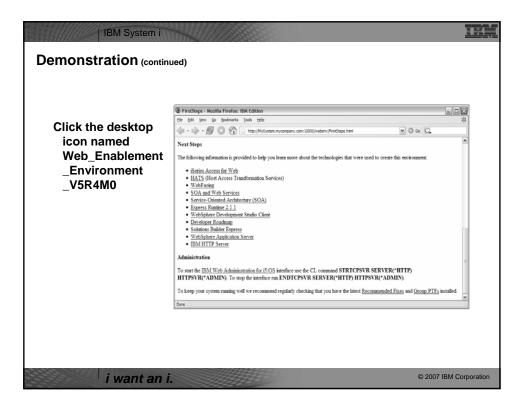


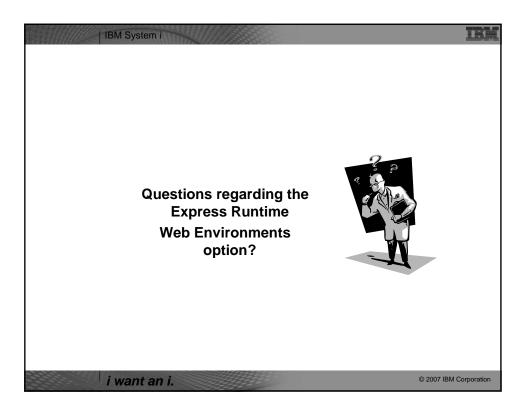


	C Deployment Wizard			
	File Edit View Help	Web Enablement Env	ironment	
Progress of the	√Welcome √SelectTasks	Deployment Status	s for all the tasks you selected to deploy appe	ars in the
deployment	✓ Specify Targets	1%	Estimated total time remaining:	4 hours ,5 minutes
	✓ Configure Parameters ✓ Summary	Deployment messages: Time	Message	
	->> Status	2007-03-23 08:15:30	Deploying: Web Enablement Environment	
		2007-03-23 08:13:13	Waiting to deploy: Create Desktop Icon	
			Detailed messages Master log	Ster Darlamond
	Help		< Back	Stop Deployment

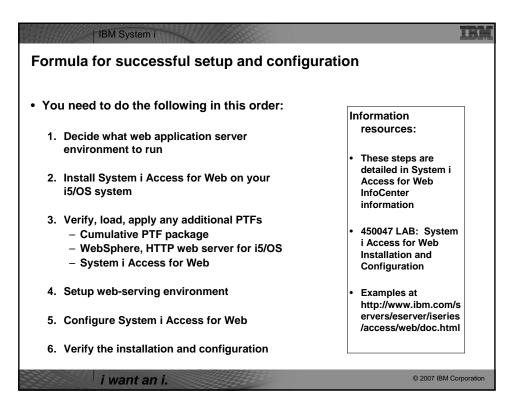
	Deployment Wizard	
	File Edit View Help	Web Enablement Environment
Successful completion	√Welcome √Select Tasks	Deployment Status The deployment status for all the tasks you selected to deploy appears in the deployment messages table.
•	✓ Specify Targets	100% Estimated total time remaining: 0 minutes
	√Configure Parameters √Summary →Status	Deployment messages: Time Message ✓ 2007-03-23 10:09.46 Successfully deployed. Web Enablement Environment ✓ 2007-03-23 10:10:06 Successfully deployed. Create Desktop Icon
		Detailed messages Master log
	Help	< Back Close

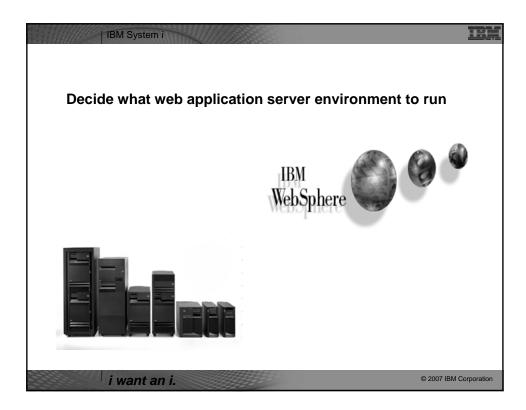






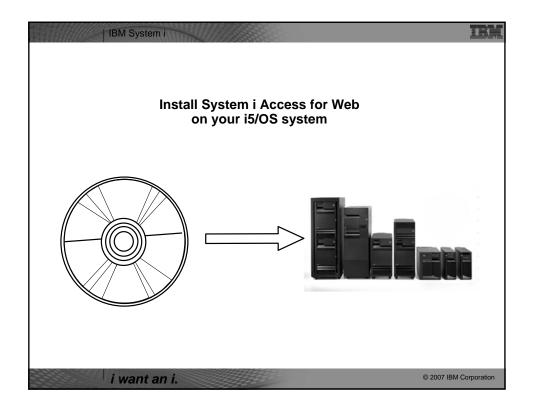


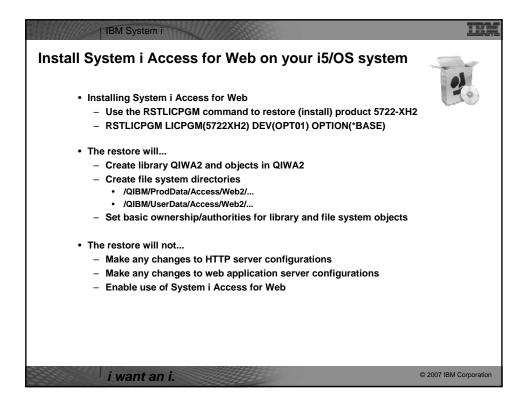


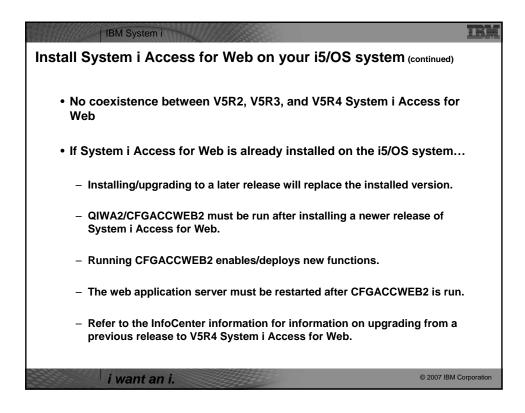


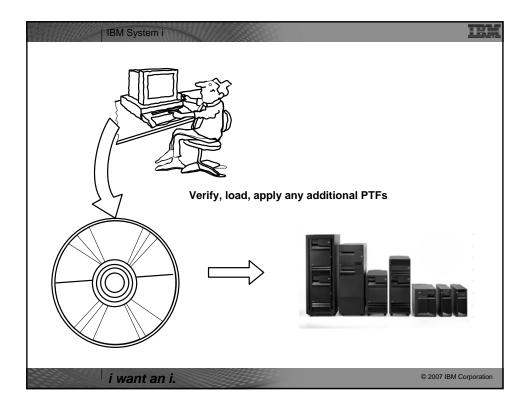
IBM System i	IBM
Decide what web application server environment to run	
System i Access for Web can be deployed to a variety of web serving environments.	
– Servlets	
WebSphere Application Server V6.1 for i5/OS (Express, Base, Network Deployment	t)
WebSphere Application Server V6.0 for OS/400 (Express, Base, Network Deployme	nt)
 WebSphere Application Server V5.1 - Express for iSeries 	
 WebSphere Application Server V5.1 for iSeries (Base and Network Deployment) 	
 WebSphere Application Server V5.0 - Express for iSeries 	
 WebSphere Application Server V5.0 for iSeries (Base and Network Deployment) 	
ASF Tomcat	
 The ASF Tomcat included as part of the no-charge IBM HTTP Server for iSeries (5722- DG1) 	
 ASF Tomcat PTFs are delivered within the IBM HTTP Server for iSeries Group HTTP PT 	Fs.
– Portlets	
 IBM WebSphere Portal – Express/Express Plus for Multiplatforms V5.0.2.2 	
 IBM WebSphere Portal Enable for Multiplatforms V5.1.0.1 	
IBM WebSphere Portal V6.0	
 IBM Workplace Services Express V2.5, V2.6 	
i want an i.	orporation

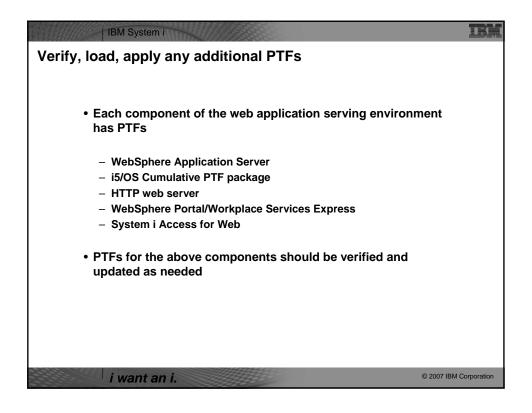
<u>://www-03.il</u> sphere/wsa	om.com/servers/eserver/iseries/software	<u>e/</u>	
WebSphere Home What's New About WebSphere	Servers > Midrange servers > Software > WebSphere Application Server		
Ordering	Features	Need directions?	
Documentation FAQs Business Solutions	WebSphere Application Server Version 6.0 for OS/400 is now available. To find out more about the new version or any other of the supported versions - please click on the links below:	iSeries	
Samples	Version 6.0	→ iSeries Developer	
PTFs Performance Coexistence	→ IBM WebSphere Application Server V6.0 for OS/400 → IBM WebSphere Application Server for Developers V6.0 for OS/400 → IBM WebSphere Application Server Network Deployment V6.0 for OS/400 → IBM WebSphere Application Server - Express V6.0 for OS/400	iSeries Developer roadmap An Independent Analysis of the iSeries Developer	
Migration	Version 5.1	Roadmap (449KB)	
Forum Newsletter	HISMI DS A Paper Application Server V5.1 for iSeries HEM WebSphere Application Server for Developers V5.1 for iSeries HEM WebSphere Application Server Network Deployment V5.1 for iSeries	The Business Benefits of iSeries Application Modernization (183KB)	
Related Resources	→ IBM WebSphere Application Server - Express for iSeries V5.1	🕞 Get Adobe® Reader®	
	Version 5.0 → IBM WebSphere Application Server V5.0 for iSeries → IBM WebSphere Application Server Network Deployment V5.0 for iSeries → IBM WebSphere Application Server - Express for iSeries V5.0	Emerging Technology → Dynamic web site development for the non-technical	
	Version 4.0 → Advanced Edition → Advanced Single Server Edition	Pilot Pricing Program	
		→ IBM Software Pilot	
	What's new Please see the <u>What's new</u> page for more information on these new items.	Pricing Program for IBM eServer i5 520 Systems	
		→ Presentation overview	



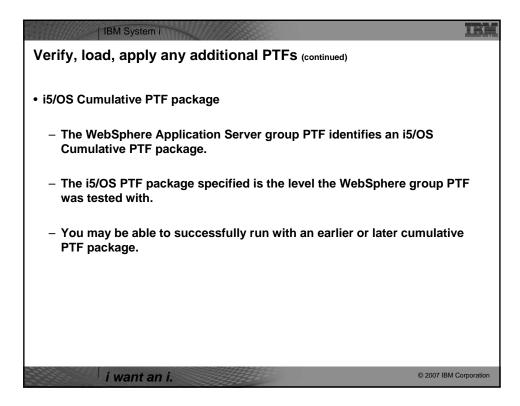


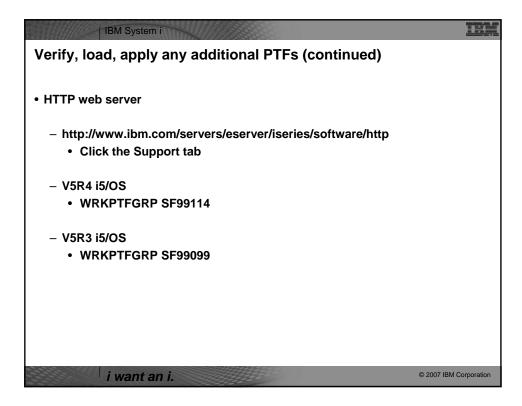


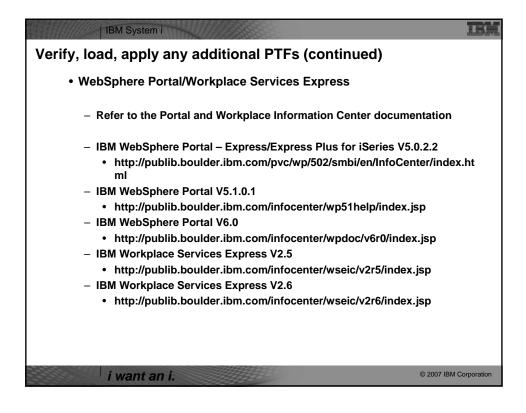




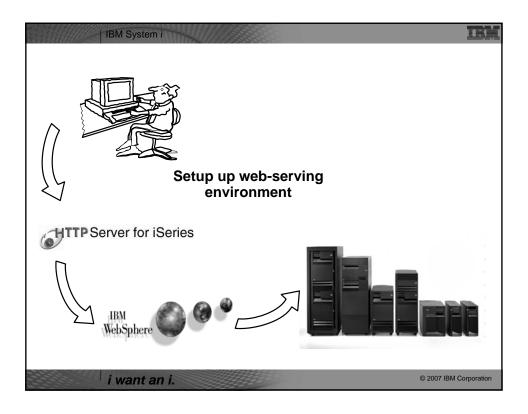
IBM System i		IBM
Verify, load, apply any a	dditional PTFs (continued)	
WebSphere Application Server		
– http://www.ibm.com/servers/e	server/iseries/software/websphere/wsa	ppserver/
	ink for i5/OS release/WebSphere versio	
– V5R4 i5/OS		
 WRKPTFGRP SF99323 	v6.1 for i5/OS	
 WRKPTFGRP SF99312 	v6.0 for OS/400	
 WRKPTFGRP SF99311 	v5.1 Express for iSeries	
 WRKPTFGRP SF99308 	v5.1 Base Edition	
WRKPTFGRP SF99309	v5.1 Network Deployment Edition	
– V5R3 i5/OS		
 WRKPTFGRP SF99322 	v6.1 for i5/OS	
 WRKPTFGRP SF99301 	v6.0 for OS/400	
 WRKPTFGRP SF99275 	v5.1 Express for iSeries	
 WRKPTFGRP SF99285 	v5.1 Base Edition	
 WRKPTFGRP SF99286 	v5.1 Network Deployment Edition	
 WRKPTFGRP SF99272 	v5.0 Express for iSeries	
 WRKPTFGRP SF99287 	v5.0 Base Edition	
 WRKPTFGRP SF99288 	v5.0 Network Deployment Edition	
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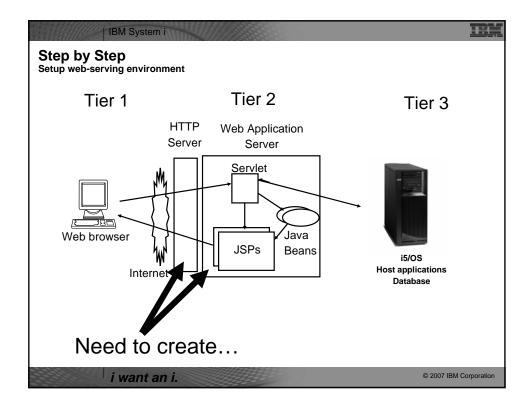


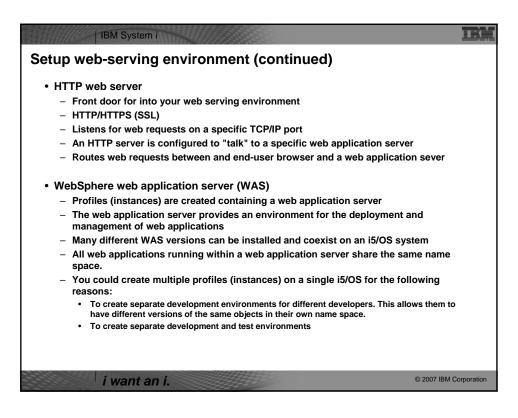


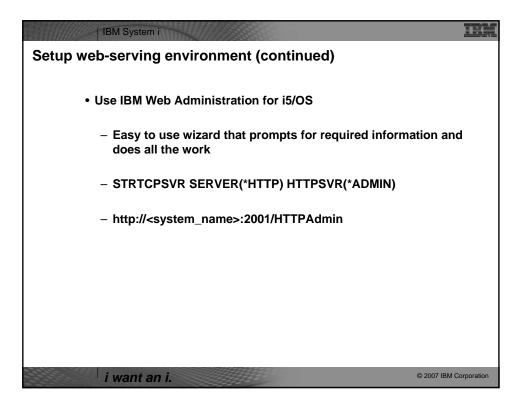


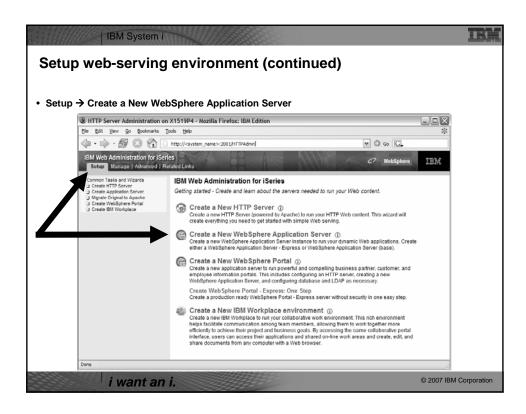
1BM System i	調
Verify, load, apply any additional PTFs (continued)	
System i Access for Web	
 http://www.ibm.com/eserver/iseries/access/web/servicepacks.htm 	
– V5R4 - SI25551	
 Contains support for WAS V6.1, Workplace Services Express V2.6, Portal V6.0, integrated web application server 	
– Linux i386.rpm - SI24993	
– Linux ppc.rpm - SI24994	
 Linux ppc64.rpm - SI24995 	
– Linux x86-64.rpm - Sl24996	
 AFP Plugin Viewer - SI22919 	
- V5R3 - SI23771	
 Contains support for WAS V6.1, WAS V6.0, Portal V5.1.0.1, Workplace Services Express V2.5 	
– Linux i386 rpm - SI24517	
– Linux ppc rpm - SI24518	
 AFP Plugin Viewer - SI14371 	
 Always check the cover letter special instructions, often will have to run CFGACCWEB2 to enable changes. 	
 Always check the website for latest PTF numbers 	
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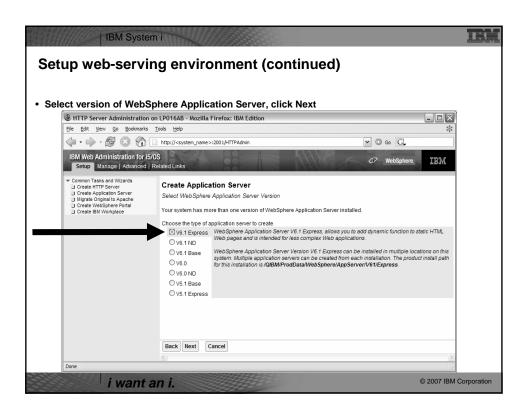


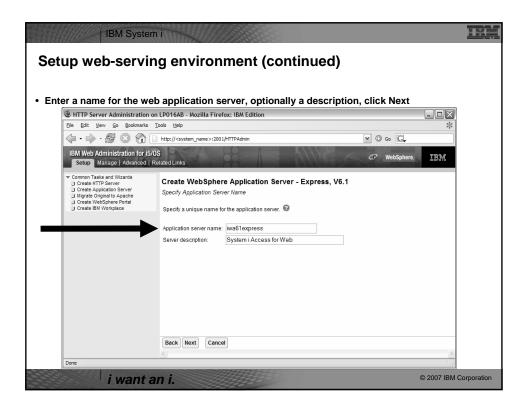


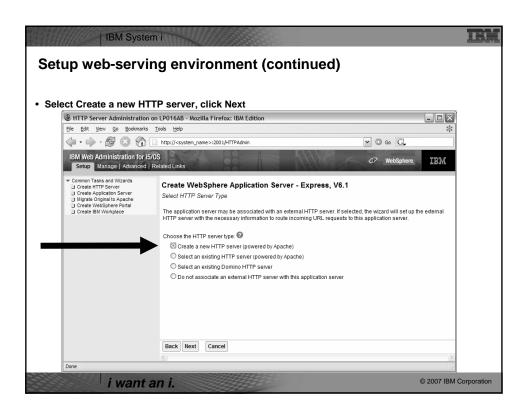


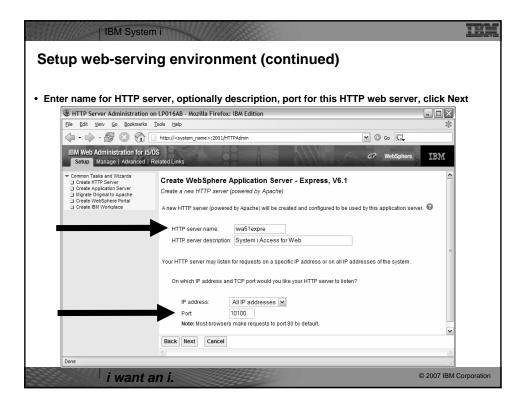


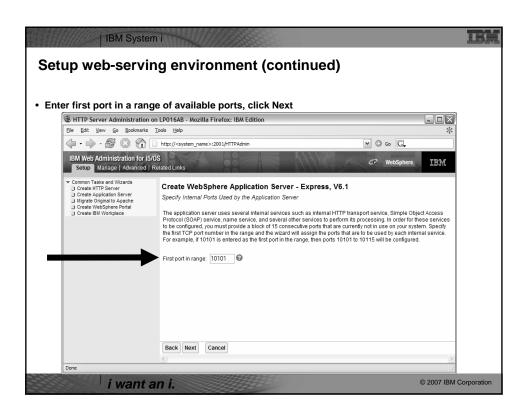
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IBM Web Administration for iS Setup Manage Advanced		Ø WebSphere. Ⅲ
Create hTTP Server Create Application Server Migrate Originat to Apache Create VeSchere Portal Create VeSchere Portal Create BM Workplace	Create Application Server We application server wizard. This wizard applications with dynamic content, updates witrulan host inform evernal HTTP server of your choice, and creates all necessary We baplications you choose to install. • Urtual hosts • Urtual hos	ation and Web server plugin configuration for an y JDBC providers and datasources required for the st from the browser to the applications. Many ng of requests. If you wish for more granular confol, to a specific application. A single virtual host can to be accessed by your customers. The Install or Web Archive (WAR) file that contains the application
Done	<u>×</u>	<u>ے</u>

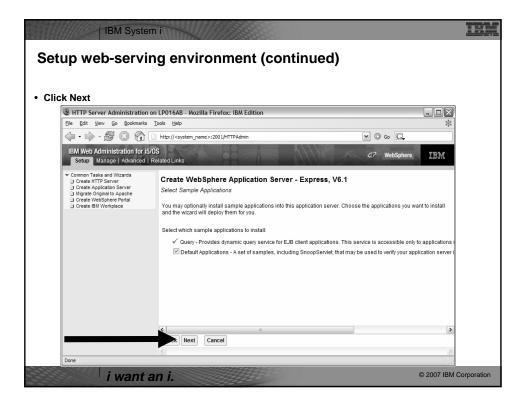


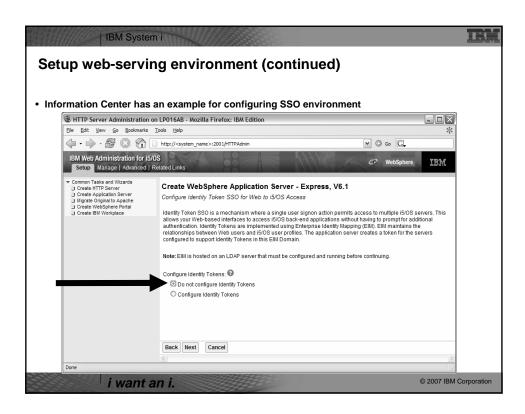


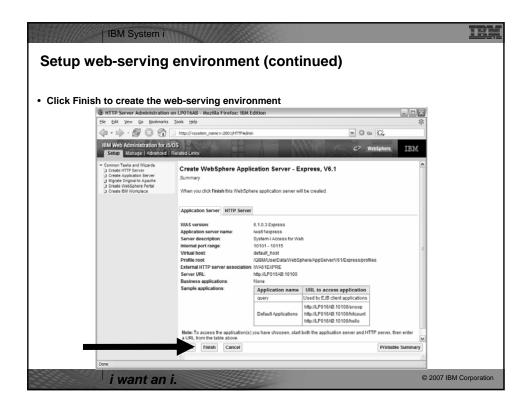


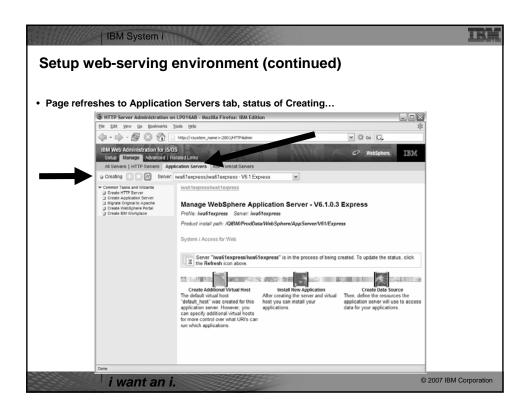


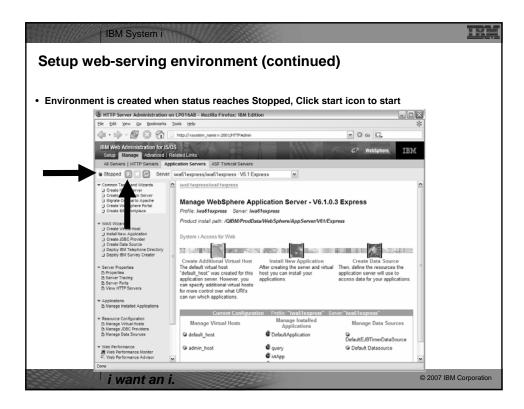


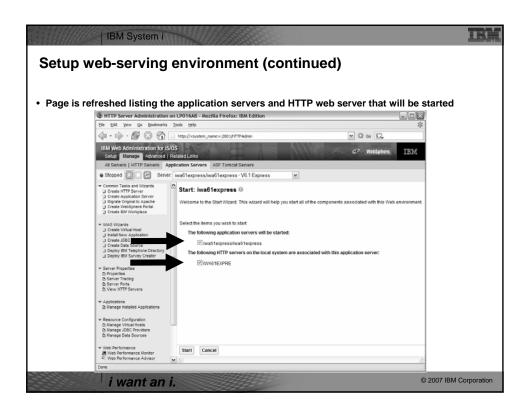




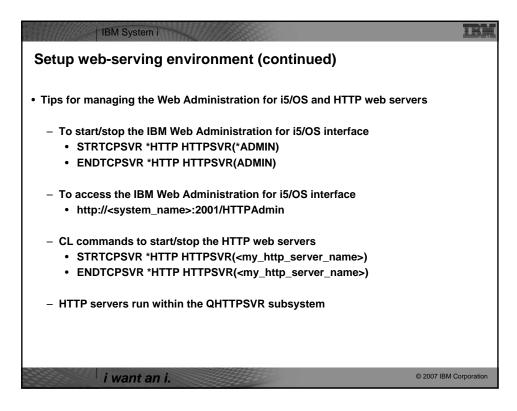






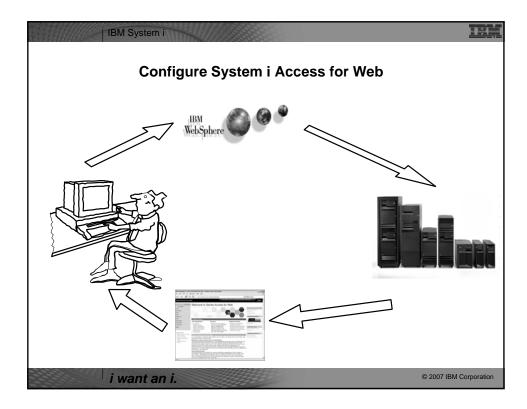


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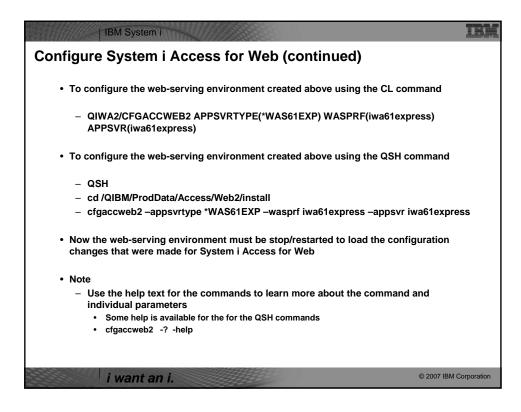
IBM System i	
Setup web-serving environment (continued)	
WebSphere Application Server V6.1 information Subsystem	
 Runs in QWAS61 subsystem WRKACTJOB SBS(QWAS61) Jobs (web application server) are named with the name of the web application server 	
 Jobs (web application server) are named with the name of the web application server Instances vs. profiles Previous WAS versions had "instances". V6.1 has "profiles". 	
 A default profile is created named "default". The web application server it contains is named "server1". 	
 IFS /QIBM/ProdData/WebSphere/AppServer/V61/Base/ 	
/QIBM/UserData/WebSphere/AppServer/V61/Base/	
 /QIBM/ProdData/WebSphere/AppServer/V61/Express/ /QIBM/UserData/WebSphere/AppServer/V61/Express/ 	
 /QIBM/ProdData/WebSphere/AppServer/V61/ND/ /QIBM/UserData/WebSphere/AppServer/V61/ND/ 	
 These paths are defaults. WAS 6.1 can be installed anywhere in the IFS WAS 6.1 profiles can be created anywhere in the IFS. 	
 If using WAS Network Deployment product, the profile cannot be federated/managed in the Network Deployment environment 	
i want an i.	ation

IBM System i
Step by Step Setup web-serving environment (continued)
WebSphere Application Server V6.0 information
– Subsystem
Runs in QWAS6 subsystem
WRKACTJOB SBS(QWAS6)
 Jobs (web application server) are named with the name of the web application server
 Instances vs. profiles
 Previous WAS versions had "instances". V6.0 has "profiles".
 A default profile is created named "default". The web application server it contains is named "server1".
– IFS
 /QIBM/ProdData/WebSphere/AppServer/V6/Base/
 /QIBM/UserData/WebSphere/AppServer/V6/Base/
 Note: Profiles can be created to user specified paths, above is the default path.
 If using WAS Network Deployment product, the profile cannot be federated/managed in the Network Deployment environment
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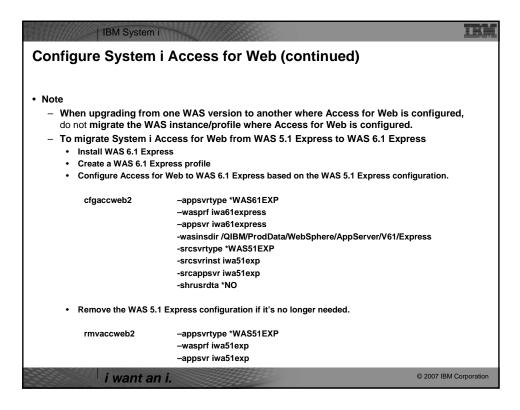


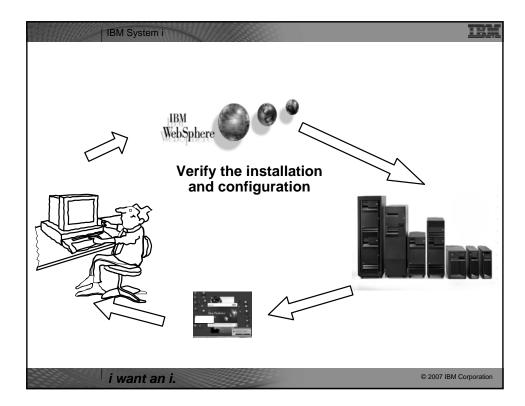
Configure System	NULLITES 555555550	15
- Sustam i Assass for Web	must be deployed (senfigured) to a supplies usb a	nulication conver
•	must be deployed (configured) to a running web a	application server
	provides CL/QShell commands	
– CL commands – QIV		
CFGACCWEB2	Configure System i Access for Web	
STRACCWEB2	Start System i Access for Web	
ENDACCWEB2	End System i Access for Web	
RMVACCWEB2	Remove System i Access for Web	
– QShell - /QIBM/Prod	Data/Access/Web2/install	
 cfgaccweb2 	Configure System i Access for Web	
 straccweb2 	Start System i Access for Web	
endaccweb2	End System i Access for Web	
 rmvaccweb2 	Remove System i Access for Web	
Commands are provided	to	
 Ease the complexity 	of deploying a web application	
 Check dependencies 		
•	ebSphere tool to deploy a web application	
 Perform additional re 		
•	a/Access/Web2/ structure	
 Allows for PTFs that 	make use of the normal i5/OS PTF tools	
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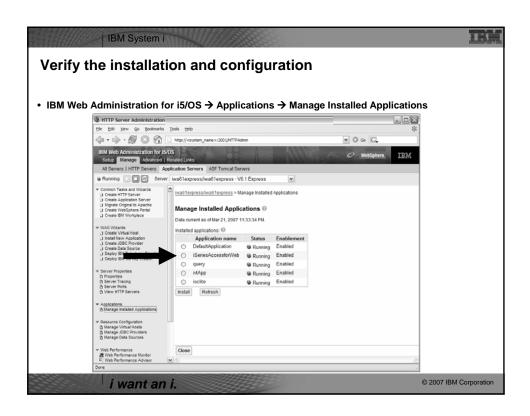
1BM System i	DM
Configure System i Access for Web (continued)	
Use available documentation	
 System i Access for Web – V5R4 Information Center 	
 Place to start to get V5R4 System i Access for Web installed and running 	
 Examples included for each web application server environment 	
 <u>http://www.ibm.com/eserver/iseries/access/web/doc.html</u> 	
When the commands are run	
 The WebSphere web application server must be running before running CFGACCWEB2/RMVACCWEB2 	
 The WebSphere web application server will need to be restarted after CFGACCWEB2/RMVACCWEB2 	
 No updates are made to the HTTP web server configuration. 	
Notes	
 Do not use the web administration interface or WebSphere Admin. console to (deploy) or remove System i Access for Web 	o configure
 Do not attempt to migrate a WebSphere environment to another WebSphere e when System i Access for Web is configured 	environment
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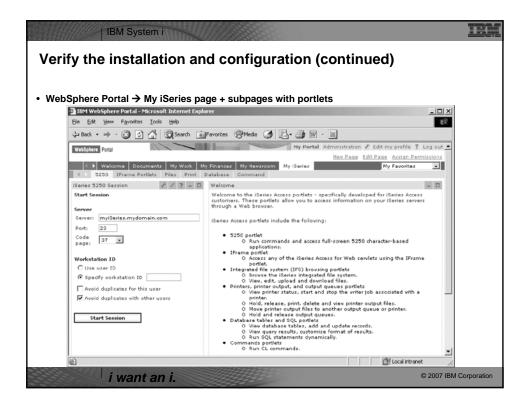


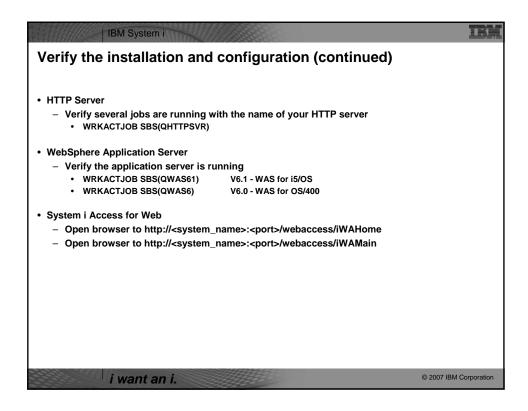
IBM System i
Configure System i Access for Web (continued)
The CFGACCWEB2/cfgaccweb2 commands accept other parameters
 The following parameter tells Access for Web to connect and serve data from a backend i5/OS system. If not specified, the local i5/OS running the web environment will be used. TGTSVR - *DEFAULT, fully qualified system name
 Specifies whether the web application (System i Access for Web) or the web application server (WebSphere) will authenticate the user.
AUTHTYPE - *APP, *APPSVR
AUTHMETHOD - *FORM, *BASIC
 Input a WAS user ID/password for WAS profiles where WAS security has been enabled
WASUSRID
• WASPWD
 To configure new web application servers based on existing web application where Access for Web is configured
 SRCSVRTYPE - *ASFTOMCAT, *WAS50, *WAS50EXP, *WAS51, *WAS51EXP, *WAS60, etc.
 SRCSVRINST – Name of the WAS instance/profile, or Tomcat server
 SRCAPPSVR – Name of WAS application server within the instance/profile
SRCINSDIR – Install path of WAS V6.1 profile
 SHRUSRDTA – Copy the user data to the new configuration or share the user data between the old and new configurations.
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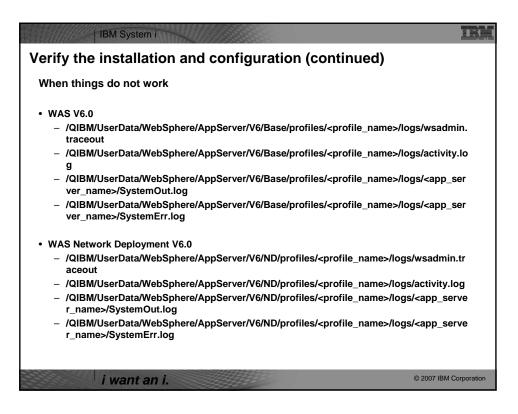




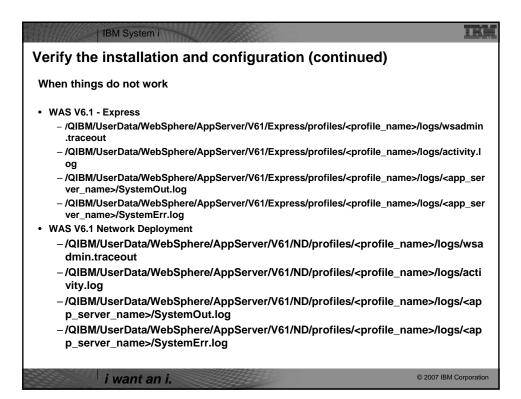


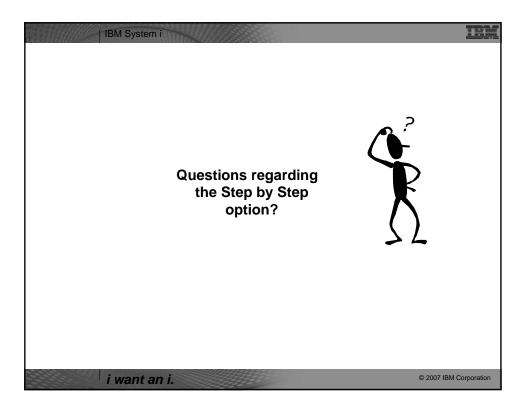


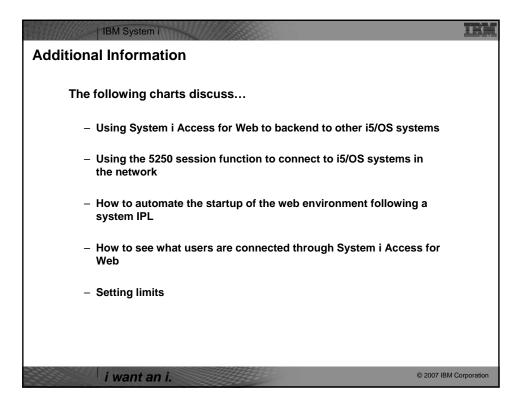
IBM System i	IBM
Verify the installation and configuration (continued) When things do not work 	
 Verify the HTTP server is running 	
 Verify the WebSphere application server was restarted after running CFGACCWEB2 	
 Verify the WebSphere application server running 	
 That you have the latest group PTFs for the HTTP server and WebSphere Application Server. 	n
 That System i Access for Web is listed as an installed application in the WebSphere application server (via the IBM Web Administration for i5/OS interface) 	
 System i Access for Web logs 	
 /QIBM/UserData/Access/Web2/logs/cmds.log High level translated log 	
 /QIBM/UserData/Access/Web2/logs/cmdstrace.log Low level untranslated log 	
 /QIBM/UserData/Access/Web2/logs/<appsvrtype>/<wasprf>/<appsvr>/logs/*</appsvr></wasprf></appsvrtype> 	
 Logs for specific WAS servers. Note: some logs may be EBCDIC requiring of WRKLNK i5/OS command to view them 	use
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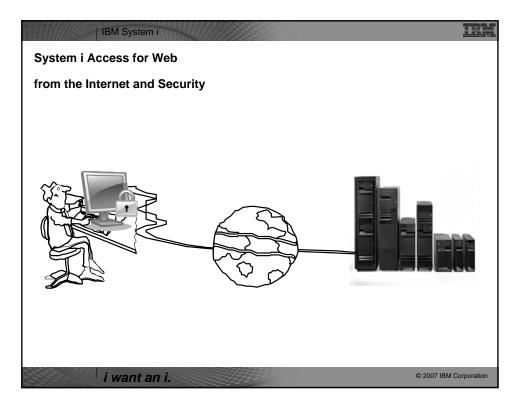


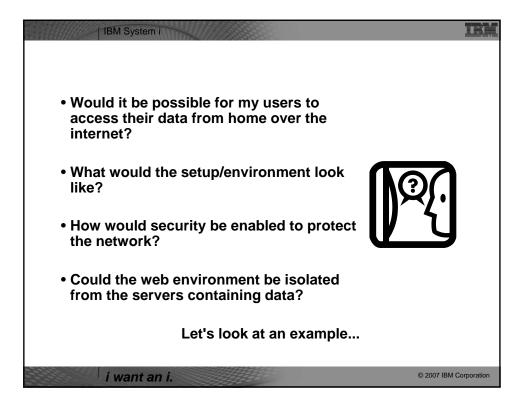
IBM System i	IBM
Verify the installation and configuration (continued)	
When things do not work	
 WAS V6.1 (base edition) /QIBM/UserData/WebSphere/AppServer/V61/Base/profiles/<profile_name>/logs/wsadmin.traceout</profile_name> /QIBM/UserData/WebSphere/AppServer/V61/Base/profiles/<profile_name>/logs/activity.log</profile_name> /QIBM/UserData/WebSphere/AppServer/V61/Base/profiles/<profile_name>/logs/<app_server_name>/SystemOut.log</app_server_name></profile_name> /QIBM/UserData/WebSphere/AppServer/V61/Base/profiles/<profile_name>/logs/<app_server_name>/SystemErr.log</app_server_name></profile_name> 	-
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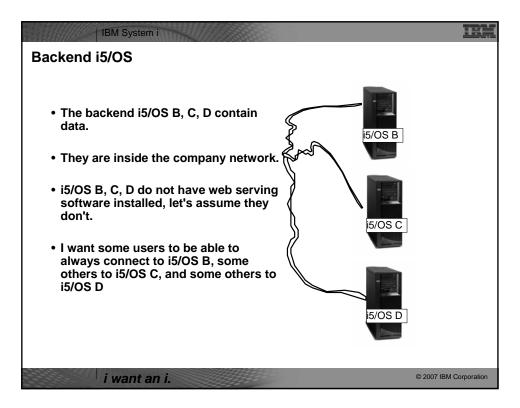


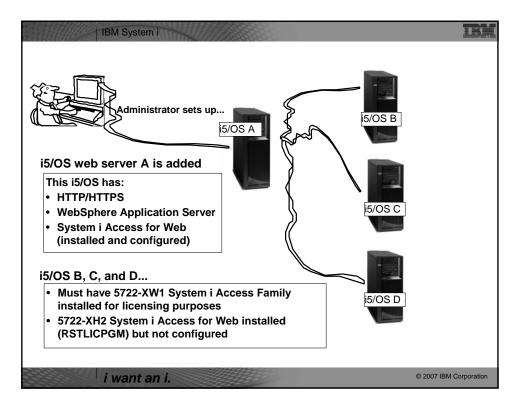


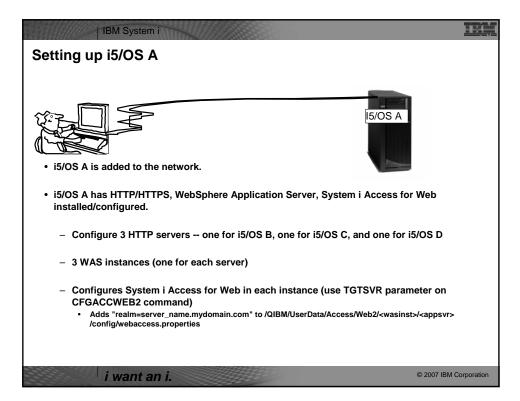


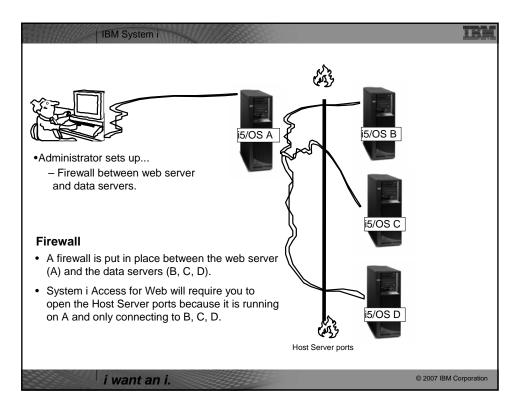


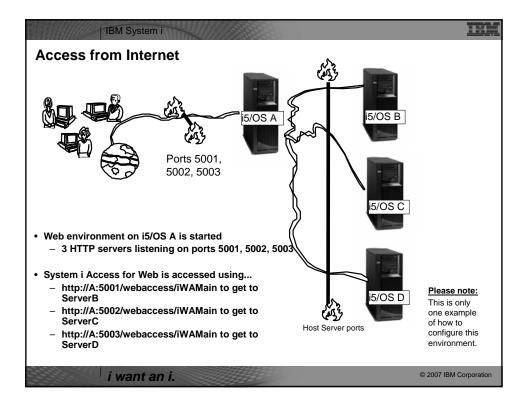


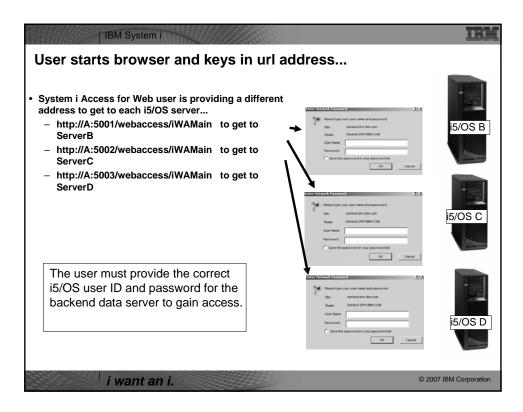




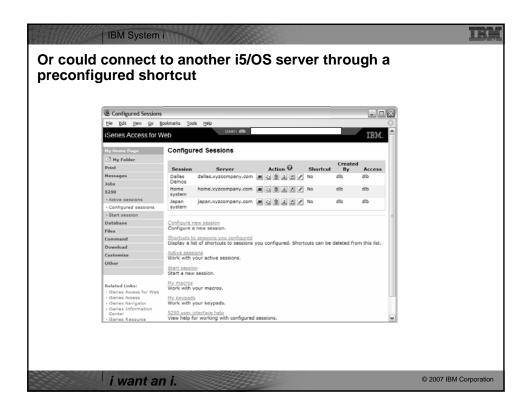


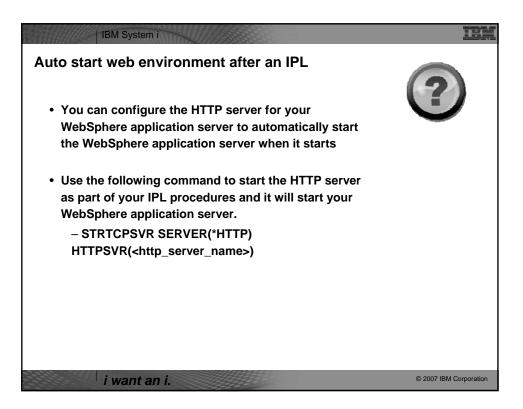


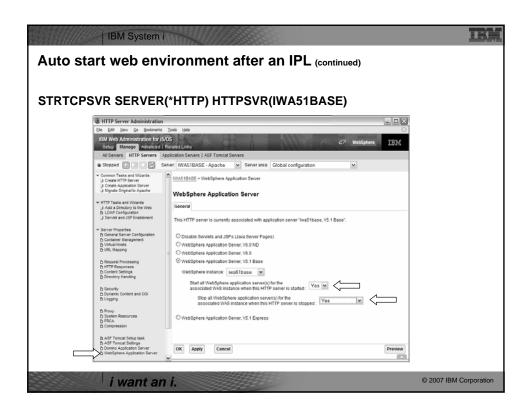




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		S B and start a new session from t	here to i5/OS	C or i5/OS D	
	i5/OS server ne what workstation	n (device) ID to use			
	t to another i5/OS	in (device) ib to use			
Connec					
	Start Session		_		
	<u>File Edit View Go</u>	Bookmarks Tools Help User: dlb			
	iSeries Access for V	Veb		THM. A	
	My Home Page	Start Session			
	My Folder	Start Session			
	Print	Server	0		
	Messages	Server: Any i5/OS in my network			
	Jobs	Port: 23		_	
	5250	Code page: 37 💌		=	
	Active sessions				
	Configured sessions	Workstation ID	Ø		
	Start session	O Use user ID			
	Database	Specify workstation ID			
	Files	Avoid duplicates for this user			
	Command	Avoid duplicates with other users			
	Download				
	Customize	General	0		
	Other	Initial macro:	~		
		Bypass signon			
		Display HTML data in fields			
	Related Links:				
	 iSeries Access for Web 	Start Session			

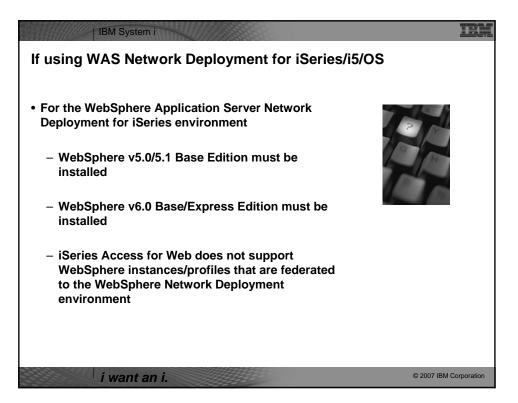


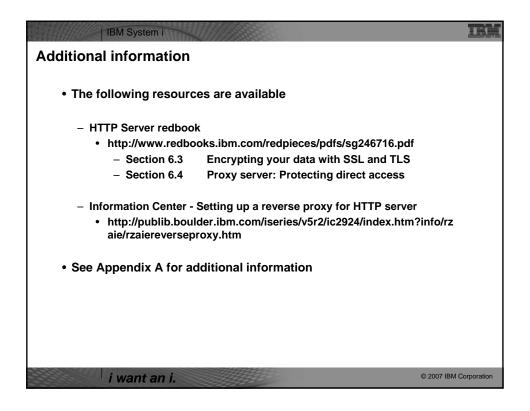


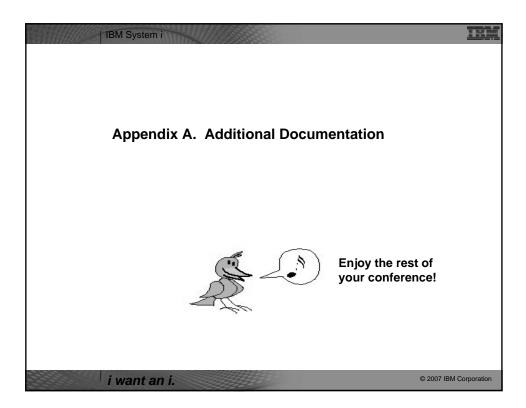


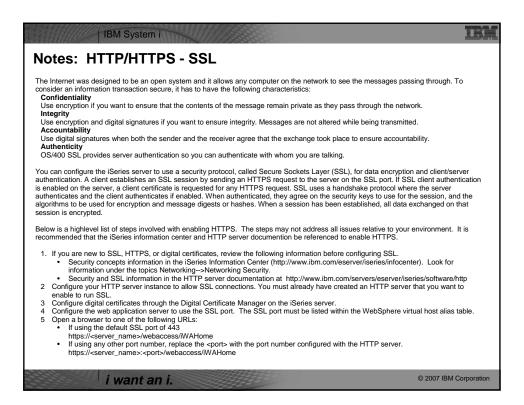
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Can get to this	Print	Setting Cleanup interval	Value	Description Specify how often to clean up connections.	1
via:	Messages	Connections per	No maximum	Specify the maximum number of concurrent	d
	Jobs 5250	user		connections allowed per user.	4
– Link on	Database	Maximum inactivity	1 hour 💌	Specify the maximum time a connection can be inactive before it is cleaned up.	
Connection	Files	Maximum	12 hours	Specify the maximum time a connection can exist before it is cleaned up.	1
Pool Status screen	Command	Maximum use	No maximum	Specify the maximum number of times a connection	1
	Download	count		can be used before it is cleaned up.	.1
Screen	Customize	Maximum use time	10 hours	Specify the maximum time a connection can be active before it is cleaned up.	
– Customize ->	Preferences Policies				1
Settings	Settings	Save Cancel	l Apply Shi	pped Defaults	
	Transfer configuration				
	Other				
	Related Links:				l
	 iSeries Access for Web 				
	iSeries Access iSeries Navigator				
	 iSeries Information 				P









IBM System i	IBM
Notes: Firewalls	
A firewall is a blockade between a secure internal network and an untrusted network such as the Internet. Most compar to connect an internal network safely to the Internet, although you can use a firewall to secure one internal network from	
A firewall provides a controlled single point of contact (called a chokepoint) between your secure internal network and the network. The firewall: • Lets users in your internal network use authorized resources that are located on the outside network. • Prevents unauthorized users on the outside network from using resources on your internal network.	ie untrusted
When you use a firewall as your gateway to the Internet (or other network), you reduce the risk to your internal network Using a firewall also makes administering network security easier because firewall functions carry out many of your sec directives.	
How a firewall works To understand how a firewall works, imagine that your network is a building to which you want to control access. Your b lobby as the only entry point. In this lobby, you have receptionists to welcome visitors, security guards to watch visitors, record visitor actions, and badge readers to authenticate visitors who enter the building.	
These measures may work well to control access to your building. But, if an unauthorized person succeeds in entering y have no way to protect the building against this intruder's actions. If you monitor the intruder's movements, however, yo to detect any suspicious activity from the intruder.	
Firewall components A firewall is a collection of hardware and software that, when used together, prevent unauthorized access to a portion of firewall consists of the following components: • Hardware. Firewall hardware usually consists of a separate computer or device dedicated to running the firewall soft • Software. Firewall software provides a variety of applications. In terms of network security, a firewall provides these through a variety of technologies: • Internet Protocol (IP) packet filtering • Network address translation (NAT) services • SOCKS server • Proxy servers for a variety of services such as HTTP, Telnet, FTP, and so forth • Mail relay services • Split Domain name services (DNS)	ware functions.
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300	IBM System i
	Notes: Firewalls (continued)
	 Logging Real-time monitoring Note: Some firewalls provide virtual private networking (VPN) services so that you can set up encrypted sessions between your firewall and other compatible firewalls.
	Using firewall technologies You can use the firewall proxy servers, SOCKS server, or NAT rules to provide internal users with safe access to services on the Internet. The proxy and SOCKS servers break TCP/IP connections at the firewall to hide internal network information from the untrusted network. The servers also provide additional logging capabilities.
	You can use NAT to provide Internet users with easy access to a public server behind the firewall. The firewall still protects your network because NAT hides your internal IP addresses.
	A firewall also can protect internal information by providing a DNS server for use by the firewall. In effect, you have two DNS servers: one that you use for data about the internal network, and one on the firewall for data about external networks and the firewall itself. This allows you to control outside access to information about your internal systems
	When you define your firewall strategy, you may think it is sufficient to prohibit everything that presents a risk for the organization and allow everything else. However, because computer criminals constantly create new attack methods, you must anticipate ways to prevent these attacks. As in the example of the building, you also need to monitor for signs that, somehow, someone has breached your defenses. Generally, it is much more damaging and costly to recover from a break-in than to prevent one.
	In the case of a firewall, your best strategy is to permit only those applications that you have tested and have confidence in. If you follow this strategy, you must exhaustively define the list of services you must run on your firewall. You can characterize each service by the direction of the connection (from inside to outside, or outside to inside). You should also list users who you will authorize to use each service and the machines that can issue a connection for it.
	What a firewall can do to protect your network You install a firewall between your network and your connection point to the Internet (or other untrusted network). The firewall then allows you to limit the points of entry into your network. A firewall provides a single point of contact (called a chokepoint) between your network and the Internet. Because you have a single point of contact, you have more control over which traffic to allow into and out of your network.
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Notes: Firewalls (continued)	
A firewall appears as a single address to the public. The firewall provides access to the untrusted network through proxy or SOCKS translation (NAT) while hiding your internal network addresses. Consequently, the firewall maintains the privacy of your internal netw your network private is one way in which the firewall makes an impersonation attack (spoofing) less likely.	
A firewall allows you to control traffic into and out of your network to minimize the risk of attack to your network. A firewall securely finetwork so that only specific types of traffic for specific destinations can enter. This minimizes the risk that someone could use TELN to gain access to your internal systems.	
What a firewall cannot do to protect your network	
While a firewall provides a tremendous amount of protection from certain kinds of attack, a firewall is only part of your total security s cannot necessarily protect data that you send over the Internet through applications such as SMTP mail, FTP, and TELNET. Unless anyone on the Internet can access it as it travels to its destination	
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