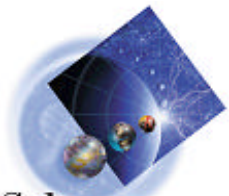


WebFacing 5250 Applications with WebSphere Development Studio Client Version 5.0

Claus Weiss
weiss@ca.ibm.com
IBM Toronto Laboratory

ITSO iSeries Technical Forum
SP18

Disclaimer



WebSphere
Development Studio
for iSeries

Acknowledgment:

- This presentation is a collaborative effort of the IBM Toronto iSeries Application Development presentation team, including work done by:
 - ▶ *Phil Coulthard, George Farr, Satish Gungabeesoon, John Steinbacher, Claus Weiss*

Disclaimer:

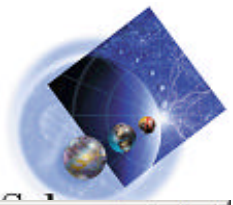
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WebFacing Before and After



AppSphere - Microsoft Internet Explorer

IBM Standard Software Installer | IBM Business Transformation | IBM Internal Help | Customize Links

/appsphere/servlet/com.ibm.as400ad.webfacing.runtime.httpcontroller.ControllerServlet?inv=APPCON

AppSphere

Cost Model Maintenance... Header

Customer	Color	Fob	Status	Change
1	ARG	ARG		<input type="checkbox"/>

Harmonizing : 6201.93.3000

Type information. Then press Enter.

Description...
ARGENTINA

Country : ARG 0000484

Mix % : _____

Htsus#/Harmonizing : 1111.11.1111

Approved by : _____

Approval date : _____

ARGENTINA


Country : ARG

Mix % : _____

Htsus#/Harmonizing : 1111.11.1111

Approved by : _____

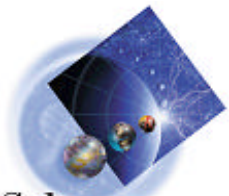
Approval date : _____



Done Internet



AGENDA



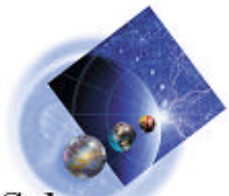
WebSphere
Development Studio
for iSeries

- **Webucation**
- **Introduction to WebFacing**
- **How WebFacing Works**
- **Development Time Tooling**
- **Sample Applications**

- **Demo**



AGENDA



WebSphere
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for iSeries

Webucation

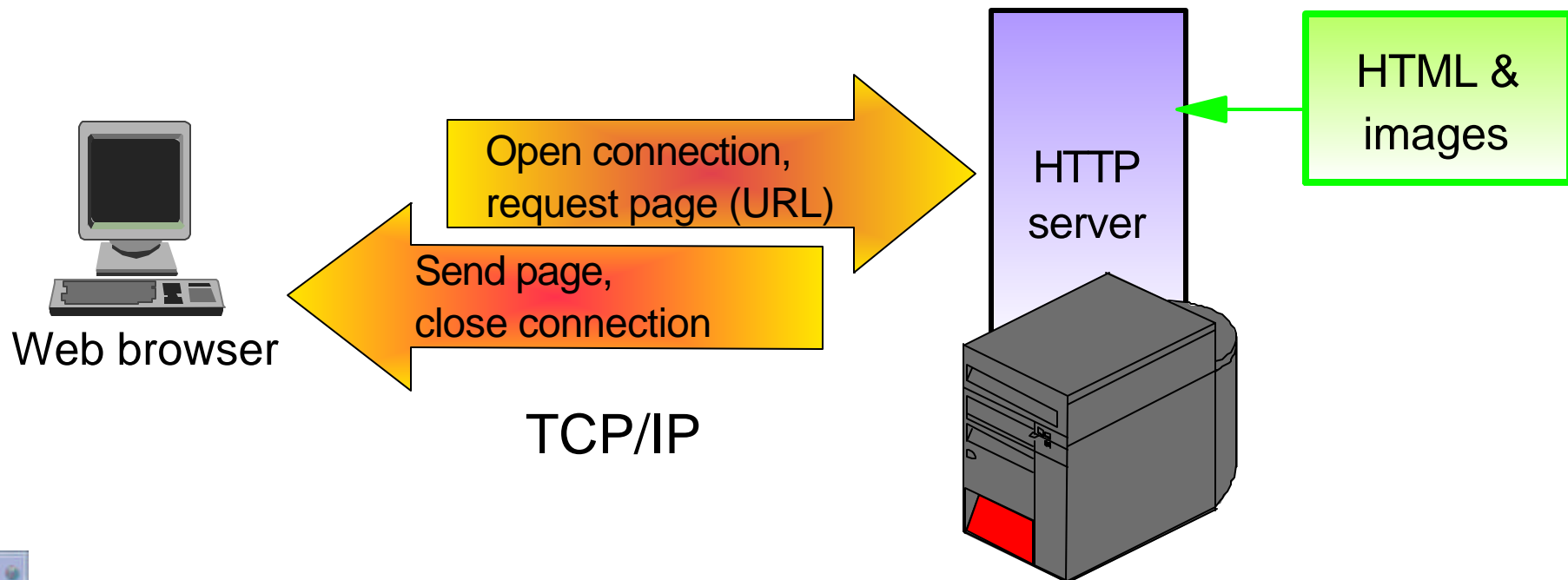
- ▶ Static Web
- ▶ Dynamic Web
- ▶ Application servers, servlets, JSPs, ...
- ▶ WebSphere Platform



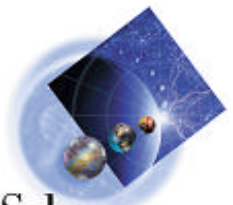
In the beginning ...

Static Web

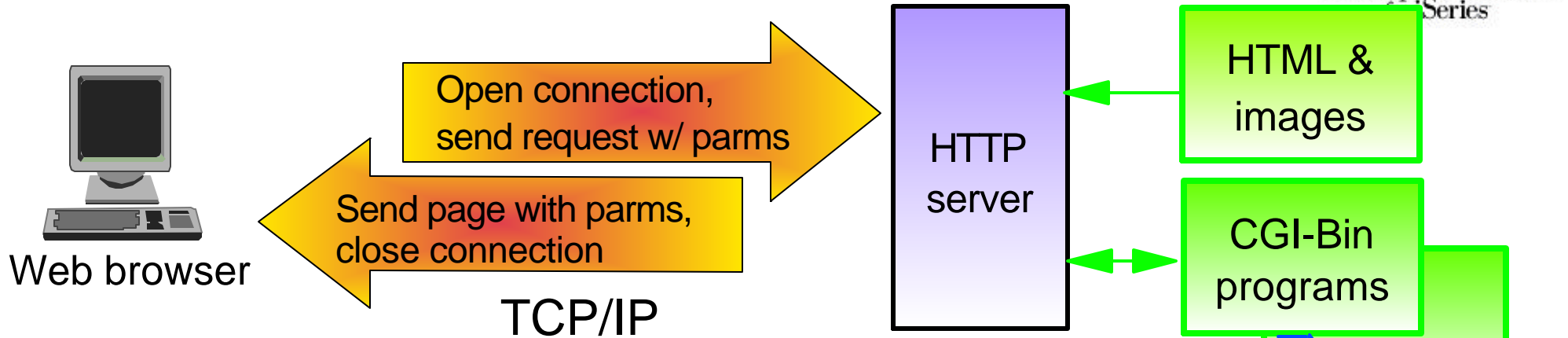
- No interaction with Web pages
- Web pages were pre-constructed



Dynamic Web...CGI Bin



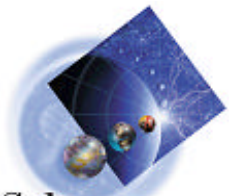
WebSphere
Development Studio
Series



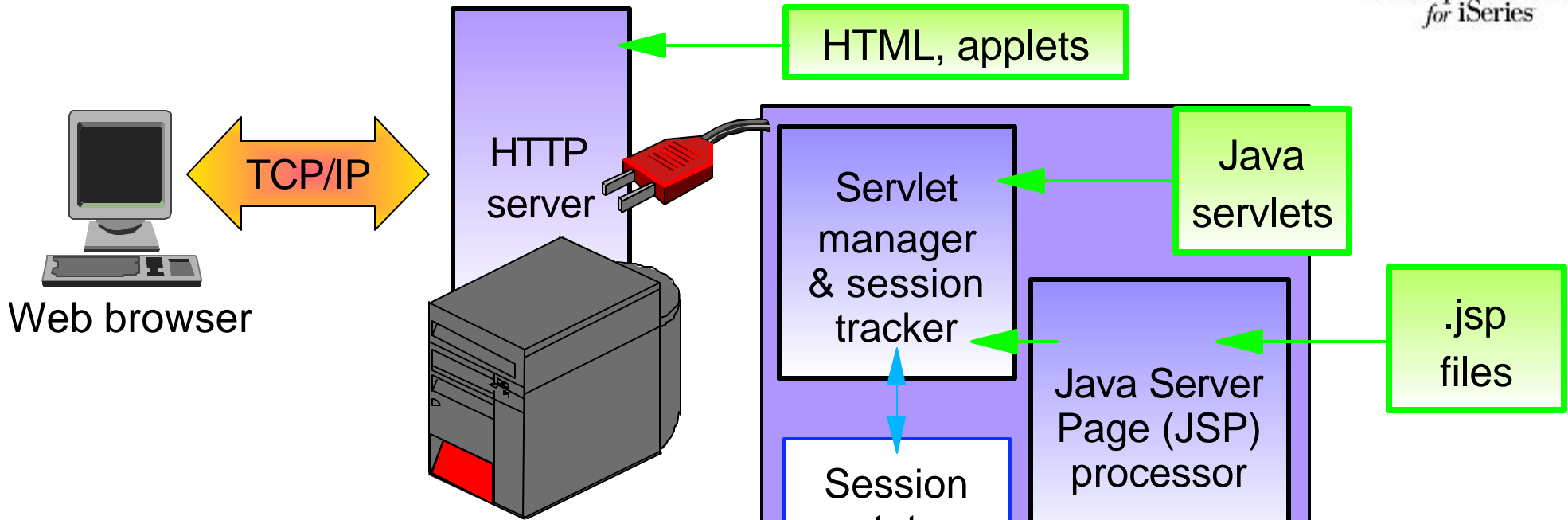
- Original way to create **interactive** HTML pages
- CGI programs process inputs and construct the result page
- Can get input from many sources:
 - URL and data entered on an HTML <FORM> are supplied as environment variables.
 - DB2/400, other programs, etc.
- Can be written in any of many languages - RPG !
- Similar to servlets (see later) but not as easy, not as portable, not as scalable



WebSphere App Server



WebSphere
Development Studio
for iSeries



- **WebSphere App Server** is:
 - A plug-in to the HTTP server for running Java servlets
 - Available on many platforms - OS/400, OS/390, NT, AIX, ...
- Version 3.5
 - **Standard Edition** - Servlets and JSPs ← ← ← **FREE on OS/400 !**
- **Version 4.0**
 - **Advanced Single Server Edition**
 - **Advanced Server Edition**



F03SP18_webfacng_V5_LGA.PRZ

WebFacing 5250 applications

Copyright IBM 2001. 2003

ibm.com/software/ad/iSeries

Servlets and JSPs



- **Servlets**

- A Java class plug-in to the application server
- Acts as the Web application controller
 - Processes and routes browser requests to Java helper objects

- **JavaServer Pages (JSPs)**

- Encapsulate the presentation (view) of the application
- Allows a clean separation between presentation and dynamic content
- Use Java scriptlets to reference Java beans for dynamic application data

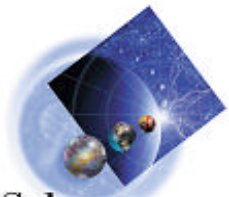
- **Java Beans**

- Encapsulate dynamic application data
- Populated by the servlet

Servlets , JSPs, and Beans are the resources of Web applications. They allow the generation of dynamic web pages.



JSP Programming model



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for iSeries

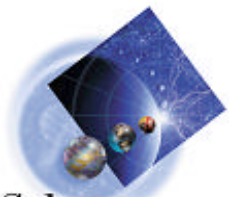
- Use **WebSphere Studio** or any editor to create an HTML file with imbedded Java code
- Store this file on the iSeries with a file extension of .jsp
- Access the file from your browser as you would any .html file
- The JSP processor will 'page compile' the .jsp file into a servlet that generates HTML. That servlet is then executed.
- Subsequent references to the .jsp file will automatically execute the servlet
- If the .jsp file is modified in any way, the JSP Page Compiler will be run again the next time it is accessed.

Sample .jsp file:

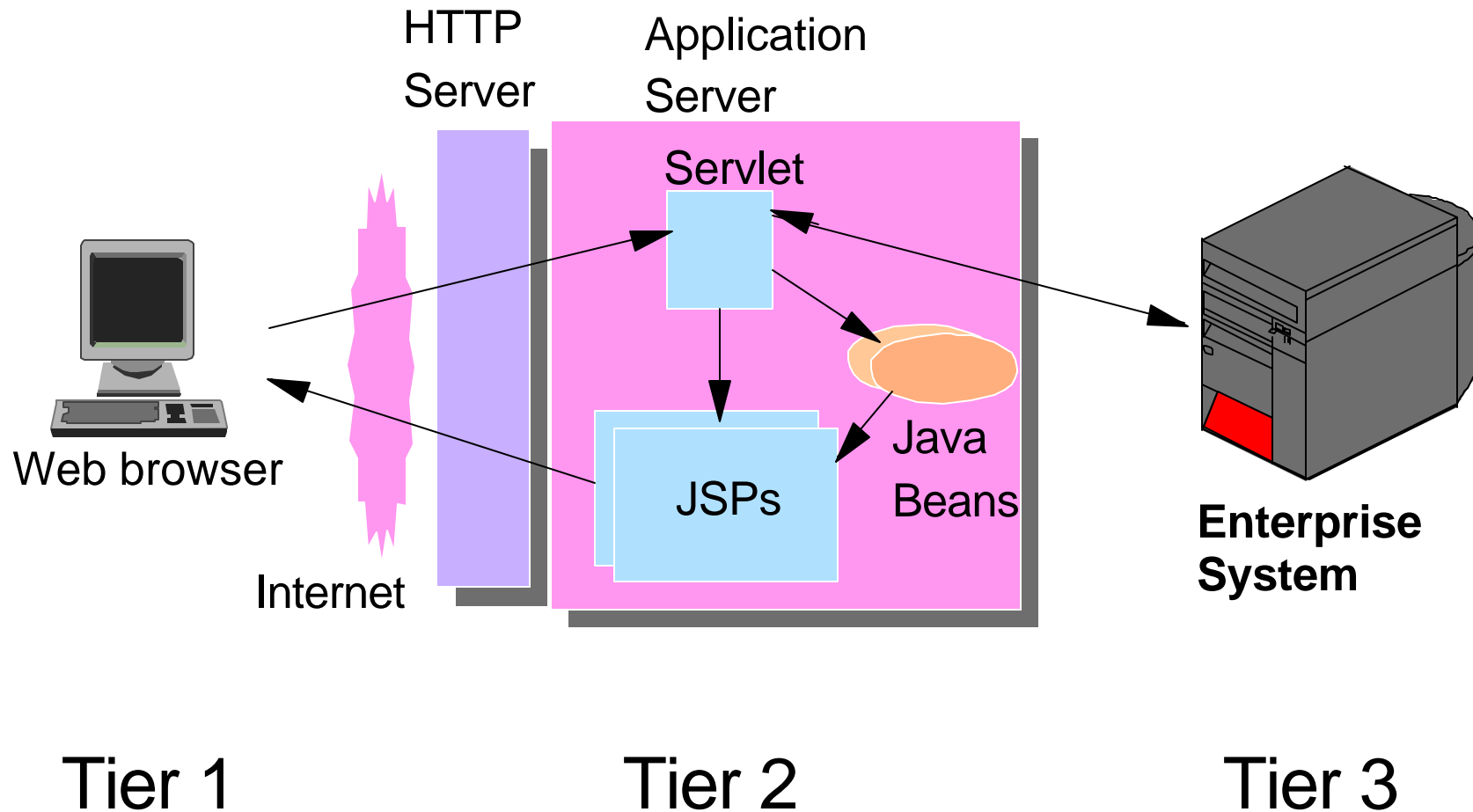
```
<html>
<head>
<title>My First Title</title>
</head>
<body>
<h1>My First Web Page</h1>
<ul>
<java>
for (int i = 0; i < 5; i++)
out.println ("<li>" + i);
</java>
</ul>
</body>
</html>
```



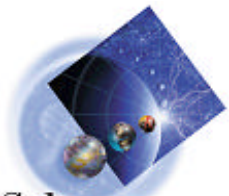
Web App Architecture



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AGENDA



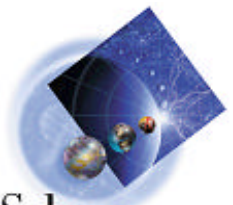
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Introduction to WebFacing

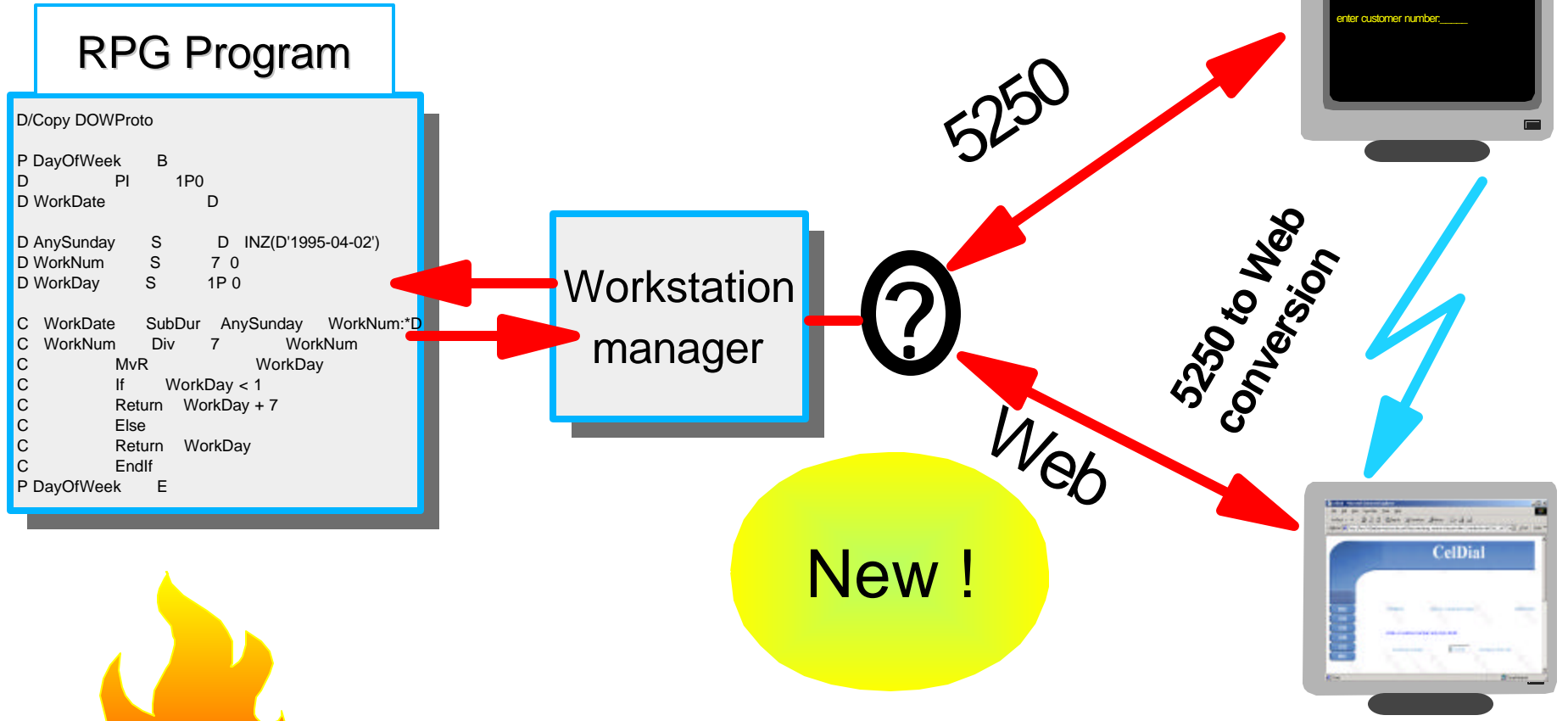
- ▶ What is WebFacing ?
- ▶ A quick example
- ▶ How do I get it ?
- ▶ What do I need ?
- ▶ Goals of WebFacing



What is WebFacing ?



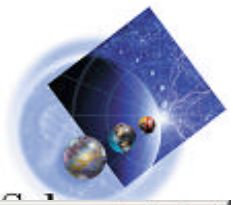
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Development Studio
for iSeries



You can use both the 5250 and web UI !
With no changes to the program



WebFacing Before and After



AppSphere - Microsoft Internet Explorer

IBM Standard Software Installer | IBM Business Transformation | IBM Internal Help | Customize Links

/appsphere/servlet/com.ibm.as400ad.webfacing.runtime.httpcontroller.ControllerServlet?inv=APPCON

AppSphere

Cost Model Maintenance... Header

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Type information. Then press Enter.

Description...
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Country : ARG 0000484

Mix % : _____

Htsus#/Harmonizing : 1111.11.1111

Approved by : _____

Approval date : _____

ARGENTINA


Country : ARG

Mix % : _____

Htsus#/Harmonizing : 1111.11.1111

Approved by : _____

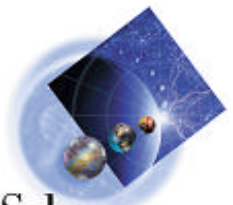
Approval date : _____



Done Internet



How Do I Get It ?



WebSphere
Development Studio
for iSeries

ONE PRODUCT: ALL TOOLS

- ▶ All host compilers and tools
 - ✓ RPG, COBOL, C, C++
 - ✓ ADTS (PDM, SEU, SDA, RLU, DFU)
- ▶ All client tools - unlimited

Announcing



WebSphere Development Studio

Client Version 5

New

- ✓ **WebSphere Studio Site Developer**
 - Remote System Explorer
 - iSeries extensions
 - **WebFacing**
- ✓ **Classic tools**
 - CODE/400
 - VisualAge for RPG

WebSphere[®] Development Studio for iSeries[™]



● 5722-WDS: V5R1/R2

● refresh code FC 5903

● ibm.com/software/ad/iSeries

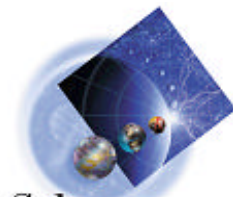
F03SP18_webfacing_V5_GA.PRZ

WebFacing 5250 applications

Copyright IBM 2001 . 2003

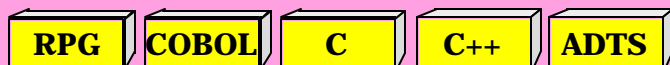
ibm.com/software/ad/iSeries

WebSphere Development Studio Client 5.0



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Development Studio
for iSeries

WebSphere Development Studio

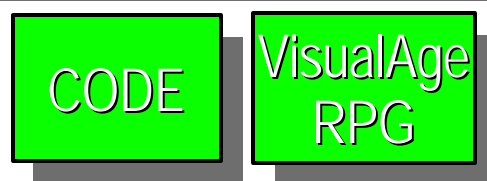
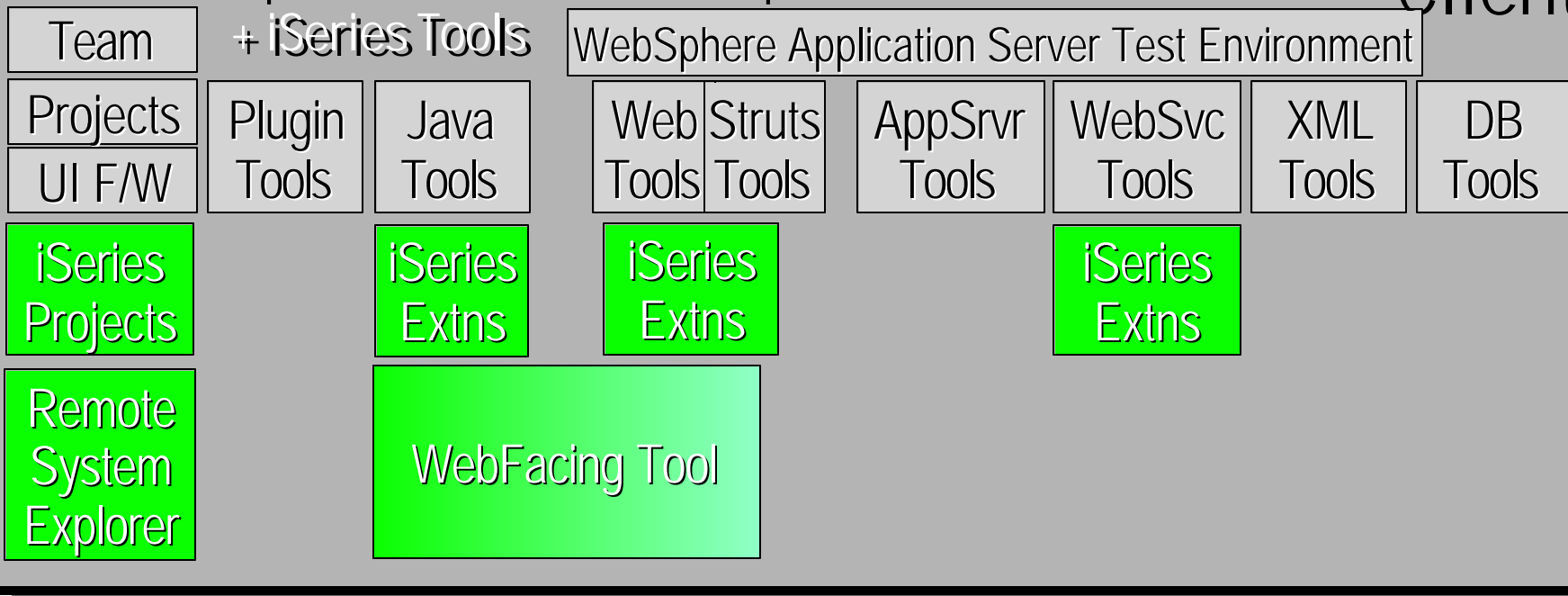


Host

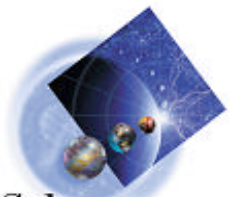


WebSphere Studio Site Developer

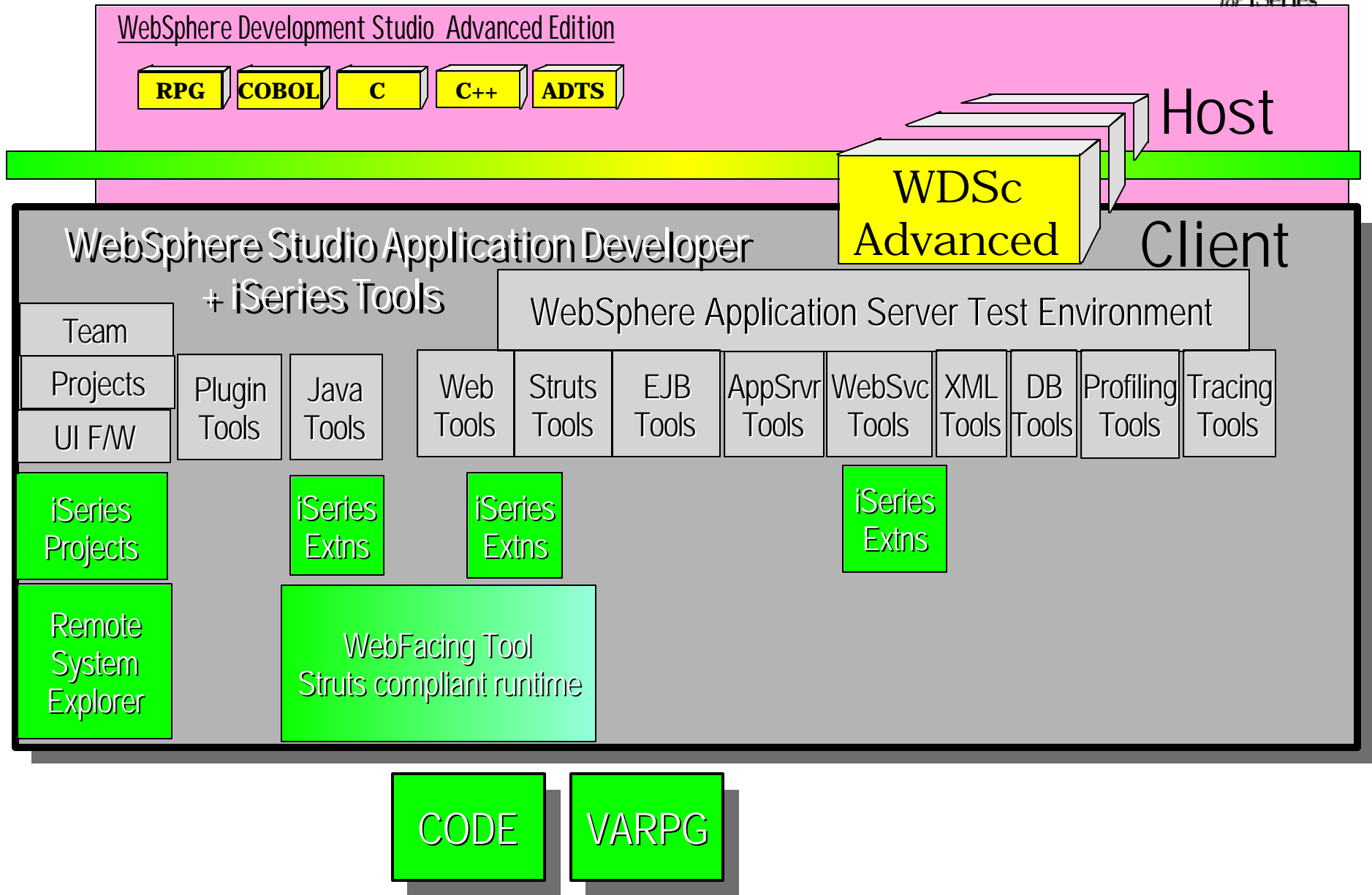
Client



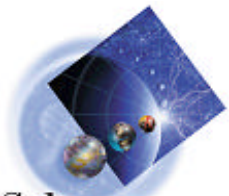
WDS*c* Advanced 5.0



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Development Studio
for iSeries



Goals of WebFacing



WebSphere
Development Studio
for iSeries

- ✓ **Quickly convert existing interactive applications into **web apps****
 - Browser based user interface
 - Minimal change to underlying applications
 - Minimal initial investment in skills

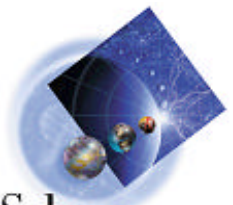
- ✓ **Allow iterative **improvement** for the Web**

- ✓ **Introduce no new costs to application stack price**



To change the face of the iSeries

WebFacing tool



WebSphere
Development Studio
for iSeries

✓ V5R1: "First Edition"

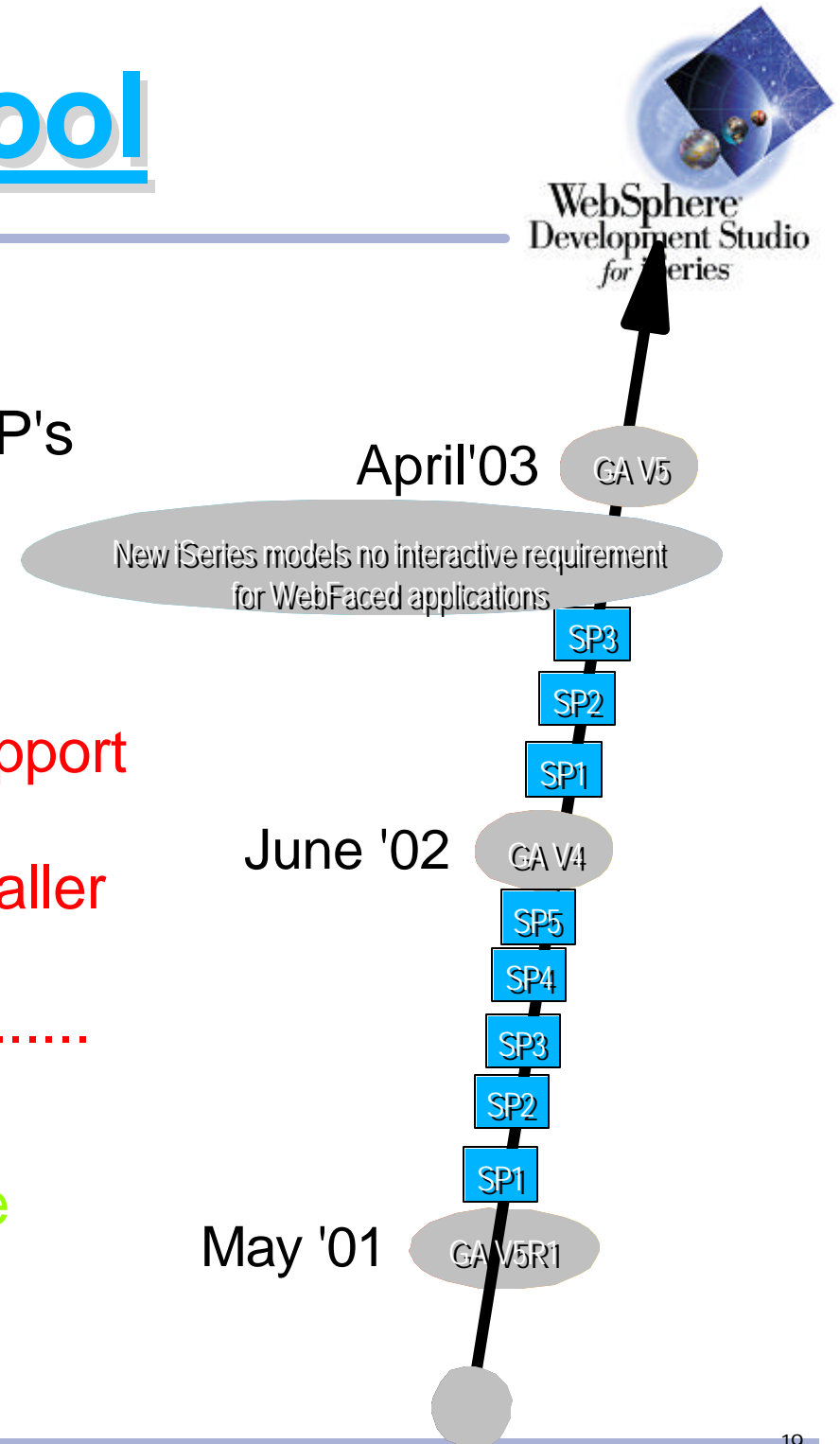
- ▶ Base function
- ▶ Many improvements thru SP's

✓ Version 4

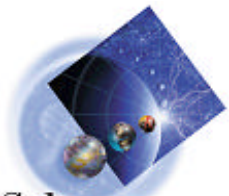
- ▶ Support for UIM help
- ▶ Improved Style support
- ▶ Improved authentication support
- ▶ Function key support
- ▶ Improved performance (smaller footprint)
- ▶ Better runtime support

✓ Version 5

- ▶ Better runtime performance
- ▶ Scalability enhancements
- ▶ Struts support
- ▶ Work SpoolFile support



AGENDA



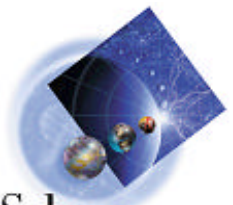
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How WebFacing Works

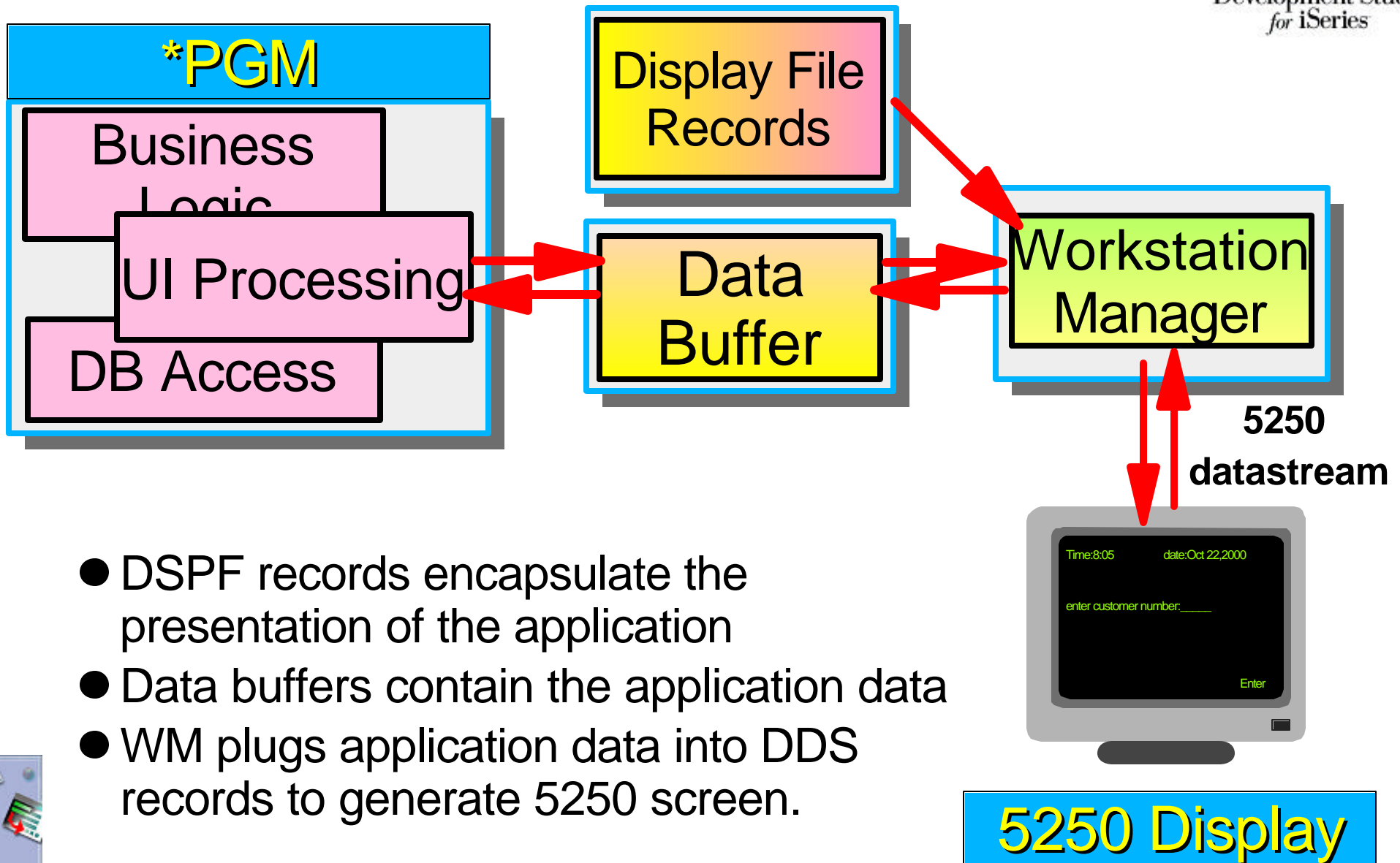
- ▶ Development time: Converting DDS --> JSPs
- ▶ Runtime: Putting the pieces together...



Interactive *PGM Model



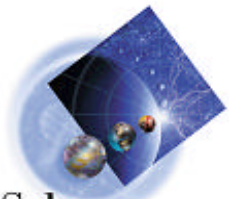
WebSphere
Development Studio
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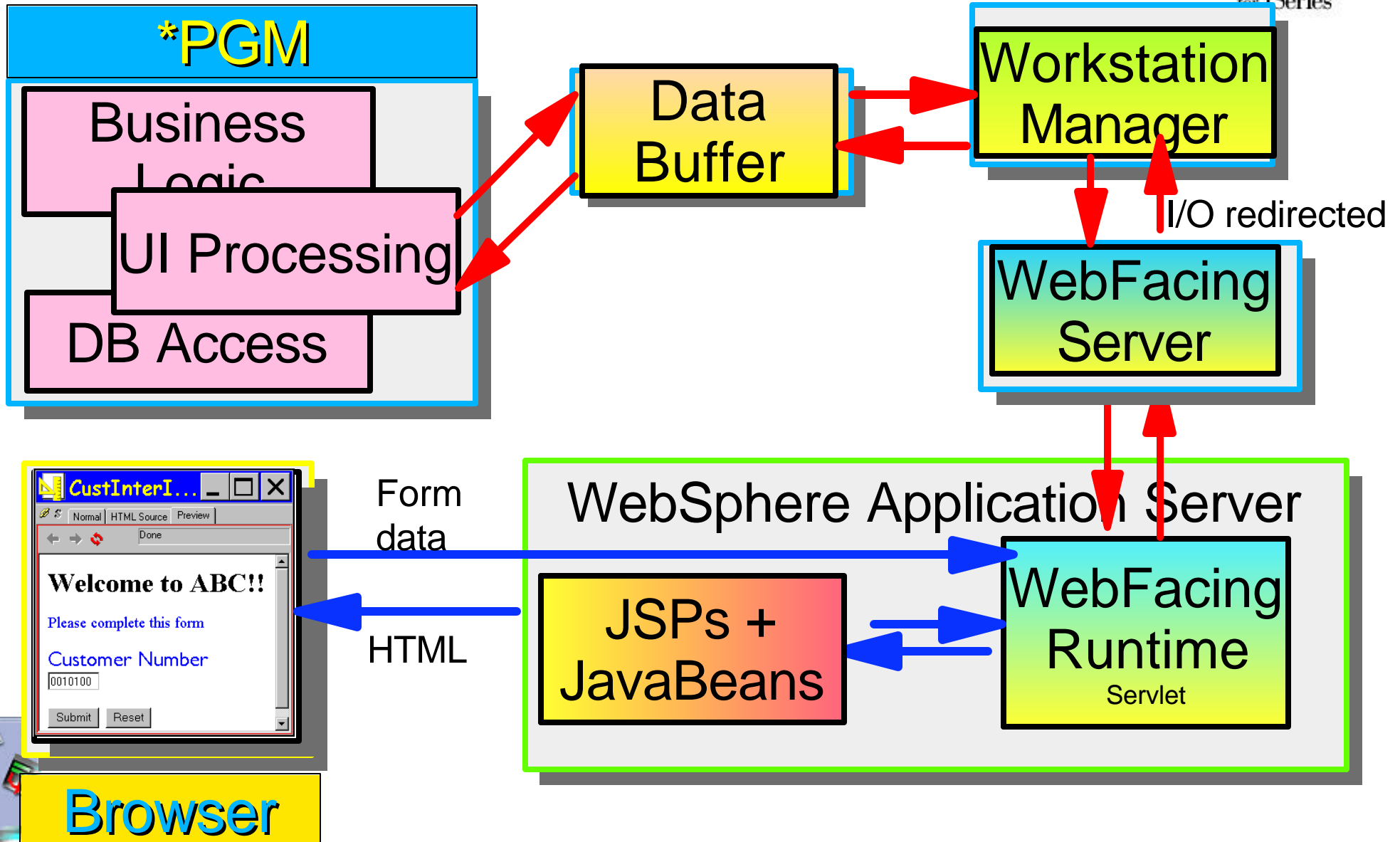
- DSPF records encapsulate the presentation of the application
- Data buffers contain the application data
- WM plugs application data into DDS records to generate 5250 screen.



WebFacing Model



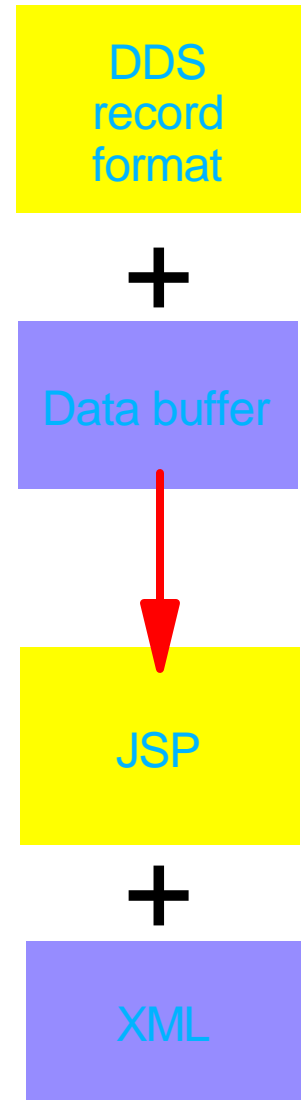
WebSphere
Development Studio
iSeries



Convert DDS to JSPs & Beans



- ▶ **Development time wizard:**
 - **Converts DDS to JSPs:**
 - ▶ **Select DDS members to convert**
 - ▶ **Creates Java server page and XML descriptions per record format:**
 - ✓ XML describes data, view, and feedback for record format
 - ✓ JSP displays output and prompts for input
 - ▶ **Select from various look-and-feels**
 - **Creates an "invocation page" per conversion project: (index.html)**
 - ▶ **Web page with links**
 - ▶ **Each link results in starting a job, running a user-supplied CL command which starts the application**



WebFacing Runtime

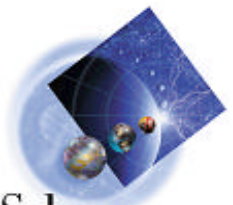


● WebFacing Servlet Runtime

- ▶ Called by generated Invocation Web Page
- ▶ Starts iSeries job, calls your application
 - Using invocation and signon information supplied in the web application. (Password is encrypted)
 - Operating system recognizes special WebFacing mode
 - Redirects writes and reads of DSPF to WebFacing servlet, via the WebFacing server
- ▶ Maps *PGM "writes" and "reads" to previously generated JSPs
 - Merges multiple writes into single JSP
 - On "read" sends merged JSP to user, waits for "Submit" from the browser
 - Returns input data to waiting *PGM

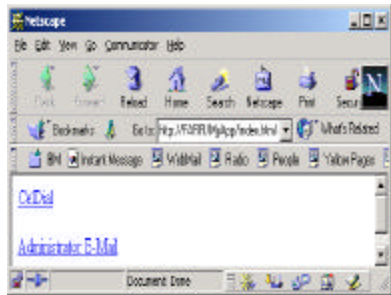


How does it all work?



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for iSeries

Tier 1

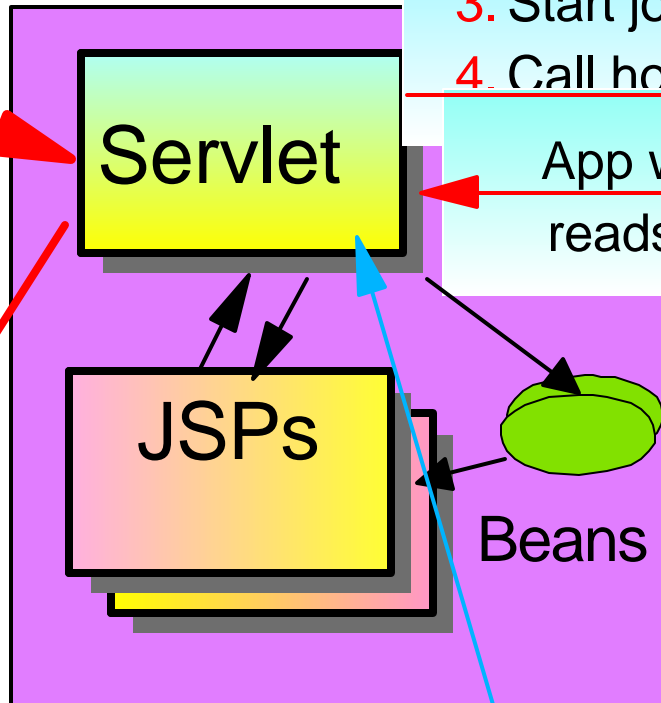


User issues the URL:
http://server:port/web-path/index.html



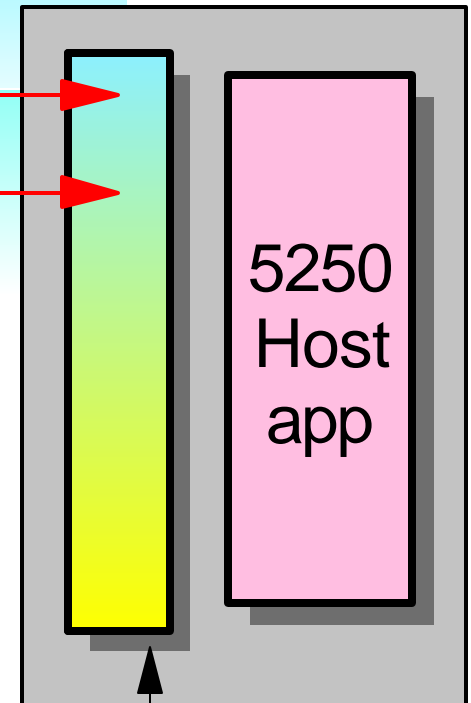
JSP page output.
User enters data, and
presses Submit...

Tier 2



1. Open socket
2. Flip WM switch
3. Start job
4. Call host app

Tier 3



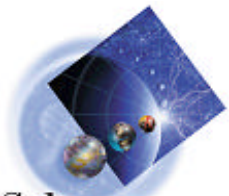
App writes,
reads data

WebFacing
Server

WebFacing
Runtime



AGENDA



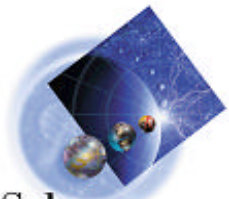
WebSphere
Development Studio
for iSeries

Development Time Tooling

- ▶ Create WebFacing Project wizard
- ▶ Publishing information
- ▶ Deployment to WebSphere Application Server
- ▶ Test it out !



What are the steps?.....

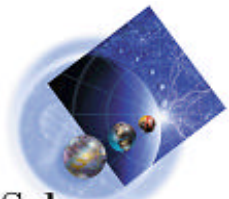


WebSphere
Development Studio
for iSeries

- Start the WDS Sc workbench
- Open WebFacing perspective
- Run the Create WebFacing Project wizard
 - Select DDS Source on server
 - Specify the CL command used to start the app and the text for the Web page link
 - Select style
- Convert DDS to JSPs, XML



What are the steps?



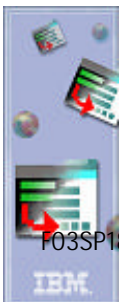
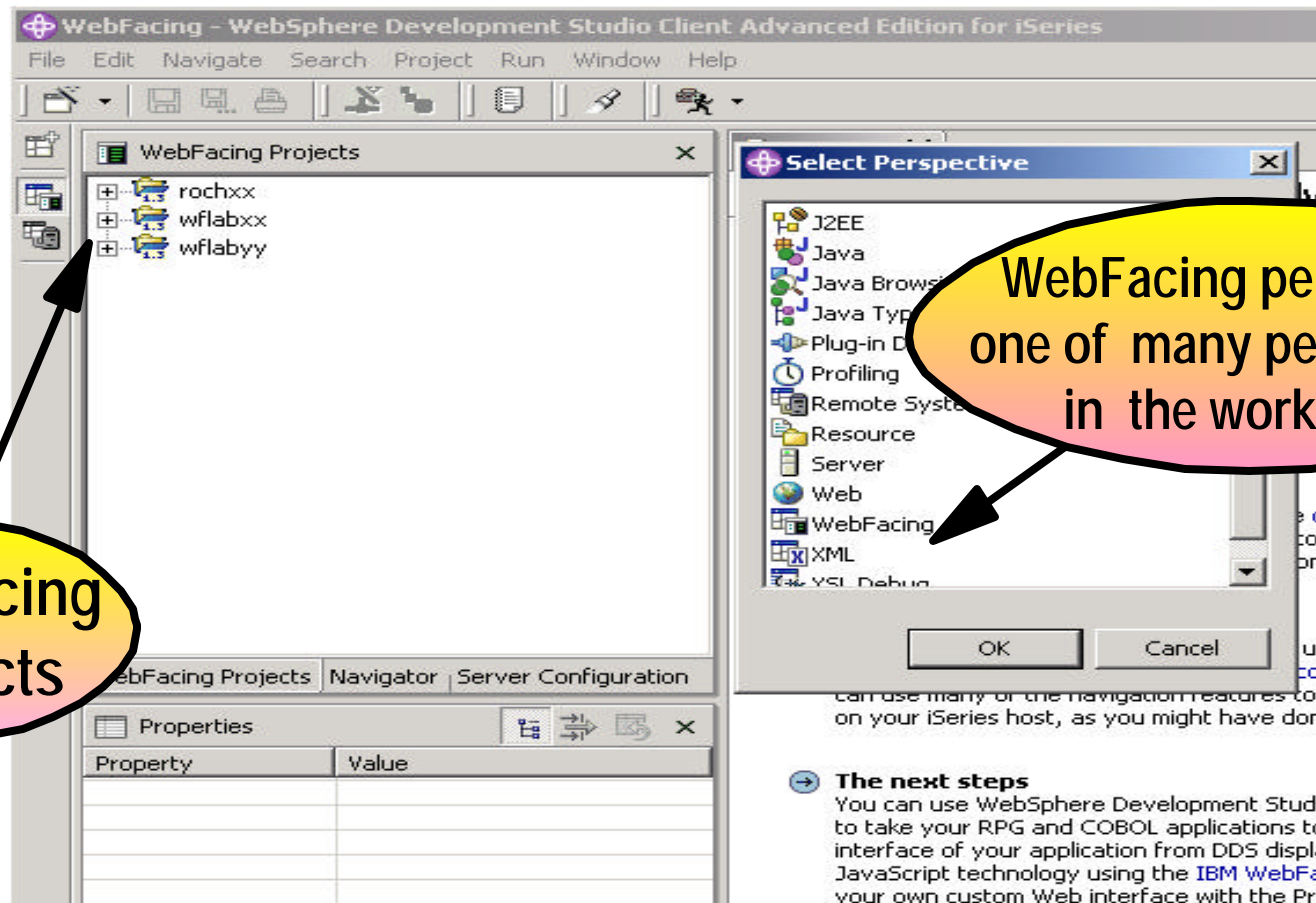
WebSphere
Development Studio
for iSeries

- Run on server in workbench test environment
- I nvoke the first page - I nvocation page = index.html
- Test the WebFaced application
- I teratively improve the look ...
- Test on remote server
- Move to production server

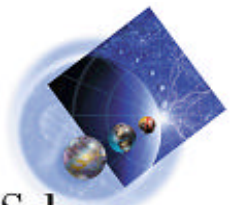


WebFacing perspective

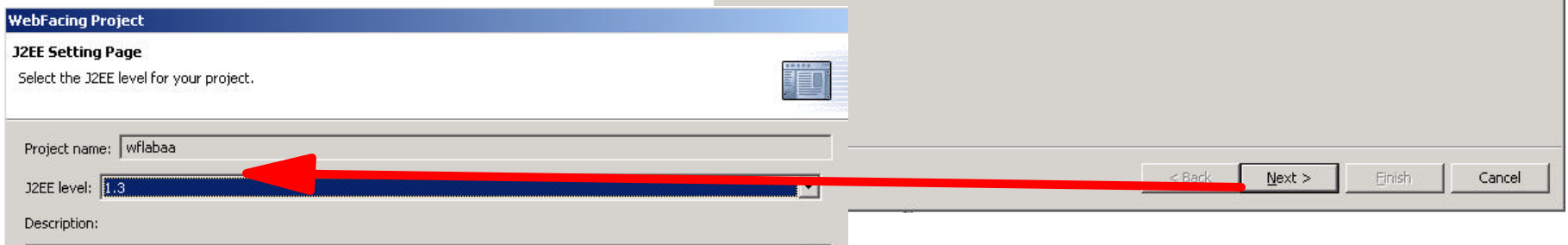
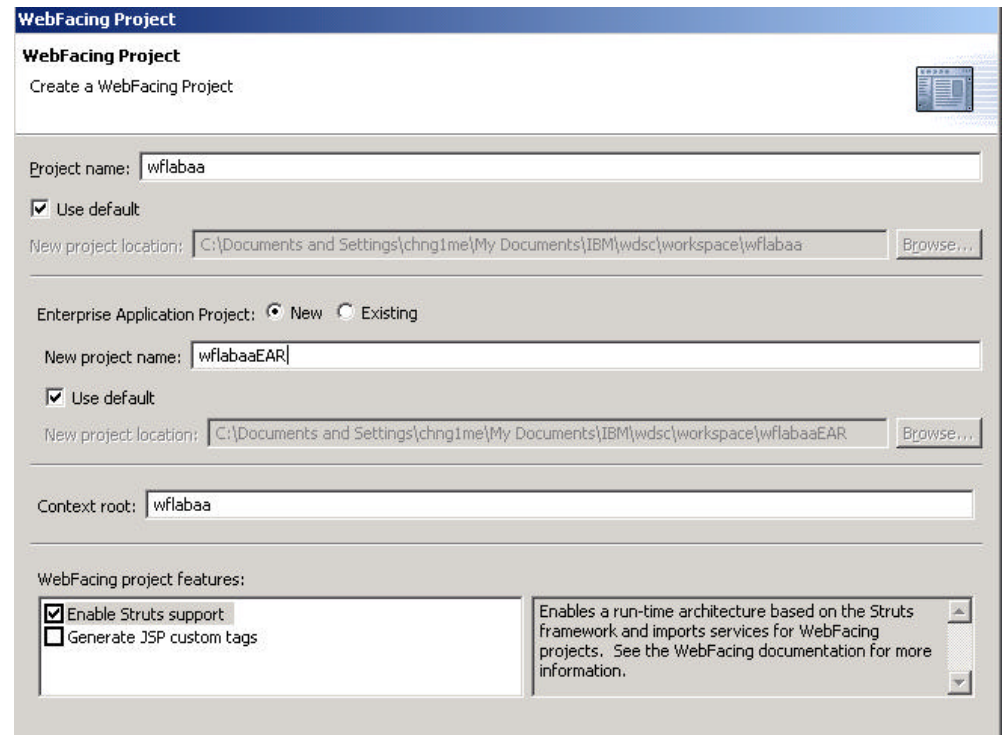
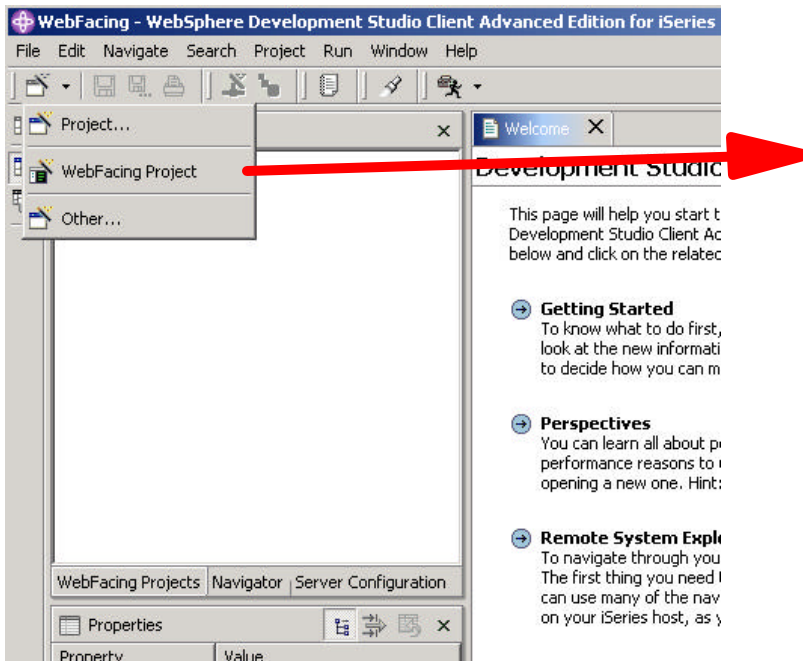
Fully integrated into WDS Sc workbench



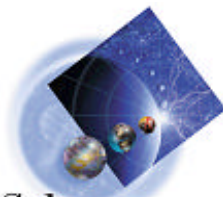
Create a New Project !



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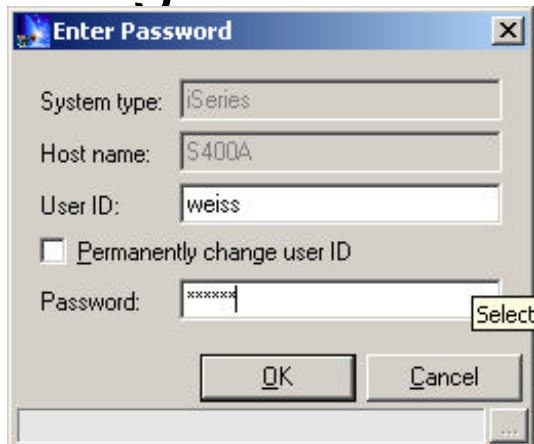


Select DDS source

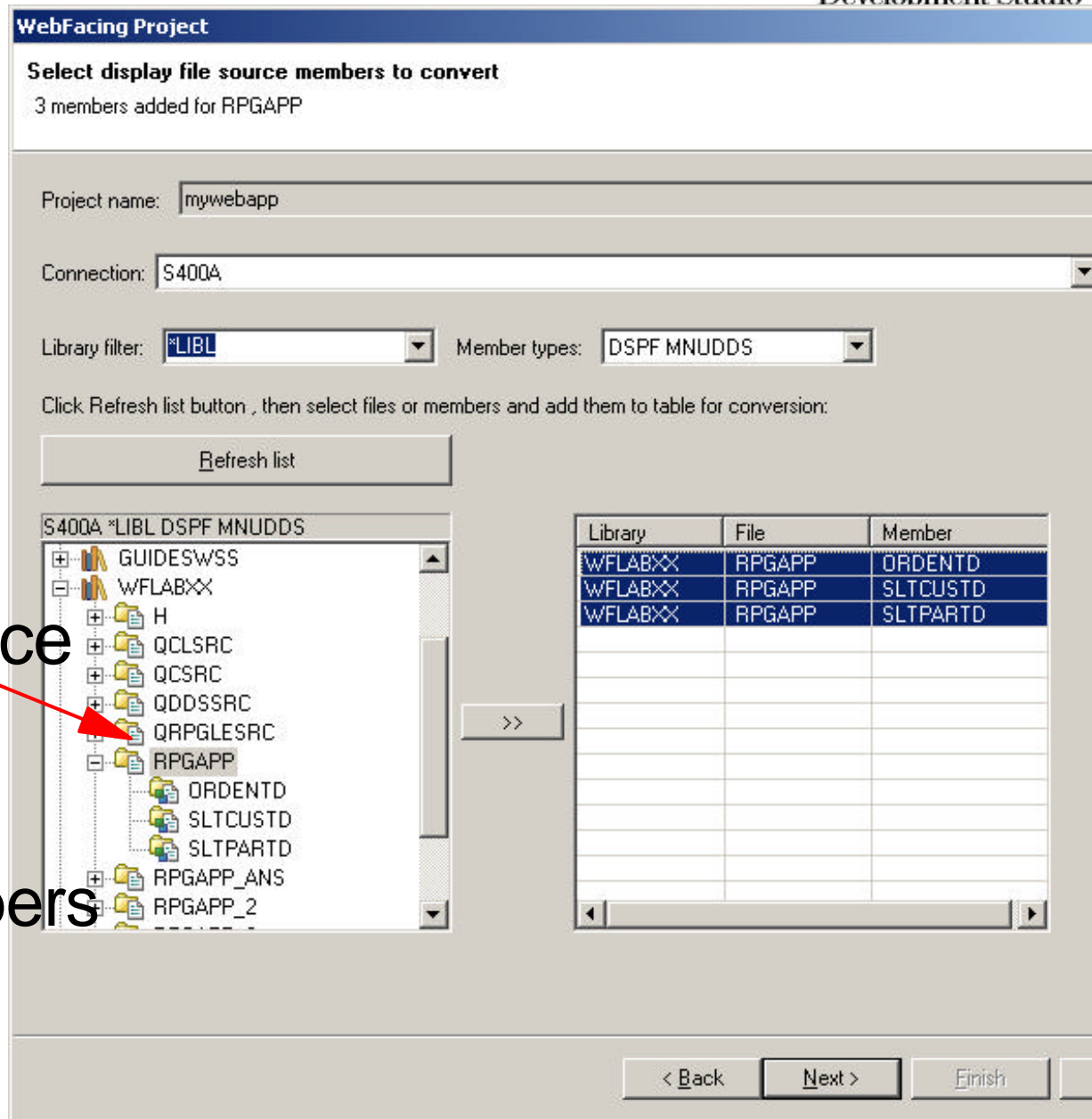


WebSphere
Development Studio

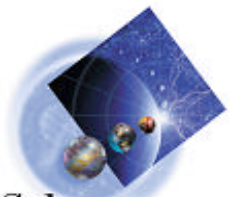
- Select server
- Sign on



- Select DDS source
 - all members
 - or
 - selected members



Command to Call App



WebSphere
Development Studio
for iSeries

WebFacing Project

Specify CL commands

Enter the CL commands that are used in your application, the command labels you want to use, and the signon preference for the generated hypertext links.

Project name:

WebFacing generates hypertext links that you can use to launch your application from the web. In order to do this, it needs to know the text that will be shown for each link and the CL command that each link will invoke. On this page you can define multiple links, in case several CL commands are used to launch your application.

If your program requires interactive parameters you should also enter them in the command line. For example: to invoke program MYPGM with a part number parameter, you would enter CALL MYPGM PARM('&part') as the CL command. The variable "&part" will be replaced when you click on the invocation link. For details, refer to the generated index.html file.

CL command:

Command label:

Prompt for signon

Sign on with specified values

User ID:

Password: Confirm password:

CL Command	Command Label	User ID
CALL ORDENTR	Order Entry Applica...	WEISS

CL command

Text for web page link

Authentication

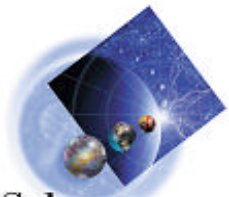
always prompt

or

use predefined

userid/Password

Select Presentation Style



WebSphere
Development Studio
for iSeries

WebFacing Project

Choose a Web style

Select a "Look and Feel" style to use for the project.



Select a predefined or previously customized style:

avenue
corporate1
fun
gradient
sage
sage1



< Back

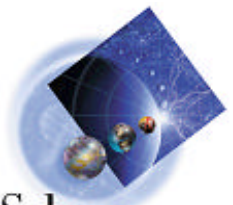
Next >

Finish

Cancel

- Cascading style sheets
- Sample styles that you can modify !

Done!



WebSphere
Development Studio
for iSeries

WebFacing Project

Complete WebFacing project

You have indicated the specifications for your new WebFacing project. To continue, click Finish.



You are about to create a WebFacing project.
Do you also want to convert the selected display files?

- Yes. I want to create the project and proceed with conversion now.
- No. I only want to create the project now.

Create project

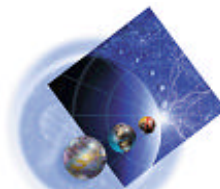
< Back

Next >

Finish

Cancel

Convert DDS to JSPs



WebSphere
Development Studio
for iSeries

WebFacing - Development Studio Client

File Edit Perspective Project Window Help

WebFacing Projects

- appcon
- wflab
- mywebapp
 - CL Commands
 - Order entry application
 - Convert
 - View Log
 - Properties

Progress Information

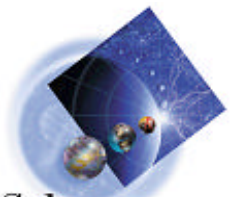
Importing...

Importing...
D:\WDSC\WSSD\workspace\metadata\plugins\com.ibm.etools.iseries.webfacing\tmp76-

Cancel

- Select all selected DDS source members
- or
- select single members to convert
- Remember all record formats touched in the application have to be WebFaced

Conversion Log



WebSphere
Development Studio
for iSeries

Report of problems during conversion

The screenshot shows the WebSphere Development Studio interface. The main window displays the 'DSPF Conversion Log' for 'mywebapp Log'. The log is divided into three sections: DSPF's, Records, and Errors.

DSPF's
This section lists all display files that have been converted.

- ✓ ⚠ WFLABXX/RPGAPP(ORDENTD)
- ✓ ⚠ WFLABXX/RPGAPP(SLTCUSTD)
- ✓ ⚠ WFLABXX/RPGAPP(SLTPARTD)

Records
This section lists all the converted display file.

- ✓ ✓ PROMPT
- ✓ ✓ ORDSFL
- ✓ ✓ ORDCTL
- ✓ ⚠ ALTORDER
- ✓ ⚠ FKEY

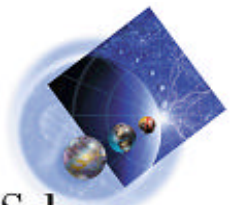
Errors
This section lists all errors for the selected object.

All messages
 Compile messages only
 Conversion messages only

Message ID	Line	Severity	Message Text
DDX0040	99	Informational	Function key labels were detected and replaced

Overview | Referenced Keywords | DSPF Conversion Log | UIM Help Conversion Log

Conversion Log



WebSphere
Development Studio
for iSeries

Referenced keywords list

File Edit Perspective Project Window Help

WebFacing Projects

- appcon
- wflab
- mywebapp
 - CL Commands
 - Order entry application
 - DDS
 - <S400A>WFLABXX/RPGAPP(ORDENTD)
 - <S400A>WFLABXX/RPGAPP(SLTCUSTD)
 - <S400A>WFLABXX/RPGAPP(SLTPARTD)
 - UIM Help
 - Style
 - gradient

Referenced Keywords

Display Files

This section lists all display files in the project.

- WFLABXX/RPGAPP(ORDENTD)
- WFLABXX/RPGAPP(SLTCUSTD)
- WFLABXX/RPGAPP(SLTPARTD)

Keywords

This section lists all keywords referenced by the selected files.

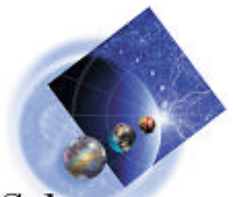
Keyword Details:

- CA04
- CA12
- HELP
- ALTHELP
- ERRSFL
- CA03
- OVERLAY
- DFT
- DSPATR
- COLOR
- REFFLD
- ERRMSG
- TEXT
- EDTCDE
- SFI

Supported
Partially supported
Blank - Not supported

Overview Referenced Keywords DSPF Conversion Log UIM Help Conversion Log

Generated Output



WebSphere
Development Studio
for iSeries

Java
beans

Command
to call

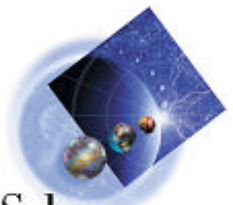
JSPs

JSP
source

Double
click on jsp
file and
page
designer
starts
Full
integration
with all
workbench
tools

Almost
done !

The screenshot shows the WebSphere Development Studio interface. On the left, the Navigator pane displays a project structure with folders like 'source', 'webApplication', 'ClientScript', 'images', 'RecordJSPs', 'WFLABXX', 'RPGAPP', and 'ORDENTD'. Under 'ORDENTD', several JSP files are listed, including 'ORDCTL.jsp'. A red arrow points from the 'JSPs' label to this file. The Properties pane below shows details for the selected file, such as 'contentType: text/html; charset=UTF-8'. The main editor window shows the source code of 'ORDCTL.jsp', which includes a page directive, HTML tags, and a JSP useBean tag: `<jsp:useBean id='ORDCTL' scope='session' type='com.ibm...'`. A red circle highlights the 'JSP source' label over the code editor.



Update Server Information

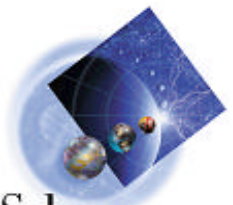
Properties on project level and Command level (link)

The screenshot shows the 'WebFacing - Development Studio Client' interface. On the left, a tree view shows a project named 'mywebapp' selected. A context menu is open over it, with 'Properties' highlighted. The main window displays the 'Properties for mywebapp' dialog box. The 'Project' tab is active, showing settings for the converted web application. The 'Host name' is 'S400A' and the 'Host port' is '4004'. There are checkboxes for 'Retain user ID and password for subsequent sign-ons' (unchecked) and 'Prompt for sign-on' (checked). Below these are fields for 'User id', 'Password', and 'Confirm password'. A dropdown menu for 'Error detail level(1-3)' is set to '3'. At the bottom, there is a checkbox for 'Use fixed height for the converted web page'.

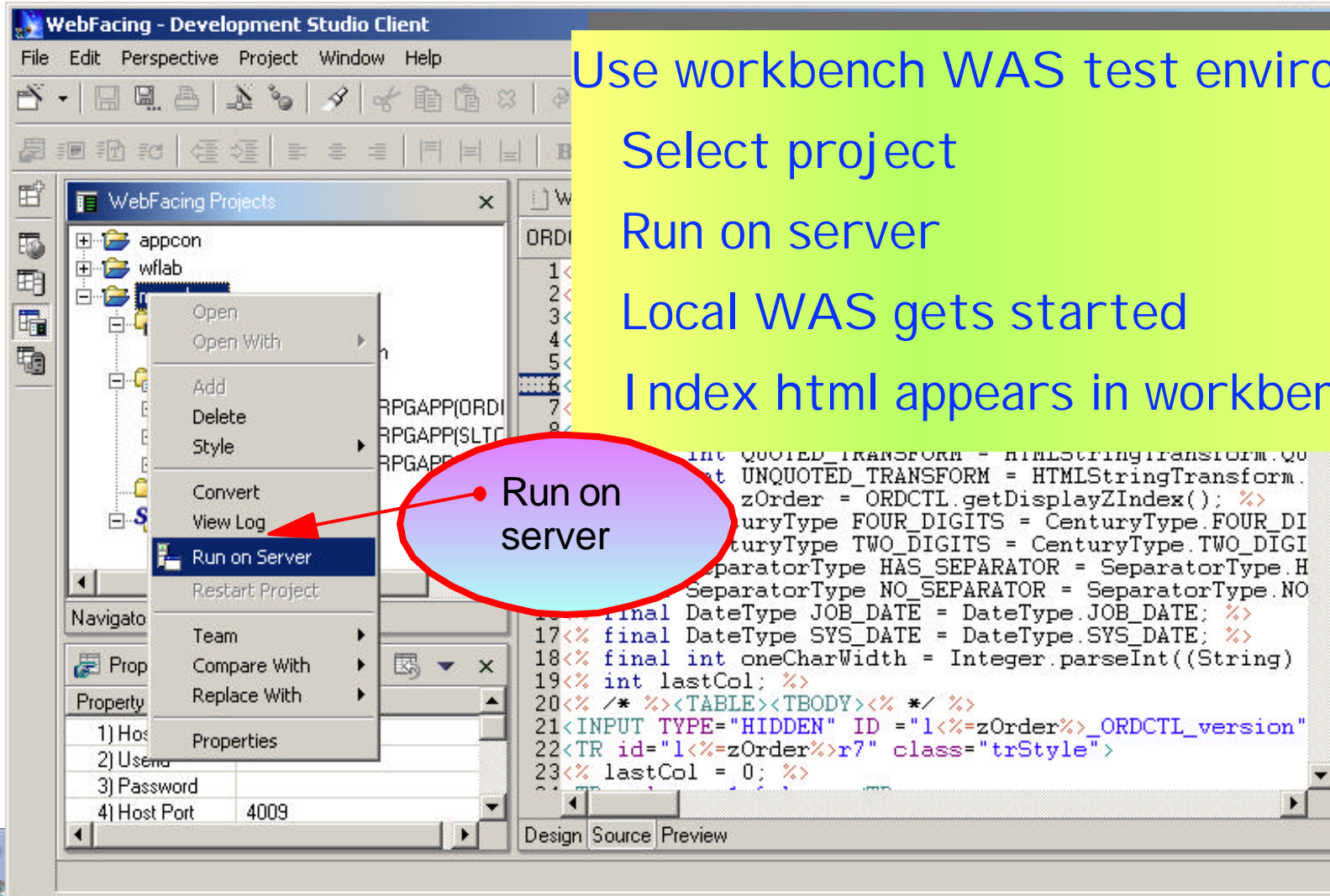
Sign on once per application

WebFacing server port number default 4004

Ready to run



WebSphere
Development Studio
for iSeries



Use workbench WAS test environment

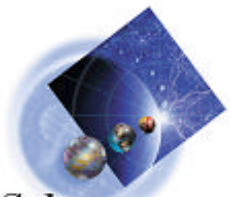
Select project

Run on server

Local WAS gets started

Index.html appears in workbench browser

The Invocation Page



WebSphere
Development Studio
for iSeries

The screenshot shows the WebSphere Development Studio Client Advanced Edition for iSeries interface. The main window displays a web browser with the URL `http://localhost:9080/wflabxx/`. The browser content shows the following text:

Links for Program : "CALL ORDENTR"

[Order Entry Application - Launch in main browser window](#)

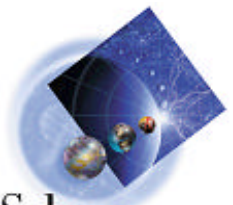
[Order Entry Application - Launch in a new browser window](#)

The left pane shows the project structure for 'wflabxx', including folders for 'CL Commands', 'DDS', 'UIM Help', and 'Style', along with files like 'index.html' and 'logon.html'. The bottom pane shows the 'Properties' table for the selected project:

Property	Value
01) Host	S400A
02) Userid	
03) Password	
04) Host Port	4007
05) Fixed Height	false
06) Administrat...	admin@ibm.com

- Test invocation page (index.html) is generated automatically during conversion
- Invocation page URL is used when **Run on Server** is selected
- Click on a CL command link to start application

Run the App !



WebSphere
Development Studio

Start my order entry program - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites History Print

Links IBM Standard Software IBM Standard Software Installer IBM Business Transformation IBM Internal Help Customize Links

Address http://s105bm4m/WebFacing/servlet/com.ibm.as400ad.webfacing.runtime.httpcontroller.ControllerServlet?inv=cl507247 Go

Start my order entry program

Parts Order Entry

Enter
Cancel
HELP

Type choices, press Enter.
2=Change

Customer number
Customer name
Address
City

Opt Part

000001 WEBS
[2] F4=Promp F12=Cancel

Select Part

Type choices, press Enter.
1=Select

Opt Part	Description	Qty
<input type="checkbox"/>	000081 Cross_Country_Ski_Set	65
<input type="checkbox"/>	000082 Magical_Mystery_Maze	88
<input type="checkbox"/>	000083 Fireplace_Tools	90
<input type="checkbox"/>	000084 VCR_Road_Warrior_Game	75
<input type="checkbox"/>	000085 While_You_Were_Gone_Memo	71
<input type="checkbox"/>	000086 Pebble_Beach_Poster	87
<input type="checkbox"/>	000087 32_Gal._Keg_Beer	96
<input type="checkbox"/>	000088 Doll_House_Furniture	87
<input type="checkbox"/>	000089 VCR_Road_Warrior_Game	51
<input type="checkbox"/>	000090 8_Foot_Plant_Pole	97

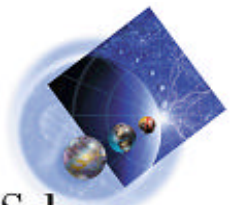
F12=Cancel

F3=Exit F4=Prompt F6=Accept Order F12=Cancel

Windows !



Deploy to remote Server



WebSphere
Development Studio
for iSeries

File → Export

Export

Select

The following wizards are available:

Select an export destination:

- App Client JAR file
- EAR file**
- EJB JAR file
- Export Symptom Database
- File system
- FTP
- JAR file
- Javadoc
- JAR file
- Remote file system
- Team Project Set
- WAR file
- Web Service
- Zip file

Export

EAR Export

Export Enterprise Application project to the local file system.

What resources do you want to export?

labxxEAR

Where do you want to export resources to?

e:\qibm\userdata\mywebapp.ear

Options:

- Export source files
- Overwrite existing resources without warning

Ready to run!

EAR
WAR
or other
file
formats



Use WAS ADMIN console to create application



Customizing Your Results

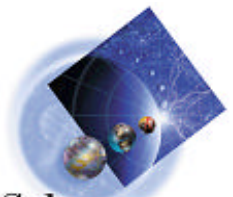


Three options for customizing results:

1. Use CODE Designer *before* conversion to add links or images, or hide/change fields
 - ✓ Saves information in comments, used by conversion
 - ✓ You can also extend our conversion code with your own!
2. Change the cascading style sheets
 - ✓ Or build your own !
3. Use Page Designer in Studio *after* to edit JSPs
 - ✓ But changes to application area lost on next conversion
 - ✓ Conversion will backup previous JSPs, so you can manually merge if you desire



Web Settings



WebSphere
Development Studio
eries

- ✓ Customizing at pre-conversion
 - Web Settings saved as DDS comments

The screenshot shows the WebSphere Development Studio interface. The top pane displays DDS source code for a 'Customer List' screen. The bottom pane shows the 'Web Settings' dialog for the selected DDS object. In the 'Web Settings' dialog, the 'Create hyperlink' checkbox is checked and circled in red. The 'Function key' dropdown is set to 'ENTER' and is also circled in green. A red arrow points from the 'Create hyperlink' setting to the first column of the input field in the source code.

Select "Create hyperlink" Web Setting for first column of subfile

The hyperlink maps to: "Entering 1 in this input field"

Change Styles



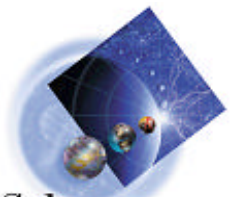
The screenshot shows the WebFacing tool interface. On the left is a 'WebFacing Projects' navigator with a tree view containing folders like 'appcon', 'wflab', 'CL Commands', 'DDS', 'UIM Help', 'Style', and 'gradient'. The main area is titled 'Properties for mywebapp' and has a 'Conversion' tab selected. The 'Conversion' tab lists various properties such as 'Command key recognition path', 'Command key button labels', 'DDS field', 'Window', 'Scrollbar', and 'Command'. A red arrow points from the 'Scrollbar' property to a scrollbar in the application preview. The application preview shows a web page with a header 'My Company Logo' and a table with columns 'Number' and 'Name'. A yellow highlight box at the top contains the text 'Chrome area change with Style sheet tools'. A green oval highlights the scrollbar in the preview, and a blue oval highlights the table area. Below the preview, blue text reads 'Application area properties change with WebFacing tool'.

Chrome area
change with Style sheet tools

Application area properties
change with WebFacing tool



Style properties



WebSphere
Development Studio
for iSeries

Design the Look and Feel

Customize the presentation of DDS fields in your Web page

You can customize how each DDS field color (COLOR) and display attribute (DSPATR) appears on the Web page by changing the corresponding item.

To change the color used for displaying a DDS field:
Select the row with the field's COLOR keyword, and single-cl

DDS Field Color	Field Text	Sam
DEFAULT	#333399	Default
COLOR(GRN)	#339900	Green
COLOR(WHT)	#666666	White
COLOR(RED)	#ff0000	Red
COLOR(TRQ)	#33cccc	Turquoise
COLOR(YLW)	#ff9900	Yellow
COLOR(PNK)	#ff33cc	Pink
COLOR(BLU)	#6666ff	Blue

To customize the display attributes of a DDS field, you can

Default font	.wf_field{ font-family : Verdana; for
Blinking	.wf_blk{ font-style : italic;
Column separators	.wf_cs{ background-image : url('
High intensity	.wf_hif{ font-weight : bold; border

Design the Look and Feel

Customize window displayed in the application area

A window
title, windo

Design the Look and Feel

Customize the

The scroll bar is
elements and th

Window
Back
Color:
Image
P
Border

Window
Foreg
Color:
Down arrow
Color:

Supply backg
Subfile recor
Color:

Design the Look and Feel

Customize the appearance of command keys

Command keys can be displayed with text and images. You can specify the font, colors, and images used in states.

Default font, colors, and image:

Foreground
Color: .. Font: Verdana, Regular, ..
Text indent in pixels:
Text align: left Vertical align: middle
Background
Color: .. Image: .. Position:

Rollover font, colors, and image:

Foreground
Color: .. Font: Verdana, Regular, ..
Text indent in pixels:
Text align: Vertical align:
Background
Color: .. Image:

Button down font, colors, and image:

Foreground
Color: .. Font: Verdana, Regular, ..
Text indent in pixels:
Text align: Vertical align:
Background
Color: .. Image:

Customize style properties

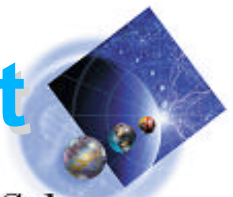
DDS field looks

Window appearance

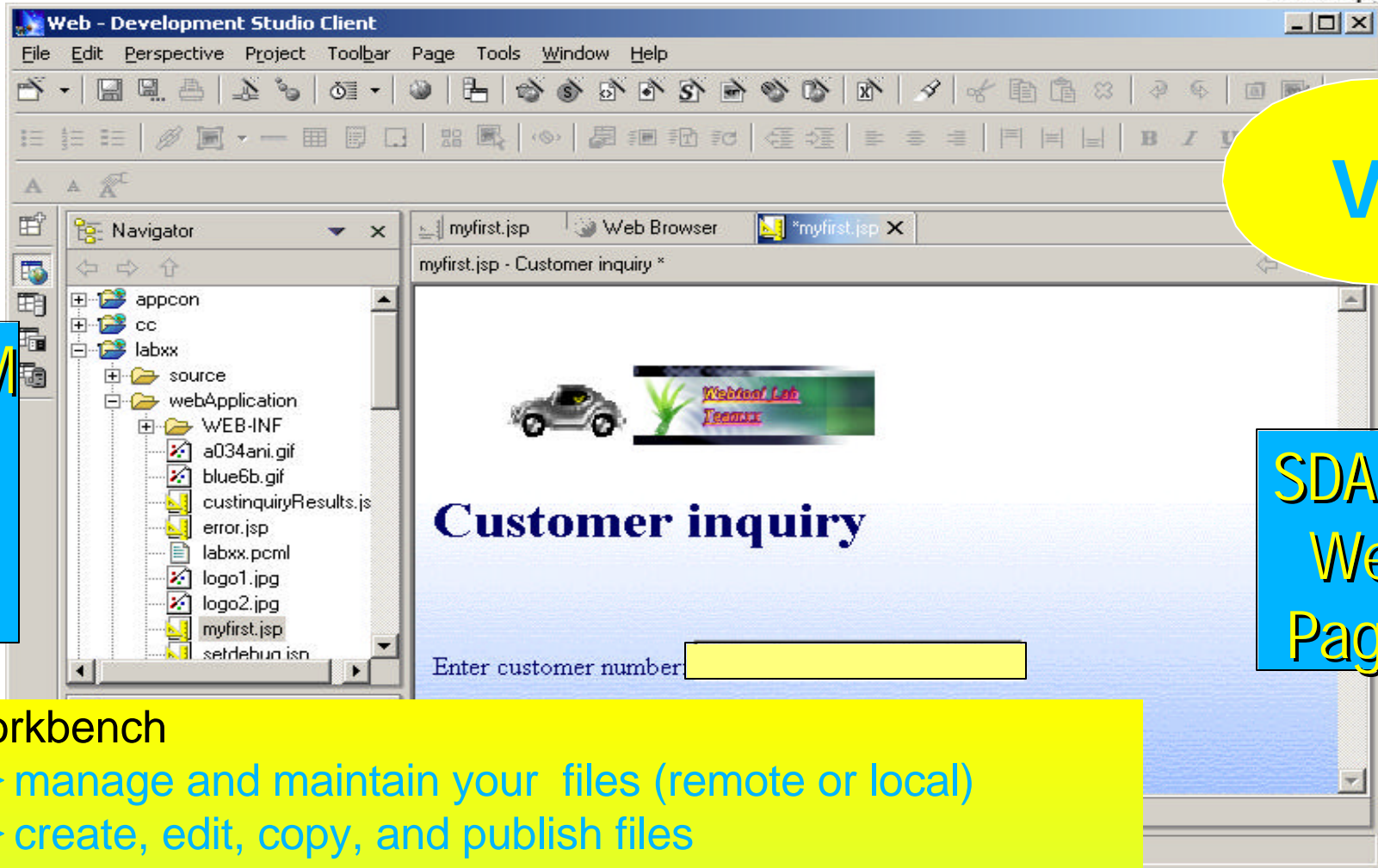
Scrollbar appearance

Command key appearance

WebSphere Development Studio client for iSeries



WebSphere
Development Studio
Series



GUI PDM
for all
your
files

SDA for
Web
Pages

- workbench
 - ▶ manage and maintain your files (remote or local)
 - ▶ create, edit, copy, and publish files
- Page Designer
 - ▶ a WYSIWYG HTML editor
 - ▶ a WYSIWYG JSP editor
- Many perspectives, views, wizards and numerous little editors



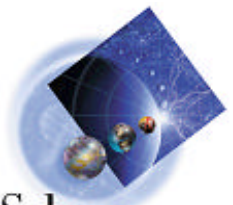
WebFacing Examples



- ✓ Customers/Business partners
 - **Basic conversion, minimal customization**
 - ▶ **Gulistan Carpet**
 - ✓ Sales management application
 - ▶ **Astech**
 - ✓ Typical Work-With application
 - ▶ **GUS**
 - ✓ Charisma ERP application
 - **Conversion with added customization**
 - ▶ **APPCON**
 - ✓ AppSphere ERP application
 - **Conversion customization tools**
 - ▶ **ebt-now**
 - ✓ Built additional tools to analyze application
 - ✓ Conversion results modified to achieve custom results



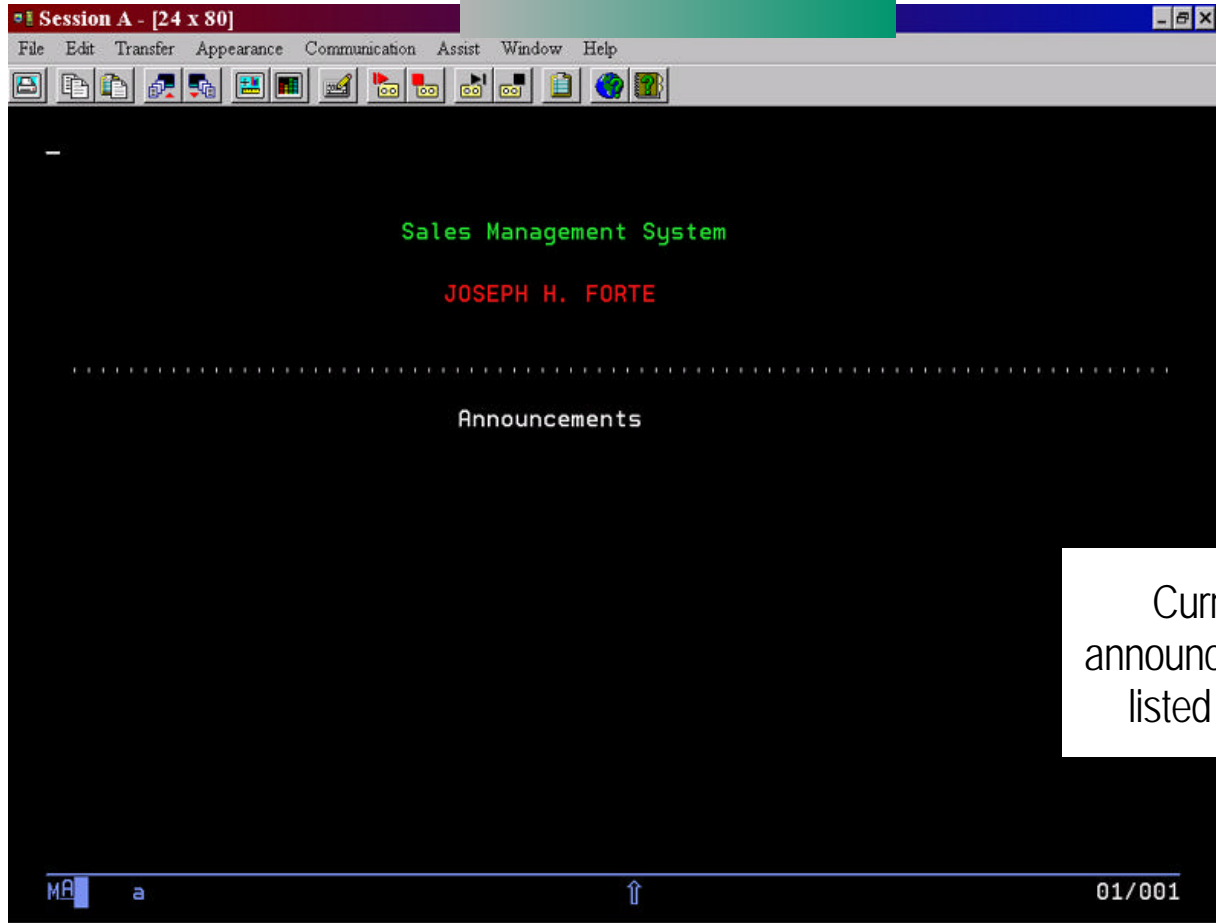
Gulistan Green Screen



WebSphere
Development Studio

Gulistan

Initial screen

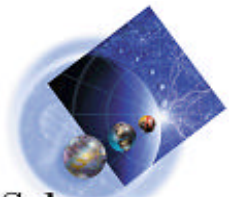


Current
announcements
listed here

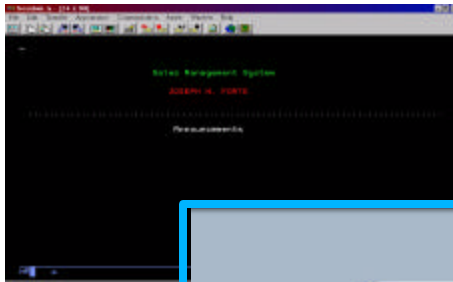
Courtesy: Gulistan Carpet Inc.
www.gulistan.com



Gulistan Web Page



WebSphere
Development Studio
for iSeries



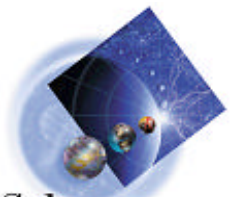
Initial screen



Courtesy: Gulistan Carpet Inc.
www.gulistan.com



Gulistan Green Screen



WebSphere
Development Studio
for iSeries

Sales summary screen

Session A - [24 x 80]

File Edit Transfer Appearance Communication Assist Window Help

4/30/02 Sales Summary by Salesman 11:06:09 SLF100

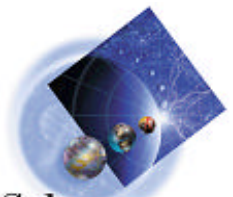
NORTH CENTRAL
JOSEPH H. FORTE

Style Description	MAR 02 Mtd Yards	TO Mtd Dollars	NOV 01 Ytd Yards	TO MAR 02 Ytd Dollars
44600 NORTHFIELD SD-26	411	2,699	9,500	60,523
47650 TOP AUTHORITY	402	7,701	1,181	20,512
42270 FIDDLER	0	686-	2,398	19,433
49130 WORKPLACE 26	119	988	2,656	18,611
45280 PERMAPOINT	598	6,568	1,747	17,532
41210 CIMARON	867	9,510	1,195	14,440
39000 SPECIAL 3900	0	0	1,180	13,491
44620 NORTHFIELD SD-28	248	1,627	1,899	12,261
45680 PRECISION	0	0	877	9,372
42040 DATAWEAVE	104	1,165	640	6,434
49030 WORKPLACE	0	0	748	4,600
40920 CROSSCURRENT	0	0	271	4,249
44630 NORTHFIELD SD-28 UN	0	0	618	4,113
86510 AROUND THE BLOCK	22	376	211	3,331
41590 DURAPOINT SUPREME	0	0	245	3,098 +

MA a ↑ 07/002

Courtesy: Gulistan Carpet Inc.
www.gulistan.com

Gulistan Web Page



WebSphere
Development Studio
for iSeries

Sales summary screen

Terminal Window Screenshot:

```

04/30/02
NORTH CENTRAL
JOSEPH H. FORTE
-----
MTH YARDS MTD DOLLARS NOV 01 TO MAR 02
Style Description MTD YARDS MTD DOLLARS YTD YARDS YTD DOLLARS
44600 NORTHFIELD SD-26 411 2,699 9,500 60,523
47650 TOP AUTHORITY 402 7,701 1,181 20,512
42270 FIDDLER 0 686- 2,398 19,433
49130 WORKPLACE 26 119 988 2,656 18,611
45280 PERMAPOINT 598 6,568 1,747 17,532
41210 CIMARON 867 9,510 1,195 14,440
39000 SPECIAL 3900 0 0 1,180 13,491
44620 NORTHFIELD SD-28 248 1,627 1,899 12,261
45680 PRECISION 0 0 877 9,372
42040 DATAWEAVE 104 1,165 640 6,434
49030 WORKPLACE 0 0 748 4,600
40920 CROSSCURRENT 0 0 271 4,249
44630 NORTHFIELD SD-28 UN 0 0 618 4,113
86510 AROUND THE BLOCK 22 376 211 3,331
41590 DURAPOINT SUPREME 0 0 245 3,098
    
```

GULISTAN CARPET

04/30/02 Sales Summary by Salesman 14:37:10 SLP100

NORTH CENTRAL
JOSEPH H. FORTE

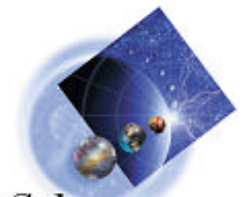
- Enter
- Log Off
- Back

Style Description	MAR 02 TO MAR 02 Mtd Yards Mtd Dollars	NOV 01 TO MAR 02 Ytd Yards Ytd Dollars
44600 NORTHFIELD SD-26	411 2,699	9,500 60,523
47650 TOP AUTHORITY	402 7,701	1,181 20,512
42270 FIDDLER	0 686-	2,398 19,433
49130 WORKPLACE 26	119 988	2,656 18,611
45280 PERMAPOINT	598 6,568	1,747 17,532
41210 CIMARON	867 9,510	1,195 14,440
39000 SPECIAL 3900	0 0	1,180 13,491
44620 NORTHFIELD SD-28	248 1,627	1,899 12,261
45680 PRECISION	0 0	877 9,372
42040 DATAWEAVE	104 1,165	640 6,434
49030 WORKPLACE	0 0	748 4,600
40920 CROSSCURRENT	0 0	271 4,249
44630 NORTHFIELD SD-28 UN	0 0	618 4,113
86510 AROUND THE BLOCK	22 376	211 3,331
41590 DURAPOINT SUPREME	0 0	245 3,098

Courtesy: Gulistan Carpet Inc.
www.gulistan.com



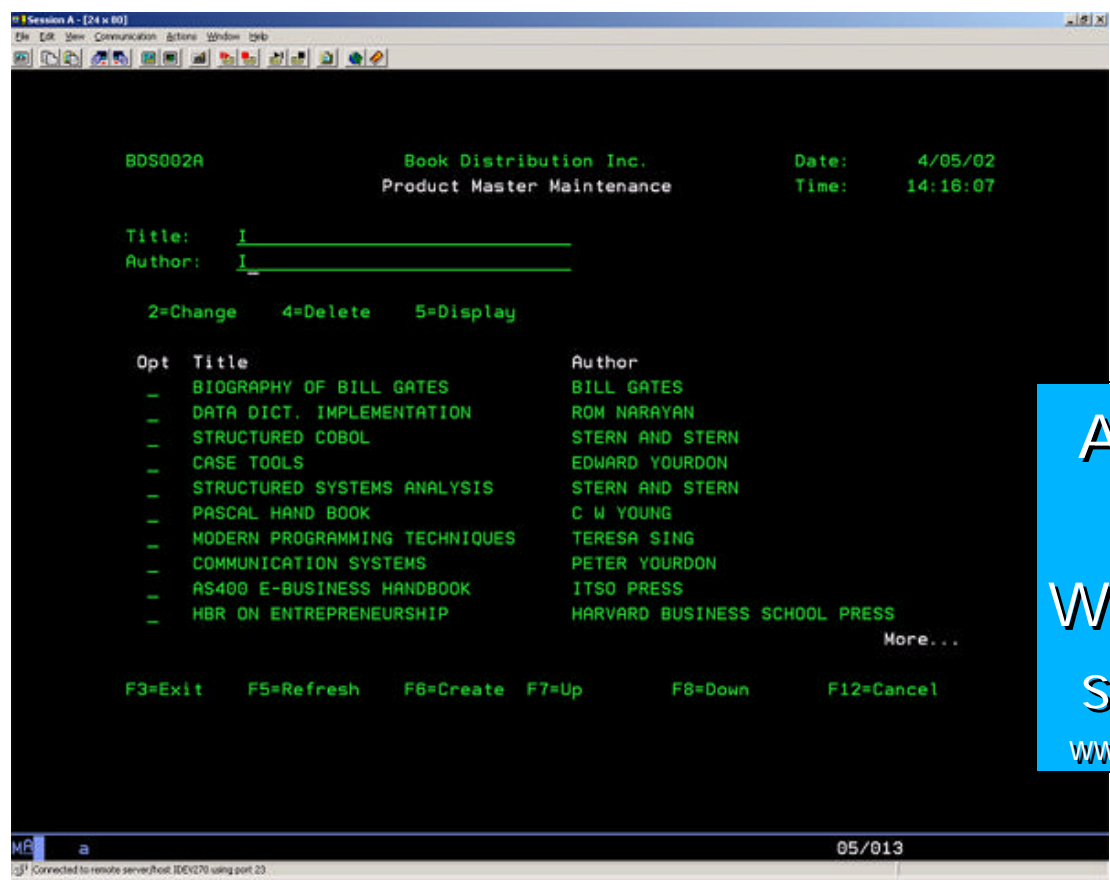
ASTECH Green Screen



WebSphere
Product Solutions

Inventory WorkWith

ASTECH

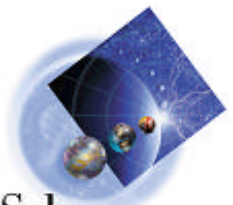


ASTECH
offers
WebFacing
services!
www.astech.com

Courtesy: ASTECH Solutions Inc
www.astech.com

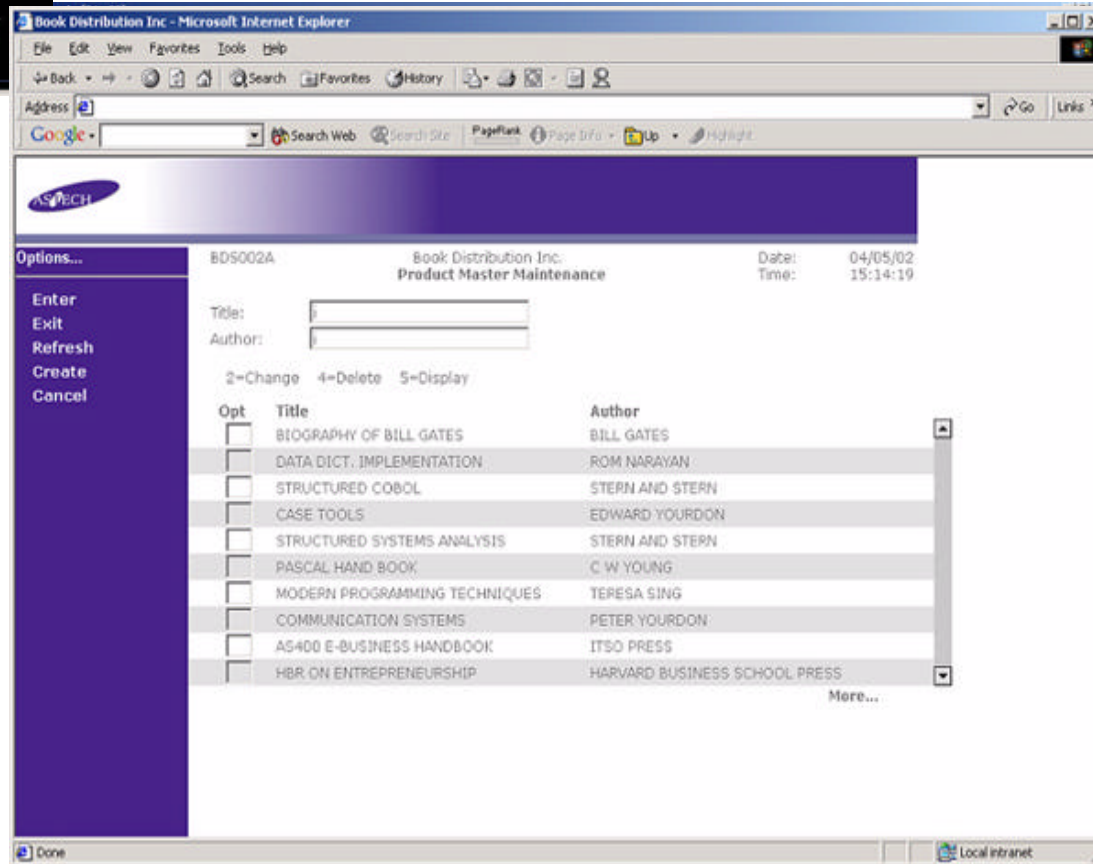


Astech Web Page



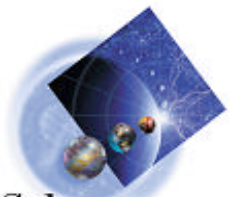
WebSphere
Development Studio
for iSeries

Inventory WorkWith



Courtesy: ASTECH Solutions Inc
www.astech.com

GUS Green Screen



WebSphere
Business Edition

Sign in screen

GUS

Sitzung A - [24 x 80]

Datei Bearbeiten Sicht Kommunikation Aktionen Fenster Hilfe

Anmelden

System	:	GUS27001
Subsystem	:	QINTER
Bildschirm	:	QPADEV007

Benutzer	:	_____
Kennwort	:	_____
Programm/Prozedur	:	_____
Menü	:	_____
Aktuelle Bibliothek	:	_____

(C) COPYRIGHT IBM CORP. 1980, 2000.

06/053

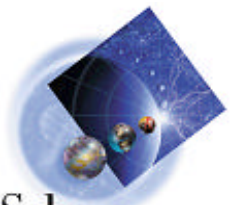
Verbindung zum fernen Server/Host Gus27001 aufgebaut über Anschluß 23.

GUS offers
WebFacing
services!
www.gus-group.com

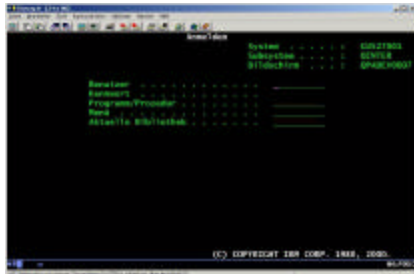
Courtesy: GUS Anwendungssysteme & Softwareentwicklung GmbH
www.gus-group.com



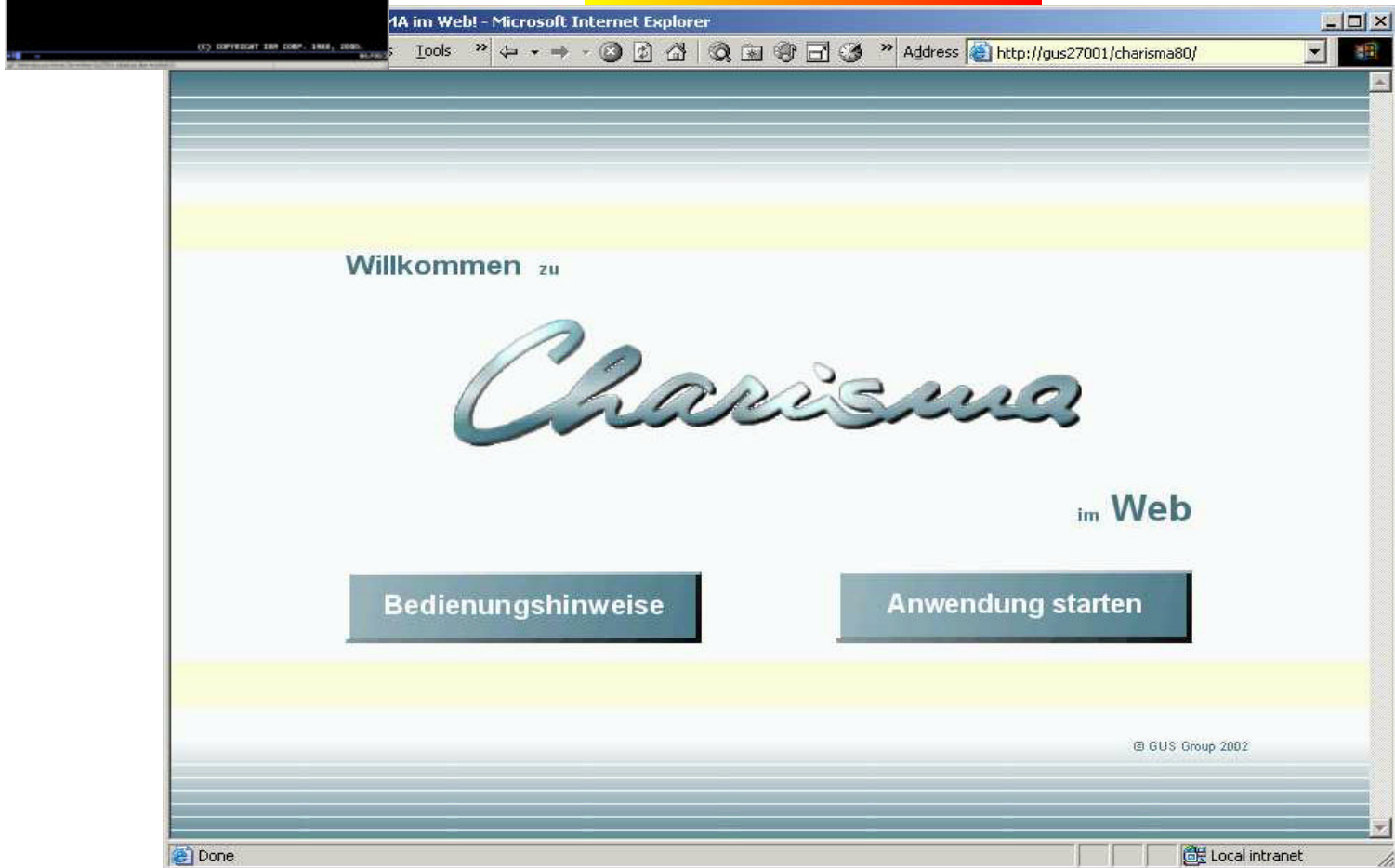
GUS Web Page



WebSphere
Development Studio
for iSeries



Sign in screen



Courtesy: GUS Anwendungssysteme & Softwareentwicklung GmbH
www.gus-group.com



GUS Green Screen



WebSphere
Development Studio
for iSeries

Main menu

```
Sitzung A - [24 x 80]
Datei Bearbeiten Sicht Kommunikation Aktionen Fenster Hilfe
CHARISMA 201 C76FSHOP CHARISMA/AS 26.04.02
WF 15:23:11

CeBIT Modell

5. Hauptmenü Grunddaten-Verwaltung
6. Hauptmenü Primärbedarfsplanung
7. Hauptmenü Materialbedarfsplanung

9. Hauptmenü Einkauf
10. Hauptmenü Produktion
11. Hauptmenü Verkauf
12. Hauptmenü Materialwirtschaft
13. Hauptmenü Inventur
14. Hauptmenü Qualitätskontrolle
15. Hauptmenü Lohnherstellung
16. Hauptmenü Lieferantenbewertung
17. Hauptmenü Kalkulation

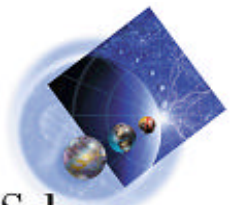
19. Hauptmenü e-Business,asynchrone Batch-Jobs & IHW
20. Hauptmenü Systemverwaltung

Auswahl ==>>> F3=Verlassen F5=Druckerausgabe
F6=Nachrichten anzeigen F8=Jobs anzeigen F11=Schlüsselwörter F12=zurück
M a 23/016
Verbindung zum Fernen Server/Host Gus27001 aufgebaut über Anschluß 23.
```

Courtesy: GUS Anwendungssysteme & Softwareentwicklung GmbH
www.gus-group.com



GUS Web Page



WebSphere
Development Studio
for iSeries

Main menu

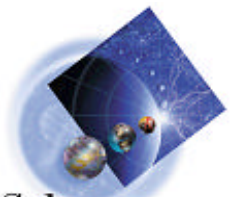
The screenshot displays the Charisma 8.0 web application interface. On the left, a vertical sidebar contains navigation buttons: Enter, Hilfe, Verlassen, Prompt, Datenbereich, Menüverwaltung, Schlüsselwörter, zurück, Popup-Menue, and HOME. The main content area shows a header with 'Charisma 8.0' and a table of menu items. The table includes columns for menu ID, name, and description. At the bottom, there is an 'Auswahl' field with a right-pointing arrow and two empty input boxes.

Menu ID	Menu Name	Description
5.	Hauptmenü	Grunddaten-Verwaltung
6.	Hauptmenü	Primärbedarfsplanung
7.	Hauptmenü	Materialbedarfsplanung
9.	Hauptmenü	Einkauf
10.	Hauptmenü	Produktion
11.	Hauptmenü	Verkauf
12.	Hauptmenü	Materialwirtschaft
13.	Hauptmenü	Inventur
14.	Hauptmenü	Qualitätskontrolle
15.	Hauptmenü	Lohnherstellung
16.	Hauptmenü	Lieferantenbewertung
17.	Hauptmenü	Kalkulation
19.	Hauptmenü	e-Business, asynchrone Batch-Jobs & IHW
20.	Hauptmenü	Systemverwaltung

Courtesy: GUS Anwendungssysteme & Softwareentwicklung GmbH
www.gus-group.com



GUS Green Screen



WebSphere
Development Studio
for iSeries

Work with for controller

The screenshot shows a terminal window titled 'Sitzung A - [24 x 80]'. The menu content is as follows:

```
SYS150      201      CHARISMA/AS      26.04.02
WF          Arbeiten mit Sachbearbeitern      15:32:49

-  Auskunft  Materialbestände  INF300
  Verwalten  Absatzplan        FOR120
  Leitstand  Kundenaufträge    ORD300
  Freigabe   Planungsvorschläge MRP580
  Leitstand  Produktion         SFC600      +
F3=Verlassen  F5=Aktualisieren  F13=Senden-  F14=Anzeigen-Post

E-B      e-Business      VK      U *ALL
EIN      Einkauf        EIN      U *ALL
GUS      G.U.S. AG & Co. S *ALL
GUS_ENGL G.U.S. AG & Co. S *ALL
MF      MF WebFacing    S *SINGLE 201
PORTAL  Portaluser      U *SINGLE 201
USER    Anwender        U *ALL
WF      WebFacing       S *SINGLE 201

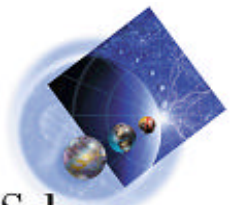
F3=Verlassen  F5=Aktualisieren  F11=Sicht  F24=Weitere Tasten

a 04/005
Verbindung zum fernen Server/Host Gus27001 aufgebaut über Anschluß 23.
```

Courtesy: GUS Anwendungssysteme & Softwareentwicklung GmbH
www.gus-group.com



GUS Web Page



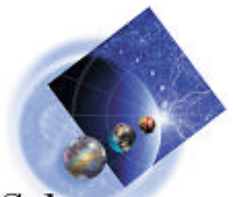
WebSphere
Development Studio
for iSeries

Work with for controller

Courtesy: GUS Anwendungssysteme & Softwareentwicklung GmbH
www.gus-group.com



GUS Green Screen



WebSphere
Development Studio
for iSeries

Orders with calendar window

Sitzung A - [24 x 80]
Datei Bearbeiten Sicht Kommunikation Aktionen Fenster Hilfe

SFC600 201 CHARISMA/AS 26.04.02
Produktionsaufträgen 15:36:29

April 2

MO	DI	MI	DO	FR	SA	SO	KW
01	02	03	04	05	06	07	14
08	09	10	11	12	13	14	15
15	16	17	18	19	20	21	16
22	23	24	25	26	27	28	17
29	30						18

F3=Verlassen F12=Abbrechen

Von PA-Statuskennzeichen . .
Bis PA-Statuskennzeichen . .

99
999999
0.00.00
99.99.99
9999999999

(Selektion nur wenn Eingabe)

F3=Verlassen F4=Prompt F12=Abbrechen

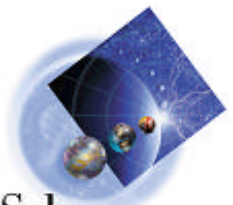
04/015

Verbindung zum fernen Server/Host: Gus27001 aufgebaut über: Anschluss 23.

Courtesy: GUS Anwendungssysteme & Softwareentwicklung GmbH
www.gus-group.com



GUS Web Page



WebSphere
Development Studio
for iSeries

Orders with calendar window

```
Charisma 8.0
SFC600 201
WF
Produktionsaufträgen
26.04.02
15:36:48
April
Mo Di Mi Do Fr Sa So Kw
01 02 03 04 05 06 07 14
08 09 10 11 12 13 14 15
15 16 17 18 19 20 21 16
22 23 24 25 26 27 28 17
29 30

```

Charisma 8.0 - Microsoft Internet Explorer

Address: http://gus27001/charisma80/servlet/com.ibm

Charisma 8.0

Enter SFC600 201 CHARISMA/AS 26.04.02
Hilfe WF Arbeiten mit Produktionsaufträgen 15:36:48
Verlassen Bitte Auswahlkriterien eingeben
Abbrechen
PAGEDOWN Von Standort/Lagerstatus . . .
PAGEUP Bis Standort/Lagerstatus . . . 99
Von Vorzone/Lager
Bis Vorzone/Lager 999999
Von Datum PA-Start (Soll) 0.00.00
Bis Datum PA-Start (Soll) 99.99.99
Von Nr Produktionsauftrag
Bis Nr Produktionsauftrag 999999999
Nr Material
Von PA-Statuskennzeichen
Bis PA-Statuskennzeichen 9

Calendar window: April 2

MO	DI	MI	DO	FR	SA	SO	KW
01	02	03	04	05	06	07	14
08	09	10	11	12	13	14	15
15	16	17	18	19	20	21	16
22	23	24	25	26	27	28	17
29	30					18	

(Selektion nur wenn Eingabe)

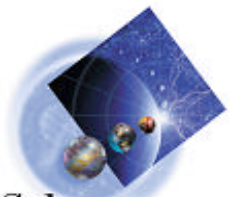
IBM WebFacing

Done Local intranet

Courtesy: GUS Anwendungssysteme & Softwareentwicklung GmbH
www.gus-group.com



APPCON Green Screen



WebSphere
Business Edition

Work with products

APPCON

```

Session A - [24 x 80]
File Edit View Communication Actions Window Help
R006SFC2          Products Matching Search Criteria

Co Div Cat      Style. . . . .      Width      Wh  Q Po#. . . .  Size
01 01  M1 F S03 PROD1
                S03

Type options. Then press Enter.
1=Select 5=Availability 7=Orders

S      Style. . . . .      Width      Price      Avl Shp
      S03 PROD1          BLK          2.75      Each      O  W  S
      BLACK POLO.JPG      Men's Cotton TShirt
-     S03 PROD1          BLU          2.75      65      Y  Y
      BLUE POLO.JPG      Men's Cotton TShirt
-     S03 PROD1          CREM         2.75      200     Y  Y
      CREAM POLO.JPG      Men's Cotton TShirt
-     S03 PROD1          EMR          2.75      120     Y  Y
      EMERALD POLO.JPG      Men's Cotton TShirt
-     S03 PROD1          KHA          2.75      156     Y  Y
      KHAKI POLO.JPG      Men's Cotton TShirt
-     S03 PROD1          NAVY         2.75      250     Y  Y
      NAVY POLO.JPG      Men's Cotton TShirt

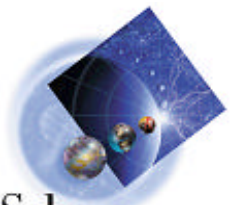
F1=Help  F2=Field help  F3=Exit  F7=Page Bkwd  F8=Page F
MA a
Connected to remote server/host appcon using port 23
    
```

APPCON offers
WebFacing
services!
www.appcon4.com

Courtesy: APPCON

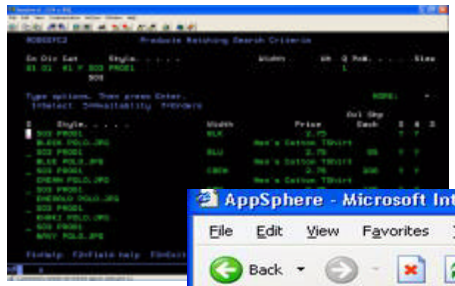


APPCON Web Page



WebSphere
Development Studio
for iSeries

Work with products



The screenshot shows the AppSphere web application running in Microsoft Internet Explorer. The browser address bar shows the URL: `http://apcon:6600/appsphere/servlet/com.ibm.as400ad.webfacing.runtime.httpcontroller.ControllerServlet?inv=cl811031`. The page title is "AppSphere" and the subtitle is "Products Matching Search Criteria". The search criteria are displayed as: `Co 01 Div 01 Cat M1 F S03 Style..... PROD1 Width Wh Q Po#..... Size 1`. Below the search criteria, there is a table of products with columns for "S", "Style.....", "Width", "Price", "Avl Shp Each", "O", "W", and "S". The first row shows a product with "S" checkbox, "Style....." S03 PROD1, "Width" BLK, "Price" 2.75, "Avl Shp Each" 1, "O" Y, "W" Y, and "S". The second row shows a product with "S" checkbox, "Style....." S03 PROD1, "Width" BLU, "Price" 2.75, "Avl Shp Each" 65, "O" Y, "W" Y, and "S". A large image of a blue polo shirt is displayed in the center of the page. The status bar at the bottom of the browser shows "Done" and "Local intranet".

Courtesy: APPCON



APPCON Green Screen



Product position summary

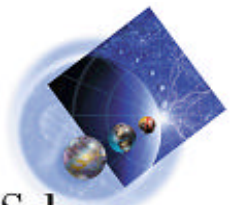
```

Session A - [24 x 80]
File Edit View Communication Actions Window Help
[Icons]
A0070005 Product Position Summary EA
Syr Style # . . . . . Color Cut#/Po# Dyelt Warehouse Q
S03 PROD1 BLU *All *All *ALL* 1
Description... Color name... Con/I5/I6/I7 Factory Class
Men's Cotton TShirt Blue N N N N GOLF
2.7500 USD EA All Seasons
Avl to sell... Each Delivery Avl to ship... Each
Forecasts . . Initial Reserved wip 50
Planned Manuf. + Inventory + 125
Issues Manuf. + Unshippable -
Purchased . . 725 Current Allocated - 60
On order. . . + 600 Pick slips -
Work orders - + Pack holds -
Inventory + 125 In stk Avl to shp 1= 65
Gross Bookings 124 N Act ats 1 65
Shipped Ovr sld% Inv-Unshp 2 1
Unshipped this ip - 124 Act ats 2 56
Unshp other ip -
Available to sell = 601 Sold out In trans-ASN
Actual ats no neg 601
BLUE POLO.JPG F9=Statistics F10=Change um
F11=Wip/po F12=Cancel F13=Inv trans F14=Fabric F15=Orders
F16=Bom usage F17=Tog F18=Bom
MA a 01/001
Connected to remote server/host: appcon using port 23
    
```

Courtesy: APPCON



APPCON Web Page



WebSphere
Development Studio
for iSeries

Product position summary

Product Position Summary

Syr	Style #	Color	Cut#/Po#	Dyelt	Warehouse	Q
S03	PROD1	BLU	*All	*All	*ALL*	EA
Description... Men's Cotton TShirt						
2.7500 USD EA						
Avl to sell... Each						
Forecasts			Initial	Avl to ship...	Each	
Planned Manuf.			0	Reserved wip	50	
Issues Manuf.				Inventory +	125	
Purchased			725	Unshippable	-	
On order...			600	Allocated	-	60
Work orders				Pick slips	-	
Inventory			125	Pack holds	-	
Gross Bookings			124	Avl to shp 1=		65
Shipped				Act ats 1		65
Unshipped this ip			124	Inv-Unshp 2		1
Unshp other ip				Act ats 2		56
Available to sell =			601	Below Min lvl		
Actual ats no neg			601	In trans-ASN		

Courtesy: APPCON



APPCON Green Screen



Bill of material detail

```

Session A - [24 x 80]
File Edit View Communication Actions Window Help
[Icons]

D001SFC2          Bill Of Material Detail Selection          Product Bom
Co Div Syr Style. . . . . Label. . . . Color          Part Um S Fac auth#
01 01  F98 YP1998          1          EA A

Select one or more reference, Then press Enter. F6 to Add.
1=Change 2=Full change 4=Delete 5=Display 6=Comments

Place Syr Style. . . . . Label. . . . Color
Opt F S C /Sufx Component# . . . Color          Quantity Um
a u m          Width Waste% Um Vendor... Scl TxStTcSzCst T
  S 1 Y          BNT123          BLAK          5.0000 EA
0001566.gif          Button Pear          N N N N TRM C
  S 1          ZIPPER          BLU          1.0000 YD
0001569.gif          Zipper          N N N N C
  S 1          A112          BLU          10.0000 YD
0001570.gif          100% Cotton          N N Y N C
  S 1          A113          BLU          10.0000 YD
0001560.gif          20 Ply Cott          N N N Y TRM C

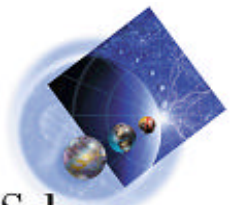
Bottom
0000066.gif          F6=Add
F7=Page bkwd          F8=Page fwd          F12=Cancel

MA a          12/002
[Icons] Connected to remote server/host appcon using port 23
    
```

Courtesy: APPCON



APPCON Web Page



WebSphere
Development Studio
for iSeries

Bill of material detail

AppSphere
Bill of Material Detail Selection

Product Bom
Um S Fac auth#
EA A

Select one or more reference, Then press Enter, F6 to Add.
1=Change 2=Full change 4=Delete 5=Display 6=Comments

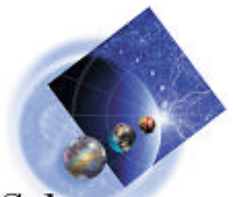
Opt	F	S	C	Place Syr	Style.....	Label....	Color	Part	Quantity	Um
a	u	m	/Sufx	Component#...	Width	Waste%	Um	Vendor...	TxStTcSzCst	T
<input type="checkbox"/>	S	1	Y		BNT123		BLAK		5.0000	EA
						Button Pear			N N N N	TRM C
<input type="checkbox"/>	S	1			ZIPPER		BLU		1.0000	YD
						Zipper			N N N N	C
<input type="checkbox"/>					A112		BLU		10.0000	YD
						100% Cotton			N N Y N	C
<input type="checkbox"/>					A113		BLU		10.0000	YD
						20 Ply Cott			N N N Y	TRM C

Legend:
 1=Change
 2=Full change
 4=Delete
 5=Display
 6=Comments

Courtesy: APPCON



ebt-now Green Screen



WebSphere
Developer Edition

ebt-now

Contract inquiry

```
Telnet/400 Ver 3.21 (evaluation) (C) 1998 Albert York 10.20.3.195 10/26 SA
File Edit Options Auto Refresh Macro Help
CPC600 Inquiry forward contract position 9/12/01 18:16:12
Client: 222224 TEST CLIENT DAVID PICKERING

1. Forward contract position per client
2. Forward contract position by BBC
3. Forward contract position by contract

Option : █
Closing date : 12/31/99
End date : 0/00/00
Include Expired : N Y=Yes N=No
BBC Account : _____ For Choice 2
Long/Short : _____ For Choice 3
Executing broker : _____
Contract item : _____
Due date : 0/00/00
Amount currency : _____

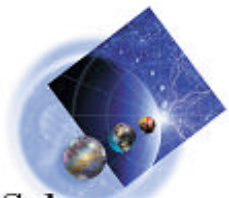
F3=Previous F7=Exit F24=More
```

ebt-now
offers
WebFacing
services!
www.ebt-now.com

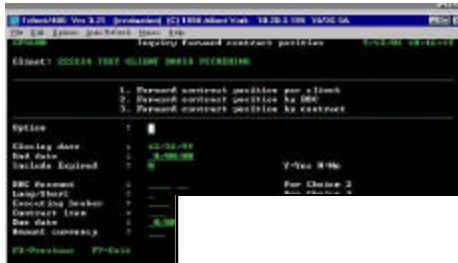
Courtesy: ebt-now
www.ebt-now.com



ebt-now Web Page



WebSphere
Development Studio
for iSeries



Contract inquiry

Main Menu

CFC600 Inquiry forward contract position 11/16/01 10:34:50

Client: 222224 TEST CLIENT DAVID PICKERING

1. Forward contract position per client
2. Forward contract position by BBC
3. Forward contract position by contract

Option :

Closing date : 12/31/99
End date : 0 / 00 / 00
Include Expired : N Y=Yes N=No

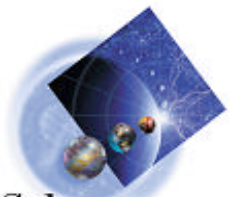
BBC Account : For Choice 2
Long/Short : For Choice 3
Executing broker :
Contract item :
Due date : 0 / 00 / 00
Amount currency :

F3=Previous F7=Exit F24=More keys

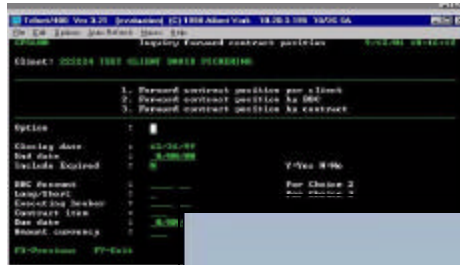
Courtesy: ebt-now
www.ebt-now.com



ebt-now Web Page



WebSphere
Development Studio
for iSeries



Contract inquiry

ebt-now Services - WebFace

CFC600 Inquiry forward contract position 11/06/01

Client: 222224 TEST CLIENT DAVID PICKERING

1. Forward contract position per client
2. Forward contract position by BBC
3. Forward contract position by contract

Option :

Closing date : 12/31/99

End date : X

Include Expired : Y=Yes N=No

BBC Account : For Choice 2

Long/Short : For Choice 3

Executing broker :

Contract item :

Due date :

Amount currency :

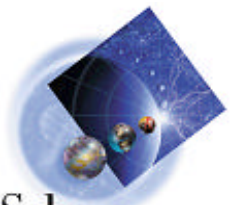
F3=Previous F7=Exit F24=More keys

- Enter
- Previous
- Inquiry item
- Exit
- Inquiry contract
- More cmds
- HELP

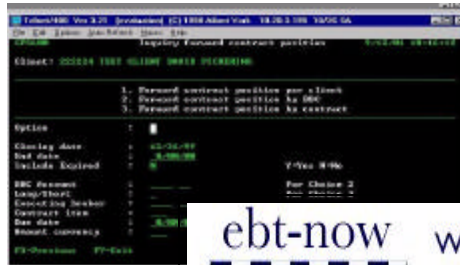
Courtesy: ebt-now
www.ebt-now.com



ebt-now Web Page



WebSphere
Development Studio
for iSeries



Contract inquiry

ebt-now WebReady Services [home](#) [services](#) [news](#) [funds](#) [group](#)

Enter CFC600 **Inquiry forward contract position** 10/25/01
Previous **Client:** 222224 TEST CLIENT DAVID PICKERING
Inquiry item
Exit
Inquiry contract
More cmds
HELP

1. per client - Forward contract position per client
2. by BBC - Forward contract position by BBC
3. by contract - Forward contract position by contract

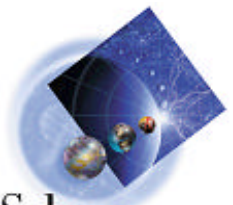
Option :
Closing date : 12/31/99
End date : / /
Include Expired :
BBC Account :
Long/Short :
Executing broker :
Contract item :
Due date : / /
Amount currency :

WebReady Calendar...
November 2001
<< < Today > >>
Su Mo Tu We Th Fr Sa
 1 2 3
4 5 6 7 8 9 10
11 12 13 14 15 16 17
18 19 20 21 22 23 24
25 26 27 28 29 30

Courtesy: ebt-now
www.ebt-now.com

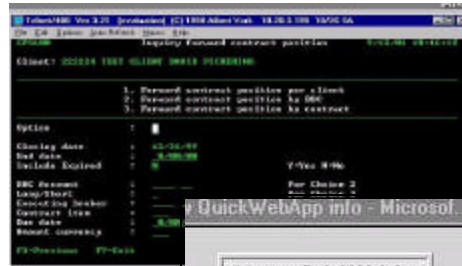


ebt-now Web Page



WebSphere
Development Studio
for iSeries


Contract inquiry



QuickWebApp info - Microsoft

ebt-now QuickWebApp

the fastest way to web-enable existing iSeries applications & data (for more, visit www.ebt-now)



web master: Sky

turn Message from Sky

ebt-now WebReady Services home services news funds

Action bar Help WebReady GO

CFC600 Inquiry forward contract position 10/25/01 16:31:

Client: 222224 TEST CLIENT DAVID PICKERING

Option : position per client
 position by BBC
 position by contract

Closing date : 12
End date : 12
Include Expired : N

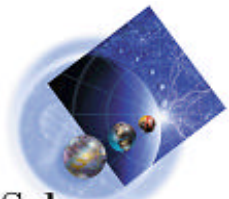
BBC Account : 8800
Long/Short :
Executing broker :
Contract item :
Due date : 0 /00 /00
Amount currency :

Date Selector - Micro...
December 2002
<< < Today > >>
Su Mo Tu We Th Fr Sa
1 2 3 4 5 6 7
8 9 10 11 12 13 14
15 16 17 18 19 20 21
22 23 24 25 26 27 28
29 30 31

Courtesy: ebt-now
www.ebt-now.com



WebFacing Pros and Cons



WebSphere
Development Studio
for iSeries

● Pros:

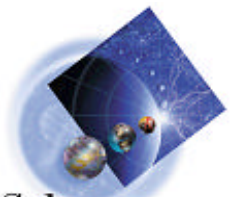
- ▶ Interactive *PGM can run either 5250 or WebFaced UI
 - Hopefully only minor changes needed to program and DDS
- ▶ Conversion done at development time
 - So runtime is fast and efficient
 - No 5250 datastream is ever created
 - It means generated JSP output can be enhanced ... before deploying into production
- ▶ Runtime is part of OS/400. Tooling part of WDSc

● Cons:

- ▶ Must have access to DDS source
- ▶ Non-DDS screens cannot be converted
 - No current support for UIM or system screens or 3270 or ...



URLs



WebSphere
Development Studio

💧 ibm.com/software/ad/iSeries

- ▶ WebSphere Development Studio for iSeries

- 💧 WebSphere Development Studio Client

- 💡 WebFacing

💧 ibm.com/software/awdtools

- ▶ WebSphere Studio Site Developer

- ▶ WebSphere Studio Application Developer

