



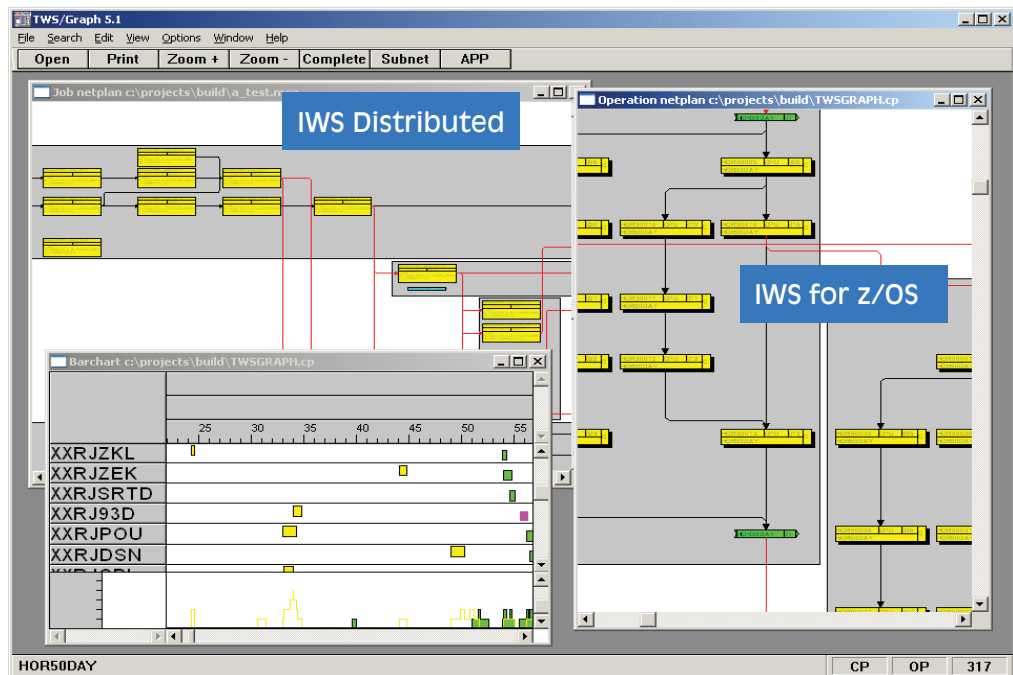
IWS/Graph™

Product Description



A Better View of IWS Scheduling

As an IWS user, you know just how important IWS is for the planning, automation, and control of your batch processing. With perhaps thousands of jobs running every night, IWS is critical to the timely completion of your batch production. However, as workloads grow, they become much more difficult to manage. When you're faced with problems, change requests, or simply the need to know more about the IWS system(s), IWS/Graph is the right choice for you:



IWS/Graph displays your IWS for z/OS and IWS for distributed data in a way that you have never seen before: Applications, schedules, jobs, resources, and dependencies are shown as symbols and lines. Your information is presented in an easy-to-understand netplan.

Communication between z/OS and PC

The communication between IWS/Graph and IWS for z/OS is based on TCP/IP. As a result, no additional software (frameworks, java run time environment, etc.), is required. Online communication is simple; start IWS/Graph, type in your User ID and password, enter your selection criteria, and the actual netplan will be displayed.

The screenshot displays the TWS/Graph 5.1 application window. The main area shows a complex network diagram with multiple nodes and connections. Overlaid on this are two dialog boxes:

- zOS data**: A configuration dialog with the following settings:
 - Filename: c:\projects\build\twsgraph.ad
 - Database: Application description, Current plan
 - Orientation: Left to right, Top to bottom
 - Initial display: Operations, Applications
 - Selection: Enter selection criteria, Load all applications, Edit application list, Load applications from application list, Load predecessors and successors, Load 'From... To...'
 - Options: All external predecessors, All external successors, Special resources, Operator Instructions, Only active applications
 - TCP/IP: Use communication, OBAD#14
- Communication**: A login dialog with the following fields:
 - User Id: KARL
 - Password: *****
 - TCP/IP Configuration: OPCGCP
 - Buttons: OK, 100% security

A blue callout box in the bottom right corner of the zOS data dialog contains the text: "Online access to IWS via TCP/IP".

Selection Criteria

Search for jobs to be displayed in the netplan using any combination of fields available in your IWS database. For example: all schedules starting with "RVT22" having at least one job containing "PDB*LOAD*" and a resource named "SAP10".

The screenshot displays the TWS/Graph 5.1 interface with three search dialog boxes overlaid on a network plan graph. The graph shows various nodes and connections, with some nodes highlighted in yellow. The search dialog boxes are:

- Schedule Search Dialog:** Titled "Schedule Search for schedules (or applications)...". It contains fields for "Schedule" (with "RVT22*" entered), "Schedule Cpu", "OS", "On", "Except", "Carry Forward", and "Limit". There are also buttons for "Abbrechen", "Jobs", and "Color".
- Job Search Dialog:** Titled "Job Search for jobs...". It contains fields for "Job" (with "^PDB*LOAD*" entered), "Logon", "Description", "Command Type" (with "S=Script, C=Command" selected), "Command", "Confirm", "Recovery option", "Recovery cpu", "Recovery job", "Every", "At time", "At days", "Until time", and "Until days". There are buttons for "OK", "Abbrechen", and "Resources, Files, Prompts".
- Prompt, File, Resource Search Dialog:** Titled "Prompt, File, Resource Search for resources, files or prompts". It contains fields for "OS", "Job Cpu", "Units", "Name" (with "SAP10" entered), and "Text". There is a "Type" dropdown menu set to "RESOURCE". There are buttons for "OK" and "Abbrechen".

Information Available at Your Fingertips

Click on a job to get all the information behind it. Use the arrow button to navigate between predecessors and successors, (impossible to find using only IWS itself), or click on the pop-up lists to get more information, such as general job data, resource information, etc.

The screenshot shows the TWS/Graph 5.1 interface. The main window displays a project network diagram with various jobs represented by yellow bars and connected by lines. Two pop-up windows are visible:

Job information window (WVT344FLZ):

```

Application id      : WVT344FLZ
Op.no.             : 010
Auth.group         :
Desc.text          : V44701(DB2IEFG0)
Jobname            : WV61726
WS Id.             : CPUR
Form number        :
Planned start day  : 20.10.1998
Planned start time : 21:19
Planned end day    : 20.10.1998
Planned end time   : 21:48
Input arr. day     :
Input arr. time    :
Deadl. day         : 21.10.1998
Deadl. time        : 05:59
Latest out day     : 21.10.1998
Latest out time    : 05:16
Actual start day   : 20.10.1998
Actual start time  : 21:42
Actual arr. date   : 20.10.1998
Actual arr. time   : 21:42
Intermed. start day :
Intermed. start time:
Actual end day     : 20.10.1998
Actual end time    : 21:47
  
```

Resources window (WVT344FLZ):

Name	Typ	Amount	Keep
#KSAVE	S	000000	
@P1DB2.IIEF	S	000000	
@P1DB2.UAGV	S	000000	
@P1DB2.UFLO	S	000000	
@P1DB2.UMBV	S	000000	
@P1DB2.UQSA	S	000000	
\$SYSR.P1DB2	S	000000	
IOK.FLO.SPERRDS	X	000000	

IWS/Graph can be used online or offline. IWS information can be conveniently provided to other departments without the need for them to access "real" data.

Interface between Development and Production

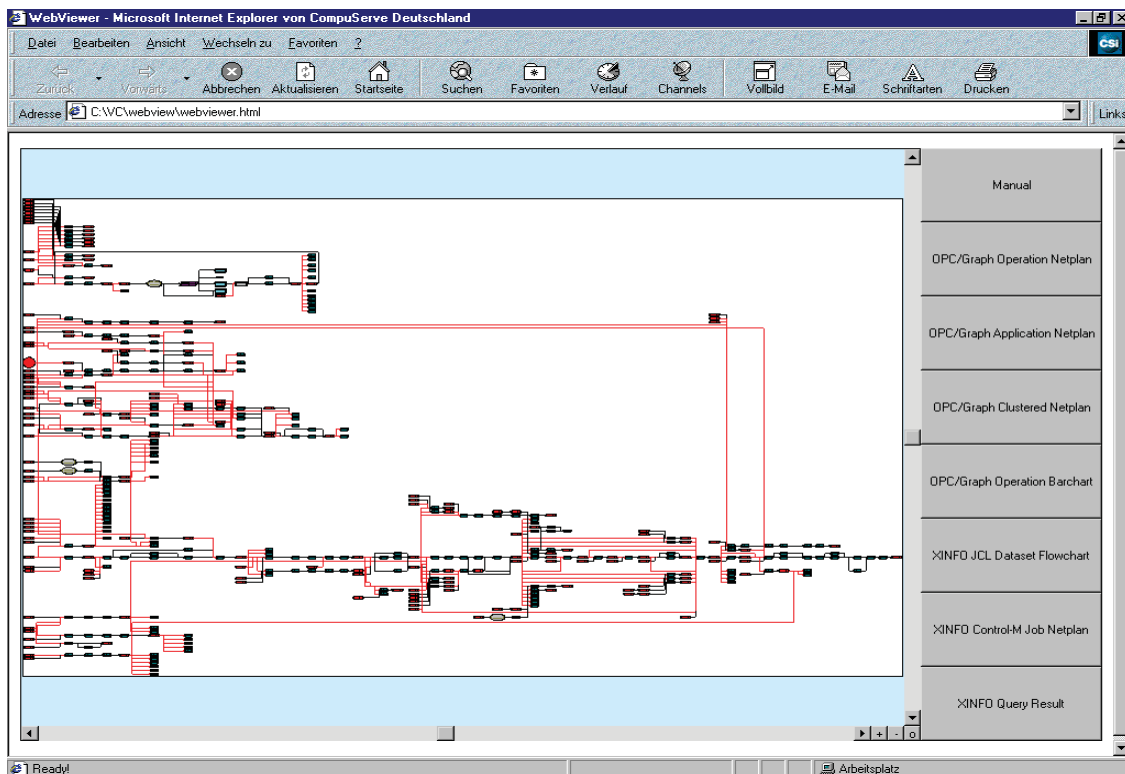
Application programmers can use IWS/Graph to first graphically design the draft of any new applications. Using this method, it is possible to insert jobs and dependencies without having to use additional software. Production personnel can then refine these definitions and insert special resources, runcycles, etc. Finally, when the design has been approved, IWS/Graph can be used to automatically update the original application description.

The screenshot displays the TWS/Graph 5.1 interface. The main window shows a graphical representation of a job flow with yellow rectangular nodes connected by lines. A 'Save' dialog box is open, showing the filename 'AD.BL' and options for 'File type' (Batchloader selected) and 'Options' (Subsys: OPCE, Action: SCAN, Save all applications checked). A blue callout box points to the 'Batchloader' option with the text 'update directly via TCP/IP'. Another blue callout box points to the 'AD.BL - Editor' window with the text '...or generate Batchloader statements'. The editor window shows the following job definition code:

```
OPTIONS
ACTION (SCAN)
SUBSYS (OPCE)
ADSTART
CALENDAR (DEFAULT)
DESCR ('TAPROD to 1s via FTP')
ADVALFROM (960405)
GROUP (OOSPBSP)
ADID (PBSS770E00R)
ODESCR ('1s process')
OWNER ('MVS SUPPORT')
PRIORITY (5)
ADTYPE (A)
ADOP
AEC (Y)
AJR (Y)
CLATE (N)
ADOPCATM (N)
DURATION (0001)
JOBN (DUMMY)
OPNO (001)
STARTDAY (00)
STARTTIME (2330)
AJSUB (Y)
TIME (N)
ADOPFWTO (N)
PSNUM (01)
R1NUM (00)
R2NUM (00)
WSID (NONE)
ADDEP
PREADID (PBSS754A20M)
PREWSID (NONE)
PREOPNO (99)
ADOP
```

Java, HTML, Intranet and Internet

Use IWS/Graph to distribute your netplans via the internet or your intranet. Use a web browser to access netplans from anywhere, at any time.



IWS/Graph supports the generation of HTML documents for distribution via the internet. Companies can distribute netplans, barcharts and Application Documentation all in HTML format to a variety of personnel.

Monitoring Production

In most companies, production is divided into organizational units. These may include critical applications, backup jobs, jobs for different departments, and so on. In larger organizations, different people, or groups, will be responsible for the various units. Most users therefore don't usually want to monitor the whole batch production, only the sections they are responsible for.

Organizational units

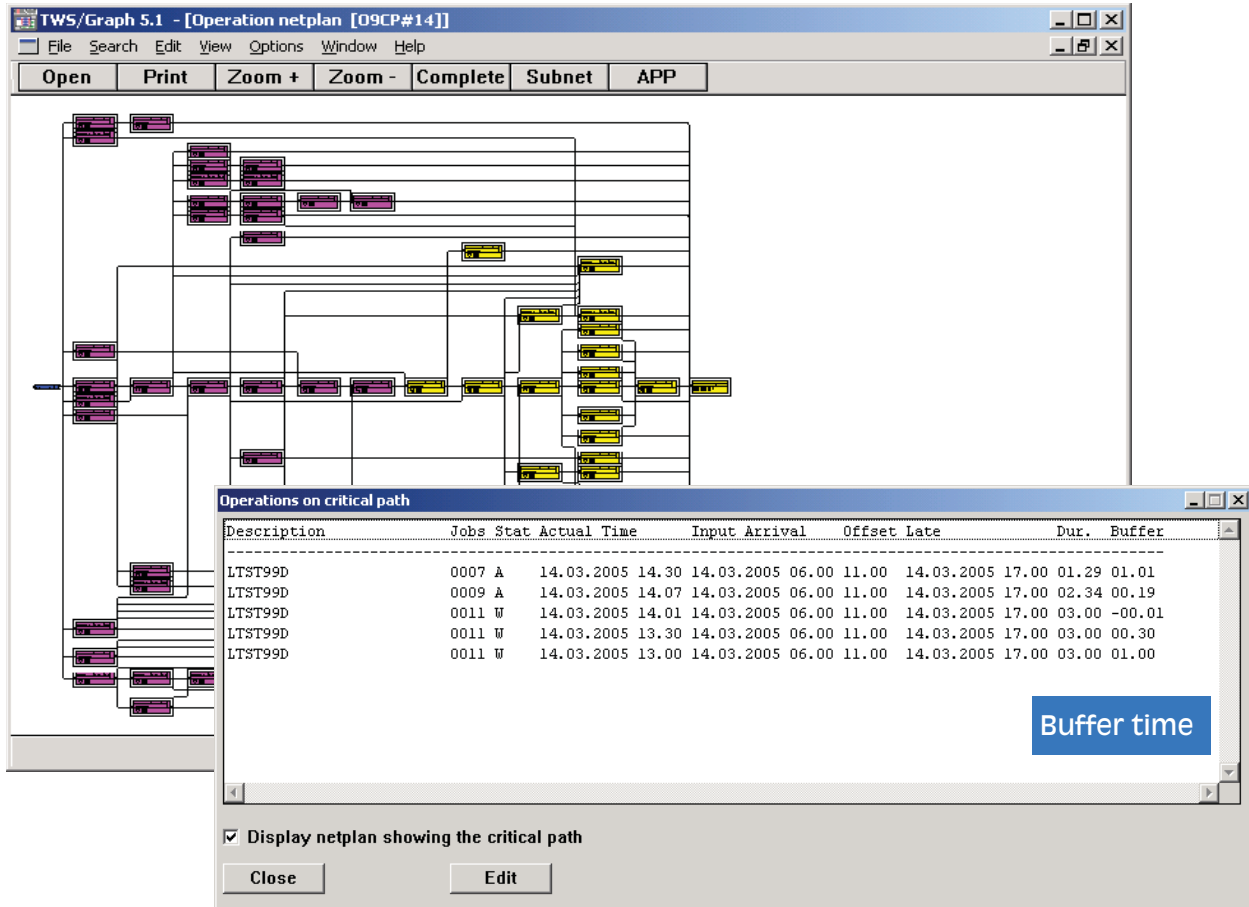
Description	Application id	Owner Id	Jobname	Op.no.	WS Id.	Status	Absolute late time
LPG-MF	-	-	-	-	-	W	-
DGF-RGB-MF	-	-	-	-	-	a	-
DGF-RGB-FP	-	-	-	-	-	s	-
DGF-RGB-MP-TUK	-	-	-	-	-	W	-
DGF-LPG-MP	-	-	-	-	-	W	-
DGF-LPG-FP	-	-	-	-	-	W	-
Logistik kritischer Pfad	-	-	-	-	-	a	-
DGF-RGB-MP	-	-	-	-	-	a	-
DGF-RGB-MF-TUK	-	-	-	-	-	s	-

Status	Description
a	Active
s	Started
c	Complete
e	Error

Using the status monitor, a structure that mirrors those responsibilities can be defined. Within this structure, operations and applications are assigned to certain groups and subgroups.

Critical Path Monitoring

IWS/Graph provides for monitoring of the critical path. The critical jobs are specified, and IWS/Graph automatically calculates whether SLA's will be met.



IWS/Graph continuously calculates the remaining time left to meet the SLA. This allows for timely intervention - *before* it's too late.

Automatic Documentation

The IWS/Graph Docu function lists all information defined in the AD database. It can be generated in HTML format. The file includes information on the application, run cycles, a calendar with all days on which the run of an application is scheduled, operation information, predecessor and successor tables, special resources, operator instructions, and even the JCL of all operations, including the JCL procedures.

The screenshot shows two windows. The left window is 'TWS/Graph 5.1 - [Application netplan c:\projects\build\TWSGRAPH.cp]'. It displays a network plan with nodes like 'ZVORREP#', 'CPC', 'BMP', 'S004100', 'HOR50DAY', and 'TIMPOB1'. A context menu is open over the 'HOR50DAY' node, with 'Docu...' selected. The right window is 'TWS/Graph HOR50DAY_A_711231 - Microsoft Internet Explorer'. It shows the application details for 'HOR50DAY' as of '15.06.02'. Below the details is a diagram showing the application's structure with nodes like 'HOR10DAY', 'HOR30DAY', and 'HOR50DAY' connected to various CPU resources.

APPLICATION: HOR50DAY A 15.06.02

Status	: A
Description	: HORIZONT Prod-Part 5
Type	: A
Calendar	: DEFAULT
Valid	: 15.06.02 - 31.12.71
Priority	: 5
Owner	: HORIZONT
Ownertext	:
Auth. Group	:
Group Definition	:
Last update user	: P390K
Last update date	: 16.06.02
Last update time	: 13:01

The resulting documentation, displayed using a standard browser

Load the Application Description Report

The documentation can be automatically created for thousands of applications. IWS information can thus be easily distributed via the internet.



Summary

IWS/Graph is a valuable *enhancement* to IWS to:

- Create netplans to graphically display and print applications, jobs and dependencies.
- Modify application definitions graphically.
- Graphically see, on a time axis, when a job will run.
- Automatically create comprehensive documentation.
- Search and cross-reference on all data fields in the Application Description.
- Create customized reports directly from the IWS data...

...and so much more besides.

Installation

IWS/Graph is extremely easy to install. The whole procedure can take as little as 30 minutes.

30 day Trial

We offer a free 30-day trial, with no obligations. Ask us for the trial agreement, or refer to our web site: www.segus.com


Training

IWS/Graph is easy to learn and use. However, we do offer on-site training, which is tailored to your requirements, if requested.

References

References can be supplied on request.





For more information, or to request a trial:

1-800-327-9650

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