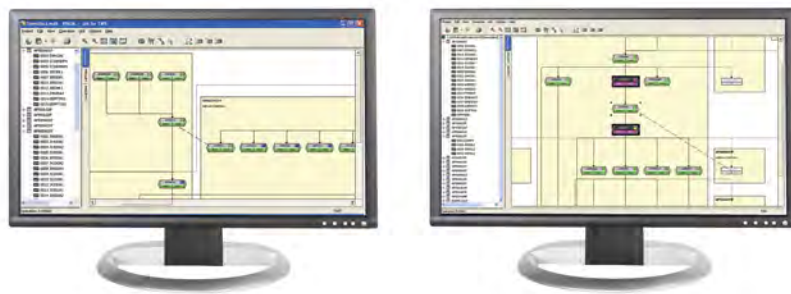


VISUAL | job for TWS



APS | ENTERprise

Get the Most Out of IT.

TWS for z/OS, along with TWS End-to-End, from IBM/Tivoli is one of the leading scheduling solutions available on the market. Companies rely on TWS to proficiently and accurately automate mission-critical business processes within an ever tightening batch window. As business demands increase, so do the requirements on batch production, continually expanding the TWS scheduling net and making it more complex to understand, maintain and ultimately manage.

It is no longer sufficient to just “maintain the schedule”. Managers and production control staff must be service oriented in an effort to meet SLAs, communicate effectively with the business and technical departments, document the schedule and optimize the scheduling resources.

VISUALjob for TWS was designed specifically to address these challenges. VISUALjob is the latest generation solution for TWS for z/OS and TWS End-to-End, providing unique insight. You can now bring your entire production environment into one multi-level, intuitive, graphical view to gain instant control of your business-critical applications:

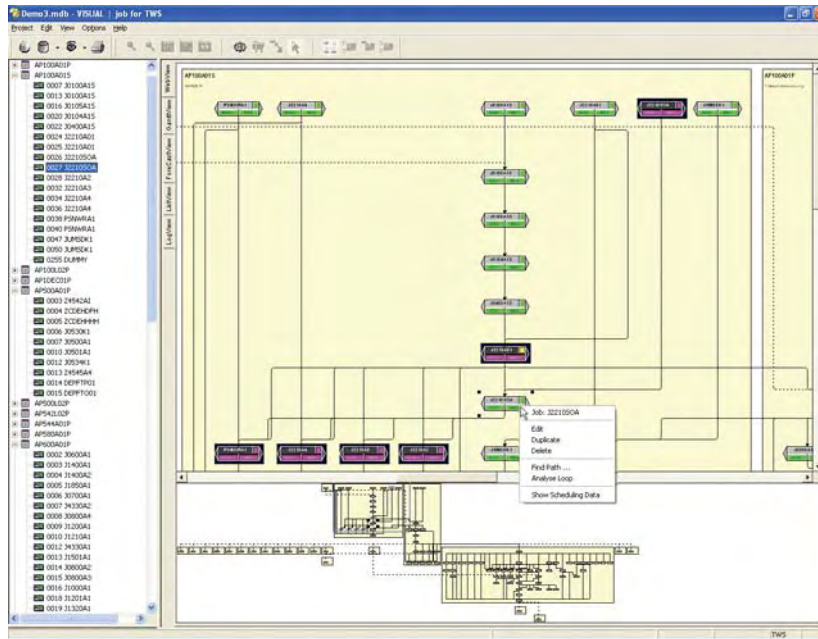
Through one common graphical interface you can achieve:

- Visualization and Documentation
- Cross Reference Reporting
- Forecasting
- Design and Maintenance of Job Nets
- Quality Assurance and Loop Analysis
- Workload Analysis
- Workload Simulation
- Understanding and Simulating the Critical Path

Optimization of the schedule flow and resources is a constant objective and the architecture of VISUALjob allows all of the above to be accomplished without an impact on mainframe and production resources.

The integrated functionality provided by VISUALjob is unmatched, resulting in productivity increases combined with a quality improvement and effective usage of resources. The benefits acquired with VISUALjob are immediate and a quick return on investment will prove VISUALjob to be a strong IT asset.

BE PROACTIVE, NOT REACTIVE!



VISUALjob for TWS Graphical Interface

Intuitive Graphical Interface

VISUALjob for TWS provides managers, production staff, applications personnel and end-users with an interactive visualization of the TWS job network with the click of a mouse. Complex relationships between processes are presented in an interactive flowchart, not only reducing the time it takes to understand the existing environment but also pinpointing potential problems and avoiding schedule interruptions.

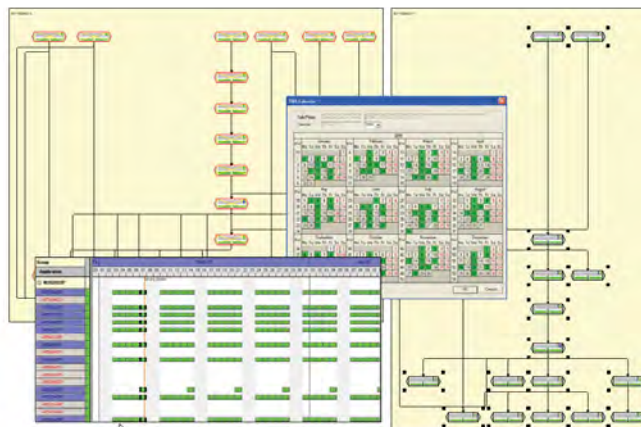
Creation of graphics, prints and/or PDFs of the jobs flows facilitate accurate communications between interrelated departments and better documents the business processes that TWS supports.

Web Reporting

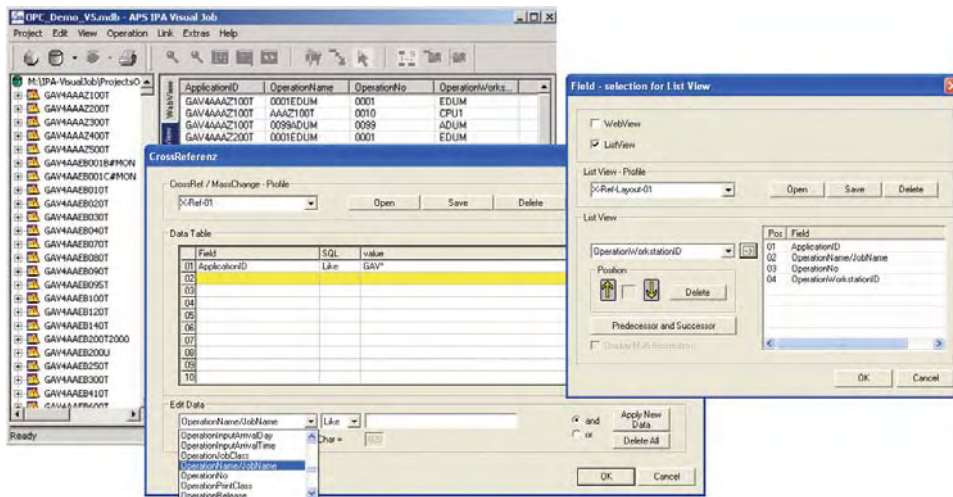
Users can create web based reports complete with flowcharts, textual information and hyperlinks with a few mouse clicks. These web reports can be browsed with any standard web browser, even by users who are not familiar with VISUALjob.

Forecast

The flexibility to accurately forecast when one application, multiple applications or even entire batch flows will be scheduled within TWS for execution identifies potential conflicts so they can be resolved before they negatively affect the production environment. ALL scheduling related definitions (i.e. calendars, periods, run cycles and rules) are utilized to calculate the forecast, providing a complete and accurate representation of when your jobs will/will not run. Generating a forecast within VISUALjob does not require mainframe access or running a trial plan within TWS.



VISUALjob for TWS Forecast



VISUALjob for TWS Cross Reference Reporting

Cross Reference Reporting

Information that previously took hours to produce, or was simply unattainable because of complex relationships, can be generated in seconds without requiring individual coding or proprietary skills. Users now focus on the reporting objective, as opposed to the process of achieving that objective. Virtually any combination of fields within TWS can be used as search and reporting criteria

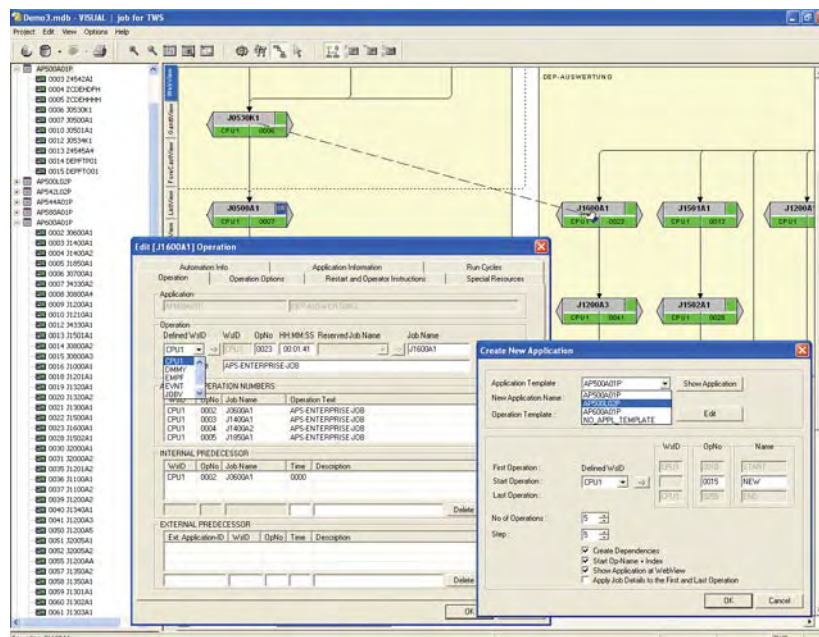
The output of VISUALjob reports can be in a user designed spreadsheet and/or in a graphical flowchart. Textual output can be exported to MS Excel and the graphical output can be exported to several image formats for delivery to the requestor.

Templates for the search criteria and report layouts can be created and shared, facilitating the quick re-generation of reports referencing the then current data.

Designing and Maintaining Scheduling Definitions

Scheduling design and modifications can now be performed through an interactive GUI using simple Windows controls (drag, drop, click, etc.), as opposed to several text based panels. All TWS for z/OS parameters are supported and all field names used in the GUI are the same as in the TWS for z/OS ISPF interface, so users will be inherently familiar with the process.

Applications and operations are created based on user-defined templates for speed, standardization and reduction of scheduling errors. Validation is performed at the time of creation/modification and loop analysis can be immediately performed. An historical audit trail is created for all modifications documenting all changes.



Mass Change

Performing mass changes within TWS can be a daunting task involving extensive manual cross referencing. The VISUALjob mass change facility allows one or many mass changes to multiple scheduling parameters based on selected criteria in a single step, resulting in huge time savings while ensuring accurate, validated results.

Backup, Versioning and Change Management

Current backup procedures do not address TWS for z/OS and End-To-End schedules specifically. Backups that are usually disk relative do not allow for TWS definition specific restores when necessary.

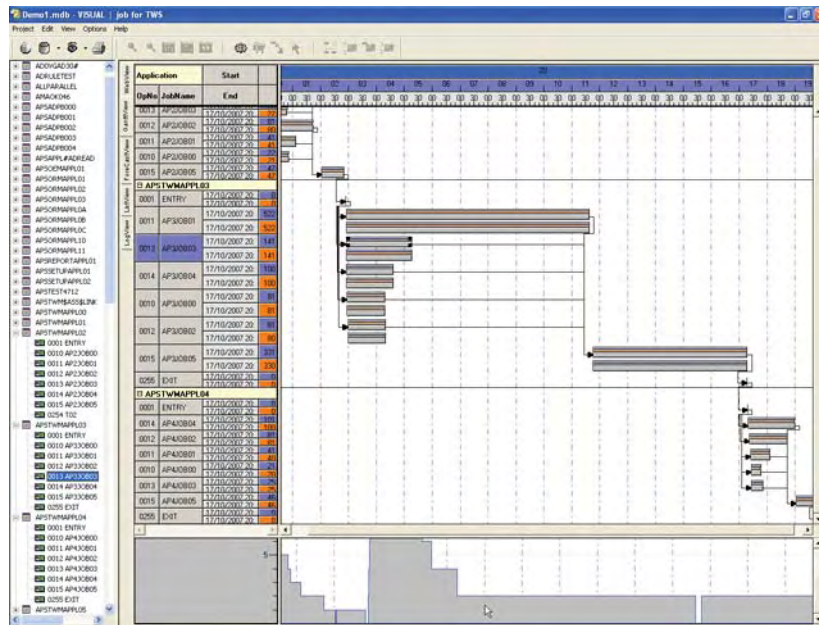
The VISUALjob unload/load component, included with the base license, supports the unloading and loading of ALL TWS for z/OS base definitions in batchloader format or to a flat file. In this way, backup/restore procedures, version controls and change management standards that are TWS specific can be implemented.

Loop Detection

Creating a loop in a job net causes major issues for the production environment. The VISUALjob for TWS loop detection facility identifies potential loops before they negatively impact batch production. In doing so, no TWS for z/OS trial plan needs to be created, saving time and resources. Loop detection is available for a single operation or for analyzing an entire job net.

Workload Analysis

VISUALjob for TWS enables the user to visualize past executions in a Gantt chart, based on the actual runtime information collected in the statistical database. This provides an excellent graphical overview about how processes have performed in the past and as compared to their average performances. Histograms showing the number of jobs running in parallel complete the production picture, which is otherwise difficult, if not impossible, to gain. Bottle-necks and other potential problem areas can be identified and corrective actions can be made in a productive way.



VISUALjob for TWS Workload Analysis

Workload Simulation and Critical Path Simulation

When there is no way to accurately simulate the effect of an added load to a job flow or the longer/shorter running of jobs within a flow, service levels are hard to define. As a result service levels are defined by business partners requesting the work and/or best estimates by production support.

The VISUALjob GanttView utilizes TWS historical statistics to graphically simulate the effect of changes in the job/dependency structure of a job flow and identify the critical path of jobs as it relates to time. Fluctuations in run times can be manipulated to identify how the critical path changes under certain conditions. Different production cycles can be emulated when simulating (e.g. daily cycle, monthly cycle, etc.).

The result is accurate definition of SLAs and cost savings in higher percentages of meeting and exceeding SLAs.

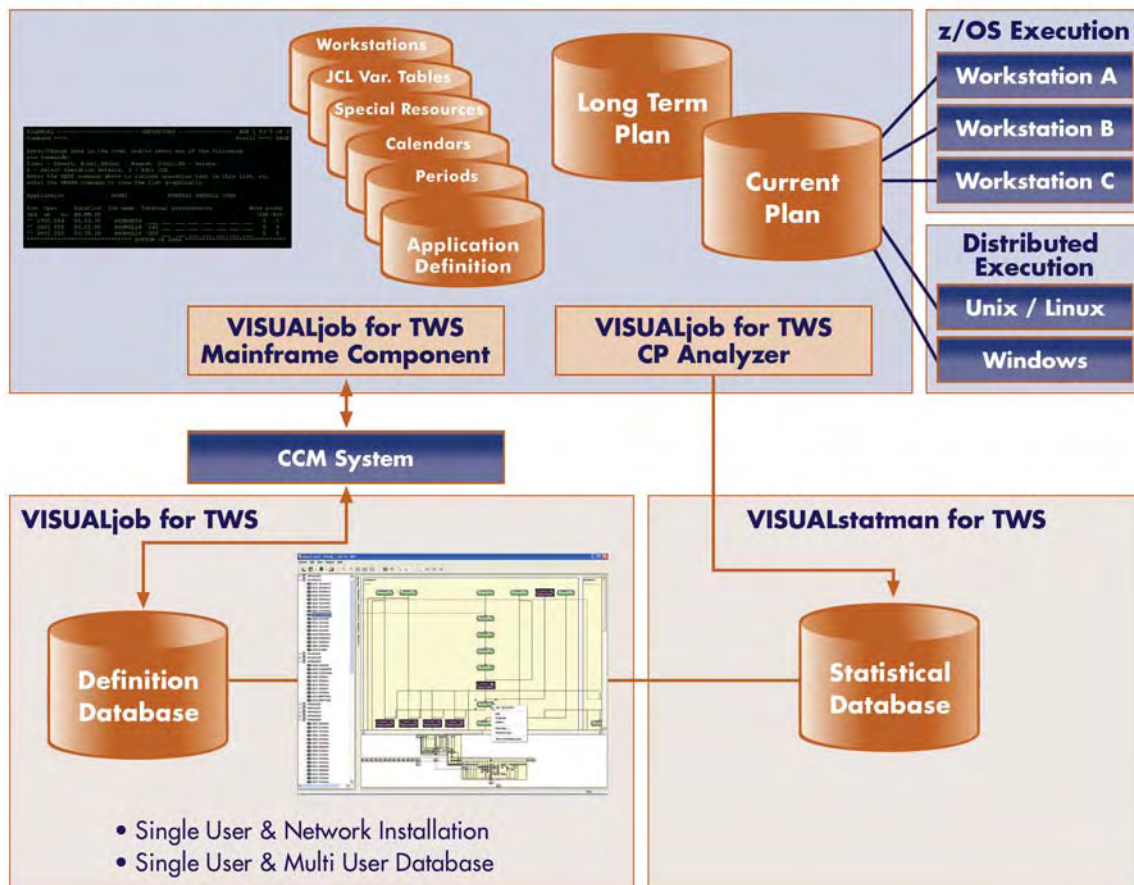
Architecture

VISUALjob for TWS can be installed in a single-user architecture, or a multi-user architecture for a more collaborative environment. The base product includes intelligent and user friendly unload/load facilities for all required scheduling information within TWS for z/OS.

As part of the VISUALjob for TWS server in a multi-user environment, user rights can be assigned. With this facility, users may or may not be given access to certain key function areas of the product. This allows VISUALjob for TWS to be available for different users, with different areas of focus. Possible user profiles are, for example: information gathering, job design, workload planning and proactive job management.

Because VISUALjob works from its own database mainframe resources are not impacted.

TWS for z/OS



VISUALjob for TWS Architecture

Benefits:

- ☑ Better understanding of the entire job net
- ☑ Increased documentation capabilities
- ☑ Gain a solid understanding about past job executions through graphics
- ☑ Better communication between people and departments
- ☑ Proactive business approach to managing the schedule
- ☑ Fast and secure change and mass change capabilities
- ☑ Critical errors are easily identified and avoided
- ☑ Enhanced quality assurance
- ☑ Modern development principles applied to the scheduling environment
- ☑ Sarbanes-Oxley / ITIL / ISO regulatory compliance
- ☑ Integration with change and configuration-management strategies
- ☑ Minimal mainframe skills required
- ☑ Common information system for production and non-production specialists
- ☑ Accurate management of future job runs through workload simulation and critical path simulation, replacing professional "guesstimates"
- ☑ Increased productivity in managing batch services

Return on Investment:

- ☑ Minimized time to create and update scheduling documentation
- ☑ Cost savings through better understanding of the existing job nets
- ☑ Productivity and quality gains during development and maintenance of job scheduling definitions
- ☑ Avoiding costs (staff and CPU) through early detection and resolution of problem areas
- ☑ Documentation, development, maintenance and quality assurance tasks require NO mainframe resources
- ☑ Reduced CPU costs with a batch schedule running at optimal performance
- ☑ Costs associated with training are reduced by lowering the learning curve
- ☑ Higher percentage of meeting SLAs
- ☑ Lower total scheduling costs

APS|ENTERprise offers a free 30 day evaluation of VISUALjob for TWS. During your evaluation period you will receive full support for the implementation and operation of VISUALjob for TWS.

Please contact us for further information or to schedule an on or off site demonstration.

For your local APS|ENTERprise partner please visit: www.aps-enterprise.com.



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