

Comparison IWS/Graph and IWS/WebAdmin for IWSz

Architecture and functions

Who and how use the the products

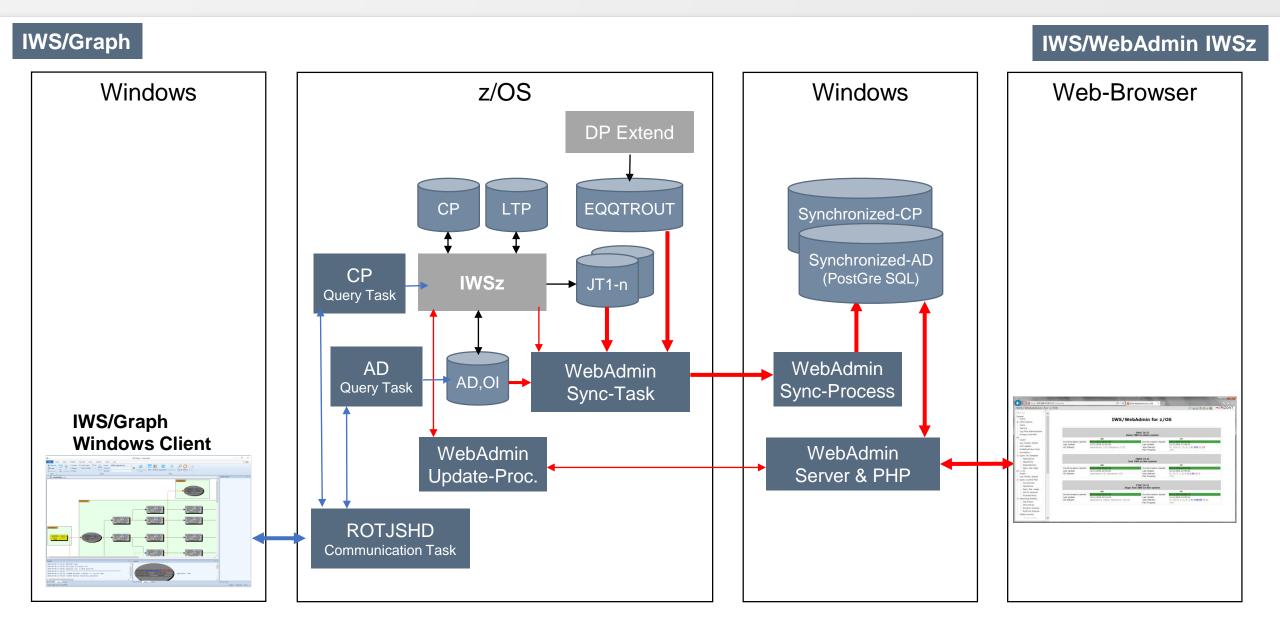
• Graph is the tool for real experts, the planning team.

- You can load and analysis very large netplans, hundred thousands of jobs. And search for critical path etc.
- But there is no update function, no versions of applications, no job history.

• WebAdmin is the tool for "everybody", developers etc.

- easy query dialogs,
- you can update applications,
- see and if needed reuse old versions of applications,
- copy applications from one to another IWS,
- monitor and restart operations
- query when did my jobs run,
- use various analysis and statistic reports etc.
- It's also useful for the planning team.

Overview technical architecture



Differences between product functions - Overview

Function	IWS/Graph	IWS/WebAdmin z	
Graphics			
Netplan of Application Description	\checkmark	\checkmark	
Netplan of Current Plan	\checkmark	\checkmark	
Netplan of historical current plan (old CP versions)	Offline, if unloaded to file	\checkmark	Own Database
Netplan of trial plan (forecast CP versions)	Offline, if unloaded to file	\checkmark	
Bar charts (based on Current Plan)	√ limited	\checkmark	=
Print, export, save netplans	\checkmark	\checkmark	_
Database			History
IWS AD in own synchronised database	not intended	\checkmark	* Thistory
Keep old versions (Audit AD)	not intended		
IWS CP in own synchronised database	not intended	V	Comparison
Keep old CP versions	not intended	$\overline{\mathbf{v}}$	
Application Description			 Simulation
Create, modify and delete applications and operations (Jobs)	not intended	\checkmark	
Modify/Display Operator Instruction (OI)	√ display only	$\overline{\mathbf{v}}$	Statistics
User roles and security concept	not intended	√ limited	Oldliolioo
Auditable handover workflow through several stages	not intended	not intended	
Application description documentation (Report)			
Query dialog for application description (X-Ref)	$\sqrt{1}$ ISPF only		
Current Plan	(.e e)		
Insert / modify applications in LTP	not intended	\checkmark	
Insert / modify applications in CP	not intended		
Insert / modify applications in CP inclusive JCL	not intended	not intended	
Edit JCL in CP	not intended	V	
Monitoring			
Query dialog current plan (X-Ref)	not intended	N	
Common error list (for many TWS systems)	not intended	N	
Status Monitoring on business process level and	not intended	`	
Alarm (email) function for late/error jobs	\checkmark	\checkmark	
Forecast			
Simulation of runtimes after changes	not intended	\checkmark	
Forecast of any day in the future	V	$\overline{\mathbf{v}}$	
Forecast, based on CP-Trial report		1	
Loop Analysis		N N	
Reporting, Statistics			
Job runtime history	not intended	N	
Activity statistic *	not intended	N N	
Analysis of job durations, end times and deadlines	not intended	N	
Dash Board	not intended	2	
Batch	not intended	N N	
Batch Interface	7	limited (Scripts, SQL)	
Daton internate	N N	milleu (Scripis, SQL)	

Differences between product functions - Details 1

Function	IWS/Graph	IWS/WebAdmin z
Graphics		
Netplan of Application Description	\checkmark	\checkmark
Netplan of Current Plan	\checkmark	\checkmark
Netplan of historical current plan (old	Offline, if unloaded to file	\checkmark
Netplan of trial plan (forecast CP	Offline, if unloaded to file	\checkmark
Bar charts (based on Current Plan)	√ lim ite d	\checkmark
Print, export, save netplans	\checkmark	\checkmark
Database		
IWS AD in own synchronised database	not intended	\checkmark
Keep old versions (Audit AD)	not intended	\checkmark
IWS CP in own synchronised database	not intended	\checkmark
Keep old CP versions	not intended	\checkmark
Application Description		
Create, modify and delete applications	not intended	\checkmark
(OI)	$\sqrt{ extsf{display}}$ only	\checkmark
User roles and security concept	not intended	$\sqrt{1}$ lim ite d
Auditable handover workflow through	not intended	not intended
documentation (Report)	\checkmark	\checkmark
Query dialog for application	$\sqrt{1}$ ISPF only	\checkmark

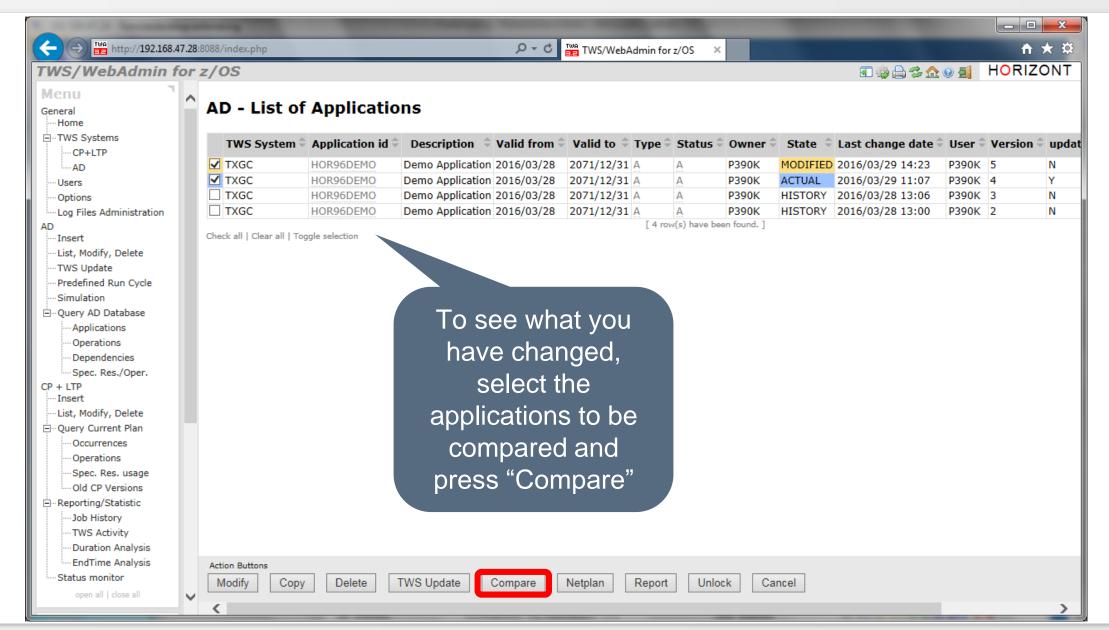
Differences between product functions - Details 2

Function	IWS/Graph	IWS/WebAdmin z
Current Plan		
Insert / modify applications in LTP	not intended	\checkmark
Insert / modify applications in CP	not intended	\checkmark
Insert / modify applications in CP inclusive JCL	not intended	not intended
Edit JCL in CP	not intended	\checkmark
Monitoring		
Query dialog current plan (X-Ref)	not intended	\checkmark
Common error list (for many TWS systems)	not intended	\checkmark
Status Monitoring on business process level		
Alarm (email) function for late/error jobs	\checkmark	\checkmark
Forecast		
Simulation of runtimes after changes	not intended	\checkmark
Forecast of any day in the future	\checkmark	\checkmark
Forecast, based on CP-Trial report	\checkmark	\checkmark
Loop Analysis	\checkmark	\checkmark
Reporting, Statistics		
Job runtime history	not intended	\checkmark
Activity statistic *	not intended	\sim
Analysis of job durations, end times and deadlines	not intended	\sim
Dash Board	not intended	\checkmark
Batch		
Batch Interface	\checkmark	limited (Scripts, SQL)

IWS/WebAdmin for IWSz

Useful additional functions only here

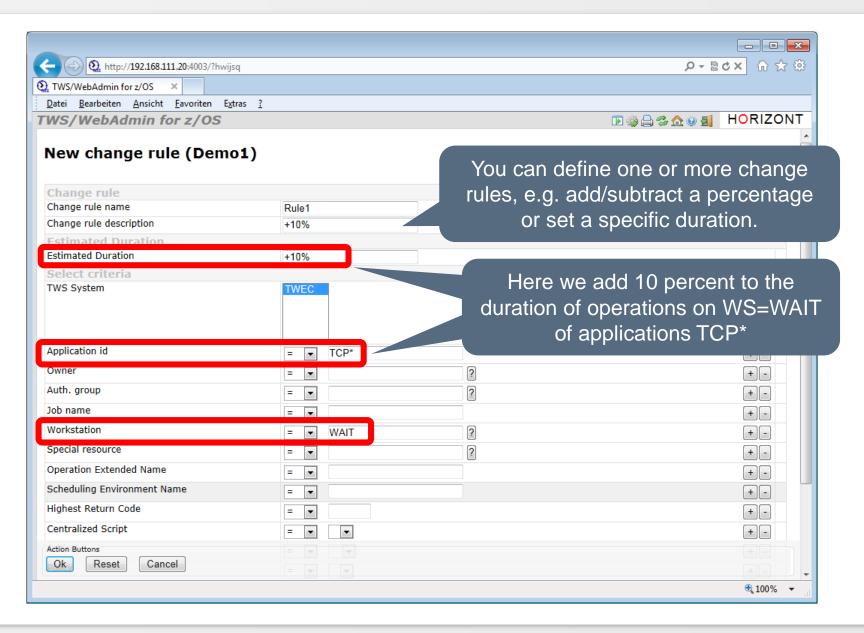
Verify your changes, Compare the Applications



Compare Applications

WS/WebAdmin fo	or z/OS				र ७िRIZONT
Menu General Home	Operations				^
TWS Systems CP+LTP	Operation 001				
AD	001		HOR96DEMO (version 5)	н	OR96DEMO (version 4)
	Wsid	DMY		DMY	
Options	Op no	001		001	
Log Files Administration	Jobname				
AD Insert	Operation Text				
List, Modify, Delete	Smoothing Factor				
	Feedback Limit				
TWS Update	Highest Return Code	0000		0000	
Predefined Run Cycle	Input arrival day	01		01	The changes are
Simulation	Input arrival time	0030		0100	ric onanges ar
⊡ Query AD Database	Operation Deadline Day				shown in red. He
Applications	Operation Deadline Time				Shown in red. rie
Operations	Resource 1	00		00	
Dependencies	Resource 2	00		00	we changed the
Spec. Res./Oper.	Parallel Servers	01		01	
CP + LTP	Job Class				"Operation IA tim
···· Insert	Sysout Class				
List, Modify, Delete	Form Number				from 01.00 to 00.3
- Query Current Plan	Submit	Y		Y	
Occurrences	Hold/Release	Y		Y	
Operations	Suppress if late	N		N	
Spec. Res. usage	Time Dependent	Y		Y	
Old CP Versions	Error Tracking	Y		Y	
- Reporting/Statistic	Deadline WTO	N		N	
Job History	Restartable				
TWS Activity	Reroutable				
- Duration Analysis	Clean up Type	N			i de setie e l
EndTime Analysis	Workstation Info		You can also	o nide al	Identical

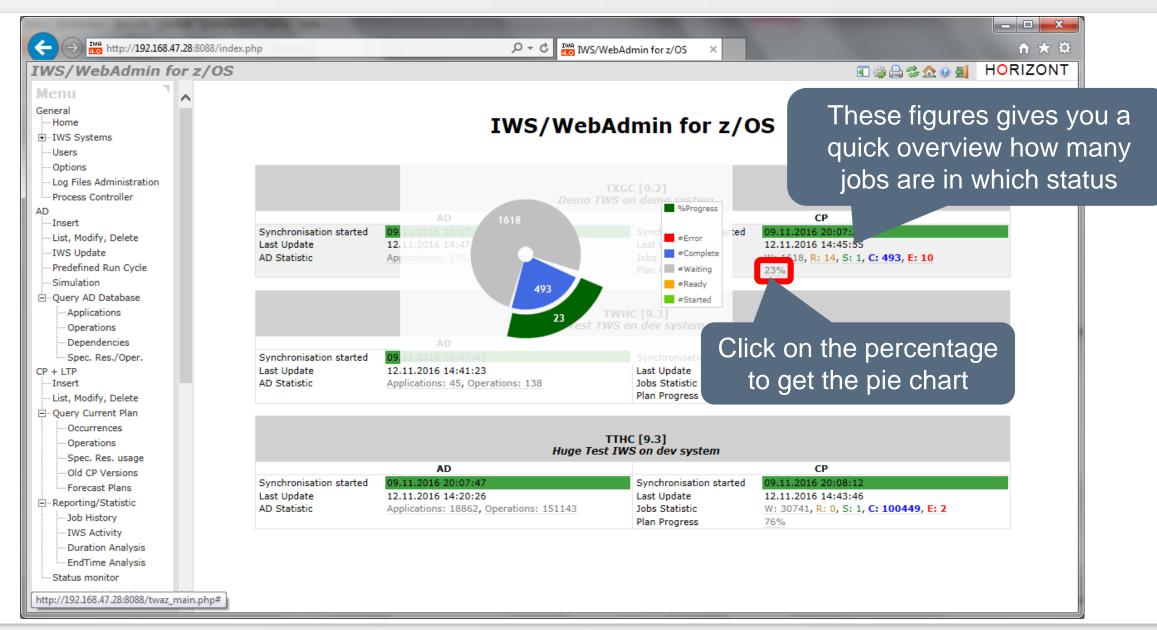
TWS/WebAdmin for z/OS Simulation



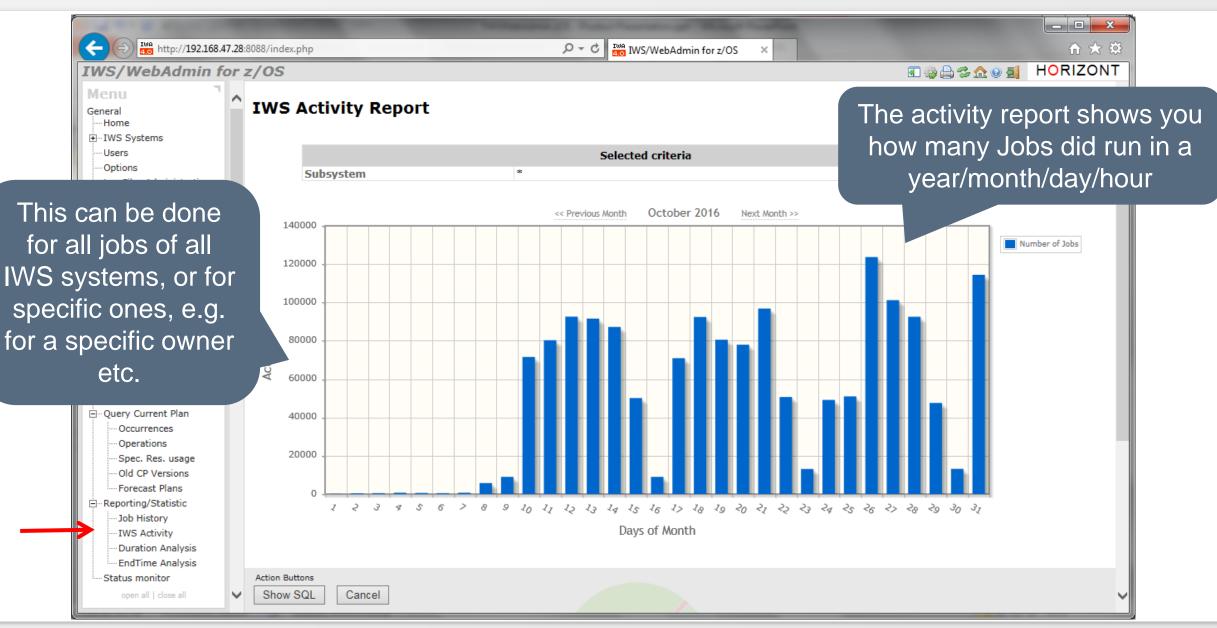
Sample use cases for IT-Leader and Analysts

- 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 Dashbord



IWS Activity Report



Job Duration Analysis

TWS/WebAdmin for z/OS Job Duration Analysis			"#	Duration, Average, "#" means no. of runs, Trend, DL prediction						Las	East week							
Filter: All Crit		Total						Mo	Week									
Jobname	Application 4	Subsystem 🕯	Duration 4	Average		Trend	1% PI	red	Duration ‡	Average \$		Trend	% Div %	Duration 🗘			Trend	% Div
END	HOR95DEMO	TXGC	00:00:00	00:00:00	23		 ⊿ n/a		00:00:00	00:00:00			.∼ ≰10	00:00:00	00:00:00	6	0	~~ 🔏 0
HOR95005	HOR95DEMO	TXGC	00:57:30	00:02:30		4.42	a n/a a > 3		00:57:30	00:02:30			a 0 a 0	00:13:30	00:02:15	6	-	a 0 a -10
HOR95010	HOR95DEMO	TXGC	04:58:30	00:12:58		51.08			04:58:30	00:12:58			₩ 0	01:27:30	00:14:35	6	50	112.
HOR95011		TXGC	00:43:45	00:01:54		7.41		-	00:43:45	00:01:54			di 0	00:10:15	00:01:42	6	38.73	
HOR95012		TXGC	00:41:00	00:01:46		7.12		-	00:41:00	00:01:46			d 0	00:10:15	00:01:42	6	21.84	
HOR95013		TXGC	00:00:23	00:00:01	23		1/a	· ·	00:00:23	00:00:01	23		d 0	00:00:06	00:00:01	6		d 0
T2100	HOR95DEMO	TXGC	00:00:00	00:00:00	23	0	, Va		00:00:00	00:00:00	23		d 0	00:00:00	00:00:00	6		d 0
ected jo	obs					_												
				Click or show raphica	's t	he tr	end						ma	ng tren arked re nking gi	ed,			

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Job End Time Analysis and Deadline Prediction

WS/Web	Admin for z/OS													i @ _	🏡 🕘 🚮 🛛 H	ORIZON	
	Fime Analysis	Negative Transfe							<u> </u>	jain, o I runs							
nicer: All Critical	Predictions Positive Trends	Negative Trends				Tota	1				Month			Week			
Jobname	Application	Subsystem	# \$	Trend	%	Pred \$	Prog % 🗘	Tempo	# 0	Trend %	Div %	Tempo	÷#:	Trend o		Tempo	
END	HOR95DEMO	TXGC	27	38.5	4	>2 years	89.82	+ 00:00:12	26	37.06	-0.01	+ 00:00	07 6	7.86	4 -0.17	+ 00:00:0	
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	- 00:00:1	
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	+ 00:00:1	
HOR95011	HOR95DEMO	TXGC	27	40.76	~	>2 years	89.71	+ 00:00:12	26		-0.01	+ 00:00	13 6	44.44	4 -0.2	+ 00:00:2	
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	- 00:00:2	
HOR95013	HOR95DEMO	TXGC	27	38.5	~	>3 months	98.51	+ 00:00:12	26	37.06	-0.01	+ 00:00	07 6	7.86	d -0.17	+ 00:00:0	
T2100	HOR95DEMO	TXGC	26	24.78		>10 years	88.24	+ 00:00:01	25	25.56	1 -0	+ 00:00	01 6	56.35	-0.01	+ 00:00:0	
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Thanks for your attention! Do you have any questions?



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