Entire Operations

KEEPING A TIGHT REIN ON PROCESS CONTROL

Entire Operations constitutes the operational core of production planning and control in a heterogeneous IT landscape. As a single point of control, the job scheduler controls and oversees all batch, online and server applications in a network. All popular operating systems and TP/DC systems for mainframes and server systems are supported: z/OS, z/OS.e, VSE/ESA, BS2000/ OSD, UNIX variants, z/Linux and Windows.

The core concept of Entire Operations is the job network, a logically related unit of processing steps in the production process. It includes jobs, tasks, scripts, programs, SAP/R3 processes, events, manual intervention and reusable job networks. Job networks are executed according to a predetermined schedule or based on events or a chain of events in a predefined order. At execution time, the job scheduler checks, on the basis of stored rules, whether all prerequisites for the execution have been met and then assigns the jobs to the target computer. During production it monitors the execution of the jobs, registers the occurrence of certain events, analyzes each end-of-job status and initiates necessary recovery/restart measures as needed.

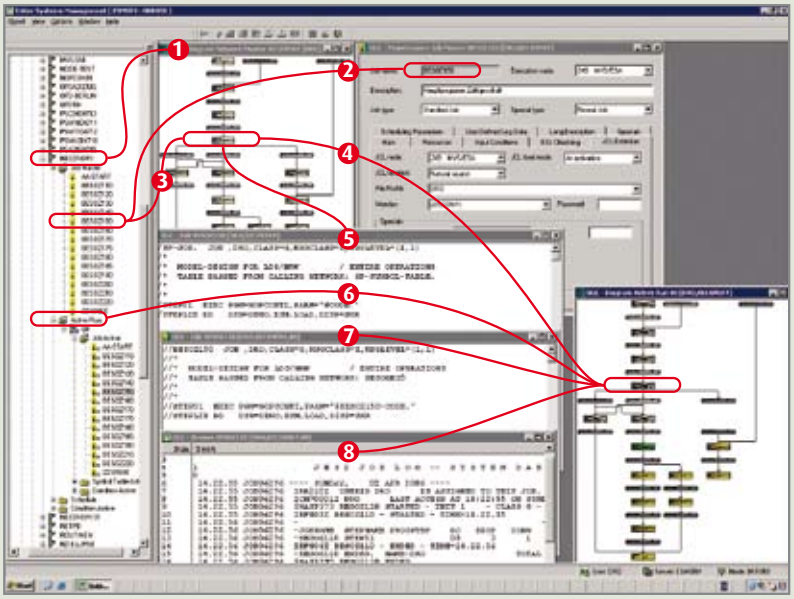
A particular strength of Entire Operations is that job networks and generated JCL scripts can be parameterized. This is achieved through calendars that differentiate working days from non-working days and through schedules, based on those calendars, that contain the planned execution times as well as symbol tables. These mechanisms allow jobs to be customized automatically and dynamically to fit the current execution requirements, which leads to a high degree of flexibility and reusability.

Moreover, Entire Operations can be closely linked with other Entire Systems Management components such as Entire Output Management or Entire Event Management, as necessary.

KEY BENEFITS

- Control of any type of process across all operating systems without changing the JCL/scripts, such as batch jobs, started tasks and Windows services
- Support for operating system functions such as condition codes, steps, procedures, exit codes, file catalogues and spooling systems such as JES
- Support for Service-Oriented Architectures (SOA)
- Automation of routine job scheduling tasks
- Early detection of job terminations and automated recovery with restart functions
- Easy-to-use date arithmetic for job scheduling, controlling and parameterization
- Open interfaces to user applications
- Strict separation of definitions and active production allowing users to intervene in production securely and manually
- Easy-to-use interactive netplan graphic user interface for design, navigation and control

Fact Sheet



(1) Display the diagram of a job network
(2) Defining the attributes of the job, navigating from tree-view or
(3) from the diagram with right mouse click
(4) Display the diagram of the active job network with finished, executing and waiting jobs
(5) Editing the defined script of the job from treeview or diagram
(6) Display the active job network in a diagram
(7) Editing the script of an active job
(8) Display the job log of an executed job from the diagram

KEY FEATURES

Integrated automation of IT production and optimization of IT processes

Entire Operations is part of the Entire Systems Management product family. These systems have a graphical user interface that combines the ergonomics of ISPF with the convenience of a PC. All functions and objects can be accessed from applications via application programming interfaces. Access to operating system data and services is enabled through Entire System Server as a general interface.

Integration with system management

Entire Systems Management components access information from systems such as Tivoli, Unicenter and Patrol and reports production status to these platforms.

Integration with application platforms

Internal data and states from systems such as SAP or customized solutions (e. g., Cobol/DB2) are used to automate and optimize the processes of the data center operations. On the other hand, internal conditions of Entire Systems Management can be used to trigger the applications.

CUSTOMER SUCCESS

How the Financial Management Data Center for the State of North Rhine-Westphalia in Germany automated tax assessment and collection on a state and national level

The financial management data center (RZF) in Dusseldorf handles all processes relating to personal and business taxes, planning of the state budget and management of budgetary funds for the state of North Rhine-Westphalia. The RZF provides the IT infrastructure for 34,000 tax collectors and 150 tax offices. In addition, as one of two "clearinghouses" for ELSTER (electronic tax returns) in Germany, the RZF supports the federal as well as the state ministries of finance.

Entire Operations is also used for the ELFE (electronic income determination) application, which is implemented on Linux. With Entire Operations, this process has been completely automated at some tax office data centers. Furthermore, the RZF provides an Entire Operations based solution for automated installation, backup, operation and recovery/restart for ELFE which is available to other state data centers.

Like no other job scheduling system, Entire Operations allows the RZF to manage its data center operations efficiently. Thus all process regulations for automatic, uninterrupted operational management are also provided to the other states and can be started at the touch of a button.

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