



HORIZONT

IWS/WebAdmin for z/OS

The Web Interface for IWS for z/OS (former TWS for z/OS)

What is IWS/WebAdmin z/OS?

A Web Portal for IBM's Workload Scheduler for z/OS, that gives **Developers**, **Operations Planner**, IT-Leaders and Customers powerful features and a graphical view to IWS:

The image displays three screenshots of the IWS/WebAdmin for z/OS web portal interface. The first screenshot shows a Netplan flowchart with a complex network of nodes and connections. The second screenshot shows a table titled "of Occurrences" with columns for Application id, Description, Input arrival date, Started at, Deadline, Priority, Add Function, Owner, and Status. The third screenshot shows a Job EndTime Analysis chart titled "Total Trend Line Analysis" with a line graph showing job end time over input arrival day.

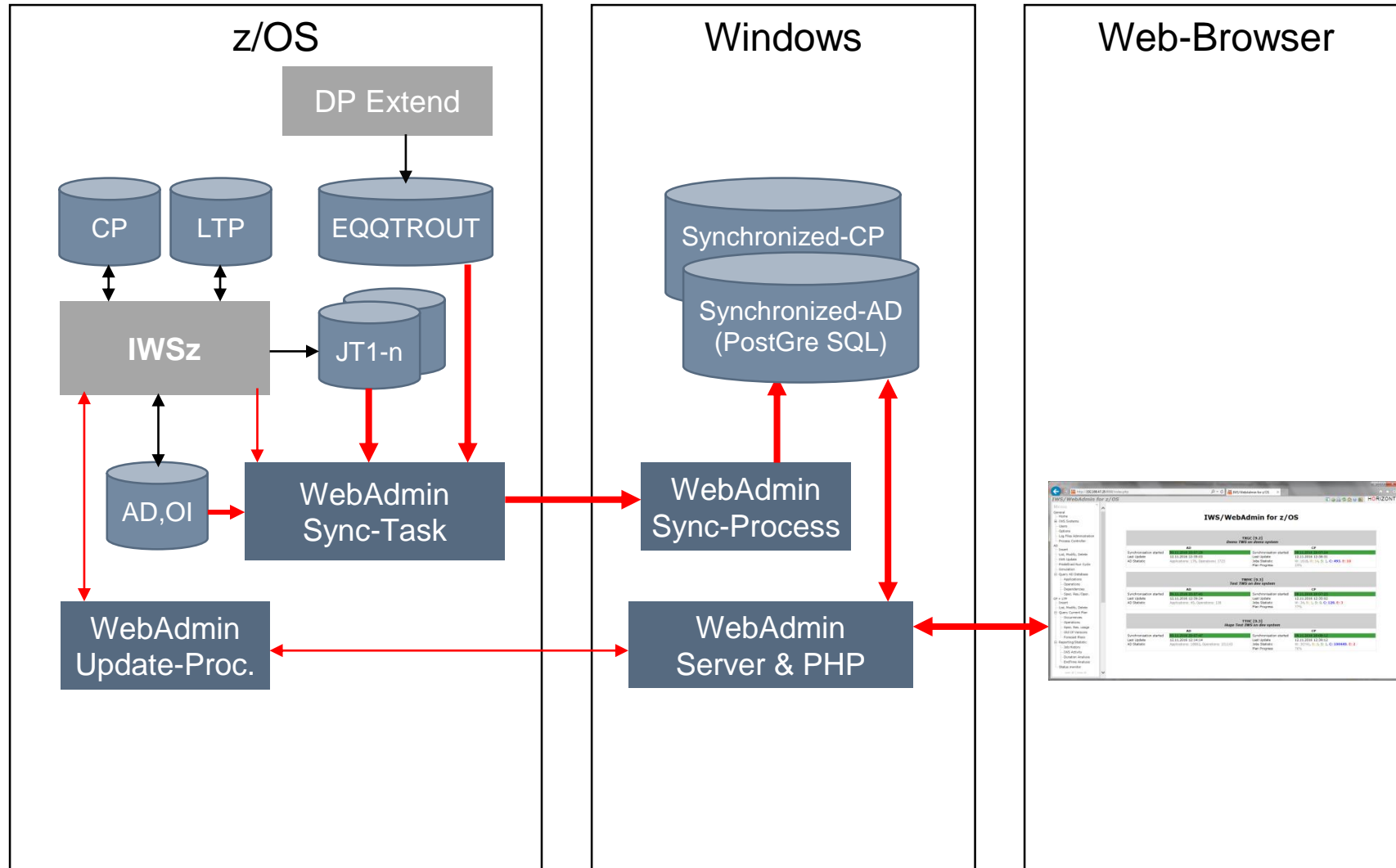
Application id	Description	Input arrival date	Started at	Deadline	Priority	Add Function	Owner	Status
HOR05DAY	HORIZONT Test Span CPEXT	2017/04/10 06:00	2017/04/10 05:02	2017/04/11 05:59	5		P390K	S
HOR06DAY	HORIZONT Test Span CPEXT	2017/04/10 06:00		2017/04/11 05:59	6		P390K	W
HOR07DAY	HORIZONT Test Span CPEXT	2017/04/10 06:00		2017/04/11 05:59	7		P390K	W
HOR20DAY	HORIZONT Prod-Part 2	2017/04/10 06:00		2017/04/11 06:00	7		HORIZONT	E
HOR25DAY	HORIZONT Prod-Part 2b	2017/04/10 06:00		2017/04/11 06:00	5		HORIZONT	W
HOR30DAY	HORIZONT Prod-Part 3	2017/04/10 06:00		2017/04/11 06:00	5		HORIZONT	E
HOR35DAY	HORIZONT Prod-Part 3b	2017/04/10 06:00		2017/04/11 06:00	5		HORIZONT	W
HOR40DAY	HORIZONT Prod-Part 4	2017/04/10 06:00		2017/04/11 06:00	5		HORIZONT	W
HOR50DAY	HORIZONT Prod-Part 5	2017/04/10 06:00		2017/04/11 06:00	5		HORIZONT	W
HOR60DAY	HORIZONT Prod-Part 6	2017/04/10 06:00		2017/04/11 06:00	5		HORIZONT	W
HOR70DAY	HORIZONT Prod-Part 7	2017/04/10 06:00	2017/04/10 05:02	2017/04/11 12:00	5		HORIZONT	S
HOR85DAY	HORIZONT Prod-Part 8b	2017/04/10 06:00		2017/04/11 06:00	5		HORIZONT	W
HOR88DAY	HORIZONT Test Long Dur	2017/04/10 06:00		2017/04/11 06:00	5		HORIZONT	W
HOR95DEMO	Demo DUR & DL prediction	2017/04/10 06:00		2017/04/10 23:00	7		P390K	W
HOR96DEMO	Demo Application	2017/04/10 06:00		2017/04/11 01:15	5		P390K	W

Flowcharts

Web dialog

Statistics, Trends

The Technical Architecture



IWS/WebAdmin z/OS

IWS/WebAdmin z/OS has its own, automatically synchronized database and also online connection to the IWS controller.

This Design offers great possibilities:

Use cases for **Developers**: Flowcharts, Self Service, Define, Submit, Monitor my Jobs

Use cases for Operation **Planners**: Flowchart Critical Path, Design, Monitor Production

Use cases for **IT Leaders and Analysts**: SLA Reporting, Statistics

Use cases for **IT Customers**: Monitor Business Processes

Three active **Client usage Scenarios** and Summary

Sample use cases for Developers

- Developers often need to know about production workload
 - The easy to use query/search dialog opens the IWS “black box” and helps finding your Jobs
 - how they are defined in the database
 - how they are planned today
 - how they did run in the past
 - The graphic module shows you the dependencies and job flow
- Self Service for e.g. the DEV system and/or production
(based on IWS/RACF security):
 - Define your Jobs/Applications
 - Submit(insert) them to the plan
 - Monitor and restart your jobs when needed

The Main Menu

Menu

- General
 - Home
 - IWS Systems
 - Users
 - Options
 - Log Files Administration
 - Process Controller
- AD
 - Insert
 - List, Modify, Delete
 - IWS Update
 - Predefined Run Cycle
 - Simulation
 - Query AD Database
 - Applications
 - Operations
 - Dependencies
 - Spec. Res./Oper.
- CP + LTP
 - Insert
 - List, Modify, Delete
 - Query Current Plan
 - Occurrences
 - Operations
 - Spec. Res. usage
 - Old CP Versions
 - Forecast Plans
 - Reporting/Statistic
 - Job History
 - IWS Activity
 - Duration Analysis
 - EndTime Analysis
 - Status monitor

IWS/WebAdmin for z/OS

IWS/WebAdmin for z/OS

TXGC [9.2]
Demo TWS on demo system

AD		CP	
Synchronisation started	09.11.2016 20:07:24	Synchronisation started	09.11.2016 20:07:24
Last Update	12.11.2016 12:38:31	Last Update	12.11.2016 12:38:31
Jobs Statistic	W: 1618, R: 14, S: 1, C: 493, E: 10	Jobs Statistic	W: 1618, R: 14, S: 1, C: 493, E: 10
AD Statistic	Applications: 1723	Plan Progress	23%

TWHC [9.3]
Test TWS on dev system

AD		CP	
Synchronisation started	09.11.2016 20:07:41	Synchronisation started	09.11.2016 20:07:23
Last Update	12.11.2016 12:39:24	Last Update	12.11.2016 12:35:02
AD Statistic	Applications: 45, Operations: 138	Jobs Statistic	W: 34, R: 1, S: 0, C: 120, E: 3
		Plan Progress	77%

TTHC [9.3]
Huge Test IWS on dev system

AD		CP	
Synchronisation started	09.11.2016 20:07:47	Synchronisation started	09.11.2016 20:08:12
Last Update	12.11.2016 12:14:14	Last Update	12.11.2016 12:39:12
AD Statistic	Applications: 18862, Operations: 151143	Jobs Statistic	W: 30741, R: 0, S: 1, C: 100449, E: 2
		Plan Progress	76%

Click on a Link in the Menu, to go to a desired function such as "Query Operations (Jobs)"

The home page shows you which IWS systems are connected

AD Query Operations: Find my Jobs

The screenshot shows the 'Query Application Description - Operations' page in the TWS/WebAdmin for z/OS interface. The left sidebar contains a 'Menu' with various options, and a red arrow points to the 'Operations' option under 'Query AD Database'. The main content area displays a list of query criteria with dropdown menus and input fields. The 'User Field Name' and 'User Field Value' fields are highlighted with a red box. The 'User Field Value' field contains the text '*srv*'. A blue speech bubble on the right contains the text: 'Besides the "normal" Filter criteria like Jobname, Application id, Owner etc., you can e.g. search for User Field Values'. The bottom of the page features 'Action Buttons' including 'OK', 'Netplan', 'Show SQL', 'Load Selection', 'Save Selection', 'Reset', and 'Cancel'.

Field	Operator	Value
TWS System	*	TXGC TWFC TWHC
Application id	=	
Owner id	=	p390k
Authority group id	=	
Jobname	=	
Operation Number	=	
Workstation	=	
Special Resource	=	
Operation Extended Name	=	
Scheduling Environment Name	=	
Highest Return Code	=	
Centralized Script	=	
Critical	=	
Policy	=	
Class	=	
Time Dependent	=	
Suppress if late	=	
User Field Name	=	
User Field Value	=	*srv*

Besides the "normal" Filter criteria like Jobname, Application id, Owner etc., you can e.g. search for User Field Values

AD Query Operations: Find my Jobs

The screenshot shows the TWS/WebAdmin for z/OS interface. The left sidebar contains a menu with categories like General, TWS Systems, Users, Options, Log Files Administration, AD, Query AD Database, CP + LTP, Query Current Plan, and Reporting/Statistic. The main content area is titled "AD - List of Operations" and displays a table of operations. Below the table, there are action buttons: Show details, Netplan, Show SQL, Save to File, Report, All dependencies, and Cancel.

AD - List of Operations

Check all | Clear all | Toggle selection

<input type="checkbox"/>	TWS System	Application id	Description	Valid from	Status	Workstation	Op no	Text	Jobname	Duration	State	Last change date
<input type="checkbox"/>	TXGC	HOR96DEMO	Demo Application	2016/03/28	A	W001	011	Job 1	HOR96001	00:01:00	ACTUAL	2016/03/29 11:07
<input type="checkbox"/>	TXGC	HOR96DEMO	Demo Application	2016/03/28	A	W002	012	Job 2	HOR96002	00:02:00	ACTUAL	2016/03/29 11:07
<input type="checkbox"/>	TXGC	HOR96DEMO	Demo Application	2016/03/28	A	W003	013	Job 3	HOR96003	00:03:00	ACTUAL	2016/03/29 11:07

[3 row(s) have been found.]

Check all | Clear all | Toggle selection

Action Buttons: Show details, Netplan, Show SQL, Save to File, Report, All dependencies, Cancel

The resulting list of found jobs. Click on a jobname shows you all details about it.

AD Query Operations: Job Details

The screenshot displays the TWS/WebAdmin for z/OS interface. The browser address bar shows the URL `http://192.168.47.28:8088/index.php`. The page title is "TWS/WebAdmin for z/OS". A navigation menu on the left includes sections for General, TWS Systems, Users, Options, Log Files Administration, AD, Query AD Database, CP + LTP, Query Current Plan, and Reporting/Statistic. The main content area is titled "AD - Operation Details" and includes links for "Predecessors", "Successors", and "Special Resources".

Application id	HOR96DEMO
TWS System	TXGC
Record Status	ACTUAL
Jobname	HOR96001
Workstation	W001
Op no	011
Description	Job 1

Below the main details table, there are sections for "Workstation Resources and Servers" and "Job, WTO and Print Options". The "Job, WTO and Print Options" section includes fields for Job Class, Error Tracking, Highest Return Code, External Monitor, Centralized Script, Cond Recovery Job, Critical, Policy, Class, Submit, Hold/Release, Time Dependent, Suppress if late, and Deadline WTO. At the bottom, there are "Action Buttons" for "Netplan" and "Cancel".

A callout bubble with the text "Scroll down for more" points to the bottom of the page, indicating that there is additional content below the visible area.

AD Query Operations: Job Details

The screenshot displays the TWS/WebAdmin for z/OS interface. On the left is a navigation menu with categories like General, TWS Systems, Users, Options, Log Files Administration, AD, CP + LTP, and Reporting/Statistic. The main content area shows details for a job, including:

- Scheduling Environment Name**
- Automation Info** (Command Text, Automated Function, Security Element, Completion Info)
- Remote Job Info** (Complete if bind fails, Job Stream Workstation, Job Stream Name, Job Name)
- User Fields** table:

User Field Name	User Field Value
Path	c:\horizont\webadmin\bin\start.cmd
Server	srvwin001

Below the User Fields table is the **Predecessors** table:

Application id	Op no	Workstation	Jobname
001		DMY	

[1 row(s) have been found.]

At the bottom, there are **Successors** and **Action Buttons** (Netplan, Cancel).

A callout bubble on the right contains the text: "More and more planners love the 'User Fields' to store additional information there, e.g. the server name on which the job is running etc."

AD Query Operations: Job Netplan

The screenshot shows the TWS/WebAdmin for z/OS interface. The main content area displays a table titled "AD - List of Operations" with the following data:

	TWS System	Application id	Description	Valid from	Status	Workstation	Op no	Text	Jobname	Duration	State	Last change date
<input checked="" type="checkbox"/>	TXGC	HOR96DEMO	Demo Application	2016/03/28	A	W001	011	Job 1	HOR96001	00:01:00	ACTUAL	2016/03/29 11:07
<input type="checkbox"/>	TXGC	HOR96DEMO	Demo Application	2016/03/28	A	W002	012	Job 2	HOR96002	00:02:00	ACTUAL	2016/03/29 11:07
<input type="checkbox"/>	TXGC	HOR96DEMO	Demo Application	2016/03/28	A	W003	013	Job 3	HOR96003	00:03:00	ACTUAL	2016/03/29 11:07

Below the table, it states "[3 row(s) have been found.]".

The "Action Buttons" section at the bottom contains several buttons: "Show details", "Netplan" (highlighted with a red box), "Show SQL", "Save to File", "Report", "All dependencies", and "Cancel".

A callout box with a dark blue background and white text says: "Probably you need to see the predecessor/successor flowchart: Click on 'Netplan' and specify some options like predecessor levels".

AD Query Operations: Job Netplan

The screenshot shows a web browser window titled "TWAZ - Netplan - Internet Explorer" with the URL `http://192.168.47.28:8088/twazx_start.php?type=net&referer=%2Ftwaz_ad_netplan_prompt.php`. The interface includes a menu bar with "File", "Search", and "Options", and a toolbar with "Zoom 5%", "1:1", and "Fit". The main area displays a "Netplan" diagram consisting of four horizontal layers of nodes connected by lines. A red line traces a path from a node in the top layer, through the middle two layers, and to a node in the bottom layer. A callout bubble points to this path with the text "Your Job and its predecessors and successors". Another callout bubble points to the top toolbar with the text "There are a lot of useful functions to work with the netplan, search, zoom, cluster etc.". A tooltip for a node in the bottom layer reads "HOR96DEMO.W001.011.HOR96001".

There are a lot of useful functions to work with the netplan, search, zoom, cluster etc.

Your Job and its predecessors and successors

CP Query Operations: Find my Jobs in the Plan

The screenshot displays the 'Query Plan - Operations' interface in the TWS/WebAdmin for z/OS. The left sidebar shows a menu with 'Operations' highlighted by a red arrow. The main area contains a form with the following fields and values:

Field	Value
TWS System	TXGC
Jobname	= Hor96*
Workstation	=
Description	=
Application id	=
Input arrival date	=
Planned start date	> 2016 / 03 / 30 00 : 00
Planned end date	=
Actual start date	=
Actual end date	=
Actual Duration	=
Estimated Duration	=
Owner id	=
Authority group id	=
Group Definition	=
Priority	=
Status	=
Ext.St.	=
Manually Held	=

At the bottom, there are action buttons: OK, Barchart, Netplan, Show SQL, Load Selection, Save Selection, Reset, and Cancel.

Like in AD Query there are a lot of filter criteria about the jobs, plus planned and actual start/end time etc.

CP Query Operations: Find my Jobs in the Plan

Plan - List of Operations

Check all | Clear all | Toggle selection

	TWS System	Application id	Application input arrival date	Ws id	Op no	Text	Jobname	Status	Ext.St.	Error Code	Planned Start
<input checked="" type="checkbox"/>	TXGC	HOR96DEMO	2016/03/29 06:00	W001	011	Job 1	HOR96001	W			2016/03/30 01:00:01
<input type="checkbox"/>	TXGC	HOR96DEMO	2016/03/29 06:00	W002	012	Job 2	HOR96002	W			2016/03/30 01:00:01
<input type="checkbox"/>	TXGC	HOR96DEMO	2016/03/29 06:00	W003	013	Job 3	HOR96003	W			2016/03/30 01:00:01

[3 row(s) have been found.]

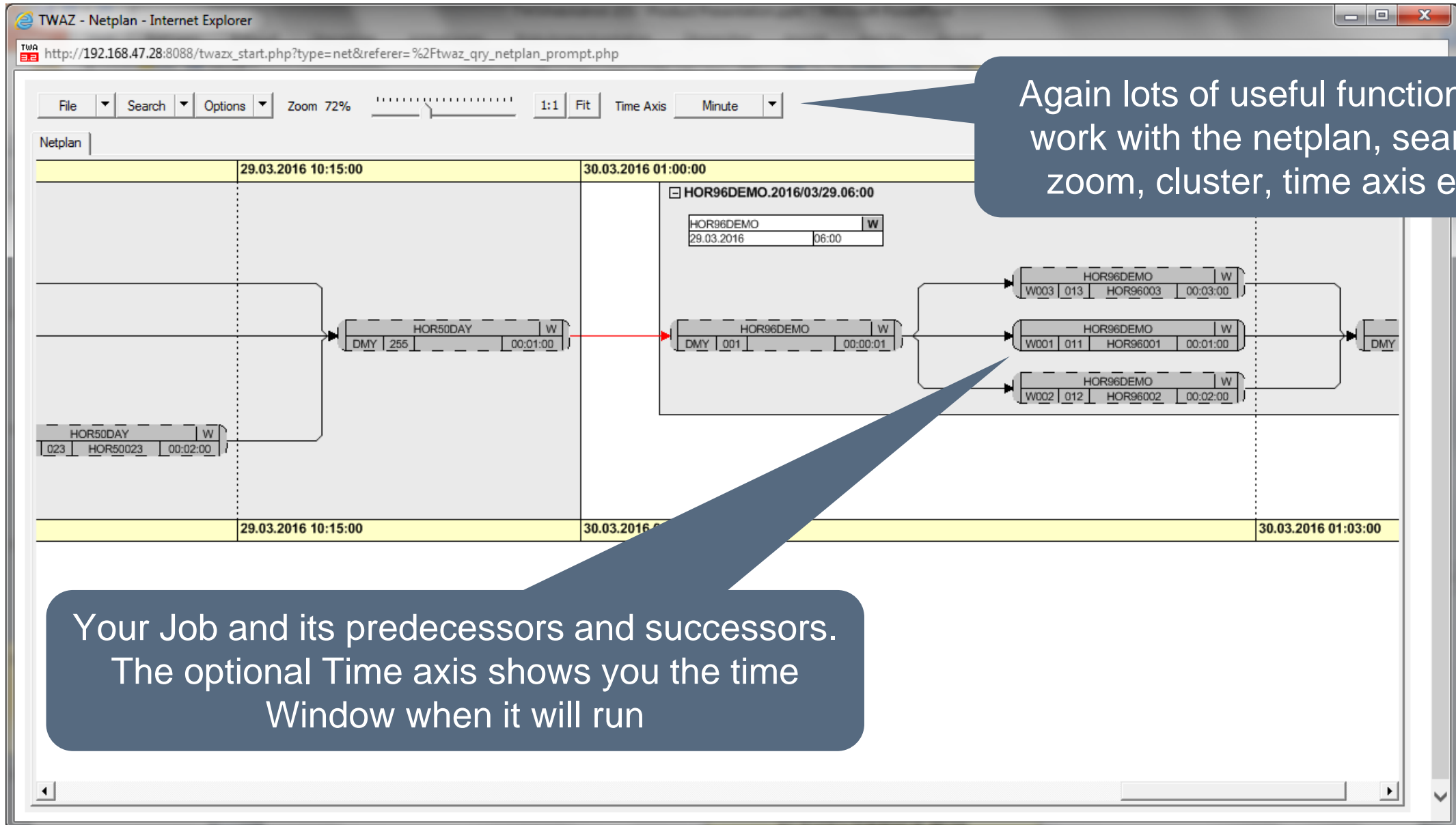
Check all | Clear all | Toggle selection

Action Buttons: Occurrence details | Operation details | All dependencies | Barchart | **Netplan** | Show SQL | Save to File | Beta92 | Cancel

The resulting list of jobs and its planned start time. A click on jobname shows you the details.

Click on "Netplan" to see the dependencies in the plan

CP Query Operations: Job Netplan



Again lots of useful functions to work with the netplan, search, zoom, cluster, time axis etc.

Your Job and its predecessors and successors. The optional Time axis shows you the time Window when it will run

Create or Modify Jobs and Applications

Select application for further processing

TWS System	*	TXGC TWFC TWHC
Record Status	*	* - List all Applications * - List all Applications (except HISTORY) * - List all Applications (Simulation) ACTUAL - List actual TWS Applications
Application id	=	<input type="text"/>
Description	=	<input type="text"/>
Type	=	<input type="text"/>
Status	=	<input type="text"/>
Valid from	=	<input type="text"/>
Valid to	=	<input type="text"/>
Jobname	=	hor96*
Workstation	=	<input type="text"/>
Owner id	=	p390k
Calendar id	=	<input type="text"/>
Group Definition	=	<input type="text"/>
Authority group id	=	<input type="text"/>
Period/Rule	=	<input type="text"/>
Variable Table	=	<input type="text"/>
Last change date	=	<input type="text"/>

Action Buttons: OK Show SQL Simulation Load Selection Save Selection CP Loop Analysis Reset Cancel

Specify filter criteria e.g. owner and jobname to find your applications and press OK

Create or Modify Jobs and Applications

AD - List of Applications

TWS System	Application id	Description	Valid from	Valid to	Type	Status	Owner	State	Last change date	User	Version	update	
<input checked="" type="checkbox"/>	TXGC	HOR96DEMO	Demo Application	2016/03/28	2071/12/31	A	A	P390K	ACTUAL	2016/03/29 11:07	P390K	4	Y
<input type="checkbox"/>	TXGC	HOR96DEMO	Demo Application	2016/03/28	2071/12/31	A	A	P390K	HISTORY	2016/03/28 13:06	P390K	3	N
<input type="checkbox"/>	TXGC	HOR96DEMO	Demo Application	2016/03/28	2071/12/31	A	A	P390K	HISTORY	2016/03/28 13:00	P390K	2	N

[3 row(s) have been found.]

Check all | Clear all | Toggle selection

Callout 1: Your applications in the WebAdmin internal AD

Callout 2: State=Actual means, this version is currently active in IWS. The Historical (old) Versions exist in WebAdmin only

Callout 3: Select an application and press "Modify"

Action Buttons: **Modify** | Copy | Delete | TWS Update | Compare | Netplan | Report | Unlock | Cancel

Modify Jobs and Applications

Modify application in AD

Source TWS System	TXGC
DB State	MODIFIED
Application id	HOR96DEMO
Text	Demo Application
Type	A
Owner id	P390K
Owner Text	TEST
Priority	5
Valid from	2016/03/28
Status	A
Authority group id	
Calendar Id	DEFAULT
Group Definition	
Smoothing Factor	
Feedback Limit	

Modify Operations or Run Cycles

"Predefined Run Cycles" simplifies the Run Cycle definition and "Show Run Days" shows a preview of the scheduling

Based on the internal security system (user/groups), all fields can be initialized with default values or made "read only" or hidden

Action Buttons: OK, Operations, Run Cycles, Add Predefined Run Cycle, Show Run Days, Netplan, Reset, Cancel

Modify Jobs (Operations)

Modify Operations

Hide Info

DB State	MODIFIED
TWS System	TXGC
Application id	HOR96DEMO
Valid from - to	2016/03/28 - 2071/12/31
Description	Demo Application
Owner	P390K
Type	A
Status	A

	Ws id	Op no	Duration	Text	Jobname	Int Predecessors				Time Dep.	Operation IAD	Operation IAT	IPred	EPred	No. of C
(1) <input type="radio"/>	DMY	001	00:00:01							Y	01	00:30	0	1	0
(2) <input type="radio"/>	W001	011	00:01:00	Job 1	HOR96001	001				N			1	0	0
(3) <input type="radio"/>	W002	012	00:02:00	Job 2	HOR96002	001				N			1	0	0
(4) <input type="radio"/>	W003	013	00:03:00	Job 3	HOR96003	001				N			1	0	0
(5) <input type="radio"/>	DMY	255	00:00:01			011	012	013		N			3	0	0

+

Action Buttons

Internal Dependencies, Time etc. can be changed directly here

Modify, repeat or insert operations, or select "Operation Detail", "Dependencies" or "Special Resources" etc.

Modify Run Cycles

Modify Run Cycle

Hide Info

DB State	MODIFIED
TWS System	TXGC
Application id	HOR96DEMO
Valid from - to	2016/03/28 - 2071/12/31
Description	Demo Application
Owner	P390K
Type	A
Status	A

Name of Period / Rule / RG	Input Arrival Time	Deadline Day	Deadline Time	Type	Free Day Rule	In Effect
(1) <input checked="" type="checkbox"/> TWD	06:00	01	05:59	E - Exclusion rule-based run cycle	1 - Move to the closest work day before	2011/01/01
(2) <input type="checkbox"/> DAY	06:00	01	05:59	N - Offset-based normal run cycle	4 - Do not run	2011/01/01

Frequency

Only
 Every

First
 Second
 Third
 Fourth
 Fifth

Last
 2nd Last
 3rd Last
 4th Last
 5th Last

Day

Day
 Free Day
 Work Day
 Monday
 Tuesday
 Wednesday
 Thursday
 Friday
 Saturday
 Sunday

Cycle Specification

Week
 Month
 Year

Week Number: [] [] []

Period Name: [] []

Shift default origin by [] days

January
 February
 March
 April
 May
 June
 July
 August
 September
 October
 November
 December

Buttons: OK, Modify Rule, Specify Run Days, Repeat, Delete, Save as predefined run cycle, Show Run Cycle, Show Run Days, Cancel

Predefined Run Cycles

Predefined Run Cycle

Add predefined Run Cycle to Application

Hide Info

DB State	MODIFIED
TWS System	TXGC
Application id	HOR96DEMO
Valid from - to	2016/03/28 - 2071/12/31
Description	Demo Application
Owner	P390K
Type	A
Status	A

Show Filter

	TWS System	Name	Description	Public to	User	Last Change Date
<input type="checkbox"/>	TXGC	DAILY	Every day	all	p390k	2016/03/24 12:04
<input type="checkbox"/>	TXGC	LASTWORKDAY	Last Workday (Ultimo)	all	p390k	2016/03/24 12:01
<input type="checkbox"/>	TXGC	TWD	Triple Witching Day	all	p390k	2016/03/24 12:13
<input checked="" type="checkbox"/>	TXGC	WD/=TWD	Workday, but not on Triple Witching Day	all	p390k	2016/03/24 12:16
<input type="checkbox"/>	TXGC	WORKDAY	Every workday	all	p390k	2016/03/24 12:06

Check all | Clear all | Toggle selection

[5 row(s) have been found.]

Action Buttons: **Add to Application** | Modify | Delete | Insert | Copy | Cancel

You may also use "pre defined run cycles" which are prepared by your administrator

Select one and add it to your application

You don't need to know anything about input arrivals, periods, free day rules etc.

Verify Run Cycles

Browser: http://192.168.47.28:8088/index.php | TWS/WebAdmin for z/OS

Runcycles - Generate Run Days

DB State	MODIFIED
TWS System	TXGC
Application id	HOR96DEMO
Valid from - to	2016/03/28 - 2071/12/31
Description	Demo Application
Owner	P390K
Type	A
Status	A
Calendar	DEFAULT

Run Days

2016

	Mo	Tu	We	Th	Fr	Sa	Su	Mo	Tu	We	Th	Fr	Sa	Su	Mo	Tu	We	Th	Fr	Sa	Su	Mo	Tu	We	Th	Fr	Sa	Su	Mo	Tu							
January					01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
February	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29								
March		01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31					
April				01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30				
May							01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
June		01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30						
July					01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
August	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31						
September				01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30				
October						01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
November	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30							
December				01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			

Navigation: < prev | next >

Action Buttons: OK | Refresh

HORIZONT

“Show Run Days” gives you a verification preview calendar

Verify your changes, Compare the Applications

The screenshot displays the TWS/WebAdmin for z/OS interface. The main content area shows a table titled "AD - List of Applications" with the following data:

TWS System	Application id	Description	Valid from	Valid to	Type	Status	Owner	State	Last change date	User	Version	update	
<input checked="" type="checkbox"/>	TXGC	HOR96DEMO	Demo Application	2016/03/28	2071/12/31	A	A	P390K	MODIFIED	2016/03/29 14:23	P390K	5	N
<input checked="" type="checkbox"/>	TXGC	HOR96DEMO	Demo Application	2016/03/28	2071/12/31	A	A	P390K	ACTUAL	2016/03/29 11:07	P390K	4	Y
<input type="checkbox"/>	TXGC	HOR96DEMO	Demo Application	2016/03/28	2071/12/31	A	A	P390K	HISTORY	2016/03/28 13:06	P390K	3	N
<input type="checkbox"/>	TXGC	HOR96DEMO	Demo Application	2016/03/28	2071/12/31	A	A	P390K	HISTORY	2016/03/28 13:00	P390K	2	N

Below the table, there are action buttons: "Check all", "Clear all", and "Toggle selection". At the bottom of the interface, the "Action Buttons" section includes "Modify", "Copy", "Delete", "TWS Update", "Compare", "Netplan", "Report", "Unlock", and "Cancel". The "Compare" button is highlighted with a red box. A callout bubble points to this button with the text: "To see what you have changed, select the applications to be compared and press 'Compare'".

Compare Applications

The screenshot shows the TWS/WebAdmin for z/OS interface. The main content area displays a comparison of 'Operation 001' between 'HOR96DEMO (version 5)' and 'HOR96DEMO (version 4)'. The 'Input arrival time' field is highlighted in red in the comparison, indicating a change from 01.00 in version 4 to 00.30 in version 5. A callout box explains that changes are shown in red. Another callout box points to the 'Hide Identical' button, suggesting a feature to filter out identical fields.

	001	HOR96DEMO (version 5)	HOR96DEMO (version 4)
Ws id		DMY	DMY
Op no		001	001
Jobname			
Operation Text			
Smoothing Factor			
Feedback Limit			
Highest Return Code		0000	0000
Input arrival day		01	01
Input arrival time		0030	0100
Operation Deadline Day			
Operation Deadline Time			
Resource 1		00	00
Resource 2		00	00
Parallel Servers		01	01
Job Class			
Sysout Class			
Form Number			
Submit		Y	Y
Hold/Release		Y	Y
Suppress if late		N	N
Time Dependent		Y	Y
Error Tracking		Y	Y
Deadline WTO		N	N
Restartable			
Reroutable			
Clean up Type		N	
Workstation Info			
Task Available			
Action Buttons			

The changes are shown in red. Here we changed the "Operation IA time" from 01.00 to 00.30

You can also hide all identical fields and see the changes only

IWS (TWS) update

AD - List of Applications

TWS System	Application id	Description	Valid from	Valid to	Type	Status	Owner	State	Last change date	User	Version	update	
<input checked="" type="checkbox"/>	TXGC	HOR96DEMO	Demo Application	2016/03/28	2071/12/31	A	A	P390K	MODIFIED	2016/03/29 14:17	P390K	5	N
<input type="checkbox"/>	TXGC	HOR96DEMO	Demo Application	2016/03/28	2071/12/31	A	A	P390K	ACTUAL	2016/03/29 11:07	P390K	4	Y
<input type="checkbox"/>	TXGC	HOR96DEMO	Demo Application	2016/03/28	2071/12/31	A	A	P390K	HISTORY	2016/03/28 13:06	P390K	3	N
<input type="checkbox"/>	TXGC	HOR96DEMO	Demo Application	2016/03/28	2071/12/31	A	A	P390K	HISTORY	2016/03/28 13:00	P390K	2	N

[4 row(s) have been found.]

Check all | Clear all | Toggle selection

Action Buttons

Modify Copy Delete **TWS Update** Compare Netplan Report Unlock Cancel

Callout 1: If you are done and it's time to write it into IWS, you can start the "IWS update".

Callout 2: You need RACF update authority in IWS z/OS. The update may also be done by an production planner.

Submit(Insert) Applications to the plan

The screenshot shows the TWS/WebAdmin for z/OS interface. The left-hand menu is expanded to show the 'CP + LTP' section, with a red arrow pointing to the 'Insert' option. The main content area displays a table titled 'Select application from AD and insert into CP or LTP'. The table has five columns: TWS System, Application id, Description, Group id, and Owner. The application 'HOR96DEMO' is selected with a checkmark. Below the table, there are links for 'EQQMLOG', 'CP + LTP LOG', 'HOSTLOG', and 'Time Plan'. At the bottom, there are 'Action Buttons' for 'OK' and 'Cancel'.

	TWS System	Application id	Description	Group id	Owner
<input type="checkbox"/>	TXGC	HOR90DEMO	Demo Application		P390K
<input type="checkbox"/>	TXGC	HOR91DEMO	Demo Application		P390K
<input type="checkbox"/>	TXGC	HOR92DEMO	Demo Application		P390K
<input type="checkbox"/>	TXGC	HOR93DEMO	Demo Application		P390K
<input type="checkbox"/>	TXGC	HOR94DEMO	Demo Application		P390K
<input type="checkbox"/>	TXGC	HOR95DEMO	Demo DUR & DL prediction		P390K
<input checked="" type="checkbox"/>	TXGC	HOR96DEMO	Demo Application		P390K
<input type="checkbox"/>	TXGC	HOR99DAY	HORIZONT Prod-Part 99		HORIZONT

[8 row(s) have been found.]

TXGC: [EQQMLOG](#) | [CP + LTP LOG](#) | [HOSTLOG](#) | [Time Plan](#)

You may also insert your application ad hoc into the current plan or the long term plan

You need RACF update authority in IWS z/OS.

List, Modify Applications in the plan

Select occurrence from CP/LTP for action

Check all | Clear all | Toggle selection

	TWS System	Application id	Description	Input arrival	Origin	Status
<input type="checkbox"/>	TXGC	HOR96DEMO	Demo Application	2016/03/29 06:00	CP	Waiting
<input checked="" type="checkbox"/>	TXGC	HOR96DEMO	Demo Application	2016/03/29 07:00	CP	Error
<input type="checkbox"/>	TXGC	HOR96DEMO		2016/03/30 06:00	LTP	Not Complete
<input type="checkbox"/>	TXGC	HOR96DEMO		2016/03/31 06:00	LTP	Not Complete
<input type="checkbox"/>	TXGC	HOR96DEMO		2016/04/04 06:00	LTP	Not Complete
<input type="checkbox"/>	TXGC	HOR96DEMO		2016/04/05 06:00	LTP	Not Complete
<input type="checkbox"/>	TXGC	HOR96DEMO		2016/04/06 06:00	LTP	Not Complete
<input type="checkbox"/>	TXGC	HOR96DEMO		2016/04/07 06:00	LTP	Not Complete
<input type="checkbox"/>	TXGC	HOR96DEMO		2016/04/08 06:00	LTP	Not Complete

[9 row(s) have been found.]

Check all | Clear all | Toggle selection

TXGC: [EQQMLOG](#) | [CLIENTLOG](#) | [HOST](#) | [Time Plan](#)

Action Buttons:

You may also modify and restart your application in the plan

You need RACF update authority in IWS z/OS.

Sample use cases for Operations Planner

- Powerful queries and graphics to
 - Verify how your workload is defined in the database
 - Use the Report function to create a printable documentation of one or more applications
 - See how your workload is planned for today, tomorrow
 - Check how did it run yesterday, in the past week...
 - **New in 4.0: See how your workload will be planned for any day in the future**
 - All queries can run cross several IWS systems
- Useful extra functions to
 - Find the critical path
 - Find all predecessor or successors of e.g. a critical job
 - Find which jobs are using a special resource
 - Find all “not found” dependencies
 - Find the wrong dependency in case of “CP Loop”

Verify how your workload is defined in the database

The screenshot displays the 'Query Application Description - Applications' page in the TWS/WebAdmin for z/OS interface. The left-hand menu is expanded to 'Query AD Database', with a red arrow pointing to it. The main content area shows a form with various fields for defining an application query. The 'TWS System' dropdown is set to 'TXGC'. The 'Application id' field contains 'hor*'. The 'Status' dropdown is set to 'Active'. The 'Forecast Day' is set to '2016 / 04 / 29'. At the bottom, there are several action buttons: 'OK', 'Netplan', 'Show SQL', 'Simulation', 'Load Selection', 'Save Selection', 'CP Loop Analysis', 'Reset', and 'Cancel'. A blue callout box with white text is overlaid on the right side of the form, stating: 'For example, search for all applications HOR* that will be scheduled on a specific date'.

TWS System	*	TXGC TWFC TWHC
Application id	=	hor* ?
Description	=	
Type	=	Application
Status	=	Active
Valid from	=	/ / : : + -
Valid to	=	/ / : : ? + -
Forecast Day		2016 / 04 / 29 ?
Jobname	=	? + -
Workstation	=	? + -
Owner id	=	? + -
Calendar id	=	? + -
Group Definition	=	? + -
Authority group id	=	? + -
Period/Rule	=	? + -
Variable Table	=	? + -
Last change date	=	/ / : : ? + -
User	=	? + -

Applications, scheduled on a specific date

AD - List of Applications
Forecast Day: 2016/04/29
Check all | Clear all | Toggle selection

	TWS System	Application id	Description	Valid from	Type	Status	Owner	State	Last change date	User
<input type="checkbox"/>	TXGC	HOR00DAY	PRODUCTION	2002/06/15	A	A	HORIZONT	ACTUAL	2011/07/22 11:11	P390K
<input type="checkbox"/>	TXGC	HOR01DAY	HORIZONT Prod-Part 0.1	2008/09/25	A	A	HORIZONT	ACTUAL	2010/12/15 17:48	P390K
<input type="checkbox"/>	TXGC	HOR02DAY	HORIZONT Prod-Part 0.2	2008/09/25	A	A	HORIZONT	ACTUAL	2010/07/19 13:20	P390K
<input type="checkbox"/>	TXGC	HOR03DAY	HORIZONT Prod-Part 0.3	2008/09/25	A	A	HORIZONT	ACTUAL	2010/12/15 17:43	P390K
<input type="checkbox"/>	TXGC	HOR10DAY	HORIZONT Prod-Part 1	2002/06/15	A	A	HORIZONT	ACTUAL	2010/07/19 13:20	P390K
<input type="checkbox"/>	TXGC	HOR20DAY	HORIZONT Prod-Part 2	2014/01/01	A	A	HORIZONT	ACTUAL	2016/03/19 13:39	P390K
<input type="checkbox"/>	TXGC	HOR25DAY	HORIZONT Prod-Part 2b	2002/06/15	A	A	HORIZONT	ACTUAL	2012/05/03 15:53	P390K
<input type="checkbox"/>	TXGC	HOR30DAY	HORIZONT Prod-Part 3	2002/06/15	A	A	HORIZONT	ACTUAL	2016/03/19 13:39	P390K
<input type="checkbox"/>	TXGC	HOR35DAY	HORIZONT Prod-Part 3b	2002/06/15	A	A	HORIZONT	ACTUAL	2012/05/03 15:53	P390K
<input type="checkbox"/>	TXGC	HOR40DAY	HORIZONT Prod-Part 4	2002/06/15	A	A	HORIZONT	ACTUAL	2010/07/19 13:20	P390K
<input type="checkbox"/>	TXGC	HOR50DAY	HORIZONT Prod-Part 5	2002/06/15	A	A	HORIZONT	ACTUAL	2010/07/19 13:20	P390K
<input type="checkbox"/>	TXGC	HOR60DAY	HORIZONT Prod-Part 6	2002/06/15	A	A	HORIZONT	ACTUAL	2010/07/19 13:20	P390K
<input type="checkbox"/>	TXGC	HOR70DAY	HORIZONT Prod-Part 7	2004/11/19	A	A	HORIZONT	ACTUAL	2016/03/19 13:38	P390K
<input type="checkbox"/>	TXGC	HOR80DAY	HORIZONT Prod-Part 8a	2004/11/22	A	A	HORIZONT	ACTUAL	2010/07/19 13:20	P390K
<input type="checkbox"/>	TXGC	HOR85DAY	HORIZONT Prod-Part 8b	2004/11/22	A	A	HORIZONT	ACTUAL	2010/07/19 13:20	P390K
<input type="checkbox"/>	TXGC	HOR94DEMO	Demo Application	2016/03/21	A	A	P390K	ACTUAL	2016/03/24 10:54	P390K
<input type="checkbox"/>	TXGC	HOR95DEMO	Demo DUR & DL prediction	2016/01/15	A	A	P390K	ACTUAL	2016/03/14 08:39	P390K
<input type="checkbox"/>	TXGC	HOR96DEMO	Demo Application	2016/03/28	A	A	P390K	ACTUAL	2016/03/29 11:07	P390K

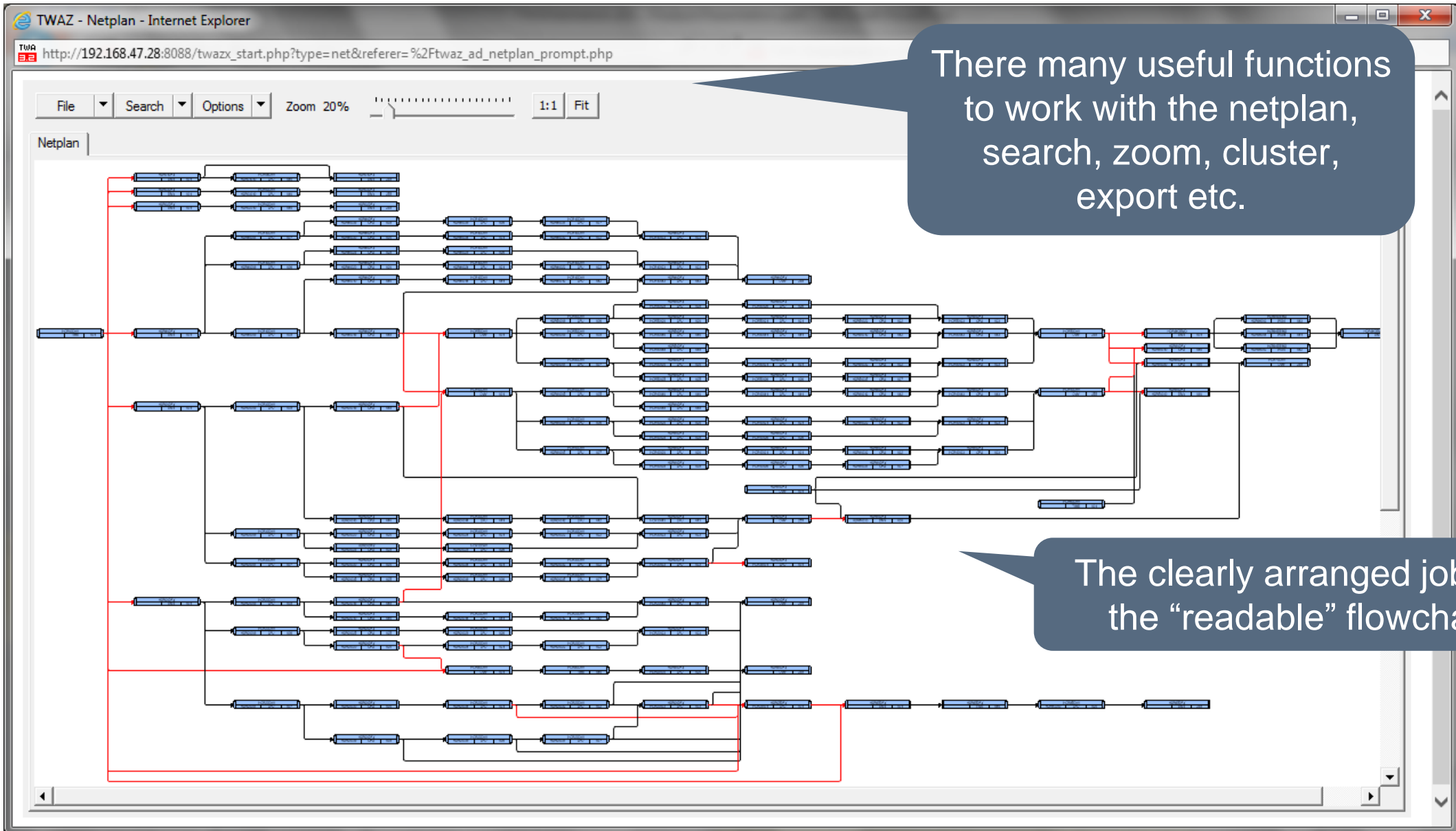
[18 row(s) have been found.]

Check:

Action Buttons: Show details | **Netplan** | Show SQL | Save to File | Compare | Report | Cancel

The list of the applications.
Press e.g. "Netplan", to see the flowchart

AD Job Flowchart



AD Job Flowchart, critical path

Use the simulation function to e.g. find the critical path through the net

It gives you information about start/end and duration of the longest job chain

AD - Simulation - Operation	
Description	
Forecast Day	2016/04/29
Crit. path calculated	Yes
Use time dependent	Yes
Use CP history durations	No
Default start time	00:00:00
Critical path duration	16:03:02
Critical path start oper.	ACTUAL HOR00DAY 2071/12/31 A 001 (2016-04-29 09:00:00)
Critical path end oper.	ACTUAL HOR96DEMO 2071/12/31 A 255 (2016-04-30 01:03:02)

AD Documentation Report

AD - List of Applications
Forecast Day: 2016/04/29
Check all | Clear all | Toggle selection

	TWS System	Application id	Description	Valid from	Type	Status	Owner	State	Last change date	User
<input type="checkbox"/>	TXGC	HOR00DAY	PRODUCTION	2002/06/15	A	A	HORIZONT	ACTUAL	2011/07/22 11:11	P390K
<input type="checkbox"/>	TXGC	HOR01DAY	HORIZONT Prod-Part 0.1	2008/09/25	A	A	HORIZONT	ACTUAL	2010/12/15 17:48	P390K
<input type="checkbox"/>	TXGC	HOR02DAY	HORIZONT Prod-Part 0.2	2008/09/25	A	A	HORIZONT	ACTUAL	2010/07/19 13:20	P390K
<input type="checkbox"/>	TXGC	HOR03DAY	HORIZONT Prod-Part 0.3	2008/09/25	A	A	HORIZONT	ACTUAL	2010/12/15 17:43	P390K
<input type="checkbox"/>	TXGC	HOR10DAY	HORIZONT Prod-Part 1	2002/06/15	A	A	HORIZONT	ACTUAL	2010/07/19 13:20	P390K
<input type="checkbox"/>	TXGC	HOR20DAY	HORIZONT Prod-Part 2	2014/01/01	A	A	HORIZONT	ACTUAL	2016/03/19 13:39	P390K
<input type="checkbox"/>	TXGC	HOR25DAY	HORIZONT Prod-Part 2b	2002/06/15	A	A	HORIZONT	ACTUAL	2012/05/03 15:53	P390K
<input type="checkbox"/>	TXGC	HOR30DAY	HORIZONT Prod-Part 3	2002/06/15	A	A	HORIZONT	ACTUAL	2016/03/19 13:39	P390K
<input type="checkbox"/>	TXGC	HOR35DAY	HORIZONT Prod-Part 3b	2002/06/15	A	A	HORIZONT	ACTUAL	2012/05/03 15:53	P390K
<input type="checkbox"/>	TXGC	HOR40DAY	HORIZONT Prod-Part 4	2002/06/15	A	A	HORIZONT	ACTUAL	2010/07/19 13:20	P390K
<input type="checkbox"/>	TXGC	HOR50DAY	HORIZONT Prod-Part 5	2002/06/15	A	A	HORIZONT	ACTUAL	2010/07/19 13:20	P390K
<input type="checkbox"/>	TXGC	HOR60DAY	HORIZONT Prod-Part 6	2002/06/15	A	A	HORIZONT	ACTUAL	2010/07/19 13:20	P390K
<input type="checkbox"/>	TXGC	HOR70DAY	HORIZONT Prod-Part 7	2004/11/19	A	A	HORIZONT	ACTUAL	2010/07/19 13:20	P390K
<input type="checkbox"/>	TXGC	HOR80DAY	HORIZONT Prod-Part 8a	2004/11/22	A	A	HORIZONT	ACTUAL	2010/07/19 13:20	P390K
<input type="checkbox"/>	TXGC	HOR85DAY	HORIZONT Prod-Part 8b	2004/11/22	A	A	HORIZONT	ACTUAL	2010/07/19 13:20	P390K
<input type="checkbox"/>	TXGC	HOR94DEMO	Demo Application	2016/03/21	A	A	HORIZONT	ACTUAL	2016/03/21 15:53	P390K
<input type="checkbox"/>	TXGC	HOR95DEMO	Demo DUR & DL prediction	2016/01/15	A	A	HORIZONT	ACTUAL	2016/01/15 15:53	P390K
<input checked="" type="checkbox"/>	TXGC	HOR96DEMO	Demo Application	2016/03/28	A	A	HORIZONT	ACTUAL	2016/03/28 15:53	P390K

[18 row(s) have been found.]

Check all | Clear all | Toggle selection

Action Buttons: Show details | Netplan | Show SQL | Save to File | **Report** | Cancel

Callout: Check one or more Applications and click on "Report" to create a printable documentation of one or more applications

AD Documentation Report

The screenshot shows the TWS/WebAdmin for z/OS interface. The browser address bar displays `http://192.168.47.28:8088/index.php`. The page title is **TWS/WebAdmin for z/OS**. The interface is divided into a left-hand menu and a main content area.

Menu:

- General
 - Home
- TWS Systems
 - CP+LTP
 - AD
- Users
- Options
- Log Files Administration
- AD
 - Insert
 - List, Modify, Delete
 - TWS Update
 - Predefined Run Cycle
 - Simulation
- Query AD Database
 - Applications
 - Operations
 - Dependencies
 - Spec. Res./Oper.
- CP + LTP
 - Insert
 - List, Modify, Delete
- Query Current Plan
 - Occurrences
 - Operations
 - Spec. Res. usage
 - Old CP Versions
- Reporting/Statistic
 - Job History
 - TWS Activity
 - Duration Analysis
 - EndTime Analysis
- Status monitor

AD Report Selection

Select Parts

Run Cycle	<input checked="" type="checkbox"/>
Run Days	<input checked="" type="checkbox"/>
Operation Text	<input checked="" type="checkbox"/>
Operation Details	<input checked="" type="checkbox"/>
Predecessors	<input checked="" type="checkbox"/>
Conditional Dependencies	<input checked="" type="checkbox"/>
Successors	<input checked="" type="checkbox"/>
Special Resources	<input checked="" type="checkbox"/>
Host Logs	
Clientlog	<input type="checkbox"/>
Hostlog	<input type="checkbox"/>
Eqqmlog	<input type="checkbox"/>

Check all | Clear all | Toggle selection

Generate HTML file

File Name

Number of Operations in the Operation Detail Table

Action Buttons:

Callout 1: Select the parts you want to include in the report

Callout 2: The report can optionally be generated as html output. You can store it on a file server and give it to someone else

AD Documentation Report

HOR96DEMO

Application id	HOR96DEMO
TWS System	TXGC
Record Status	ACTUAL
Description	Demo Application
Owner	P390K
Valid from - to	2016/03/28 - 2071/12/31
Priority	5
Auth. group	
Status	A
Type	A
Calendar Name	DEFAULT
Group Definition	
Deadline Smoothing Factor	
Deadline Feedback Limit	

The result is one file, which contains all selected parts of all selected applications ...

Run Days

2016

	Mo	Tu	We	Th	Fr	Sa	Su	Mo	Tu	We	Th	Fr	Sa	Su	Mo	Tu	We	Th	Fr	Sa	Su	Mo	Tu	We	Th	Fr	Sa	Su	Mo	Tu							
January					01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
February	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29								
March		01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31					
April				01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30				
May						01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
June			01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30					
July					01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
August	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31						
September				01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30				
October						01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
November	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30							

Scroll down for more

AD Documentation Report

Operation Text

Operation	Ws id	Opno	Operation Text
	DMY	001	
HOR96001	W001	011	Job 1
HOR96002	W002	012	Job 2
HOR96003	W003	013	Job 3
	DMY	255	

Operation Details

Number of Operations in the Operation Detail Table: 15

Item	001	011	012	013	255
Jobname		HOR96001	HOR96002	HOR96003	
Workstation	DMY	W001	W002	W003	DMY
Operation Number	001	011	012	013	255
Description		Job 1	Job 2	Job 3	
Duration	00:00:01	00:01:00	00:02:00	00:03:00	00:00:01
Resource 1	00	00	00	00	00
Resource 2	00	00	00	00	00
Parallel Servers	01	01	01	01	01
Job Class					
Error Tracking	Y	Y	Y	Y	Y
Highest Return Code	0	0	0	0	0
External Monitor	N	N	N	N	N
Cond Recovery Job	N	N	N	N	N
Centralized Script	N	N	N	N	N
Critical	N	N	N	N	N
Policy					
Class					
Submit	Y	Y	Y	Y	Y
Hold/Release	Y	Y	Y	Y	Y
Time Dependent	Y	N	N	N	N
Suppress if late	N	N	N	N	N
Deadline WTO	N	N	N	N	N

Operation details overview ...

Scroll down for more

AD Documentation Report

Browser address bar: C:\Users\helmut\AppData\Local\Microsoft\Windows\Temporary Internet Files\Content.IE5\ TWS/WebAdmin for z/OS

Predecessors

Operation	Ws id	Opno	Pred Operation	Pred WS id	Pred Opno	Pred Application
	DMY	001		DMY	255	HOR50DAY
Hide Detail						
Description:						
Print Options: A - Always						
HOR96001	W001	011		DMY	001	
HOR96002	W002	012		DMY	001	
HOR96003	W003	013		DMY	001	
	DMY	255	HOR96001	W001	011	
	DMY	255	HOR96002	W002	012	
	DMY	255	HOR96003	W003	013	

Predecessors, Successors, Special Resources, ...

Successors

Operation	Ws id	Opno	Succ Operation	Succ WS id	Succ Opno	Succ Application
	DMY	001	HOR96001	W001	011	
	DMY	001	HOR96002	W002	012	
	DMY	001	HOR96003	W003	013	
HOR96001	W001	011		DMY	255	
HOR96002	W002	012		DMY	255	
HOR96003	W003	013		DMY	255	

Use Ctrl+P to print the Report

Special Resources

Operation	Ws id	Opno	Name	Numeric amount	Keep on err.	Type
HOR96002	W002	012	TS.HOR9000			X
HOR96002	W002	012	TS.HOR9001			S
HOR96002	W002	012	TS.HOR9002			S
HOR96003	W003	013	TSXY000A			S

Find Predecessor Job (not found)

Menu

- General
 - Home
- TWS Systems
 - CP+LTP
 - AD
- Users
- Options
- Log Files Administration
- AD
 - Insert
 - List, Modify, Delete
 - TWS Update
 - Predefined Run Cycle
 - Simulation
- Query AD Database
 - Applications
 - Operations
 - Dependencies
 - Spec. Res./Oper.
- CP + LTP
 - Insert
 - List, Modify, Delete
- Query Current Plan
 - Occurrences
 - Operations
 - Spec. Res. usage
 - Old CP Versions
- Reporting/Statistic
 - Job History
 - TWS Activity
 - Duration Analysis
 - EndTime Analysis
- Status monitor

open all | close all

Query Application Description - Dependencies

TWS System	*	TXGC TWFC TWHC
Application id	=	<input type="text"/> ?
Owner id	=	<input type="text"/> ?
Authority group id	=	<input type="text"/> ?
Workstation	=	<input type="text"/> ?
Operation Number	=	<input type="text"/> ?
Jobname	=	<input type="text"/> ?
Status	=	<input type="text"/> ?
Valid from	=	<input type="text"/> / <input type="text"/> / <input type="text"/> ?
Valid to	=	<input type="text"/> / <input type="text"/> / <input type="text"/> ?
Pred. appl. id	=	<input type="text"/> ?
Pred. workstation	=	<input type="text"/> ?
Pred. op. number	=	<input type="text"/> ?
Pred. jobname	=	<input type="text" value="*notfnd"/> x ?
Pred. status	=	<input type="text"/> ?
Pred. valid from	=	<input type="text"/> / <input type="text"/> / <input type="text"/> ?
Pred. valid to	=	<input type="text"/> / <input type="text"/> / <input type="text"/> ?
Last change date	=	<input type="text"/> / <input type="text"/> / <input type="text"/> : <input type="text"/> : <input type="text"/> ?

Action Buttons: OK Netplan Show SQL Load Selection Save Selection Reset Cancel

In "Query AD Dependency", you can search for predecessors and/or successors

It's also possible to search for predecessors that do not exist (which is maybe a mistake). They are marked as pred.jobname = *notfnd*

Find Predecessor Job (not found)

AD - List of Dependencies

Check all | Clear all | Toggle selection

TWS System	Application id	Status	Workstation	Op no	Jobname	Pred. appl. id	Pred. status	Pred. workstation	Pred. op no	Pred. jobr
<input checked="" type="checkbox"/>	TXGC	HOR10DAY	A	CPU	010	HOR10010	APPLNOTTHERE	CPU	100	*NOTFND*
<input type="checkbox"/>	TXGC	PETRTTEST01	A	CPU	010	TEST01	APPLNOTTHERE	CPU	100	*NOTFND*
<input type="checkbox"/>	TXGC	TEST01	A	CPU	010	TEST01	APPLNOTTHERE	CPU	100	*NOTFND*

[3 row(s) have been found.]

Netplan

File Search Options Zoom 33% 1:1 Fit

Netplan

NOTFND TXGC.APPLNOTTHERE A.20711231

Show details Netplan Show SQL Save to File Report Cancel

These operations have external predecessors which do not exist

You can see it also in the job netplan, *notfnd* are marked red

Find Jobs using a Special Resource (AD)

Query Application Description - Spec. Res./Oper.

TWS System: *
TXGC
TWFC
TWHC

Application id: = [dropdown] [input] ?

Status: = [dropdown] [dropdown] [+/-]

Valid from: = [dropdown] [input] / [input] / [input] ? [+/-]

Valid to: = [dropdown] [input] / [input] / [input] ? [+/-]

Owner id: = [dropdown] [input] ? [+/-]

Authority group id: = [dropdown] [input] ? [+/-]

Jobname: = [dropdown] [input] ? [+/-]

Workstation: = [dropdown] [input] ? [+/-]

Operation Number: = [dropdown] [input] [+/-]

Special Resource: = [dropdown] [input: ts.*] [+/-]

Quantity: = [dropdown] [input] [+/-]

Type: = [dropdown] [dropdown] [+/-]

Keep On Err.: = [dropdown] [dropdown] [+/-]

Avail. On Complete: = [dropdown] [dropdown] [+/-]

Last change date: = [dropdown] [input] / [input] / [input] [input]:[input] ? [+/-]

User: = [dropdown] [input] ? [+/-]

Action Buttons: OK, Netplan, Show SQL, Load Selection, Save Selection, Reset, Cancel

In "Query AD Dependency", you can search for operations with special resources

Find Jobs using a Special Resource (AD)

The screenshot displays the TWS/WebAdmin for z/OS interface. The main window shows a table titled "AD - List of Spec. Res./Oper." with columns for TWS System, Application id, Status, Jobname, Workstation, Op no, Special Resource, Type, Quantity, Keep On Err., and Avail. On Complete. A callout bubble points to the table with the text "These operations are using Special Resources".

TWS System	Application id	Status	Jobname	Workstation	Op no	Special Resource	Type	Quantity	Keep On Err.	Avail. On Complete
<input type="checkbox"/>	TXGC		HOR90DEMO	A	AHZ00011	CPU	011	TS.HOR9002	S	
<input type="checkbox"/>	TXGC		HOR90DEMO	A	AHZ00011	CPU	011	TS.HOR9001	S	
			AHZ00011	CPU	011	TS.HOR9000	X			
			AHZ00011	CPU	011	TS.HOR9000	S			
			AHZ00011	CPU	011	TS.HOR9001	X			
			AHZ00011	CPU	011	TS.HOR9001	S			
			AHZ00011	CPU	011	TS.HOR9002	S			
			AHZ00011	CPU	011	TS.HOR9000	X			
			HOR96002	W002	012	TS.HOR9002	S			
			HOR96002	W002	012	TS.HOR9000	X			
			HOR96002	W002	012	TS.HOR9001	S			

[11 row(s) have been found.]

An inset window titled "TWAZ - Netplan - Internet Explorer" shows a netplan diagram for "ACTUAL TXGC.HOR90DEMO.A.20711231". The diagram illustrates the job's resource requirements, including special resources like TS.HOR9002, TS.HOR9001, and TS.HOR9000, and their connections to the job's execution environment.

A callout bubble points to the netplan diagram with the text "You can see it also in the job netplan (optional)".

See how your workload is planned for today

The screenshot shows the TWS/WebAdmin for z/OS interface. The browser address bar displays `http://192.168.47.28:8088/index.php`. The page title is "TWS/WebAdmin for z/OS". The main content area is titled "Query Plan - Occurrences".

Menu:

- General
 - Home
- TWS Systems
 - CP+LTP
 - AD
- Users
- Options
- Log Files Administration
- AD
 - Insert
 - List, Modify, Delete
 - TWS Update
 - Predefined Run Cycle
 - Simulation
- Query AD Database
 - Applications
 - Operations
 - Dependencies
 - Spec. Res./Oper.
- CP + LTP
 - Insert
 - List, Modify, Delete
 - Query Current Plan
 - Occurrences
 - Operations
 - Spec. Res. usage
 - Old CP Versions
- Reporting/Statistic
 - Job History
 - TWS Activity
 - Duration Analysis
 - EndTime Analysis
- Status monitor

Query Plan - Occurrences Form:

TWS System	=	▼	TXGC TWFC TWHC	
Application id	=	▼	hor*day*	?
Description	=	▼		?
Input arrival date	=	▼	2016 / 03 / 30	?
Jobname	=	▼		?
Workstation	=	▼		?
Owner id	=	▼	HORIZONT	?
Owner Text	=	▼		?
Authority group id	=	▼		?
Group Definition	=	▼		?
Priority	=	▼		?
Status	=	▼	▼	?

SQL:

ORDER BY

Action Buttons: OK, Barchart, Netplan, Show SQL, Load Selection, Save Selection, Reset, Cancel

Callout: Specify your filter criteria

See how your workload is planned for today

Plan - List of Occurrences

Check all | Clear all | Toggle selection

	TWS System	Application id	Description	Input arrival date	Started at	Priority	Add Function	Status
<input type="checkbox"/>	TXGC	HOR00DAY	PRODUCTION	2016/03/30 06:00	2016/03/30 09:00	5		C
<input type="checkbox"/>	TXGC	HOR01DAY	HORIZONT Prod-Part 0.1	2016/03/30 06:00	2016/03/30 09:00	5		C
<input type="checkbox"/>	TXGC	HOR02DAY	HORIZONT Prod-Part 0.2	2016/03/30 06:00	2016/03/30 09:00	5		C
<input type="checkbox"/>	TXGC	HOR03DAY	HORIZONT Prod-Part 0.3	2016/03/30 06:00	2016/03/30 09:00	5		C
<input type="checkbox"/>	TXGC	HOR10DAY	HORIZONT Prod-Part 1	2016/03/30 06:00	2016/03/30 09:00	5		C
<input type="checkbox"/>	TXGC	HOR20DAY	HORIZONT Prod-Part 2	2016/03/30 06:00	2016/03/30 09:00	7		E
<input type="checkbox"/>	TXGC	HOR25DAY	HORIZONT Prod-Part 2b	2016/03/30 06:00		5		W
<input type="checkbox"/>	TXGC	HOR30DAY	HORIZONT Prod-Part 3	2016/03/30 06:00	2016/03/30 09:00	5		E
<input type="checkbox"/>	TXGC	HOR35DAY	HORIZONT Prod-Part 3b	2016/03/30 06:00		5		W
<input type="checkbox"/>	TXGC	HOR40DAY	HORIZONT Prod-Part 4	2016/03/30 06:00		5		W
<input type="checkbox"/>	TXGC	HOR50DAY	HORIZONT Prod-Part 5	2016/03/30 06:00		5		W
<input type="checkbox"/>	TXGC	HOR60DAY	HORIZONT Prod-Part 6	2016/03/30 06:00		5		W
<input type="checkbox"/>	TXGC	HOR70DAY	HORIZONT Prod-Part 7	2016/03/30 06:00	2016/03/30 05:01	5		S
<input type="checkbox"/>	TXGC	HOR80DAY	HORIZONT Prod-Part 8a	2016/03/30 06:00	2016/03/30 09:38	5		C
<input type="checkbox"/>	TXGC	HOR85DAY	HORIZONT Prod-Part 8b	2016/03/30 06:00		5		W

[15 row(s) have been found.]

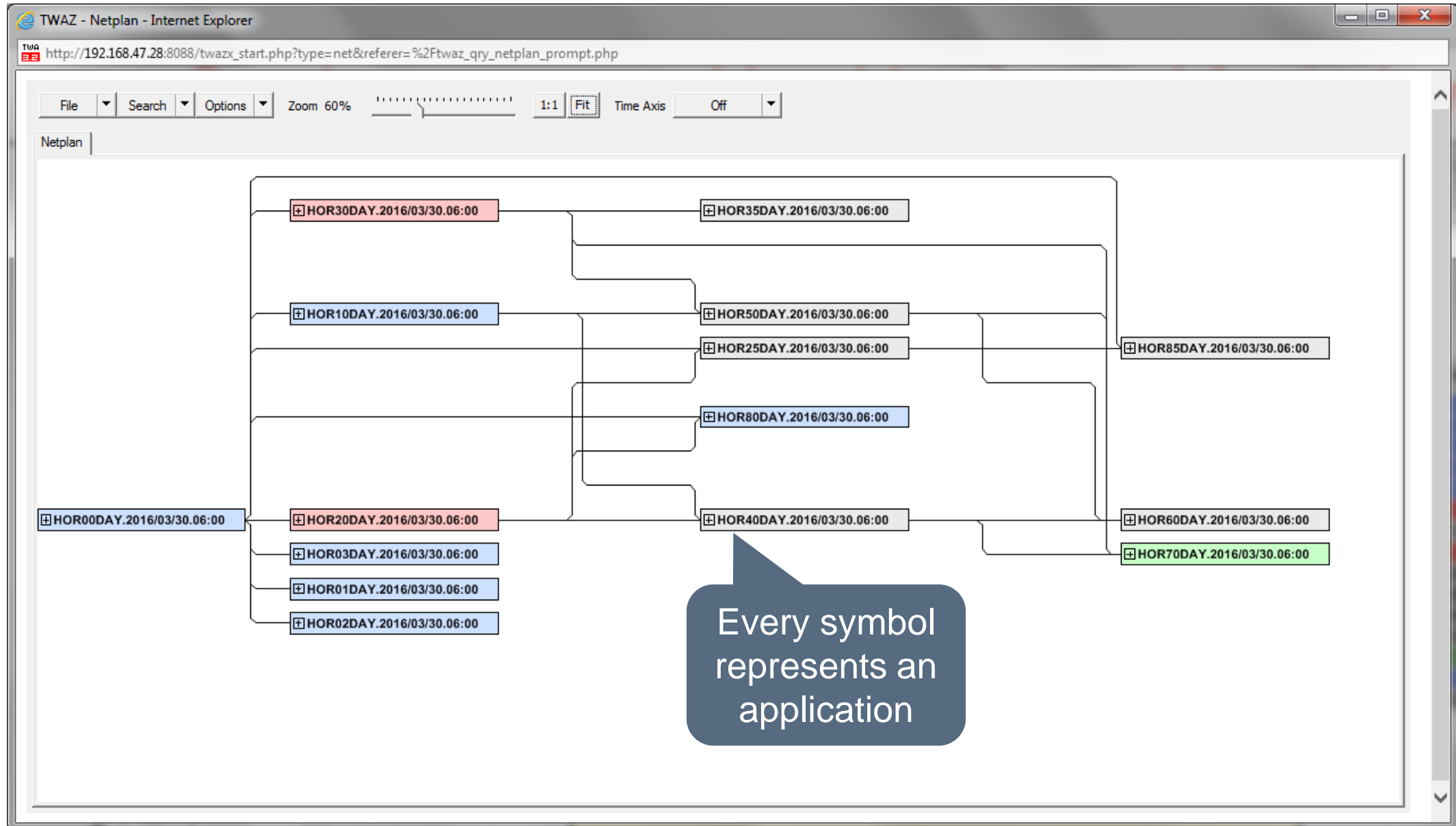
Check all | Clear all | Toggle selection

Action Buttons: Show details | Barchart | **Netplan** | Show SQL | Save to File | Cancel

Applications, Input Arrival, Status etc.

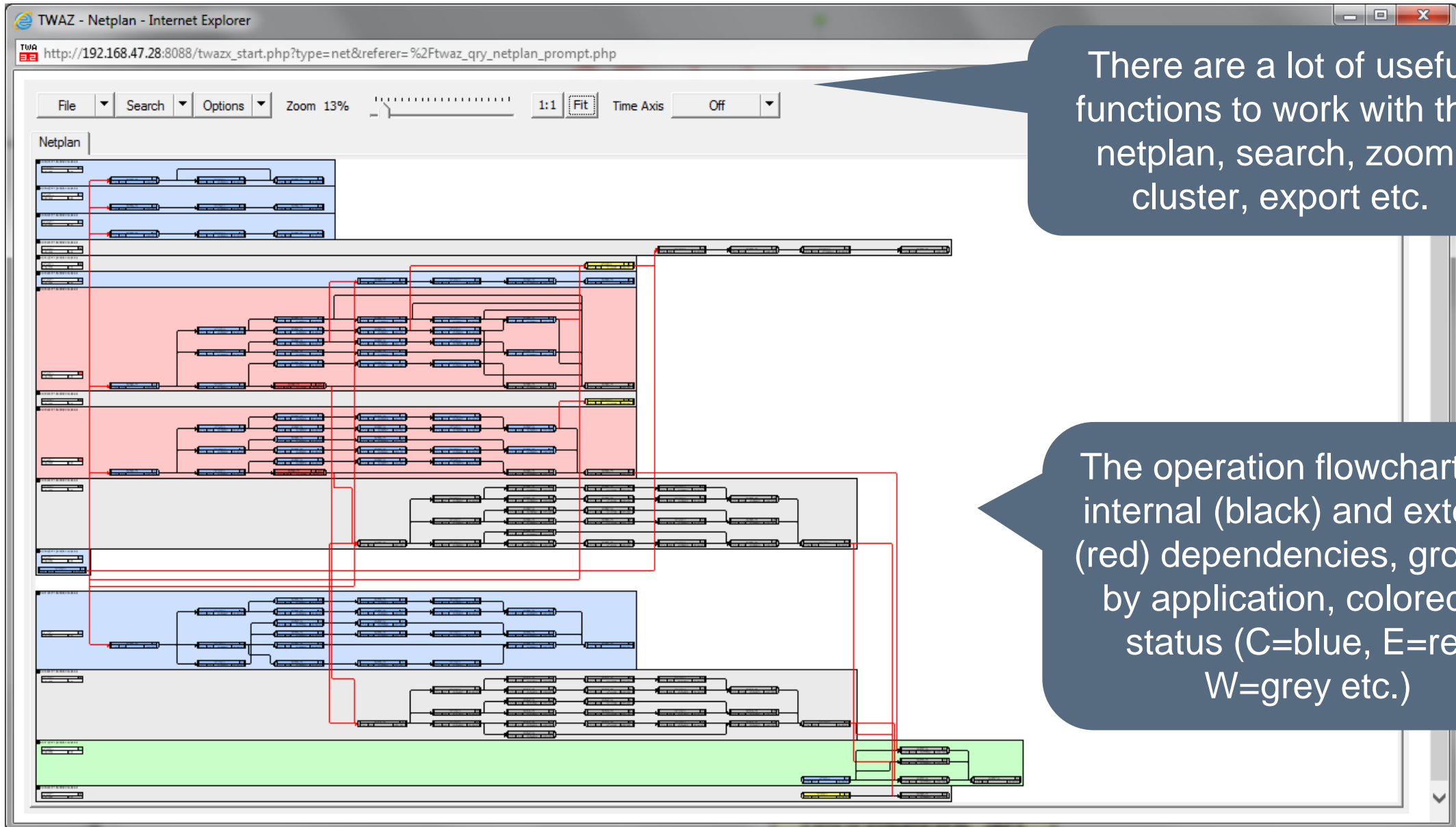
Press e.g. "Netplan", to see the flowchart

CP Application Flowchart



Every symbol represents an application

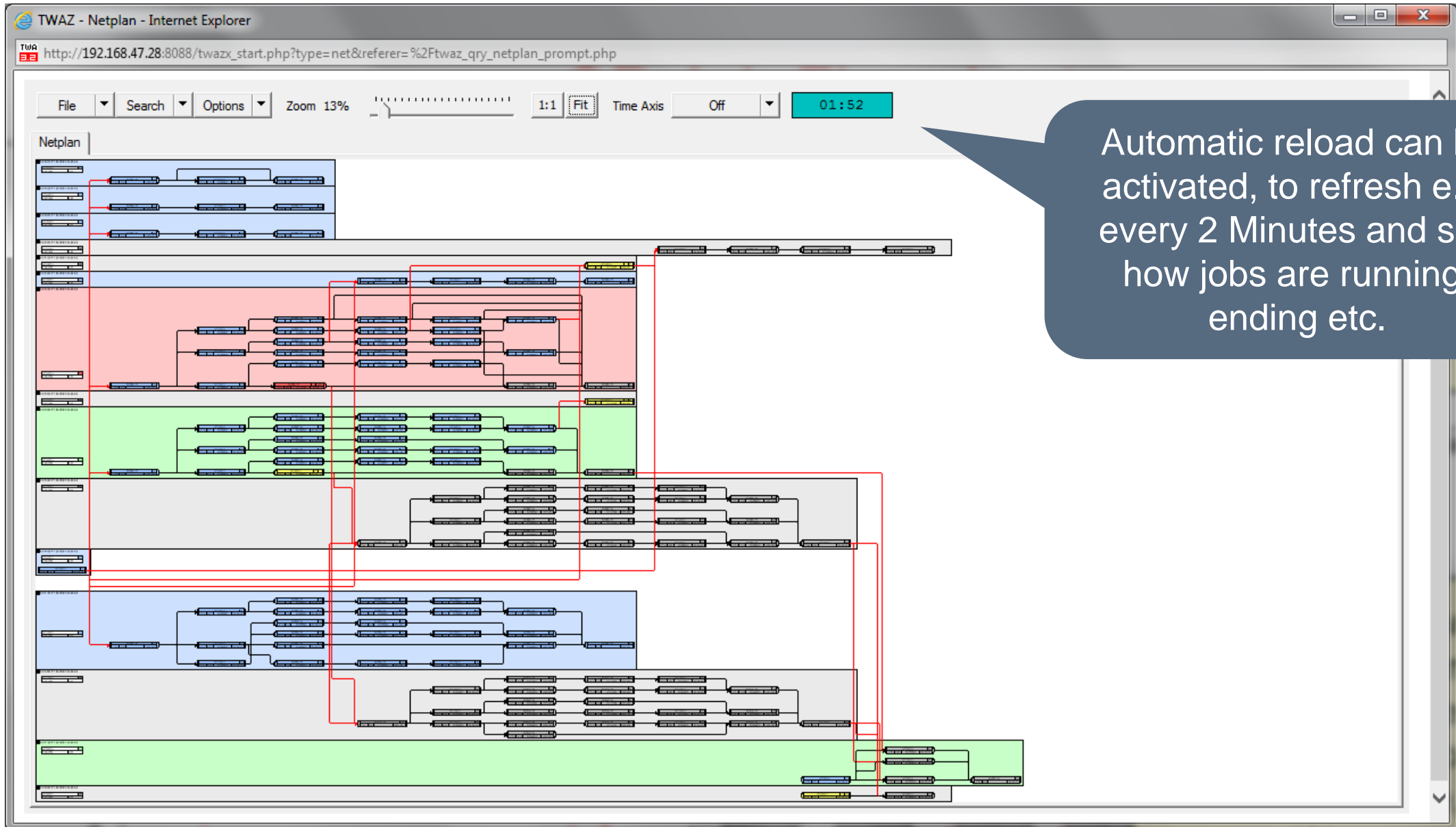
CP Job Flowchart



There are a lot of useful functions to work with the netplan, search, zoom, cluster, export etc.

The operation flowchart with internal (black) and external (red) dependencies, grouped by application, colored by status (C=blue, E=red, W=grey etc.)

CP Job Flowchart



Automatic reload can be activated, to refresh e.g. every 2 Minutes and see how jobs are running, ending etc.

See how your workload is planned for today

Query Plan - Operations

TWS System: TXGC, TWFC, TWHC

Jobname: = [] ?

Workstation: = [] ?

Description: = []

Application id: = [] ?

Input arrival date: = []/[]/[] []:[] ?

Planned start date: > [2016]/[03]/[31] [00]:[00] ?

Planned end date: <= [2016]/[03]/[31] [02]:[00] ?

Planned end date: = []/[]/[] []:[] ?

Actual start date: = []/[]/[] []:[] ?

Actual end date: = []/[]/[] []:[] ?

Actual Duration: = []

Estimated Duration: = []

Owner id: = [] ?

Authority group id: = [] ?

Group Definition: = [] ?

Priority: = []

Status: = []

Action Buttons: OK, Barchart, Netplan, Show SQL, Load Selection, Save Selection, Reset, Cancel

Menu: General, Home, TWS Systems, CP+LTP, AD, Users, Options, Log Files Administration, AD, Insert, List, Modify, Delete, TWS Update, Predefined Run Cycle, Simulation, Query AD Database, Applications, Operations, Dependencies, Spec. Res./Oper., CP + LTP, Insert, List, Modify, Delete, Query Current Plan, Occurrences, Operations, Spec. Res. usage, Old CP Versions, Reporting/Statistic, Job History, TWS Activity, Duration Analysis, EndTime Analysis, Status monitor

Another useful CP filter is e.g. based on operation Planned Start, to find all jobs planned to run in a specific time range

See how your workload is planned

TWS/WebAdmin for z/OS

Plan - List of Operations

< 1 2 3 4 5 6 7 8 9 > All

Check all | Clear all | Toggle selection

TWS System	Application id	Application input arrival date	Ws id	Op no	Text	Jobname	Status	Ext.St.	Error Code	Planned Start	Actual Sta
<input type="checkbox"/>	TXGC	XINFODB2DEMO	2016/03/30 06:00	DMY	255	End		W		2016/03/31 00:01:03	
<input type="checkbox"/>	TXGC	XINFODB2DEMO	2016/03/30 06:00	CPU	017	C Batch Pgm	DB2C	W		2016/03/31 00:01:01	
<input type="checkbox"/>	TXGC	XINFODB2DEMO	2016/03/30 06:00	CPU	010	COBOL Batch Pgm	DB2COB2	W		2016/03/31 00:01:01	
<input type="checkbox"/>	TXGC	XINFODB2DEMO	2016/03/30 06:00	CPU	020	Compare Results	DB2COMP	W		2016/03/31 00:01:02	
<input type="checkbox"/>	TXGC	XINFODB2DEMO	2016/03/30 06:00	DMY	025	Demo for DSNTEP2	DB2PL11	W		2016/03/31 00:01:01	
<input type="checkbox"/>	TXGC	XINFODB2DEMO	2016/03/30 06:00	CPU	015	PL1 Batch Pgm	DB2PL12	W		2016/03/31 00:01:01	
<input type="checkbox"/>	TXGC	TCPA04	2016/03/30 08:00	WAIT	070		TCPJ07	W		2016/03/31 00:05:01	
<input type="checkbox"/>	TXGC	HOR96DEMO	2016/03/30 06:00	DMY	001			W		2016/03/31 01:00:00	
<input type="checkbox"/>	TXGC	HOR96DEMO	2016/03/30 06:00	W001	011	Job 1	HOR96001	W		2016/03/31 01:00:01	
<input type="checkbox"/>	TXGC	HOR96DEMO	2016/03/30 06:00	W002	012	Job 2	HOR96002	W		2016/03/31 01:00:01	
<input type="checkbox"/>	TXGC	HOR96DEMO	2016/03/30 06:00	W003	013	Job 3	HOR96003	W		2016/03/31 01:00:01	
<input type="checkbox"/>	TXGC	TCPA02	2016/03/30 08:00	WAIT	030		TCPJ03	W		2016/03/31 01:00:00	
<input type="checkbox"/>	TXGC	XINFO36	2016/03/30 06:00	TIME	001	Start	TIME0100	*	T	2016/03/31 01:00:00	
<input type="checkbox"/>	TXGC	XINFO37	2016/03/30 06:00	TIME	001	Start	TIME0100	*	T	2016/03/31 01:00:00	
<input type="checkbox"/>	TXGC	XINFO36	2016/03/30 06:00	DMY	030	get UC4 Files	UC4FTP	W		2016/03/31 01:00:01	
<input type="checkbox"/>	TXGC	XINFO36	2016/03/30 06:00	CPU	100	SCAN Assembler	XXRJASM	W		2016/03/31 01:00:01	
<input type="checkbox"/>	TXGC	XINFO36	2016/03/30 06:00	CPU	105	SCAN C	XXRJCC	W		2016/03/31 01:00:01	
<input type="checkbox"/>	TXGC	XINFO36	2016/03/30 06:00	CPU	070	SCAN CICS1	XXRJCI01	W		2016/03/31 01:00:01	
<input type="checkbox"/>	TXGC	XINFO36	2016/03/30 06:00	CPU	071	SCAN CICS2	XXRJCI02	W		2016/03/31 01:00:01	
<input type="checkbox"/>	TXGC	XINFO36	2016/03/30 06:00	CPU	072	Merge CICS	XXRJCIM	W		2016/03/31 01:00:54	
<input type="checkbox"/>	TXGC	XINFO36	2016/03/30 06:00	CPU	015	SCAN 1. Control-M (zOS)	XXRJCM11	W		2016/03/31 01:00:53	
<input type="checkbox"/>	TXGC	XINFO36	2016/03/30 06:00	CPU	016	SCAN 2. Control-M (zOS)	XXRJCM12	W		2016/03/31 01:00:42	
<input type="checkbox"/>	TXGC	XINFO36	2016/03/30 06:00	CPU	017	SCAN 3. Control-M (DS)	XXRJCM21	W		2016/03/31 01:00:50	
<input type="checkbox"/>	TXGC	XINFO36	2016/03/30 06:00	CPU	018	SCAN 4. Control-M (DS)	XXRJCM22	W		2016/03/31 01:00:52	

Action Buttons: Occurrence details | Operation details | All dependencies | Barchart | Netplan | Show SQL | Save to File | Beta92 | Cancel

All Jobs e.g. planned tomorrow between midnight and 2am

Common Errorlist

The screenshot shows the TWS/WebAdmin for z/OS interface. The left sidebar contains a menu with the following structure:

- General
 - Home
- TWS Systems
 - CP+LTP
 - AD
- Users
- Options
- Log Files Administration
- AD
 - Insert
 - List, Modify, Delete
 - TWS Update
 - Predefined Run Cycle
 - Simulation
- Query AD Database
 - Applications
 - Operations
 - Dependencies
 - Spec. Res./Oper.
- CP + LTP
 - Insert
 - List, Modify, Delete
 - Query Current Plan (highlighted with a red arrow)
 - Occurrences
 - Operations
 - Spec. Res. usage
 - Old CP Versions
 - Reporting/Statistic
 - Job History
 - TWS Activity
 - Duration Analysis
 - EndTime Analysis
 - Status monitor

The main content area is titled "Query Plan - Operations" and displays a table of filter criteria for jobs in the CP. The "TWS System" field is set to TXGC, TWFC, and TWHC. The "Status" field is set to "Error".

Field	Operator	Value	Help	Expand
TWS System		TXGC TWFC TWHC		
Jobname	=		?	+/-
Workstation	=		?	+/-
Description	=			+/-
Application id	=		?	+/-
Input arrival date	=		?	+/-
Planned start date	=		?	+/-
Planned end date	=		?	+/-
Actual start date	=		?	+/-
Actual end date	=		?	+/-
Actual Duration	=			+/-
Estimated Duration	=			+/-
Owner id	=		?	+/-
Authority group id	=		?	+/-
Group Definition	=		?	+/-
Priority	=			+/-
Status	=	Error		+/-
Ext.St.	=			+/-
Manually Held	=			+/-

Additional filter criteria for jobs in the CP, e.g. status error

Action Buttons: OK, Barchart, Netplan, Show SQL, Load Selection, Save Selection, Reset, Cancel

Common Errorlist

Plan - List of Operations

All jobs in error from all IWS systems

Check all | Clear all | Toggle selection

<input type="checkbox"/>	TWS System	Application id	Application input arrival date	Ws id	Op no	Text	Jobname	Status	Ext.St.	Error Code	Planned s
<input type="checkbox"/>	TXGC	CONDA	2016/03/30 06:00	CPU	010	First Job	CNDJA	E		0008	2016/03/30
<input type="checkbox"/>	TWFC	CONDA1	2016/03/30 06:00	CPU	010		CNDJA	E		0008	2016/03/30
<input checked="" type="checkbox"/>	TXGC	HOR20DAY	2016/03/30 06:00	CPU	015	Operation 015	HOR20015	E		S806	2016/03/30
<input type="checkbox"/>	TXGC	HOR30DAY	2016/03/30 06:00	CPU	015	Operation 015	HOR30015	E		S806	2016/03/30
<input type="checkbox"/>	TWHC	HORIZONTJB111111	2016/03/28 06:00	CPU	025		ADT	E		OSUF	2016/03/30
<input type="checkbox"/>	TWHC	HORIZONTJB111111	2016/03/29 06:00	CPU	025		ADT	E		OSUF	2016/03/30
<input type="checkbox"/>	TWHC	HORIZONTJB111111	2016/03/30 06:00	CPU	025		ADT	E		OSUF	2016/03/30
<input type="checkbox"/>	TWHC	HORIZONTJB111111	2016/03/31 06:00	CPU	025		ADT	E		OSUF	2016/03/31
<input type="checkbox"/>	TWFC	TESTBETA92	2016/03/30 06:00	CPU	002		B92T02	E		S806	2016/03/30
<input type="checkbox"/>	TWFC	TESTBETA9201	2016/03/30 06:00	CPU	002		B92T02	E		S806	2016/03/30

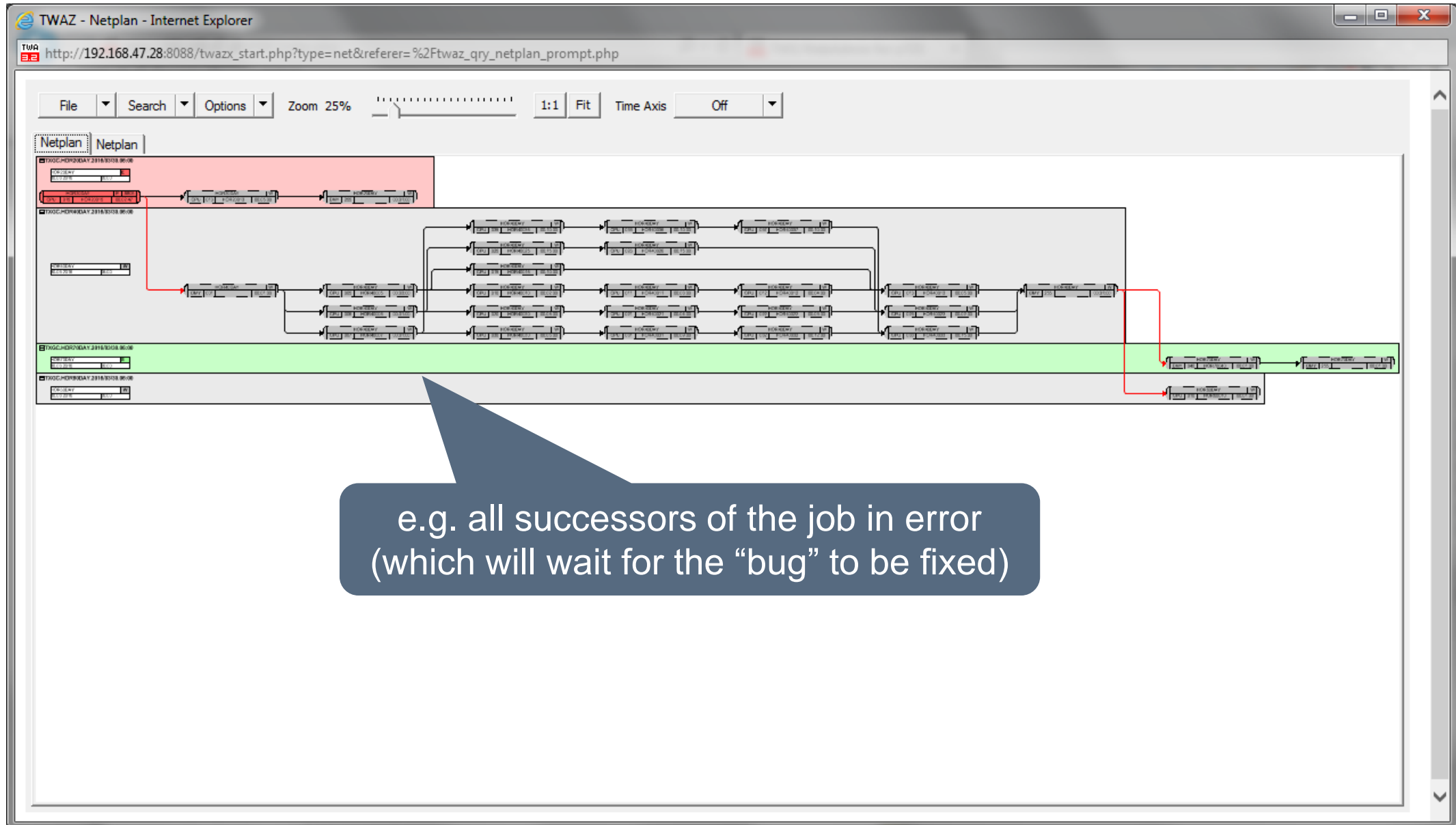
[10 row(s) have been found.]

Check all | Clear all | Toggle selection

Action Buttons: Occurrence details | Operation details | **All dependencies** | Barchart | **Netplan** | Show SQL | Save to File | Beta92 | Cancel

You can get all dependencies of an operation with unlimited levels as a table ("All dependencies") or flowchart ("Netplan")

CP Successor Flowchart



e.g. all successors of the job in error
(which will wait for the "bug" to be fixed)

Critical Path (CP)

Search critical path mark the jobs in the flowchart

Total duration of the critical path

The result list of critical jobs, with planned start time etc.

Node Id	Jobname	Status	Start time	Duration	
TXGC.HOR20DAY.2016/03/30.06:00.015	HOR20015	E	30.03.2016 09:11:02	0000:10:00	30.03.2016
TXGC.HOR40DAY.2016/03/30.06:00.001		W	30.03.2016 09:21:02	0000:01:00	30.03.2016
TXGC.HOR40DAY.2016/03/30.06:00.007	HOR40007	W	30.03.2016 09:22:02	0000:01:00	30.03.2016
TXGC.HOR40DAY.2016/03/30.06:00.035	HOR40035	W	30.03.2016 09:23:02	0000:10:00	30.03.2016
TXGC.HOR40DAY.2016/03/30.06:00.036	HOR40036	W	30.03.2016 09:33:02	0000:10:00	30.03.2016
TXGC.HOR40DAY.2016/03/30.06:00.037	HOR40037	W	30.03.2016 09:43:02	0000:10:00	30.03.2016
TXGC.HOR40DAY.2016/03/30.06:00.033	HOR40033	W	30.03.2016 09:55:01	0000:15:00	30.03.2016
TXGC.HOR40DAY.2016/03/30.06:00.255		W	30.03.2016 10:19:01	0000:01:00	30.03.2016
TXGC.HOR70DAY.2016/03/30.06:00.040	HOR70040	W	30.03.2016 10:20:01	0000:01:00	30.03.2016
TXGC.HOR70DAY.2016/03/30.06:00.255		W	30.03.2016 10:22:01	0000:01:00	30.03.2016

Total duration: 0001:00:00

OK Copy

Interface to Beta92

The screenshot shows the TWS/WebAdmin for z/OS interface. The main content area displays a table titled "Plan - List of Operations" with columns: TWS System, Application id, Application input arrival date, Ws id, Op no, Text, Jobname, Status, Ext.St., Error Code, and Planned. The table contains 10 rows of data. The row for "TESTBETA92" is selected, and its "Status" column is highlighted in red. Below the table, there are action buttons: Occurrence details, Operation details, All dependencies, Barchart, Netplan, Show SQL, Save to File, Beta92, and Cancel. A callout bubble points to the "Beta92" button with the text: "To browse the joblog check the job and click on 'Beta92'".

Menu

- General
 - Home
- TWS Systems
 - CP+LTP
 - AD
- Users
- Options
- Log Files Administration
- AD
 - Insert
 - List, Modify, Delete
 - TWS Update
 - Predefined Run Cycle
 - Simulation
- Query AD Database
 - Applications
 - Operations
 - Dependencies
 - Spec. Res./Oper.
- CP + LTP
 - Insert
 - List, Modify, Delete
- Query Current Plan
 - Occurrences
 - Operations
 - Spec. Res. usage
 - Old CP Versions
- Reporting/Statistic
 - Job History
 - TWS Activity
 - Duration Analysis
 - EndTime Analysis
- Status monitor

open all | close all

Plan - List of Operations

Check all | Clear all | Toggle selection

	TWS System	Application id	Application input arrival date	Ws id	Op no	Text	Jobname	Status	Ext.St.	Error Code	Planned
<input type="checkbox"/>	TXGC	CONDA	2016/03/31 06:00	CPU	010	First Job	CNDJA	E		0008	2016/03/31
<input type="checkbox"/>	TXGC	HOR20DAY	2016/03/31 06:00	CPU	015	Operation 015	HOR20015	E		S806	2016/03/31
<input type="checkbox"/>	TXGC	HOR30DAY	2016/03/31 06:00	CPU	015	Operation 015	HOR30015	E		S806	2016/03/31
<input type="checkbox"/>	TWHC	HORIZONTJB111111	2016/03/29 06:00	CPU	025		ADT	E		OSUF	2016/03/31
<input type="checkbox"/>	TWHC	HORIZONTJB111111	2016/03/30 06:00	CPU	025		ADT	E		OSUF	2016/03/31
<input type="checkbox"/>	TWHC	HORIZONTJB111111	2016/03/31 06:00	CPU	025		ADT	E		OSUF	2016/03/31
<input type="checkbox"/>	TWHC	HORIZONTJB111111	2016/04/01 06:00	CPU	025		ADT	E		OSUF	2016/04/01
<input type="checkbox"/>	TWFC	TEST02	2016/03/31 17:30	AUTO	020	Test SysA		E		OAUT	2016/03/31
<input checked="" type="checkbox"/>	TWFC	TESTBETA92	2016/03/31 06:00	CPU	002		B92T02	E		S806	2016/03/31
<input type="checkbox"/>	TWFC	TESTBETA9201	2016/03/31 06:00	CPU	002		B92T02	E		S806	2016/03/31

[10 row(s) have been found.]

Check all | Clear all | Toggle selection

Action Buttons

Occurrence details | Operation details | All dependencies | Barchart | Netplan | Show SQL | Save to File | **Beta92** | Cancel

Interface to Beta92

http://192.168.47.28:8080/WebEnabler/document/open/link.do?layoutcategory=HOSTJOBi

TWS/WebAdmin for z/OS DocBrowser

User: p390k log out

Document View Print Download

Close: current

Font: medium

```
JES2 JOB LOG -- SYSTEM SOW1 -- NODE SOW1

06.40.04 JOB41193 ---- THURSDAY, 31 MAR 2016 ----
06.40.04 JOB41193 IRR010I USERID TWFC IS ASSIGNED TO THIS JOB.
06.40.04 JOB41193 ICH70001I TWFC LAST ACCESS AT 06:40:00 ON THURSDAY, MARCH 31, 2016
06.40.04 JOB41193 $HASP373 B92T02 STARTED - INIT 2 - CLASS B - SYS SOW1
06.40.04 JOB41193 IEF403I B92T02 - STARTED - TIME=06.40.04
06.40.04 JOB41193 -
06.40.04 JOB41193 --TIMINGS (MINS.)--
06.40.04 JOB41193 -JOBNAME STEPNAME PROCSTEP RC EXCP CPU SRB CLOCK SERV PG PAGE SWAP VIO SWAPS STEPNO
06.40.04 JOB41193 -B92T02 STEP1 00 8 .00 .00 .00 4 0 0 0 0 0 1
06.40.04 JOB41193 CSV003I REQUESTED MODULE IEFBR15 NOT FOUND
06.40.04 JOB41193 CSV028I ABEND806-04 JOBNAME=B92T02 STEPNAME=STEP2
06.40.04 JOB41193 IEA995I SYMPTOM DUMP OUTPUT 312
312 SYSTEM COMPLETION CODE=806 REASON CODE=00000004
312 TIME=06.40.04 SEQ=07300 CPU=0000 ASID=0028
312 PSW AT TIME OF ERROR 070C1000 814E9C08 ILC 2 INTC 0
312 NO ACTIVE MODULE FOUND
312 NAME=UNKNOWN
312 DATA AT PSW 014E9C02 - 8400181E 0A0D18FB 180C181D
312 GR 0: 00001F00 1: 84806000
312 2: 00000000 3: 00000000
312 4: 00000000 5: 008FF540
312 6: 000000FF 7: 00000000
312 8: 7F5E7150 9: 014EA130
312 A: 00000000 B: 00000000
```

B92T02.JOB41193

Page 2 of 4

Mark Find (Doc)

A new Tab or Window opens and Beta WebEnabler displays the Joblog

CP Loop Analysis Assistant

The screenshot shows the TWS/WebAdmin for z/OS interface. The browser address bar displays `http://192.168.47.28:8088/index.php`. The page title is "Query Application Description - Applications". The left-hand menu is expanded to "Query AD Database", with a red arrow pointing to it. The main content area contains a form with various fields for application details, including "TWS System" (with a dropdown menu showing "TXGC", "TWFC", and "TWHC"), "Application id", "Description", "Type", "Status", "Valid from", "Valid to", "Forecast Day", "Jobname", "Workstation", "Owner id", "Calendar id", "Group Definition", "Authority group id", "Period/Rule", "Variable Table", "Last change date", and "User". At the bottom, there are "Action Buttons" including "OK", "Netplan", "Show SQL", "Simulation", "Load Selection", "Save Selection", "CP Loop Analysis" (highlighted with a red box), "Reset", and "Cancel".

If your CP Extend Job ended with RC=08 and Message: EQQ3150E LOOP FOUND IN AN APPLICATION NETWORK use "Query AD Applications" to start the Loop Analysis

CP Loop Analysis Assistant

CP Loop Analysis

Either select a previously entered DSN

Subsystem	Loop DSN	Last status	Last check
<input type="radio"/> TXGC	SYSH.TXGC.LOOP.D160321	Loop found in dataset	2016-03-30 16:17:36

Or enter new DSN

```
EQQ3151I LOOP REDUCTION ITERATION 00001 REDUCED LOOP TO 000000012
EQQ3152I                ADID                                IADATE IATM WSD
EQQ3153I LOOP OPERATION: (HOR75DAY ) 160321 0600 DMY
EQQ3154I - PREDECESSOR OF: (HOR30DAY ) 160321 0600
EQQ3155I - SUCCESSOR OF: (HOR75DAY ) 160321 0600
EQQ3153I LOOP OPERATION: (HOR75DAY ) 160321 0600 WAIT
EQQ3154I - PREDECESSOR OF: (HOR75DAY ) 160321 0600
EQQ3155I - SUCCESSOR OF: (HOR70DAY ) 160321 0600
EQQ3153I LOOP OPERATION: (HOR70DAY ) 160321 0600 DMY
EQQ3154I - PREDECESSOR OF: (HOR75DAY ) 160321 0600
EQQ3155I - SUCCESSOR OF: (HOR70DAY ) 160321 0600
EQQ3153I LOOP OPERATION: (HOR70DAY ) 160321 0600 DMY
EQQ3154I - PREDECESSOR OF: (HOR70DAY ) 160321 0600
EQQ3155I - SUCCESSOR OF: (HOR30DAY ) 160321 0600
EQQ3153I LOOP OPERATION: (HOR30DAY ) 160321 0600 CPU
```

Enter here the EQQLOOP DSN

It will be allocated dynamically and WebAdmin take the applications which causing the loop from there

CP Loop Analysis Assistant

AD - List of Applications

Check all | Clear all | Toggle selection

	TWS System	Application id	Description	Valid from	Type	Status	Owner	State	Last change date	User
<input type="checkbox"/>	TXGC	HOR30DAY	HORIZONT Prod-Part 3	2002/06/15	A	A	HORIZONT	ACTUAL	2016/03/19 13:39	P390K
<input type="checkbox"/>	TXGC	HOR70DAY	HORIZONT Prod-Part 7	2004/11/19	A	A	HORIZONT	ACTUAL	2016/03/19 13:38	P390K
<input type="checkbox"/>	TXGC	HOR75DAY	HORIZONT Prod Loop	2016/03/19	A	A	HORIZONT	ACTUAL	2016/03/30 16:18	P390K

[3 row(s) have been found.]

Check all | Clear all | Toggle selection

Action Buttons: Show details | **Netplan** | Show SQL | Save to File | Compare | Report | Cancel

After that, we have a list of Applications and can review it's dependencies in the Netplan

CP Loop Analysis Assistant, Flowchart

The screenshot displays the TWAZ - Netplan application interface. The main window shows a complex flowchart with multiple nodes and connecting lines. A context menu is open over the flowchart, listing several options: "Search for jobs", "Search for applications", "Search for special resources", "Cycles...", "Redundant links...", and "Reset". The "Cycles..." option is highlighted. A callout box in the top right corner states: "Btw: For all flowcharts, you can choose between 'left to right' or 'top to bottom'". Another callout box, pointing to the "Cycles..." menu item, states: "Here we can search for Cycles (Loops)". The application window includes a menu bar with "File", "Search", and "Options", and a toolbar with "Zoom 26%", "1:1", and "Fit". The browser address bar shows the URL: "http://192.168.47.28:8088/twazx_start.php?type=net&referer=%2Ftwaz_ad_netplan_prompt.php".

CP Loop Analysis Assistant, Search for Cycles

The screenshot shows a web browser window titled "TWAZ - Netplan - Internet Explorer" with the URL http://192.168.47.28:8088/twaz_start.php?type=net&referer=%2Ftwaz_ad_netplan_prompt.php. The browser interface includes a menu bar with "File", "Search", and "Options", and a status bar showing "Zoom 20%", "1:1", and "Fit".

The main content area displays a network diagram titled "Netplan". The diagram consists of several interconnected nodes. Some nodes are blue, while others are red. Red boxes highlight specific nodes, indicating they are part of a cycle. Red lines connect these highlighted nodes, forming a loop. A speech bubble points to these red nodes with the text: "The Jobs (Operations) building the cycle are marked".

The Jobs (Operations) building the cycle are marked

CP Loop Analysis Assistant, Search for Cycles

The screenshot shows a web browser window titled "TWAZ - Netplan - Internet Explorer" with the URL http://192.168.47.28:8088/twaz_start.php?type=net&referer=%2Ftwaz_ad_netplan_prompt.php. The browser's search bar contains "Netplan" and "Search result 2". The main content area displays a flowchart of jobs and operations. The flowchart is divided into three sections, each starting with a header: "E|ACTUAL.TXGC.HOR30DAY.A.20711231", "E|ACTUAL.TXGC.HOR70DAY.A.20711231", and "E|ACTUAL.TXGC.HOR75DAY.P.20711231". Each section contains a series of job boxes. The first section has six job boxes: three with CPU resources (HOR3008, HOR3020, HOR3021) and three with DMY resources (HOR3022, HOR3023, HOR3025). The second section has two job boxes: one with DMY resources (HOR7030) and one with DMY resources (HOR7025). The third section has two job boxes: one with WAIT resources (HOR7510) and one with DMY resources (HOR7525). A red arrow indicates a cycle starting from the first job box in the first section, going down to the last job box in the first section, then down to the first job box in the second section, then down to the first job box in the third section, and finally back up to the first job box in the first section.

To reduce the number of jobs, we can optionally create a new flowchart, which contains only the Jobs (Operations) on the cycle. That makes it easier to identify the wrong dependency

Old CP Versions

Set History Plan

Check all | Clear all | Toggle selection

	Subsystem	Created	Inserted to history
<input type="checkbox"/>	TXGC	2016/03/23 05:00	2016/03/24 05:08
<input checked="" type="checkbox"/>	TXGC	2016/03/24 05:00	2016/03/25 05:06
<input type="checkbox"/>	TXGC	2016/03/25 05:00	2016/03/26 05:04
<input type="checkbox"/>	TXGC	2016/03/26 05:00	2016/03/27 06:08
<input type="checkbox"/>	TXGC	2016/03/27 05:00	2016/03/28 05:07
<input type="checkbox"/>	TXGC	2016/03/28 05:00	2016/03/29 05:03
<input type="checkbox"/>	TXGC	2016/03/29 05:00	2016/03/30 05:07

[7 row(s) have been found.]

Check all | Clear all | Toggle selection

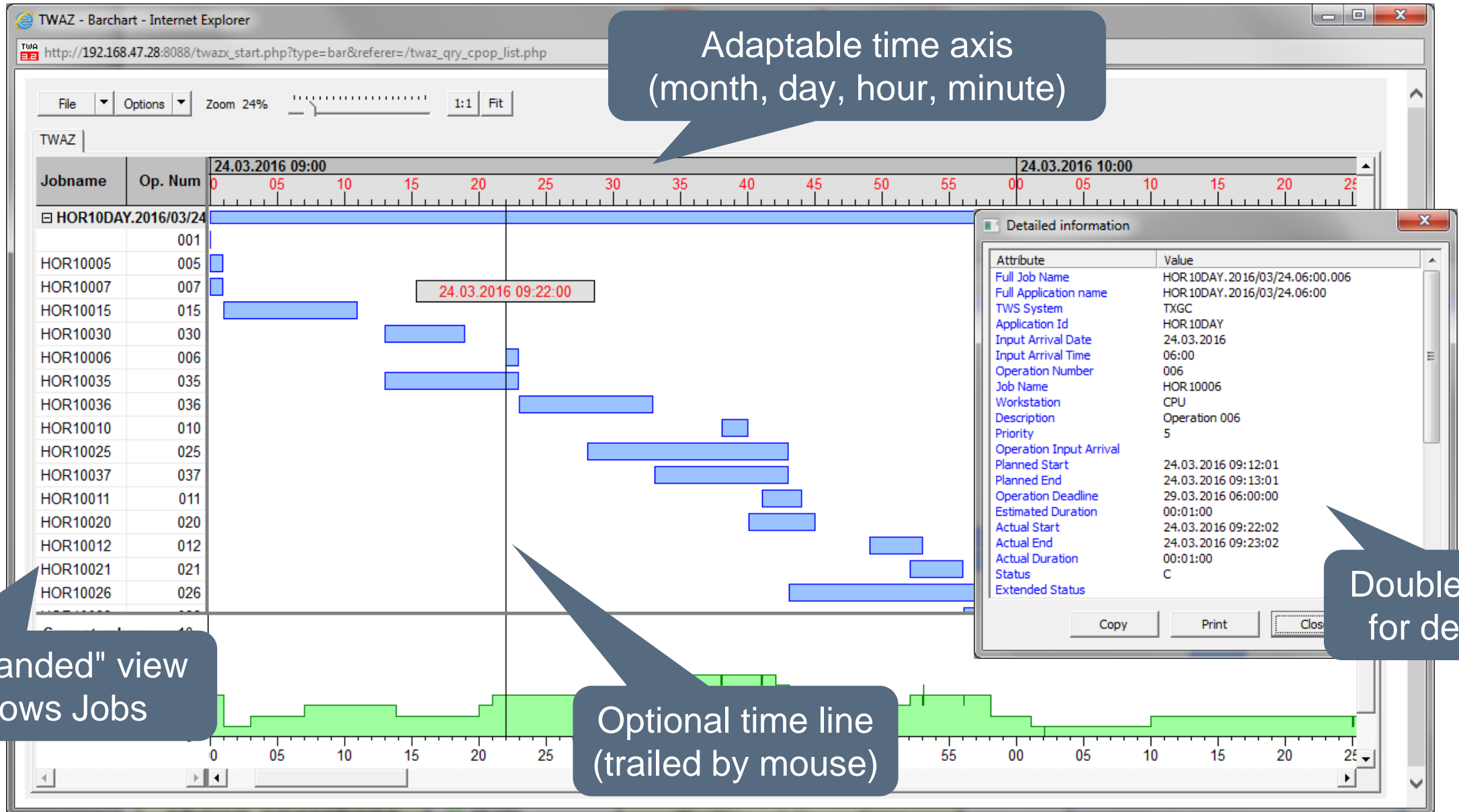
Action Buttons: Set (go to Occurrences) | Set (go to Operations) | Delete | Cancel

Menu: General, Home, TWS Systems, CP+LTP, AD, Users, Options, Log Files Administration, AD, Insert, List, Modify, Delete, TWS Update, Predefined Run Cycle, Simulation, Query AD Database, Applications, Operations, Dependencies, Spec. Res./Oper., CP + LTP, Insert, List, Modify, Delete, Query Current Plan, Occurrences, Operations, Spec. Res. usage, Old CP Versions, Reporting/Statistic, Job History, TWS Activity, Duration Analysis, EndTime Analysis, Status monitor

Select a historical CP and you can do all queries based on this version (and see how it did run a few days ago, maybe in a bar chart ...)

When a new CP has been created, the "old" CP is stored in the history database

CP Barchart



See how your workload will be planned for any day in the future

IWS/WebAdmin for z/OS

Menu

- General
 - Home
 - IWS Systems
 - Users
 - Options
 - Log Files Administration
 - Process Controller
- AD
 - Insert
 - List, Modify, Delete
 - IWS Update
 - Predefined Run Cycle
 - Simulation
 - Query AD Database
 - Applications
 - Operations
 - Dependencies
 - Spec. Res./Oper.
- CP + LTP
 - Insert
 - List, Modify, Delete
 - Query Current Plan
 - Occurrences
 - Operations
 - Spec. Res. usage
 - Old CP Versions
 - Forecast Plans
 - Reporting/Statistic
 - Job History
 - IWS Activity
 - Duration Analysis
 - EndTime Analysis
 - Status monitor

Set Forecast Plan

IWS System: TXGC, TWHC, TTHC

Created: = [dropdown] [date/time] [?] [+/-]

Inserted: = [dropdown] [date/time] [?] [+/-]

Forecast plan from: = [dropdown] [date/time] [?] [+/-]

Forecast plan to: = [dropdown] [date/time] [?] [+/-]

Action Buttons: OK, Reset, Cancel

Besides the “Old CP Versions”,
WebAdmin offers also “Forecast Plans”,
based on IWS trial plan reports

Create an IWS Trial Plan

Write the trial plan report to a DSN, which is allocated to WebAdmin's CP synchronization task. It automatically find the new report and load it into the database.

```
LISTINGS FROM SAMPLE
TWSZ
SUBSYSTEM TXGC

                                P R I N T O U T   O F   D A I L Y   P L A
                                = = = = =

                                GENERAL INFORMATION

REQUESTED PLANNING PERIOD       : 16/12/31 06.00 - 17/01/03 06.00
PLAN COVERS                     : 16/12/31 06.00 - 17/01/10 06.00
TYPE OF PLANNING                : MAKE A TRIAL PLAN (FUTURE)
...

                                DAILY OPERATING PLAN (16/12/31 06.00 - 17/01/03
                                =====
-----
APPLICATION ID                 !
APPLICATION OWNER              !INP ARRIVAL   DEFINED !APPLICATION TEXT   !
OP ID      JOBNAME            P  S!   START   DUR   DEADLINE! OPERATION   TEXT           !APPL
-----
ACRIT0                    5  W!02>06.00           02>10.01!Test Critical Path start !
P390K                    !
TIME_001                  !02>10.00 00.01 02>10.01!
-----
ACRIT1                    !
                    5  W!02>10.30           02>10.50!Test Critical Path   !
```


Future Forecast CP Versions

Select Forecast Plan

Check all | Clear all | Toggle selection

	Subsystem	Forecast plan from	Forecast plan to	Created	Inserted
<input type="checkbox"/>	TXGC	2016/11/09 06:00	2016/11/11 06:00	2016/11/08 05:02	2016/11/08 05:05
<input type="checkbox"/>	TXGC	2016/11/10 06:00	2016/11/12 06:00	2016/11/09 05:01	2016/11/09 20:08
<input type="checkbox"/>	TXGC	2016/11/11 06:00	2016/11/13 06:00	2016/11/10 16:29	2016/11/10 16:30
<input type="checkbox"/>	TXGC	2016/11/12 06:00	2016/11/14 06:00	2016/11/11 05:01	2016/11/11 05:06
<input type="checkbox"/>	TXGC	2016/11/13 06:00	2016/11/15 06:00	2016/11/12 05:01	2016/11/12 05:04
<input type="checkbox"/>	TXGC	2016/11/30 06:00	2016/12/01 05:59	2016/10/13 10:37	2016/10/13 10:37
<input checked="" type="checkbox"/>	TXGC	2016/12/31 06:00	2017/01/03 06:00	2016/11/10 16:48	2016/11/10 16:50

[7 row(s) have been found.]

Check all | Clear all | Toggle selection

Action Buttons

Set (go to Occurrences) Set (go to Operations) Delete Cancel

Select a forecast plan and you can do all further queries based on this version (and see how it will run, see the planned start times, graphically with time line etc.).

Future Forecast Plans

<http://192.168.47.28:8088/index.php>
IWS/WebAdmin for z/OS

Plan - List of Operations

[1](#) [2](#) [3](#) [4](#) [All](#)

[Check all](#) | [Clear all](#) | [Toggle selection](#)

IWS System	Created	Application id	Application input arrival date	Ws id	Op no	Text	Jobname	Status	Planned Start	Estimated Duration
<input type="checkbox"/> TXGC [F]	2016/11/10 16:48	TCPA01	2016/12/31 08:00	DMY	001	start	TIME	W	2016/12/31 23:30	00:00:01
<input type="checkbox"/> TXGC [F]	2016/11/10 16:48	TCPA01	2017/01/01 08:00	DMY	001	start	TIME	W	2017/01/01 23:30	00:00:01
<input type="checkbox"/> TXGC [F]	2016/11/10 16:48	TCPA01	2017/01/02 08:00	DMY	001	start	TIME	W	2017/01/02 23:30	00:00:01
<input type="checkbox"/> TXGC [F]	2016/11/10 16:48	TCPA02	2016/12/31 08:00	WAIT	010		TCPJ01	W	2016/12/31 23:30	00:00:10
<input type="checkbox"/> TXGC [F]	2016/11/10 16:48	TCPA02	2016/12/31 08:00	WAIT	020		TCPJ02	W	2016/12/31 23:30	00:00:20
<input type="checkbox"/> TXGC [F]	2016/11/10 16:48	TCPA02	2016/12/31 08:00	WAIT	030		TCPJ03	W	2017/01/01 01:00	00:00:10
<input type="checkbox"/> TXGC [F]	2016/11/10 16:48	TCPA02	2017/01/01 08:00	WAIT	010		TCPJ01	W	2017/01/01 23:30	00:00:10
<input type="checkbox"/> TXGC [F]	2016/11/10 16:48	TCPA02	2017/01/01 08:00	WAIT	020		TCPJ02	W	2017/01/01 23:30	00:00:20
<input type="checkbox"/> TXGC [F]	2016/11/10 16:48	TCPA02	2017/01/01 08:00	WAIT	030		TCPJ03	W	2017/01/02 01:00	00:00:10
<input type="checkbox"/> TXGC [F]	2016/11/10 16:48	TCPA02	2017/01/02 08:00	WAIT	010		TCPJ01	W	2017/01/02 23:30	00:00:10
<input type="checkbox"/> TXGC [F]	2016/11/10 16:48	TCPA02	2017/01/02 08:00	WAIT	020		TCPJ02	W	2017/01/02 23:30	00:00:20
<input type="checkbox"/> TXGC [F]	2016/11/10 16:48	TCPA02	2017/01/02 08:00	WAIT	030		TCPJ03	W	2017/01/03 01:00	00:00:10
<input type="checkbox"/> TXGC [F]	2016/11/10 16:48	TCPA03	2016/12/31 08:00	WAIT	040		TCPJ04	W	2016/12/31 23:30	00:00:15
<input type="checkbox"/> TXGC [F]	2016/11/10 16:48	TCPA03	2016/12/31 08:00	WAIT	050		TCPJ05	W	2016/12/31 23:30	00:00:10
<input type="checkbox"/> TXGC [F]	2016/11/10 16:48	TCPA03	2016/12/31 08:00	WAIT	060		TCPJ06	W	2016/12/31 23:45	00:00:20
<input type="checkbox"/> TXGC [F]	2016/11/10 16:48	TCPA03	2017/01/01 08:00	WAIT	040		TCPJ04	W	2017/01/01 23:30	00:00:15
<input type="checkbox"/> TXGC [F]	2016/11/10 16:48	TCPA03	2017/01/01 08:00	WAIT	050		TCPJ05	W	2017/01/01 23:30	00:00:10
<input type="checkbox"/> TXGC [F]	2016/11/10 16:48	TCPA03	2017/01/01 08:00	WAIT	060		TCPJ06	W	2017/01/01 23:45	00:00:20
<input type="checkbox"/> TXGC [F]	2016/11/10 16:48	TCPA03	2017/01/02 08:00	WAIT	040		TCPJ04	W	2017/01/02 23:30	00:00:15
<input type="checkbox"/> TXGC [F]	2016/11/10 16:48	TCPA03	2017/01/02 08:00	WAIT	050		TCPJ05	W	2017/01/02 23:30	00:00:10
<input type="checkbox"/> TXGC [F]	2016/11/10 16:48	TCPA03	2017/01/02 08:00	WAIT	060		TCPJ06	W	2017/01/02 23:45	00:00:20
<input type="checkbox"/> TXGC [F]	2016/11/10 16:48	TCPA04	2016/12/31 08:00	WAIT	070		TCPJ07	W	2017/01/01 00:05	00:00:10
<input type="checkbox"/> TXGC [F]	2016/11/10 16:48	TCPA04	2016/12/31 08:00	DMY	255	end		W	2017/01/01 01:10	00:00:01
<input type="checkbox"/> TXGC [F]	2016/11/10 16:48	TCPA04	2017/01/01 08:00	WAIT	070		TCPJ07	W	2017/01/02 00:05	00:00:10

Action Buttons: [Occurrence details](#) [Operation details](#) [All dependencies](#) [Barchart](#) [Netplan](#) [Show SQL](#) [Save to File](#) [Beta92](#) [Cancel](#)

24 row(s) have been found. Total: 82

The normal CP queries make it easy to verify how and when your jobs will be scheduled in the future.

Sample use cases for IT-Leader and Analysts

- The Dashboard gives a quick overview about the status of the connected IWS systems
- The Reporting/Statistic part enables analysis like
 - How many Jobs did run last year/month/day/hour
 - When did a job run, how often, successful or in error
 - Which jobs did run 20 percent longer than expected
 - Which jobs ended more than one hour later as scheduled
 - Which jobs passed their deadline
- The Reporting/Statistic part shows trends about
 - Job duration growth
 - Job end times (e.g. if job is ending later and later)
 - Missing deadline prediction

The Dashboard

The screenshot displays the IWS/WebAdmin for z/OS dashboard. On the left is a navigation menu with categories like General, IWS Systems, AD, and CP + LTP. The main area shows a dashboard for 'Demo TWS on demo system' (TXGC [9.2]) and 'Huge Test IWS on dev system' (TTHC [9.3]). A central pie chart shows job status distribution: 1618 (Waiting), 493 (Complete), and 23 (Progress). A table below the chart shows job statistics for AD and CP. A red box highlights '23%' in the CP row, with a callout pointing to it. Another callout points to the pie chart.

IWS/WebAdmin for z/OS

Menu

- General
 - Home
 - IWS Systems
 - Users
 - Options
 - Log Files Administration
 - Process Controller
- AD
 - Insert
 - List, Modify, Delete
 - IWS Update
 - Predefined Run Cycle
 - Simulation
 - Query AD Database
 - Applications
 - Operations
 - Dependencies
 - Spec. Res./Oper.
- CP + LTP
 - Insert
 - List, Modify, Delete
 - Query Current Plan
 - Occurrences
 - Operations
 - Spec. Res. usage
 - Old CP Versions
 - Forecast Plans
 - Reporting/Statistic
 - Job History
 - IWS Activity
 - Duration Analysis
 - EndTime Analysis
 - Status monitor

IWS/WebAdmin for z/OS

TXGC [9.2]
Demo TWS on demo system

	AD	CP
Synchronisation started	09.11.2016 20:07:41	09.11.2016 20:07:41
Last Update	12.11.2016 14:47:55	12.11.2016 14:45:55
AD Statistic	Applications: 176, Operations: 100	W: 1618, R: 14, S: 1, C: 493, E: 10

Legend:

- %Progress
- #Error
- #Complete
- #Waiting
- #Ready
- #Started

TWHC [9.3]
Test TWS on dev system

	AD	CP
Synchronisation started	09.11.2016 20:07:41	09.11.2016 20:07:41
Last Update	12.11.2016 14:41:23	12.11.2016 14:43:46
AD Statistic	Applications: 45, Operations: 138	Jobs Statistic
		Plan Progress

TTHC [9.3]
Huge Test IWS on dev system

	AD	CP
Synchronisation started	09.11.2016 20:07:47	09.11.2016 20:08:12
Last Update	12.11.2016 14:20:26	12.11.2016 14:43:46
AD Statistic	Applications: 18862, Operations: 151143	Jobs Statistic
		Plan Progress

23%

Click on the percentage to get the pie chart

These figures gives you a quick overview how many jobs are in which status

http://192.168.47.28:8088/twaz_main.php#

IWS Activity Report

The screenshot shows the IWS/WebAdmin for z/OS interface. The main content area displays the "IWS Activity Report" for "Selected criteria" with "Subsystem" set to "*". The report shows a bar chart of the "Number of Jobs" for each day of the month of October 2016. The Y-axis ranges from 0 to 140,000. The X-axis is labeled "Days of Month" and ranges from 1 to 31. The chart shows a peak in activity around the 26th of the month.

Navigation controls include "<< Previous Month", "October 2016", and "Next Month >>".

At the bottom of the chart area, there are "Action Buttons" for "Show SQL" and "Cancel".

On the left side, there is a "Menu" with the following items:

- General
 - Home
 - IWS Systems
 - Users
 - Options
 - Log Files Administration
- Reporting/Statistic
 - Job History
 - IWS Activity
 - Duration Analysis
 - EndTime Analysis
 - Status monitor

A red arrow points to the "IWS Activity" item in the "Reporting/Statistic" menu.

At the bottom of the page, there is a "HORIZONT" logo.

This can be done for all jobs of all IWS systems, or for specific ones, e.g. for a specific owner etc.

The activity report shows you how many Jobs did run in a year/month/day/hour

Job History

Menu

- General
 - Home
 - TWS Systems
 - CP+LTP
 - AD
 - Users
 - Options
 - Log Files Administration
- AD
 - Insert
 - List, Modify, Delete
 - TWS Update
 - Predefined Run Cycle
 - Simulation
 - Query AD Database
 - Applications
 - Operations
 - Dependencies
 - Spec. Res./Oper.
- CP + LTP
 - Insert
 - List, Modify, Delete
 - Query Current Plan
 - Occurrences
 - Operations
 - Spec. Res. usage
 - Old CP Versions
 - Reporting/Statistic
 - Job History
 - TWS Activity
 - Duration Analysis
 - EndTime Analysis
 - Status monitor

open all | close all

Job History Report

Selection criterias

TWS System: TXGC, TWFC, TWHC

Application id: = [] ?

Op no: = [] ?

Jobname: = TEST01 ?

Started at: >= 2016 / 03 / 01 : : ? [+]

Ended at: = [] / [] / [] : : ? [+]

Duration: = [] : [] : [] [+]

DiS: = [] [+]

Status: = [] [+]

Error Code: = [] ? [+]

Workstation: = [] ? [+]

Input arrival date: = [] / [] / [] : [] ? [+]

Deadline: = [] / [] / [] : [] ? [+]

Owner id: = p390k ? [+]

JobID: = [] [+]

Auto Recovery: = [] [+]

Additional filters

Highlight differences: Yes

Action Buttons: OK, Show SQL, Load Selection, Save Selection, Reset, Cancel

WebAdmin keeps (as long as you want) information about when a job did run, it's start/end time, duration status etc.

Based on this, we can e.g. verify when and how a Job did run in the past

Job History

In the result list we present all relevant information, e.g. application, jobname, planned/actual start/end times etc.

Scroll right for more

The screenshot shows a web browser window displaying the 'Job History Report List' in TWS/WebAdmin for z/OS. The browser address bar shows 'http://192.168.47.28:8088/index.php'. The page title is 'TWS/WebAdmin for z/OS'. Below the title, there is a 'Job History Report List' section with a sub-header 'Check all | Clear all | Toggle selection'. The main content is a table with columns: Application id, Op no, Jobname, Workstation, Subsystem, Owner, Input arrival date, Deadline, Planned State (Planned Start, Planned End, Estimation, EIS), and Status. The table contains 20 rows of data, all with 'TEST01' as the application and jobname, and 'P390K' as the owner. The planned start and end times are listed for each job. At the bottom of the table, there are 'Action Buttons' including 'Show details', 'Show SQL', 'Save to File', 'Reset', and 'Cancel'. A blue callout box points to the table with the text 'In the result list we present all relevant information, e.g. application, jobname, planned/actual start/end times etc.'. Another blue callout box at the bottom right points to the horizontal scrollbar with the text 'Scroll right for more'.

Application id	Op no	Jobname	Workstation	Subsystem	Owner	Planned State						Sta
						Input arrival date	Deadline	Planned Start	Planned End	Estimation	EIS	
<input type="checkbox"/> TEST01	010	TEST01	CPU	TXGC	P390K	2016/03/01 06:00	2016/03/01 22:00	2016/03/01 06:10	2016/03/01 06:10	00:00:01	1	2016/03
<input type="checkbox"/> TEST01	010	TEST01	CPU	TXGC	P390K	2016/03/02 06:00	2016/03/02 22:00	2016/03/02 06:10	2016/03/02 06:10	00:00:01	1	2016/03
<input type="checkbox"/> TEST01	010	TEST01	CPU	TXGC	P390K	2016/03/03 06:00	2016/03/03 22:00	2016/03/03 18:08	2016/03/03 18:08	00:00:01	1	2016/03
<input type="checkbox"/> TEST01	010	TEST01	CPU	TXGC	P390K	2016/03/04 06:00	2016/03/04 22:00	2016/03/04 17:45	2016/03/04 17:45	00:00:01	1	2016/03
<input type="checkbox"/> TEST01	010	TEST01	CPU	TXGC	P390K	2016/03/07 06:00	2016/03/07 22:00	2016/03/07 18:09	2016/03/07 18:09	00:00:01	1	2016/03
<input type="checkbox"/> TEST01	010	TEST01	CPU	TXGC	P390K	2016/03/08 06:00	2016/03/08 22:00	2016/03/08 18:07	2016/03/08 18:07	00:00:01	1	2016/03
<input type="checkbox"/> TEST01	010	TEST01	CPU	TXGC	P390K	2016/03/09 06:00	2016/03/09 22:00	2016/03/09 06:00	2016/03/09 06:00	00:00:01	1	2016/03
<input type="checkbox"/> TEST01	010	TEST01	CPU	TXGC	P390K	2016/03/10 06:00	2016/03/10 22:00	2016/03/10 06:10	2016/03/10 06:10	00:00:01	1	2016/03
<input type="checkbox"/> TEST01	010	TEST01	CPU	TXGC	P390K	2016/03/11 06:00	2016/03/11 22:00	2016/03/11 06:10	2016/03/11 06:10	00:00:01	1	2016/03
<input type="checkbox"/> TEST01	010	TEST01	CPU	TXGC	P390K	2016/03/14 06:00	2016/03/14 22:00	2016/03/14 06:00	2016/03/14 06:00	00:00:01	1	2016/03
<input type="checkbox"/> TEST01	010	TEST01	CPU	TXGC	P390K	2016/03/15 06:00	2016/03/15 22:00	2016/03/15 06:00	2016/03/15 06:00	00:00:01	1	2016/03
<input type="checkbox"/> TEST01	010	TEST01	CPU	TXGC	P390K	2016/03/16 06:00	2016/03/16 22:00	2016/03/16 06:00	2016/03/16 06:00	00:00:01	1	2016/03
<input type="checkbox"/> TEST01	010	TEST01	CPU	TXGC	P390K	2016/03/17 06:00	2016/03/17 22:00	2016/03/17 06:00	2016/03/17 06:00	00:00:01	1	2016/03
<input type="checkbox"/> TEST01	010	TEST01	CPU	TXGC	P390K	2016/03/18 06:00	2016/03/18 22:00	2016/03/18 06:12	2016/03/18 06:12	00:00:01	1	2016/03
<input type="checkbox"/> TEST01	010	TEST01	CPU	TXGC	P390K	2016/03/21 06:00	2016/03/21 22:00	2016/03/21 06:00	2016/03/21 06:00	00:00:01	1	2016/03
<input type="checkbox"/> TEST01	010	TEST01	CPU	TXGC	P390K	2016/03/21 06:00	2016/03/21 22:00	2016/03/21 06:00	2016/03/21 06:00	00:00:01	1	2016/03
<input type="checkbox"/> TEST01	010	TEST01	CPU	TXGC	P390K	2016/03/22 06:00	2016/03/22 22:00	2016/03/22 06:00	2016/03/22 06:00	00:00:01	1	2016/03
<input type="checkbox"/> TEST01	010	TEST01	CPU	TXGC	P390K	2016/03/23 06:00	2016/03/23 22:00	2016/03/23 06:00	2016/03/23 06:00	00:00:01	1	2016/03
<input type="checkbox"/> TEST01	010	TEST01	CPU	TXGC	P390K	2016/03/24 06:00	2016/03/24 22:00	2016/03/24 06:00	2016/03/24 06:00	00:00:01	1	2016/03
<input type="checkbox"/> TEST01	010	TEST01	CPU	TXGC	P390K	2016/03/28 06:00	2016/03/28 22:00	2016/03/28 06:00	2016/03/28 06:00	00:00:01	1	2016/03
<input type="checkbox"/> TEST01	010	TEST01	CPU	TXGC	P390K	2016/03/29 06:00	2016/03/29 22:00	2016/03/29 06:00	2016/03/29 06:00	00:00:01	1	2016/03

Job History

It looks like the job runs every workday

Planned State						Real State							
late	Deadline	Planned Start	Planned End	Estimation	EiS	Started at	Ended at	Duration	DiS	Status	Error Code	JobID	AR
00	2016/03/01 22:00	2016/03/01 06:10	2016/03/01 06:10	00:00:01	1	2016/03/01 06:00:01	2016/03/01 06:00:03	00:00:01	1	C	0000	JOB43716	
00	2016/03/02 22:00	2016/03/02 06:10	2016/03/02 06:10	00:00:01	1	2016/03/02 06:00:00	2016/03/02 06:00:02	00:00:01	1	C	0000	JOB44170	
00	2016/03/03 22:00	2016/03/03 18:08	2016/03/03 18:08	00:00:01	1	2016/03/03 06:00:00	2016/03/03 06:00:02	00:00:01	1	C	0000	JOB44779	
00	2016/03/04 22:00	2016/03/04 17:45	2016/03/04 17:45	00:00:01	1	2016/03/04 06:00:00	2016/03/04 06:00:02	00:00:01	1	C	0000	JOB45234	
00	2016/03/07 22:00	2016/03/07 18:09	2016/03/07 18:09	00:00:01	1	2016/03/07 06:00:00	2016/03/07 06:00:02	00:00:01	1	C	0000	JOB46098	
00	2016/03/08 22:00	2016/03/08 18:07	2016/03/08 18:07	00:00:01	1	2016/03/08 06:00:01	2016/03/08 06:00:02	00:00:01	1	C	0000	JOB46563	
00	2016/03/09 22:00	2016/03/09 06:00	2016/03/09 06:00	00:00:01	1	2016/03/09 06:00:00	2016/03/09 06:00:02	00:00:01	1	C	0000	JOB47030	
00	2016/03/10 22:00	2016/03/10 06:10	2016/03/10 06:10	00:00:01	1	2016/03/10 06:00:00	2016/03/10 06:00:03	00:00:01	1	C	0000	JOB47646	
00	2016/03/11 22:00	2016/03/11 06:10	2016/03/11 06:10	00:00:01	1	2016/03/11 06:00:01	2016/03/11 06:00:03	00:00:01	1	C	0000	JOB48118	
00	2016/03/14 22:00	2016/03/14 06:00	2016/03/14 06:00	00:00:01	1	2016/03/14 06:00:00	2016/03/14 06:00:02	00:00:01	1	C	0000	JOB48992	
00	2016/03/15 22:00	2016/03/15 06:00	2016/03/15 06:00	00:00:01	1	2016/03/15 06:00:01	2016/03/15 06:00:02	00:00:01	1	C	0000	JOB49517	
00	2016/03/16 22:00	2016/03/16 06:00	2016/03/16 06:00	00:00:01	1	2016/03/16 06:00:00	2016/03/16 06:00:03	00:00:01	1	C	0000	JOB50017	
00	2016/03/17 22:00	2016/03/17 06:00	2016/03/17 06:00	00:00:01	1	2016/03/17 06:00:00	2016/03/17 06:00:02	00:00:01	1	C	0000	JOB50413	
00	2016/03/18 22:00	2016/03/18 06:12	2016/03/18 06:12	00:00:01	1	2016/03/18 06:00:01	2016/03/18 06:00:03	00:00:01	1	C	0000	JOB50825	
00	2016/03/21 22:00	2016/03/21 06:00	2016/03/21 06:00	00:00:01	1	2016/03/21 06:00:01	2016/03/21 06:00:03	00:00:01	1	C	0000	JOB51654	
00	2016/03/21 22:00	2016/03/21 06:00	2016/03/21 06:00	00:00:01	1	2016/03/21 10:56:33	2016/03/21 10:56:34	00:00:01	1	E	S806	JOB51785	
00	2016/03/21 22:00	2016/03/21 06:00	2016/03/21 06:00	00:00:01	1	2016/03/21 10:58:22	2016/03/21 10:58:22	00:00:00	0	C	MANU		
00	2016/03/22 22:00	2016/03/22 06:00	2016/03/22 06:00	00:00:01	1	2016/03/22 06:00:00	2016/03/22 06:00:02	00:00:01	1	C	0000	JOB52081	
00	2016/03/23 22:00	2016/03/23 06:00	2016/03/23 06:00	00:00:01	1	2016/03/23 06:00:01	2016/03/23 06:00:02	00:00:01	1	C	0000	JOB52530	
00	2016/03/24 22:00	2016/03/24 06:00	2016/03/24 06:00	00:00:01	1	2016/03/24 06:00:00	2016/03/24 06:00:02	00:00:01	1	C	0000	JOB52844	
00	2016/03/28 22:00	2016/03/28 06:00	2016/03/28 06:00	00:00:01	1	2016/03/28 06:00:00	2016/03/28 06:00:02	00:00:01	1	C	0000	JOB53158	
00	2016/03/29 22:00	2016/03/29 06:00	2016/03/29 06:00	00:00:01	1	2016/03/29 06:00:00	2016/03/29 06:00:02	00:00:01	1	C	0000	JOB53472	
00	2016/03/30 22:00	2016/03/30 06:00	2016/03/30 06:00	00:00:01	1	2016/03/30 06:00:00	2016/03/30 06:00:02	00:00:01	1	C	0000	JOB53786	

There was an extra run and it failed. After that it was completed manually.

Job History

TWS/WebAdmin for z/OS

Job History Report

Selection criterias

TWS System	*	TXGC TWFC TWHC	
Application id	=	▼	hor* ?
Op no	=	▼	? ?
Jobname	=	▼	? ?
Started at	=	▼	2016 / 03 / 29 : : ?
Ended at	=	▼	/ / : : ?
Duration	=	▼	: : ?
DiS	=	▼	?
Status	=	▼	?
Error Code	=	▼	?
Workstation	=	▼	?
Input arrival date	=	▼	/ / : : ?
Deadline	=	▼	/ / : : ?
Owner id	=	▼	?
JobID	=	▼	?
Auto Recovery	=	▼	?

Additional filters

Highlight differences Yes

Action Buttons

OK Show SQL Load Selection Save Selection Reset Cancel

Menu

- General
 - Home
- TWS Systems
 - CP+LTP
 - AD
- Users
- Options
- Log Files Administration
- AD
 - Insert
 - List, Modify, Delete
 - TWS Update
 - Predefined Run Cycle
 - Simulation
- Query AD Database
 - Applications
 - Operations
 - Dependencies
 - Spec. Res./Oper.
- CP + LTP
 - Insert
 - List, Modify, Delete
- Query Current Plan
 - Occurrences
 - Operations
 - Spec. Res. usage
 - Old CP Versions
- Reporting/Statistic
 - Job History
 - TWS Activity
 - Duration Analysis
 - EndTime Analysis
- Status monitor

open all | close all

Another example: Verify how a set of jobs ran on a specific day



Job History

Deviations to the plan are marked red, e.g. missed deadline, ...

Scroll right for more

Application id	Op no	Jobname	Workstation	Subsystem	Owner	Planned State						
						Input arrival date	Deadline	Planned Start	Planned End	Estimation	EIS	Status
<input type="checkbox"/> HOR40DAY	255		DMY	TXGC	HORIZONT	2016/03/29 06:00	2016/03/30 06:00	2016/03/29 10:18	2016/03/29 10:19	00:01:00	60	2016/03/
<input type="checkbox"/> HOR70DAY	040	HOR70040	DMY	TXGC	HORIZONT	2016/03/29 06:00	2016/03/29 12:00	2016/03/29 10:19	2016/03/29 10:20	00:01:00	60	2016/03/
<input type="checkbox"/> HOR70DAY	255		DMY	TXGC	HORIZONT	2016/03/29 06:00	2016/03/29 12:00	2016/03/29 10:20	2016/03/29 10:21	00:01:00	60	2016/03/
<input type="checkbox"/> HOR96DEMO	255		DMY	TXGC	P390K	2016/03/29 07:00	2016/03/30 01:15			00:00:01	1	2016/03/
<input type="checkbox"/> HOR96DEMO	011	HOR96001	W001	TXGC	P390K	2016/03/29 07:00	2016/03/30 01:15			00:01:00	60	2016/03/
<input type="checkbox"/> HOR85DAY	020	HORX0000	CPU	TXGC	HORIZONT	2016/03/29 06:00	2016/03/30 06:00	2016/03/29 20:01	2016/03/29 20:02	00:01:00	60	2016/03/
<input type="checkbox"/> HOR85DAY	010		TIME	TXGC	HORIZONT	2016/03/29 06:00	2016/03/30 06:00	2016/03/29 20:00	2016/03/29 20:01	00:01:00	60	2016/03/
<input type="checkbox"/> HOR85DAY	255		DMY	TXGC	HORIZONT	2016/03/29 06:00	2016/03/30 06:00	2016/03/29 20:02	2016/03/29 20:03	00:01:00	60	2016/03/
<input type="checkbox"/> HOR95DEMO	010	HOR95010	CPU	TXGC	P390K	2016/03/29 06:00	2016/03/29 23:00	2016/03/29 21:00	2016/03/29 21:14	00:14:29	869	2016/03/
<input type="checkbox"/> HOR95DEMO	005	HOR95005	CPU	TXGC	P390K	2016/03/29 06:00	2016/03/29 21:15	2016/03/29 21:00	2016/03/29 21:01	00:01:28	88	2016/03/
<input type="checkbox"/> HOR95DEMO	001	T2100	TIME	TXGC	P390K	2016/03/29 06:00	2016/03/29 23:00	2016/03/29 21:00	2016/03/29 21:00	00:00:01	1	2016/03/
<input type="checkbox"/> HOR95DEMO	012	HOR95012	CPU	TXGC	P390K	2016/03/29 06:00	2016/03/29 23:00	2016/03/29 21:14	2016/03/29 21:16	00:01:38	98	2016/03/
<input type="checkbox"/> HOR95DEMO	011	HOR95011	CPU	TXGC	P390K	2016/03/29 06:00	2016/03/29 23:00	2016/03/29 21:14	2016/03/29 21:15	00:01:23	83	2016/03/
<input type="checkbox"/> HOR95DEMO	013	HOR95013	CPU	TXGC	P390K	2016/03/29 06:00	2016/03/29 21:30	2016/03/29 21:16	2016/03/29 21:16	00:00:01	1	2016/03/
<input type="checkbox"/> HOR95DEMO	255	END	DMY	TXGC	P390K	2016/03/29 06:00	2016/03/29 23:00	2016/03/29 21:16	2016/03/29 21:16	00:00:01	1	2016/03/
<input type="checkbox"/> HOR60DAY	010	HOR60010	CPU	TXGC	HORIZONT	2016/03/29 06:00	2016/03/30 06:00	2016/03/29 23:01	2016/03/29 23:02	00:01:00	60	2016/03/
<input type="checkbox"/> HOR60DAY	001		TIME	TXGC	HORIZONT	2016/03/29 06:00	2016/03/30 06:00	2016/03/29 23:00	2016/03/29 23:01	00:01:00	60	2016/03/

[17 row(s) have been found. Total: 161]

Job History

... ended later than planned, ran longer than expected.
(the missed planned values are marked blue)

Planned State							Real State						
Start date	Deadline	Planned Start	Planned End	Estimation	EiS	Started at	Ended at	Duration	DiS	Status	Error Code	JobID	AR
06:00	2016/03/30 06:00	2016/03/29 10:18	2016/03/29 10:19	00:01:00	60	2016/03/29 18:47:15	2016/03/29 18:47:15	00:00:00	0	C	0000		
06:00	2016/03/29 12:00	2016/03/29 10:19	2016/03/29 10:20	00:01:00	60	2016/03/29 18:47:15	2016/03/29 18:47:15	00:00:00	0	C	0000		
06:00	2016/03/29 12:00	2016/03/29 10:20	2016/03/29 10:21	00:01:00	60	2016/03/29 18:50:13	2016/03/29 18:50:13	00:00:00	0	C	0000		
07:00	2016/03/30 01:15			00:00:01	1	2016/03/29 19:01:41	2016/03/29 19:01:41	00:00:00	0	C	0000		
07:00	2016/03/30 01:15			00:01:00	60	2016/03/29 19:01:41	2016/03/29 19:01:41	00:00:00	0	C	MANU		
06:00	2016/03/30 06:00	2016/03/29 20:01	2016/03/29 20:02	00:01:00	60	2016/03/29 20:00:09	2016/03/29 20:01:09	00:01:00	60	C	0000	JOB54792	
06:00	2016/03/30 06:00	2016/03/29 20:00	2016/03/29 20:01	00:01:00	60	2016/03/29 20:00:09	2016/03/29 20:00:09	00:00:00	0	C	0000		
06:00	2016/03/30 06:00	2016/03/29 20:02	2016/03/29 20:03	00:01:00	60	2016/03/29 20:01:09	2016/03/29 20:01:09	00:00:00	0	C	0000		
06:00	2016/03/29 23:00	2016/03/29 21:00	2016/03/29 21:14	00:14:29	869	2016/03/29 21:00:09	2016/03/29 21:14:59	00:14:50	890	C	0000	JOB54794	
06:00	2016/03/29 21:15	2016/03/29 21:00	2016/03/29 21:01	00:01:28	88	2016/03/29 21:00:09	2016/03/29 21:02:39	00:02:30	150	C	0000	JOB54793	
06:00	2016/03/29 23:00	2016/03/29 21:00	2016/03/29 21:00	00:00:01	1	2016/03/29 21:00:09	2016/03/29 21:00:09	00:00:00	0	C	0000		
06:00	2016/03/29 23:00	2016/03/29 21:14	2016/03/29 21:16	00:01:38	98	2016/03/29 21:14:59	2016/03/29 21:16:30	00:01:30	90	C	0000	JOB54795	
06:00	2016/03/29 23:00	2016/03/29 21:14	2016/03/29 21:15	00:01:23	83	2016/03/29 21:16:30	2016/03/29 21:18:30	00:02:00	120	C	0000	JOB54796	
06:00	2016/03/29 21:30	2016/03/29 21:16	2016/03/29 21:16	00:00:01	1	2016/03/29 21:18:30	2016/03/29 21:18:32	00:00:01	1	C	0000	JOB54797	
06:00	2016/03/29 23:00	2016/03/29 21:16	2016/03/29 21:16	00:00:01	1	2016/03/29 21:18:32	2016/03/29 21:18:32	00:00:00	0	C	0000		
06:00	2016/03/30 06:00	2016/03/29 23:01	2016/03/29 23:02	00:01:00	60	2016/03/29 23:00:08	2016/03/29 23:01:08	00:01:00	60	C	0000	JOB54798	
06:00	2016/03/30 06:00	2016/03/29 23:00	2016/03/29 23:01	00:01:00	60	2016/03/29 23:00:08	2016/03/29 23:00:08	00:00:00	0	C	0000		

[17 row(s) have been found. Total: 161]

Action Buttons: Show details Show SQL Save to File Reset Cancel

Job History, Exceeded Duration

The screenshot shows the TWS/WebAdmin for z/OS interface. On the left is a navigation menu with categories like General, TWS Systems, Users, Options, Log Files Administration, AD, CP + LTP, and Reporting/Statistic. A red arrow points to the 'Reporting/Statistic' menu item. The main area contains a search form with various filters such as Application id, Op no, Jobname, Started at, Ended at, Duration, DiS, Status, Error Code, Workstation, Input arrival date, Deadline, Owner id, JobID, and Auto Recovery. Below these are 'Additional filters' for Highlight differences (Yes), Show only differences for (Durations), and Differential tolerance (% 20). The 'SQL' section shows 'ORDER BY' with a dropdown menu listing Application id, TWS System, Operation number, Job name, and Started at. At the bottom are 'Action Buttons' including OK, Show SQL, Load Selection, Save Selection, Reset, and Cancel. Two callout boxes provide additional information: one says 'There are additional filters about durations, end times and deadlines.' and the other says 'e.g. show all jobs that run 20 percent longer than expected'.

There are additional filters about durations, end times and deadlines.

e.g. show all jobs that run 20 percent longer than expected

Job History, Exceeded Duration

The screenshot displays the TWS/WebAdmin for z/OS interface. At the top, the browser address bar shows the URL `http://192.168.47.115:4320/index.php`. The page title is `TWS/WebAdmin for z/OS`. Below the title, there is a search bar and a 'HORIZONT' logo. The main content area is titled 'Job List' and contains a table with the following columns: Jobname, Workstation, Subsystem, Owner, Input arrival date, Deadline, Planned Start, Planned End, Estimation, **EiS**, Started at, Ended at, Duration, **DiS**, and Status. The table contains four rows of job data. The 'EiS' and 'DiS' columns are highlighted with red boxes, and callout boxes labeled 'Estimated Duration' and 'Real Duration' point to these columns. The 'EiS' column values are 167, 167, 88, and 83. The 'DiS' column values are 600, 600, 150, and 120. The 'Status' column values are E, E, C, and C. Below the table, there is a message: '[4 row(s) have been found.]'. At the bottom of the page, there are 'Action Buttons' including 'Show details', 'Show SQL', 'Save to File', 'Reset', and 'Cancel'.

Jobname	Workstation	Subsystem	Owner	Planned State					Real State					
				Input arrival date	Deadline	Planned Start	Planned End	Estimation	EiS	Started at	Ended at	Duration	DiS	Status
HOR30015	CPU	TXGC	HORIZONT	2016/03/29 06:00	2016/03/30 06:00	2016/03/29 09:02	2016/03/29 09:04	00:02:47	167	2016/03/29 09:01:11	2016/03/29 09:11:11	00:10:00	600	E
HOR20015	CPU	TXGC	HORIZONT	2016/03/29 06:00	2016/03/30 06:00	2016/03/29 09:12	2016/03/29 09:14	00:02:47	167	2016/03/29 09:11:09	2016/03/29 09:21:10	00:10:00	600	E
HOR95005	CPU	TXGC	P390K	2016/03/29 06:00	2016/03/29 21:15	2016/03/29 21:00	2016/03/29 21:01	00:01:28	88	2016/03/29 21:00:09	2016/03/29 21:02:39	00:02:30	150	C
HOR95011	CPU	TXGC	P390K	2016/03/29 06:00	2016/03/29 23:00	2016/03/29 21:14	2016/03/29 21:15	00:01:23	83	2016/03/29 21:16:30	2016/03/29 21:18:30	00:02:00	120	C

[4 row(s) have been found.]

Estimated Duration

Real Duration

Action Buttons: Show details, Show SQL, Save to File, Reset, Cancel

Job History, Ended Late

The screenshot shows the TWS/WebAdmin for z/OS interface. On the left is a navigation menu with categories like General, TWS Systems, Users, Options, Log Files Administration, AD, CP + LTP, and Reporting/Statistic. A red arrow points to the 'Job History' option under 'Reporting/Statistic'. The main area contains a search form with fields for Application id (hor*), Op no, Jobname, Started at (2016/03/29), Ended at, Duration, DiS, Status, Error Code, Workstation, Input arrival date, Deadline, Owner id, JobID, and Auto Recovery. Below these are 'Additional filters' for Highlight differences (Yes), Show only differences for (End times), and Differential tolerance (minutes, 30). The 'SQL' section shows 'ORDER BY' with a dropdown menu listing Application id, TWS System, Operation number, Job name, and Started at. At the bottom are 'Action Buttons' including OK, Show SQL, Load Selection, Save Selection, Reset, and Cancel. A blue callout box with a pointer to the '30' in the differential tolerance field contains the text: 'e.g. show all jobs that ended more than 30 minutes later than planned'.

Job History, Ended Late

Browser: http://192.168.47.115:4320/index.php | TWS/WebAdmin for z/OS

Page Title: TWS/WebAdmin for z/OS

Job List

Ended more then 30 minutes later than planned

Jobname	Workstation	Subsystem	Owner	Planned State						Real State				
				Input arrival date	Deadline	Planned Start	Planned End	Estimation	EiS	Started at	Ended at	Duration	DiS	St
HOR01010	CPU	TXGC	HORIZONT	2016/03/29 06:00	2016/03/30 06:00	2016/03/29 09:00	2016/03/29 09:10	00:10:00	600	2016/03/29 09:42:14	2016/03/29 09:52:14	00:10:00	600	C
HOR02010	CPU	TXGC	HORIZONT	2016/03/29 06:00	2016/03/30 06:00	2016/03/29 09:00	2016/03/29 09:10	00:10:00	600	2016/03/29 09:43:15	2016/03/29 09:53:16	00:10:00	600	C
HOR03010	CPU	TXGC	HORIZONT	2016/03/29 06:00	2016/03/30 06:00	2016/03/29 09:00	2016/03/29 09:10	00:10:00	600	2016/03/29 09:44:12	2016/03/29 09:54:13	00:10:00	600	C
	DMY	TXGC	HORIZONT	2016/03/29 06:00	2016/03/30 06:00	2016/03/29 09:10	2016/03/29 09:10	00:00:01	1	2016/03/29 09:52:14	2016/03/29 09:52:14	00:00:00	0	C
	DMY	TXGC	HORIZONT	2016/03/29 06:00	2016/03/30 06:00	2016/03/29 09:10	2016/03/29 09:10	00:00:01	1	2016/03/29 09:53:16	2016/03/29 09:53:16	00:00:00	0	C
	DMY	TXGC	HORIZONT	2016/03/29 06:00	2016/03/30 06:00	2016/03/29 09:10	2016/03/29 09:10	00:00:01	1	2016/03/29 09:54:13	2016/03/29 09:54:13	00:00:00	0	C
HOR96003	W003	TXGC	P390K	2016/03/29 07:00	2016/03/30 01:15			00:03:00	180	2016/03/29 14:49:38	2016/03/29 14:52:46	00:03:08	188	C
	INP	TXGC	P390K	2016/03/29 07:00	2016/03/30 01:15			00:00:01	1	2016/03/29 14:49:38	2016/03/29 14:49:38	00:00:00	0	C
HOR96002	W002	TXGC	P390K	2016/03/29 07:00	2016/03/30 01:15			00:02:00	120	2016/03/29 14:49:38	2016/03/29 14:51:46	00:02:08	128	C
HOR20015	CPU	TXGC	TXGC	2016/03/29 06:00	2016/03/30 06:00	2016/03/29 09:12	2016/03/29 09:14	00:02:47	167	2016/03/29 18:00:11	2016/03/29 18:00:11	00:00:00	0	C
HOR30015	CPU	TXGC	TXGC	2016/03/29 06:00	2016/03/30 06:00	2016/03/29 09:02	2016/03/29 09:04	00:02:47	167	2016/03/29 18:00:11	2016/03/29 18:00:11	00:00:00	0	C
	DMY	TXGC	HORIZONT	2016/03/29 06:00	2016/03/30 06:00	2016/03/29 09:14	2016/03/29 09:15	00:01:00	60	2016/03/29 18:00:11	2016/03/29 18:00:11	00:00:00	0	C
HOR40007	CPU	TXGC	HORIZONT	2016/03/29 06:00	2016/03/30 06:00	2016/03/29 09:16	2016/03/29 09:17	00:01:00	60	2016/03/29 18:00:11	2016/03/29 18:01:12	00:01:00	60	C
	DMY	TXGC	HORIZONT	2016/03/29 06:00	2016/03/30 06:00	2016/03/29 09:12	2016/03/29 09:13	00:01:00	60	2016/03/29 18:00:11	2016/03/29 18:00:11	00:00:00	0	C
HOR50007	CPU	TXGC	HORIZONT	2016/03/29 06:00	2016/03/30 06:00	2016/03/29 09:14	2016/03/29 09:15	00:01:00	60	2016/03/29 18:00:11	2016/03/29 18:01:12	00:01:00	60	C
HOR50006	CPU	TXGC	HORIZONT	2016/03/29 06:00	2016/03/30 06:00	2016/03/29 09:15	2016/03/29 09:16	00:01:00	60	2016/03/29 18:00:11	2016/03/29 18:01:12	00:01:00	60	C
HOR40005	CPU	TXGC	HORIZONT	2016/03/29 06:00	2016/03/30 06:00	2016/03/29 09:31	2016/03/29 09:34	00:03:00	180	2016/03/29 18:00:12	2016/03/29 18:03:12	00:03:00	180	C
HOR40006	CPU	TXGC	HORIZONT	2016/03/29 06:00	2016/03/30 06:00	2016/03/29 09:18	2016/03/29 09:19	00:01:00	60	2016/03/29 18:00:12	2016/03/29 18:01:12	00:01:00	60	C
HOR40035	CPU	TXGC	HORIZONT	2016/03/29 06:00	2016/03/30 06:00	2016/03/29 09:19	2016/03/29 09:29	00:10:00	600	2016/03/29 18:01:12	2016/03/29 18:11:12	00:10:00	600	C
HOR40030	CPU	TXGC	HORIZONT	2016/03/29 06:00	2016/03/30 06:00	2016/03/29 09:20	2016/03/29 09:26	00:06:00	360	2016/03/29 18:01:12	2016/03/29 18:07:12	00:06:00	360	C
HOR50035	CPU	TXGC	HORIZONT	2016/03/29 06:00	2016/03/30 06:00	2016/03/29 09:15	2016/03/29 09:25	00:10:00	600	2016/03/29 18:01:12	2016/03/29 18:11:13	00:10:00	600	C
HOR50025	CPU	TXGC	HORIZONT	2016/03/29 06:00	2016/03/30 06:00	2016/03/29 09:16	2016/03/29 09:31	00:15:00	900	2016/03/29 18:01:12	2016/03/29 18:16:13	00:15:00	900	C
HOR50030	CPU	TXGC	HORIZONT	2016/03/29 06:00	2016/03/30 06:00	2016/03/29 09:17	2016/03/29 09:23	00:06:00	360	2016/03/29 18:03:12	2016/03/29 18:09:13	00:06:00	360	C
HOR50015	CPU	TXGC	HORIZONT	2016/03/29 06:00	2016/03/30 06:00	2016/03/29 09:23	2016/03/29 09:38	00:15:00	900	2016/03/29 18:06:10	2016/03/29 18:21:10	00:15:00	900	C

Action Buttons: Show details | Show SQL | Save to File | Reset | Cancel

Job History, Missed Deadline

The screenshot shows the TWS/WebAdmin for z/OS interface. On the left is a navigation menu with categories like General, TWS Systems, Users, Options, Log Files Administration, AD, CP + LTP, and Reporting/Statistic. A red arrow points to the 'Job History' option under the 'Reporting/Statistic' category.

The main area contains a search and filter form with the following fields:

- Application id
- Op no
- Jobname
- Started at (Date and Time)
- Ended at (Date and Time)
- Duration
- DiS
- Status
- Error Code
- Workstation
- Input arrival date
- Deadline
- Owner id
- JobID
- Auto Recovery

Below these fields are 'Additional filters':

- Highlight differences: Yes
- Show only differences for: Deadlines
- Differential tolerance: minutes 30

The 'SQL' section shows the 'ORDER BY' clause with a dropdown menu containing: Application id, TWS System, Operation number, Job name, and Started at (highlighted).

At the bottom are 'Action Buttons': OK, Show SQL, Load Selection, Save Selection, Reset, and Cancel.

A callout box on the right contains the text: "e.g. show all jobs that missed their deadline by more than 30 minutes".

Job History, Missed Deadline

Browser window: TWS/WebAdmin for z/OS

URL: http://192.168.47.115:4320/index.php

Job List

on

Jobname	Workstation	Subsystem	Owner	Planned State						Real State				
				Input arrival date	Deadline	Planned Start	Planned End	Estimation	EIS	Started at	Ended at	Duration	DiS	Stat
CRIT4	CPU	TXGC	P390K	2016/03/29 09:00	2016/03/29 11:00	2016/03/29 10:03	2016/03/29 11:35	01:32:00	5520	2016/03/29 10:00:08	2016/03/29 11:32:09	01:32:00	5520	C
CRIT5	CPU	TXGC	P390K	2016/03/29 09:00	2016/03/29 10:00	2016/03/29 10:02	2016/03/29 10:42	00:40:00	2400	2016/03/29 10:00:08	2016/03/29 10:40:09	00:40:00	2400	C
CRIT7	CPU	TXGC	P390K	2016/03/29 11:30	2016/03/29 12:00	2016/03/29 11:55	2016/03/29 12:35	00:40:00	2400	2016/03/29 11:52:10	2016/03/29 12:32:10	00:40:00	2400	C
HOR70030	DMY	TXGC	HORIZONT	2016/03/29 06:00	2016/03/29 12:00	2016/03/29 10:16	2016/03/29 10:17	00:01:00	60	2016/03/29 18:41:14	2016/03/29 18:41:14	00:00:00	0	C
HOR70050	CPU	TXGC	HORIZONT	2016/03/29 06:00	2016/03/29 12:00	2016/03/29 10:16	2016/03/29 10:19	00:03:00	180	2016/03/29 18:47:12	2016/03/29 18:50:13	00:03:00	180	C
HOR70040	DMY	TXGC	HORIZONT	2016/03/29 06:00	2016/03/29 12:00	2016/03/29 10:19	2016/03/29 10:20	00:01:00	60	2016/03/29 18:47:15	2016/03/29 18:47:15	00:00:00	0	C
	DMY	TXGC	HORIZONT	2016/03/29 06:00	2016/03/29 12:00	2016/03/29 10:20	2016/03/29 10:21	00:01:00	60	2016/03/29 18:50:13	2016/03/29 18:50:13	00:00:00	0	C
ZA42H5	CPU	TXGC	P390K	2016/03/28 09:00	2016/03/29 10:00	2016/03/29 05:01	2016/03/29 05:01	00:00:10	10	2016/03/29 19:01:41	2016/03/29 19:01:41	00:00:00	0	C
ZAD1H0	CPU	TXGC	P390K	2016/03/28 09:00	2016/03/29 10:00	2016/03/29 05:01	2016/03/29 05:01	00:00:10	10	2016/03/29 19:01:41	2016/03/29 19:01:41	00:00:00	0	C

[9 row(s) have been found.]

on

Action Buttons: Show details, Show SQL, Save to File, Reset, Cancel

Missed their deadline by more than 30 minutes

Job Duration Analysis

Menu

- General
 - Home
 - TWS Systems
 - CP+LTP
 - AD
 - Users
 - Options
 - Log Files Administration
- AD
 - Insert
 - List, Modify, Delete
 - TWS Update
 - Predefined Run Cycle
 - Simulation
 - Query AD Database
 - Applications
 - Operations
 - Dependencies
 - Spec. Res./Oper.
- CP + LTP
 - Insert
 - List, Modify, Delete
 - Query Current Plan
 - Occurrences
 - Operations
 - Spec. Res. usage
 - Old CP Versions
 - Reporting/Statistic
 - Job History
 - TWS Activity
 - Duration Analysis
 - EndTime Analysis
 - Status monitor

open all | close all

Job Duration Analysis

Selection criterias

TWS System	*	<input type="text" value="TXGC"/>	
Jobname	=	<input type="text"/>	?
Application id	=	<input type="text" value="hor95*"/>	?
Op no	=	<input type="text"/>	?
Workstation	=	<input type="text"/>	?
Owner id	=	<input type="text"/>	?
Started at	>=	<input type="text" value="2016"/> / <input type="text" value="03"/> / <input type="text" value="06"/>	?
Ended at	=	<input type="text"/> / <input type="text"/> / <input type="text"/>	?

Chart appearance

Smoothing	Yes
-----------	-----

Other Options

Exclusion of outliers	No
Level of prediction precision	9

Action Buttons

OK Show SQL Load Selection Save Selection Reset Cancel

The Duration Analysis is based on the job history data. It calculates trends of the jobs duration.

Search for your jobs

Job Duration Analysis

Browser: http://192.168.47.28:8088/index.php | TWS/WebAdmin for z/OS

Job Duration Analysis

Filter: All | Critical Predictions | Positive Trends | Negative Trends

Time Periods: Last month | Last week

Jobname	Application	Subsystem	Total					Month					Week				
			Duration	Average	#	Trend %	Pred	Duration	Average	#	Trend %	Div %	Duration	Average	#	Trend %	Div %
END	HOR95DEMO	TXGC	00:00:00	00:00:00	23	0	n/a	00:00:00	00:00:00	23	0	0	00:00:00	00:00:00	6	0	0
HOR95005	HOR95DEMO	TXGC	00:57:30	00:02:30	23	4.42	>3 years	00:57:30	00:02:30	23	4.42	0	00:13:30	00:02:15	6	-9.92	-10
HOR95010	HOR95DEMO	TXGC	04:58:30	00:12:58	23	51.08	>2 years	04:58:30	00:12:58	23	51.08	0	01:27:30	00:14:35	6	50	12.47
HOR95011	HOR95DEMO	TXGC	00:43:45	00:01:54	23	7.41	>10 years	00:43:45	00:01:54	23	7.41	0	00:10:15	00:01:42	6	38.73	-10.53
HOR95012	HOR95DEMO	TXGC	00:41:00	00:01:46	23	7.12	>10 years	00:41:00	00:01:46	23	7.12	0	00:10:15	00:01:42	6	21.84	-3.77
HOR95013	HOR95DEMO	TXGC	00:00:23	00:00:01	23	0	n/a	00:00:23	00:00:01	23	0	0	00:00:06	00:00:01	6	0	0
T2100	HOR95DEMO	TXGC	00:00:00	00:00:00	23	0	n/a	00:00:00	00:00:00	23	0	0	00:00:00	00:00:00	6	0	0

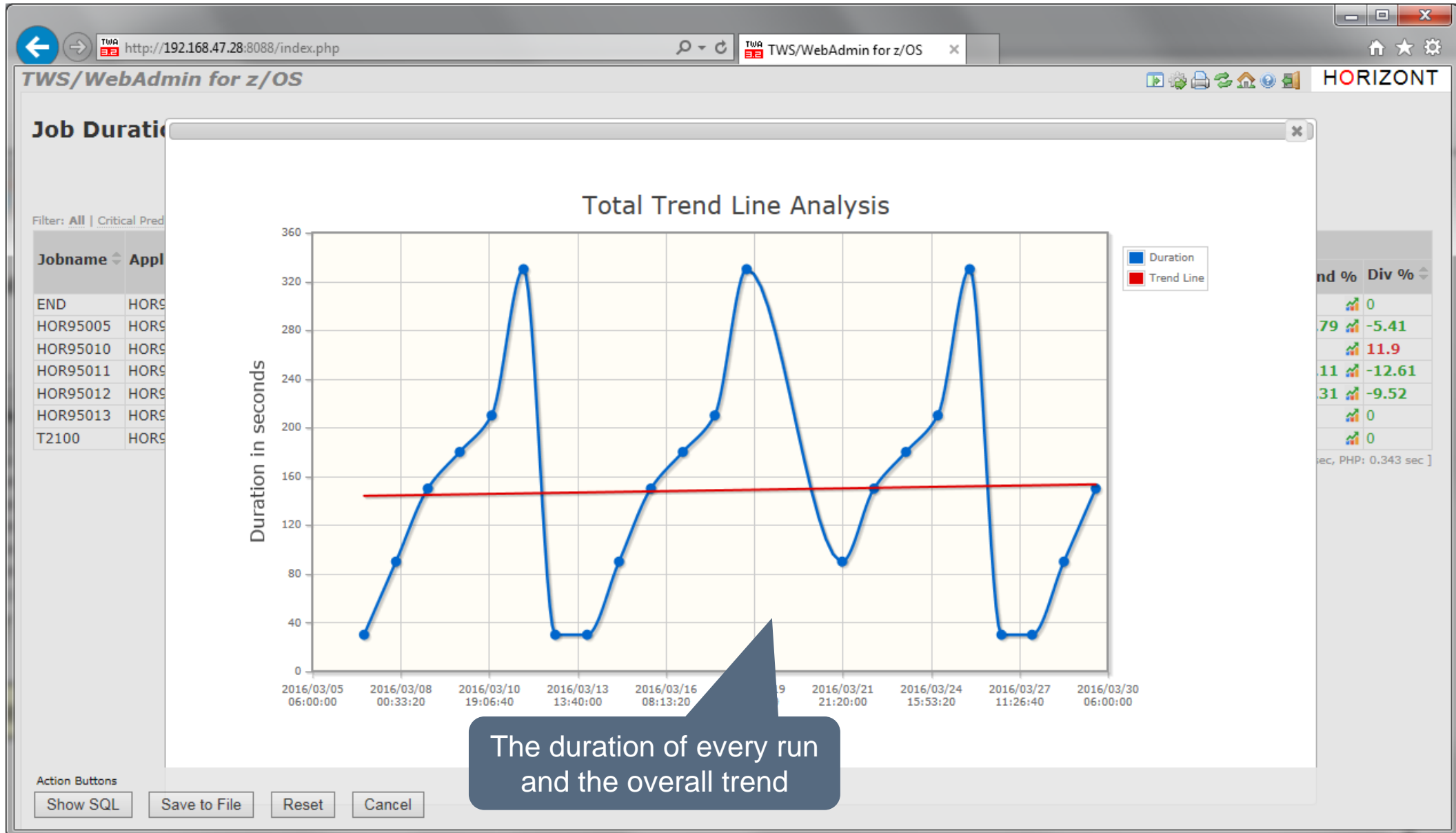
[7 rows have been found] [SQL: 0.047 sec, PHP: 0.375 sec]

Action Buttons: Show SQL | Save to File | Reset | Cancel

Annotations:

- Total Duration, Average, „#“ means no. of runs, Trend, DL prediction
- Last month
- Last week
- Selected jobs
- Click on that symbol shows the trend graphically (next slide)
- Growing trends are marked red, shrinking green

Job Duration Trend



Job End Time Analysis and Deadline Prediction

Menu

- General
 - Home
 - TWS Systems
 - CP+LTP
 - AD
 - Users
 - Options
 - Log Files Administration
- AD
 - Insert
 - List, Modify, Delete
 - TWS Update
 - Predefined Run Cycle
 - Simulation
 - Query AD Database
 - Applications
 - Operations
 - Dependencies
 - Spec. Res./Oper.
- CP + LTP
 - Insert
 - List, Modify, Delete
 - Query Current Plan
 - Occurrences
 - Operations
 - Spec. Res. usage
 - Old CP Versions
 - Reporting/Statistic
 - Job History
 - TWS Activity
 - Duration Analysis
 - EndTime Analysis
 - Status monitor

Job EndTime Analysis

Selection criterias

TWS System: TXG, TWFC, TWHC

Jobname: = [] ?

Application id: = [hor95*] ?

Op no: = [] ?

Workstation: = [] ?

Owner id: = [] ?

Started at: > [2016 / 03 / 01] ?

Ended at: = [] / [] / [] ?

Chart appearance

Smoothing: Yes [v]

Always show Deadline: Yes [v]

Other Options

Exclusion of outliers: Yes [v]

Level of prediction precision: 5 [v]

Action Buttons

OK Show SQL Load Selection Save Selection Reset Cancel

Callouts:

- The End Time Analysis is based on the job history data. It calculates trends of the jobs end time and when it will reach it's deadline
- Search for your jobs

Job End Time Analysis and Deadline Prediction

TWS/WebAdmin for z/OS

Job EndTime Analysis

Filter: All | Critical Predictions | Positive Trends | Negative Trends

Jobname	Application	Subsystem	Total					Month			Week				
			#	Trend %	Pred	Prog %	Tempo	#	Trend %	Div %	Tempo	#	Trend %	Div %	Tempo
END	HOR95DEMO	TXGC	27	38.5	>2 years	89.82	+ 00:00:12	26	37.06	-0.01	+ 00:00:07	6	7.86	-0.17	+ 00:00:03
HOR95005	HOR95DEMO	TXGC	27	-2.92	n/a	98.64	+ 00:00:01	26	-3.43	-0	- 00:00:01	6	-26.87	0.02	- 00:00:11
HOR95010	HOR95DEMO	TXGC	27	50.2	>3 years	89.46	+ 00:00:12	26	50.49	-0.01	+ 00:00:12	6	51.28	-0.22	+ 00:00:12
HOR95011	HOR95DEMO	TXGC	27	40.76	>2 years	89.71	+ 00:00:12	26	41.16	-0.01	+ 00:00:13	6	44.44	-0.2	+ 00:00:25
HOR95012	HOR95DEMO	TXGC	27	31.96	>2 years	89.75	+ 00:00:12	26	29.5	-0.02	+ 00:00:02	6	-40.73	-0.17	- 00:00:22
HOR95013	HOR95DEMO	TXGC	27	38.5	>3 months	98.51	+ 00:00:12	26	37.06	-0.01	+ 00:00:07	6	7.86	-0.17	+ 00:00:03
T2100	HOR95DEMO	TXGC	26	24.78	>10 years	88.24	+ 00:00:01	25	25.56	-0	+ 00:00:01	6	56.35	-0.01	+ 00:00:02

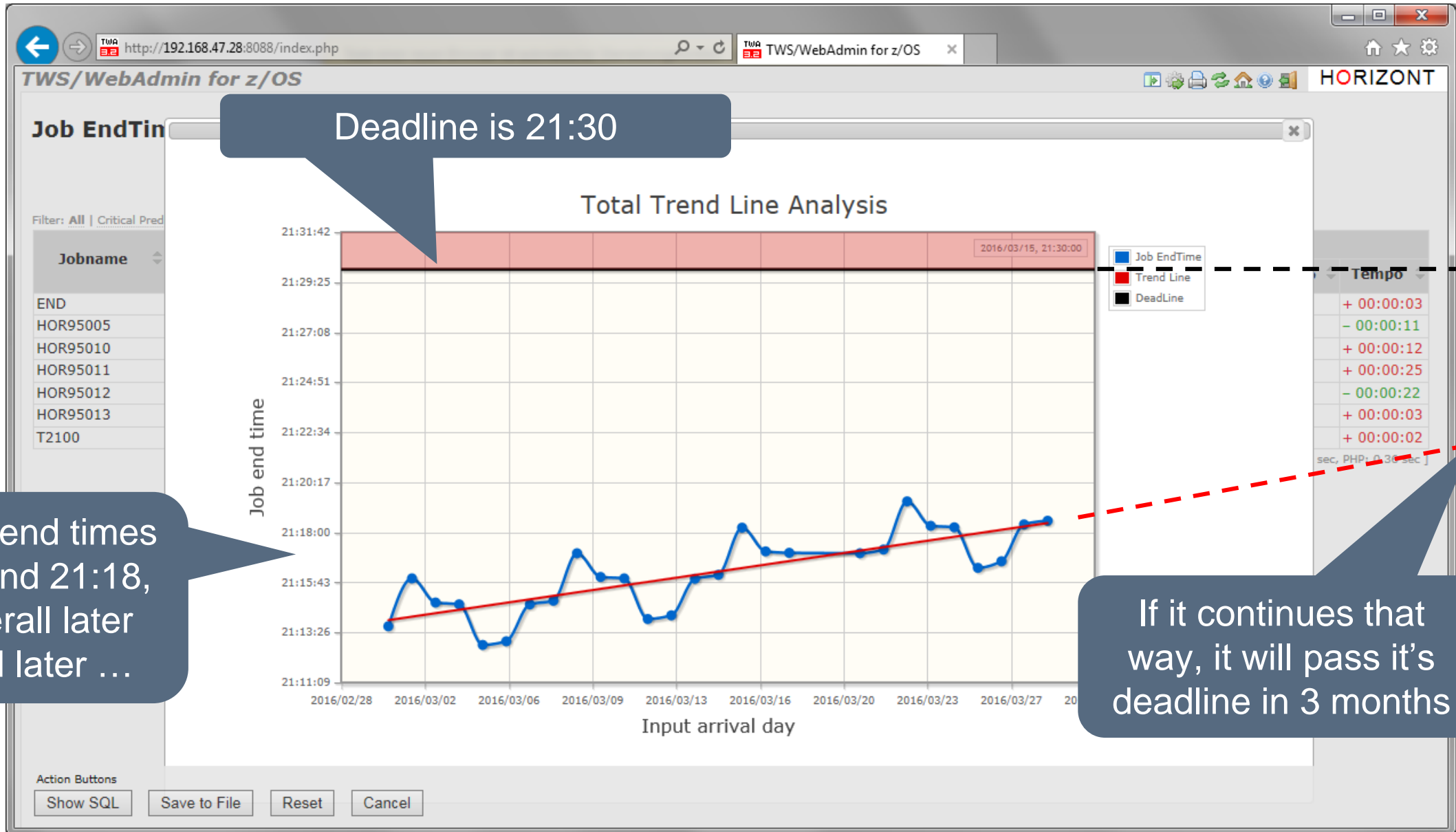
[7 row(s) have been found.] [SQL: 0.047 sec, PHP: 0.36 sec]

Action Buttons: Show SQL, Save to File, Reset, Cancel

Again, calculations for total (all runs), last month, week

Click on the symbol, it shows the trend for this job, which is a critical end job. Prediction in this case: In 3 months, it will reach it's deadline.

Job End Time Analysis and Deadline Prediction



Deadline is 21:30

Last end times around 21:18, overall later and later ...

If it continues that way, it will pass its deadline in 3 months

Sample use cases for IT Customers

- The embedded status monitor
 - creates automatically html reports.
 - The structure and filters are defined by an administrator.
 - They are related to business process names and associated to job names.
- These public links enables "everyone" to see from any web browser the current status of the parts of the IT production, he is interested in.
- The customer can easily find his well known business process names.
- In addition, there are smart rules to alert somebody in case of error or late jobs (SLA breach)
- In case of alert, also a user program or script can be called

Status Monitor

The screenshot shows the TWS/WebAdmin for z/OS interface. On the left is a navigation menu with categories like General, TWS Systems, AD, and CP + LTP. The 'Status monitor' option is highlighted with a red arrow. The main content area is titled 'TWS status monitor definition and settings' and contains a table with the following data:

	Name	Refresh	Started	Stopped
<input checked="" type="radio"/>	Demo01	1	2016/03/31 11:47:23	
<input type="radio"/>	Demo02	1	2016/03/31 11:47:39	
<input type="radio"/>	Demo03	5	2016/03/31 11:47:44	

At the bottom of the interface, there are 'Action Buttons' including 'New', 'Modify', 'Delete', 'Start', 'Stop', 'Open Monitor Tree' (highlighted with a red box), 'View html', 'View runlog', and 'Export'.

The administrator defines one or more “Status Monitor Configurations” with some options about HTML output, SMTP etc.

The Jobs to be monitored are defined in “Status Monitor Trees” (see next slides)

Status Monitor

The screenshot displays the 'Monitor Tree: Demo01' interface. The tree is organized into three main groups: 'TWS TWFC (Development)', 'TWS TXGC (Demo Prod)', and 'Test Applications'. Under 'TWS TXGC (Demo Prod)', there is a sub-group 'HORIZONTAL Demo Jobs' which contains several operations, including 'Critical Job' which is highlighted with a red box. An 'Edit operation' dialog box is open, showing the configuration for the 'Critical Job' operation. The dialog includes fields for 'Object description', 'Application Id', 'Owner Id', 'Authority Group', 'IA Time From', 'IA Time To', 'Jobname', 'Ws Id', 'Operation number', 'Status', 'External monitor', 'Late time origin', 'Late time', 'ETT triggered', 'Predecessor level', 'Email to', and 'External program'. The 'Late time' field is set to '+02:00' and 'ETT triggered' is set to 'No'. The dialog also features 'Action Buttons' for 'OK', 'Cancel', and 'Reset'.

Define Groups in hierarchical order, Applications and Operations to be monitored and give them self explaining business names like payroll, accounting etc.

Enter generic or detailed (milestones) search criteria and optional parameters, e.g. when it have to be completed (Late time, based on your SLA)

Status Monitor

The screenshot shows a web browser window titled "Monitor tree Demo01 - Internet Explorer" with the URL "http://192.168.47.28:8088/twazx_stmon_start.php?selection=Demo01". The main content area is titled "Monitor Tree: Demo01" and features a menu bar with "File", "Edit", "Search", and "Options", along with a "Zoom 54%" slider and "1:1 Fit" buttons. The "Status Monitor" section displays a hierarchical tree of system components. Each component is represented by a colored bar with a status indicator (G, O, or a) and a label. The components are organized into three main groups: "TWS TWFC (Development)", "TWS TXGC (Demo Prod)", and "Test Applications".

- TWS TWFC (Development):** Status Based (G), Maintenance TWFC (G), Tests on Demo (G), Owner Helmut (G).
- TWS TXGC (Demo Prod):** Status Based (G), Maintenance (G), HORIZONT Demo Jobs (G). Under HORIZONT Demo Jobs: Payment Transaction (O), Mortgage billing (O), Accounting (O), Critical Job (O), Batch End (O).
- Test Applications:** testjob (O), HOR + (G).

At the bottom, there are "Action Buttons" for "View html" and "View runlog".

Once the monitor is started, it reads WebAdmin's CP database and calculates the status of each object and shows it in status colors (waiting=grey, ready=yellow, started=green, error=red, completed=blue)

Status Monitor

The screenshot displays the 'Monitor Tree: Demo01' interface in Internet Explorer. The tree structure is organized into three main columns:

- Left Column (Green):** TWS TWFC (Development), Status Based, Maintenance TWFC, Tests on Demo, and Owner Helmut.
- Middle Column (Red):** TWS TXGC (Demo Prod), Status Based, Maintenance, HORIZONT Demo Jobs, Mortgage billing, Accounting, Critical Job, and Batch End.
- Right Column (Green):** Test Applications, testjob, and HOR +.

Each job is represented by a colored box with a status indicator (G for Green, R for Red, O for Orange, P for Pink, W for White). The 'Critical Job' is highlighted in pink. A red arrow points from this job to an email message window.

The email message window, titled 'status monitor generated message for status(es):el - Nachricht (Nur-Text)', contains the following text:

Von: hziegler@horizont-it.com
An: hziegler@horizont-it.com
Cc:
Betreff: status monitor generated message for status(es):el

2016-03-31 12:19:40 status monitor email event for Demo01: Object: Critical Job, status: L (type: O, id: 86)

At the bottom of the interface, there are 'Action Buttons' for 'View html' and 'View runlog'.

Depending on the refresh rate (e.g. one minute), it shows the new status

The monitor optional send an email if something ended in error or has become late

Status Monitor, Public HTML

TWS/WebAdmin z/OS Status Monitor report, created 2016-03-31 12:32:58

Description	Application id	Owner Id	Jobname	Op.no.	WS Id.	Status	Absolute late ti
TWS TWFC (Development)	-	-	-	-	-	Active	-
TWS TXGC (Demo Prod)	-	-	-	-	-	Error	-
Test Applications	-	-	-	-	-	Active	-

TWS/WebAdmin z/OS Status Monitor report, created 2016-03-31 12:34:00

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Description	Application id	Owner Id	Jobname	Op.no.	WS Id.	Status	Absolute late time	Remaining duration	Remaining time buffer
Status Based	-	-	-	-	-	-	-	-	-
Maintenance	-	-	-	-	-	-	-	-	-
HORIZONT Demo Jobs	-	-	-	-	-	-	-	-	-

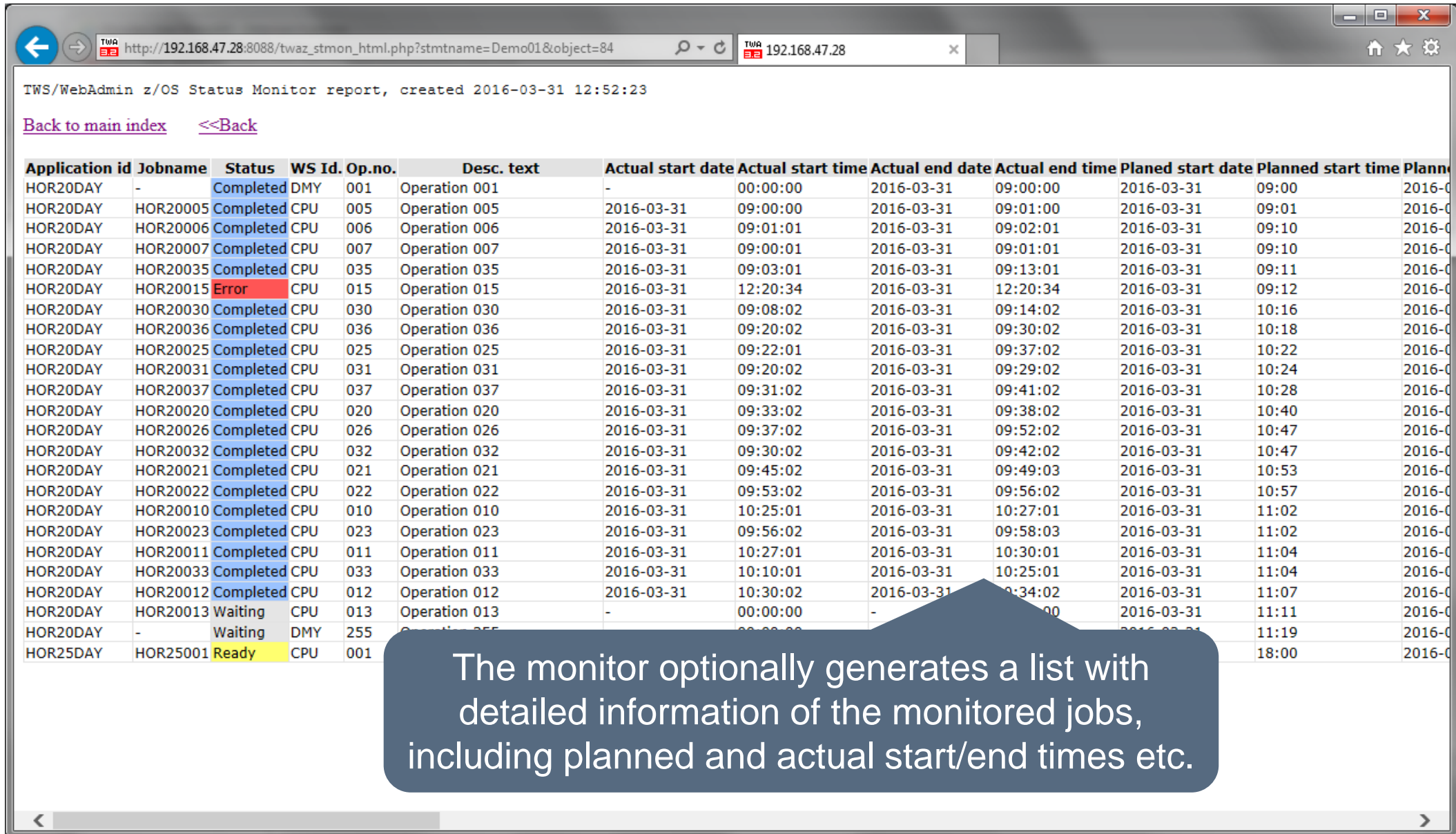
TWS/WebAdmin z/OS Status Monitor report, created 2016-03-31 12:35:01

[Back to main index](#) <<Back

Description	Application id	Owner Id	Jobname	Op.no.	WS Id.	Status	Absolute late time	Remaining duration	Remaining time buffer
Payment Transaction	HOR1*	-	-	-	-	Completed	-	-	-
Mortgage billing	HOR2*	-	-	-	-	Error	-	-	-
Accounting	HOR3*	-	-	-	-	Started	-	-	-
Critical Job	HOR5*	-	-	005	-	Late	-	-	-
Batch End	HOR70DAY	-	-	255	-	Waiting	-	00:52:47	13:32:12

Next slide

Status Monitor, Public HTML



TWS/WebAdmin z/OS Status Monitor report, created 2016-03-31 12:52:23

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Application id	Jobname	Status	WS Id.	Op.no.	Desc. text	Actual start date	Actual start time	Actual end date	Actual end time	Planned start date	Planned start time	Planned end date
HOR20DAY	-	Completed	DMY	001	Operation 001	-	00:00:00	2016-03-31	09:00:00	2016-03-31	09:00	2016-03-31
HOR20DAY	HOR20005	Completed	CPU	005	Operation 005	2016-03-31	09:00:00	2016-03-31	09:01:00	2016-03-31	09:01	2016-03-31
HOR20DAY	HOR20006	Completed	CPU	006	Operation 006	2016-03-31	09:01:01	2016-03-31	09:02:01	2016-03-31	09:10	2016-03-31
HOR20DAY	HOR20007	Completed	CPU	007	Operation 007	2016-03-31	09:00:01	2016-03-31	09:01:01	2016-03-31	09:10	2016-03-31
HOR20DAY	HOR20035	Completed	CPU	035	Operation 035	2016-03-31	09:03:01	2016-03-31	09:13:01	2016-03-31	09:11	2016-03-31
HOR20DAY	HOR20015	Error	CPU	015	Operation 015	2016-03-31	12:20:34	2016-03-31	12:20:34	2016-03-31	09:12	2016-03-31
HOR20DAY	HOR20030	Completed	CPU	030	Operation 030	2016-03-31	09:08:02	2016-03-31	09:14:02	2016-03-31	10:16	2016-03-31
HOR20DAY	HOR20036	Completed	CPU	036	Operation 036	2016-03-31	09:20:02	2016-03-31	09:30:02	2016-03-31	10:18	2016-03-31
HOR20DAY	HOR20025	Completed	CPU	025	Operation 025	2016-03-31	09:22:01	2016-03-31	09:37:02	2016-03-31	10:22	2016-03-31
HOR20DAY	HOR20031	Completed	CPU	031	Operation 031	2016-03-31	09:20:02	2016-03-31	09:29:02	2016-03-31	10:24	2016-03-31
HOR20DAY	HOR20037	Completed	CPU	037	Operation 037	2016-03-31	09:31:02	2016-03-31	09:41:02	2016-03-31	10:28	2016-03-31
HOR20DAY	HOR20020	Completed	CPU	020	Operation 020	2016-03-31	09:33:02	2016-03-31	09:38:02	2016-03-31	10:40	2016-03-31
HOR20DAY	HOR20026	Completed	CPU	026	Operation 026	2016-03-31	09:37:02	2016-03-31	09:52:02	2016-03-31	10:47	2016-03-31
HOR20DAY	HOR20032	Completed	CPU	032	Operation 032	2016-03-31	09:30:02	2016-03-31	09:42:02	2016-03-31	10:47	2016-03-31
HOR20DAY	HOR20021	Completed	CPU	021	Operation 021	2016-03-31	09:45:02	2016-03-31	09:49:03	2016-03-31	10:53	2016-03-31
HOR20DAY	HOR20022	Completed	CPU	022	Operation 022	2016-03-31	09:53:02	2016-03-31	09:56:02	2016-03-31	10:57	2016-03-31
HOR20DAY	HOR20010	Completed	CPU	010	Operation 010	2016-03-31	10:25:01	2016-03-31	10:27:01	2016-03-31	11:02	2016-03-31
HOR20DAY	HOR20023	Completed	CPU	023	Operation 023	2016-03-31	09:56:02	2016-03-31	09:58:03	2016-03-31	11:02	2016-03-31
HOR20DAY	HOR20011	Completed	CPU	011	Operation 011	2016-03-31	10:27:01	2016-03-31	10:30:01	2016-03-31	11:04	2016-03-31
HOR20DAY	HOR20033	Completed	CPU	033	Operation 033	2016-03-31	10:10:01	2016-03-31	10:25:01	2016-03-31	11:04	2016-03-31
HOR20DAY	HOR20012	Completed	CPU	012	Operation 012	2016-03-31	10:30:02	2016-03-31	10:34:02	2016-03-31	11:07	2016-03-31
HOR20DAY	HOR20013	Waiting	CPU	013	Operation 013	-	00:00:00	-	00:00:00	2016-03-31	11:11	2016-03-31
HOR20DAY	-	Waiting	DMY	255	Operation 255	-	00:00:00	-	00:00:00	2016-03-31	11:19	2016-03-31
HOR25DAY	HOR25001	Ready	CPU	001	Operation 001	-	00:00:00	-	00:00:00	2016-03-31	18:00	2016-03-31

The monitor optionally generates a list with detailed information of the monitored jobs, including planned and actual start/end times etc.

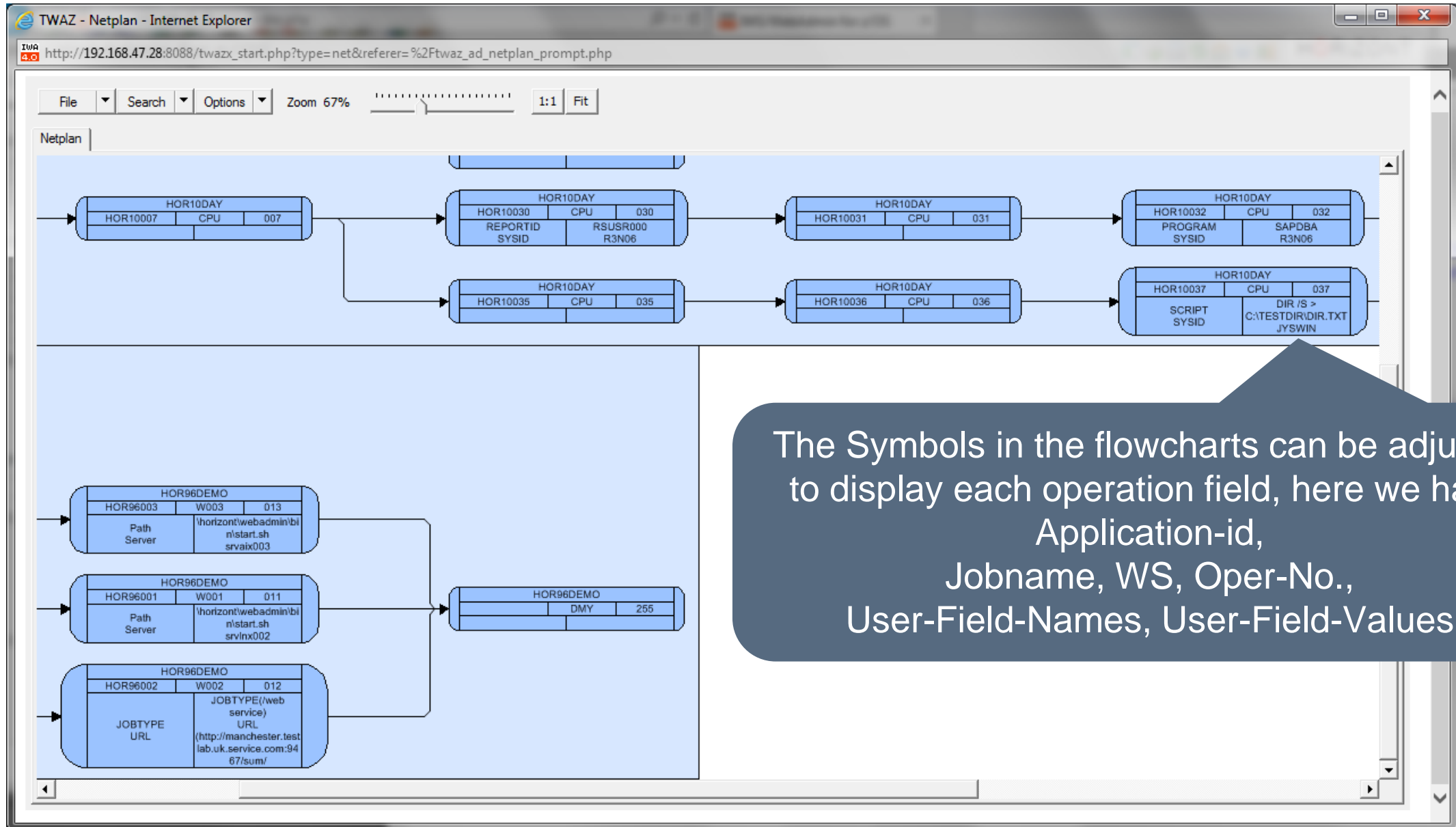
Active Client usage Scenarios

- Client-1:
 - Insurance in Münster
- Client-2:
 - Service provider for banks and insurances in Munich
- Client-3:
 - Bank in Frankfurt

Scenario 1

- Client-1 (Insurance)
 - Mainly non z/OS developers are using WebAdmin
 - They search for their jobs in the AD and CP to
 - Find which jobs are running on a specific server
 - Verify their job run times and dependencies in simple queries and readable flowcharts
 - Customer specific enhancement:
 - Read XINFO (SmartIS) and search for called scripts and server names in Jobs
 - Load this every day with BatchAD in IWS user fields

Scenario 1



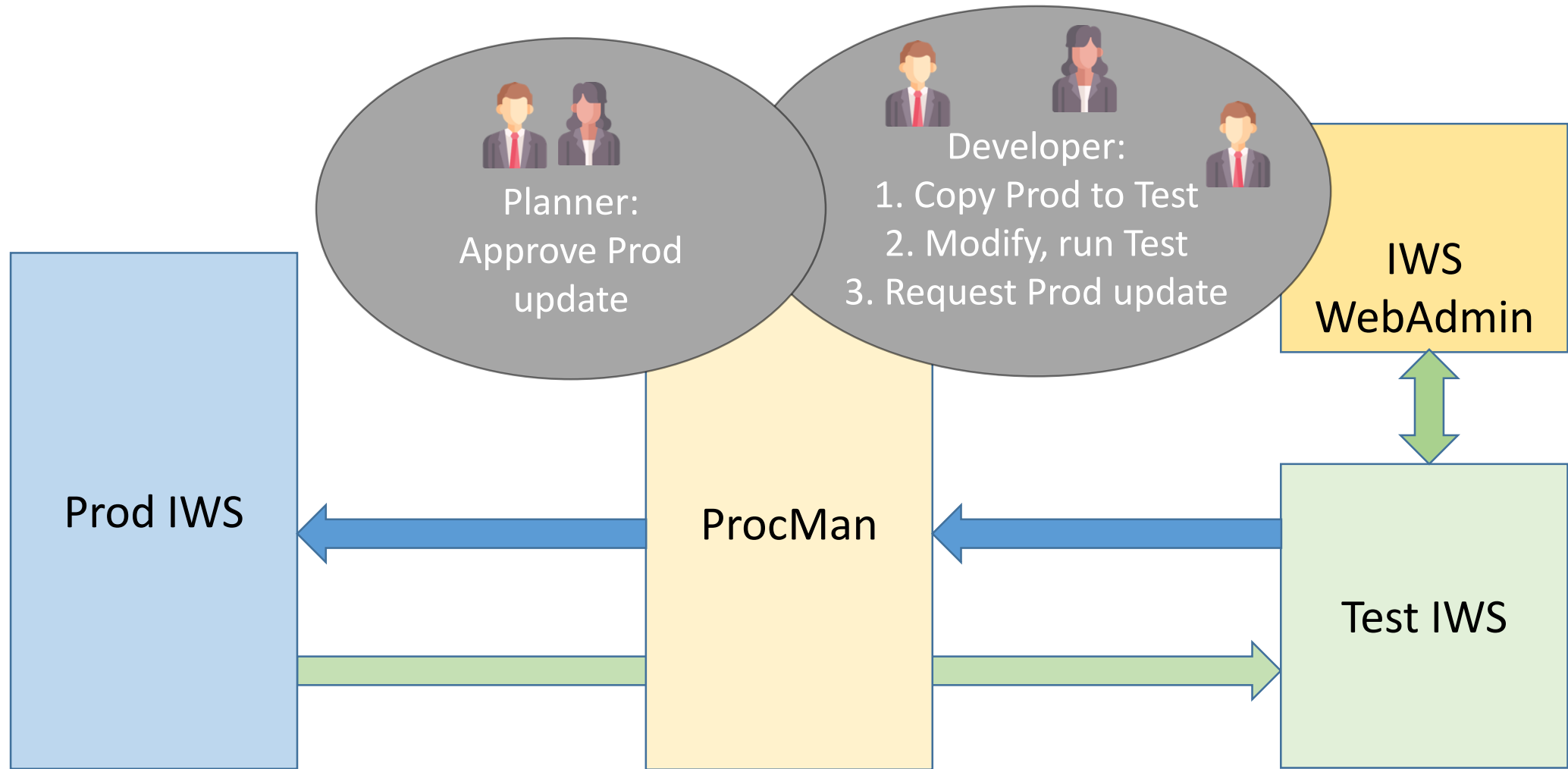
Scenario 2

- Client-2 (Service provider)
 - Mainly developers are using WebAdmin
 - They define critical jobs in the Status Monitor to
 - Offer and share simple HTML output for non IT users, to see the important production status based on business process names
 - Get an alarm email from WebAdmin, in case a critical job is late or in error

Scenario 3

- Client-3 (Bank)
 - Mainly non z/OS developers are using WebAdmin and ProcMan
 - They are using ProcMan to
 - Select and copy their own IWS applications from production to their Test-IWS
 - Jobnames and Calendar etc. are changed automatically
 - They have access to the Test-IWS via WebAdmin and use it to
 - Change their own applications and create new ones
 - Insert it into the current plan and control their test runs on their own
 - Prepare the applications for handover to production
 - They are using ProcMan to
 - Select from Test-IWS their applications and handover them to the planning team
 - Jobnames and Calendar etc. are changed automatically
 - The planning team are reviewing and verifying it and update the production system in time

Scenario 3: WebAdmin & ProcMan



IWS/WebAdmin z/OS - Summary

- WebAdmin opens the „black box“ IWS for Developers
- It enables Developers to help themselves
- Is a powerful optimisation tool for workload production planners
- It's flowcharts and a lot of special features help to manage test and production
- WebAdmin assists in critical situations and make life easier
- Offers predictive analysis and shows possible SLA breach in advance
- Enables even “non experts” like IT Customers to monitor their workload independently

Thanks for your attention! Do you have any questions?

The logo for 'HORIZONT' features the word in a bold, sans-serif font. The letter 'O' is highlighted in red, while the other letters are in dark grey. The background is light grey with a large red curved shape on the left and several faint, semi-transparent geometric shapes (squares and a triangle) scattered around the text.

HORIZONT

Please feel free to visit us in Munich or send an email to
info@horizont-it.com