Tivoli Operations Planning and Control V2R3 Automates Production Control Across the Enterprise

Overview
To help your enterprise streamline data processing operations, IBM announces Tivoli® Operations Planning and Control (OPC) V2R3. This upgrade automates, monitors, and controls the flow of work through your enterprise’s entire operation, on both local and remote systems.

With this high degree of automation, Tivoli OPC reduces your need for workload management resources at remote locations and increases your administrators’ system control, ease of use, and productivity.

Open Workload Management from a Central Control Point
With Tivoli OPC, you gain the advantage of centralized workload management, which helps manage your distributed systems in the most efficient and cost-effective manner. From a single point of control, Tivoli OPC monitors the flow of work and directs workload processing according to your specific business policies. Tivoli OPC supports a multiple end-user environment, which enables distributed processing and control across multiple sites within your enterprise.

New Features in Release 3
This release of Tivoli OPC offers your enterprise a number of improvements for better performance, availability, job control, and usability:

- The new graphical Job Scheduling Console
- New data availability functions
- Automatic restart in cases of program failure
- System-specific policy-based management capabilities
- An enhanced program interface

Key Prerequisites
- Tivoli Operations and Control V2R3 runs on MVS/ESA™ and OS/390®
- Additional software, required for specific functions, is specified under the Technical Information section.

At a Glance
Tivoli Operations Planning and Control (OPC) V2R3 provides your enterprise with a production management system with the ability to manage all work running on any system and in virtually any operating environment. New features in this release help you plan, manage, and automate the production workload, including:

- Enhanced user productivity with the new graphical Job Scheduling Console
- Improved job restart and job log retrieval performance through new program functions
- Improved control availability with automatic restart in cases of program failure
- Better control of critical jobs with system-specific policy-based management
- Increased flexibility and control over scheduling with an enhanced program interface

Planned Availability Date
December 10, 1999

For ordering, contact:
Your IBM representative, an IBM Business Partner, or IBM Americas Call Centers at 800-IBM-CALL
Reference: LE001

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New in Release 3

New Job Scheduling Console

This new release of OPC delivers the Job Scheduling Console (JSC), a graphical console based on the latest technology and user interface standards. The JSC is a Java<sup>™</sup>-based, client/server application, which allows users to access multiple “scheduling engines” from a single console; the OPC Controller is the first scheduling engine supported by the JSC, and others may be added in the future. The JSC delivers the following advantages to OPC users:

- Enables users to perform administration and operation tasks in a graphical manner
- Provides access to multiple OPC controllers from a single console

These advantages greatly enhance user productivity. A quick summary of what users can do with the JSC includes:

- Display lists of objects already defined to OPC, both from the database and the current plan, by using flexible filtering criteria
- Work with application descriptions graphically; this includes the jobs and their dependencies, the time restrictions (input arrival time, deadline, duration), and the run cycles
- Work with special resource and workstation definitions
- Modify occurrences, workstation status and special resource information from the current plan

The OPC security model is preserved by the JSC; each data access request is validated by the Controller, in the same fashion as it is done today for ISPF users. The JSC is fully interactive: it works with live OPC data, and can be used concurrently with the ISPF interface. The JSC graphical client is available for various UNIX<sup>®</sup> platforms, Windows<sup>™</sup> NT, and Windows 98. The OPC Connector, which is the backend component, is available for various UNIX platforms and Windows NT.

Improved Performance

The new “Catalog Management — Data Availability” function greatly improves performance for job re-start and joblog retrieval functions. A new infrastructure has been built to maintain job runtime information, like the sysout dataset, locally on the tracked system. The controller retrieves the information only when needed for Catalog Management actions, eliminating the network and processing overhead associated with the transmission of superfluous data.
The management of the runtime information at the tracked system is managed by a new component, the OPC Data Store. By using this new component, OPC Tracker processes are bypassed, and are dedicated to the time-critical job submission and tracking tasks. A flexible means is provided to selectively determine how long job runtime information is kept in the Data Store. This new feature is especially useful when a joblog archiving product is used concurrently with OPC.

Improved Management of Critical Jobs

Tivoli OPC 2.3 offers a new, policy-based management of deadlines for critical jobs by exploiting the features of OS/390 Workload Manager when used in goal mode. It is now possible to mark some CPU-type operations as critical in OPC. When such a critical operation is late according to the specified policy, OPC will interface to Workload Manager to move the associated job to a higher performance service class. In this way, the job receives appropriate additional system resource to reduce or eliminate the delay. Several policies are available to decide when a job is late, considering characteristics like duration, deadline time, and latest start time.

Improved Availability with Automatic Restart

The availability of OPC components has been increased by exploiting the OS/390 Automatic Restart Manager. OPC components such as Controller, OS/390 Tracker and Server can now be re-started automatically by the Automatic Restart Manager in the event of program failure.

Enhanced Program Interface

The Programming Interface (PIF) has been further extended to increase the flexibility of OPC, allowing users more control over their scheduling environment. More specifically OPC 2.3 significantly enhances the ability to access current plan data from PIF by providing:

- Full support for special resources data
- Read access to special resource usage information for operations
- The ability to modify the workstation open intervals
- The ability to modify the successor information for an operation

Non-OS/390 Tracker Agent Enhancements

- A new version of the OPC Tracker Agent for OpenVMS is now available. This new version runs in the native OpenVMS environment, thus removing the requirement to install the POSIX shell.
- The security features for the UNIX OPC Tracker Agents have been enhanced. Stricter file permissions are now used for temporary work files.
- The installation process of the OPC Tracker Agent for OS/390 USS Tracker Agent has been made easier.

Usability Enhancements

- OPC 2.3 is now able to perform variable substitution within inline procedures, increasing the flexibility of the job setup feature.
- It is now possible to customize OPC so that jobs are also submitted when variables are not defined in the OPC variable tables. This makes it possible to avoid duplicate variable definitions when variables are substituted outside OPC.
- Datasets with expiration date can now be deleted by OPC during Catalog Management actions.
- The Job Submission Exit (User exit 1) now allows changes to the size of JCL being processed. This enhancement gives the users more flexibility to customize their operating environment.
- The Operation Status Change Exit (User exit 7) has been enhanced to receive extended status information. This now provides all available status information within this user exit, allowing for more detailed processing by the user.
- A new Modify command has been provided to start and stop the job submission in OPC. This feature enables automatic control over the OPC job submission activity.
- The Mass Update utility has been enhanced with a new sample job to download all the applications belonging to a group in a sequential file that can be used as input to the BatchLoader utility. This will ease the managing of Group applications from the batch administration.
- OPC 2.3 sample library now contains the DSECT sections for the Program Interface (PIF) data areas. This will ease the process of writing PIF applications, as well as the migration of existing PIF applications to new OPC releases.

Management Service

<table>
<thead>
<tr>
<th>Management Service</th>
<th>What It Does</th>
<th>What It Means For You</th>
</tr>
</thead>
<tbody>
<tr>
<td>Workload reroute, hot stand-by, dual logging, disaster recover.</td>
<td>Provides 24x7 production environment; enabled for disaster recovery procedures.</td>
<td>Ensures availability/reliability; always completes the workload.</td>
</tr>
<tr>
<td>Event-triggered tracking, data set trigerring, data set deletion, automatic job recovery.</td>
<td>Manages the unplanned, such as: job failures, jobs submitted outside Tivoli OPC, and dataset activity.</td>
<td>Enables full automation of workload management for increased productivity.</td>
</tr>
<tr>
<td>Growth enablement</td>
<td>Manages greater production workload.</td>
<td>Enables progressive, scalable workload management.</td>
</tr>
</tbody>
</table>
Management Service | What It Does | What It Means For You
--- | --- | ---
Reporting and trial planning | Produces reports that help document service level agreements and forecast effects of changes in workload. | Gives you full control of the production workload environment.
Sysplex enablement | Enables you to manage Sysplex environments the same as a single OS/390 image. | Allows you to take advantage of the OS/390 Parallel Sysplex® environment.
Security | Provides OS/390 security services built into Tivoli OPC. | Allows you to control the level of security, down to the individual records or services.

**Year 2000**

This product is Year 2000 ready. When used in accordance with its associated documentation, it is capable of correctly processing, providing, and/or receiving date data within and between the twentieth and twenty-first centuries, provided that all products (for example, hardware, software, and firmware) used with the product properly exchange accurate date data with it.

**Euro Currency**

This program is not impacted by euro currency.

**Hardware and Software Support Services**

*SmoothStart™ /Installation Services*

Tivoli Services plans to provide fee-based services for Tivoli Operations and Control Version 2 Release 3. These services focus on a rapid installation and introduction of Tivoli Operations and Control in a customer’s information technology environment. Services are also planned to be available to help existing Information/Management and Tivoli Operations and Control customers migrate to the new release of Tivoli Operations and Control.

**Reference Information**

For information on previously available functions in Tivoli Operations and Control refer to:

- Software Announcement 298-217, dated June 23, 1998
- Software Announcement 297-075, dated March 25, 1997

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Education Support

The appropriate curriculum will be updated, as necessary, to include the enhancements in this announcement.

Training is offered through Tivoli Systems and our authorized training partners.

For current information on Tivoli Systems education, call 800-2Tivoli (284-8654) (512-794-9070 for outside U.S.), send an e-mail to training@tivoli.com, or visit http://www.training.ibm.com on the Internet and “choose a country” and search for “OPC”.

Technical Information

Specified Operating Environment

Hardware Requirements: This product uses only existing attachment interfaces.

Tivoli Operations and Control Version 2 Release 3 operates on any IBM hardware configuration supported by one of the following:

- OS/390® Version 2 (5647-A01)
- OS/390® Version 1 (5645-001)
- MVS/ESA™ SP™ Version 5 (5655-068, 5655-069)

The Job Scheduling Console

The Job Scheduling Console requires, at minimum, one of the following processors:

- Pentium™ 233 computer with 64 MB of RAM and 30 MB of disk space plus 2 MB for each installed language, capable of running one of the following operating systems: Windows™ 95, Windows 98, Windows NT Version 4 Service Pack 4 or 5. 128 MB of RAM is recommended for performance reasons.
- RS/6000® computer with a minimum of 128 MB of RAM, capable of running AIX/6000® Version 4.2.1
- SPARC computer with a minimum of 64 MB of RAM, capable of running Solaris Version 2 Release 6.

The Job Scheduling Console OPC Connector requires, at minimum, one of the following processors:

- Pentium 233 computer capable of running one of the following operating systems: Windows NT Version 4 Service Pack 4 or 5. 128 MB of RAM is recommended for performance reasons.
- RS/6000 computer capable of running AIX/6000 Version 4.2.1
- A 700-series or 800-series computer capable of running HP-UX Version 10, or Version 11.

One Job Scheduling Console OPC Connector can be used to communicate with multiple OPC Controllers, and can serve multiple machines running the Job Scheduling Console. The Job Scheduling Console and the Job Scheduling Console OPC Connector can be installed on the same machine.

Workload Monitor/2 requires a personal computer with a minimum of 8 MB of RAM, and 2 MB of disk space for use by Workload Monitor/2, capable of running OS/2® Warp Version 3 or Version 4, with Communications Manager/2 or Extended Services® for OS/2. 12 MB of RAM is recommended for performance reasons.

The Tracker Agents

The Tracker Agent for OS/2 requires a computer capable of running OS/2 Warp Version 3 or Version 4. The Tracker Agent uses about 1 MB of RAM.

The Tracker Agent for Windows NT™ requires an Intel-based computer (486 or higher) capable of running Windows NT Version 3 Release 5.1, or Version 4. The Tracker Agent uses about 1 MB of RAM.

The Tracker Agent for OS/400® requires an AS/400® computer with a minimum of 3 MB of storage capable of running OS/400 Version 3 Release 2 or later, or an AS/400 RISC computer with a minimum of 6 MB of storage capable of running OS/400 Version 3 Release 7 or later. 8 MB storage is recommended for performance reasons.

The Tracker Agent for AIX/6000 requires an RS/6000 computer with a minimum of 3 MB of RAM, capable of running AIX/6000 Version 3 Release 2 or Version 4. 8 MB of RAM is recommended for performance reasons.

The Tracker Agent for HP-UX requires a 700-series computer capable of running HP-UX Version 10, or Version 11. The Tracker Agent uses between 500 KB and 1 MB of memory.

The Tracker Agent for Sun Solaris requires a SPARC computer capable of running Solaris Version 2 Release 3. The Tracker Agent uses between 500 KB and 1 MB of memory.

The Tracker Agent for SunOS requires a SPARC computer capable of running SunOS 4.1.3_u1 Version B. The Tracker Agent uses between 500 KB and 1 MB of memory.

The Tracker Agent for DEC OpenVMS requires a DEC VAX computer with at least 16 MB of memory or a DEC Alpha computer with at least 32 MB of memory, capable of running OpenVMS Version 7.1. The Tracker Agent uses about 1 MB of memory.

The Tracker Agent for Silicon Graphics IRIX requires a SGC Indigo2 Family computer capable of running Silicon Graphics IRIX Version 5.3. The Tracker Agent uses about 1 MB of memory.

This announcement is provided for your information only. For additional information, contact your IBM representative, call 800-IBM-4YOU, or visit the IBM home page at: http://www.ibm.com.
The Tracker Agent for Digital UNIX® requires a DEC Alpha computer with at least 32 MB of memory, capable of running Digital UNIX 4.0D. The Tracker Agent uses about 1 MB of memory.

The Tracker Agent for OS/390 Open Edition (OS/390 UNIX) operates on any IBM hardware configuration supported by OS/390 Version 1 Release 3.

A display terminal supported by ISPF Version 4.2 or later is required to invoke and run the OPC host dialogs.

The graphic function requires a terminal supporting Graphic Data Display Manager (GDDM/MVS) Version 2 Release 2 or later.

Software Requirements: Tivoli Operations and Control Version 2 Release 3 requires the functions provided by an MVS control program that is run in MVS/ESA mode. The Job Entry Subsystem may be either JES2 or JES3. Tivoli Operations and Control Version 2 Release 3 requires one of the following environments:

- OS/390 Version 2 (5647-A01)
- OS/390 Version 1 (5645-001)
- MVS/ESA SP Version 5 (5655-068, 5655-069)

Installing and maintaining Tivoli Operations and Control Version 2 Release 3 requires:

- System Modification Program Extended (SMP/E) Release 8.1 (5668-949) or later with PTF UR51070
- OS/390 Version 1 Release 1 (5645-001) with PTF UR51070
- OS/390 Version 1 Release 2 (5645-001) with PTF UR51071
- OS/390 Version 1 Release 3 (5645-001) with PTF UR51067
- OS/390 Version 2 Release 4 (5647-A01) with PTF UR51067
- OS/390 Version 2 Release 5 or 6 (5647-A01) with PTF UR51068
- OS/390 Version 2 Release 7 or later

Controlling System

The following IBM Licensed programs are required on the Tivoli Operations and Control Version 2 Release 3 controlling system:

- Tivoli Operations and Control Version 2 Release 3 (5697-OPC). Both the base product (the tracker) and the controller feature are required. The Tracker Agent enabler feature is required if any Tracker Agents are used.
- Time Sharing Options/Extensions (TSO/E) Version 2 Release 5 (5685-025)
  or
- OS/390 Version 1 (5645-001) or OS/390 Version 2 (5647-A01)
- Data Facility Sort (DFSORT™) Release 9 (5740-SM1), or equivalent product.
- Interactive System Productivity Facility (ISPF) for MVS, Version 4.2 (5655-042)
  or
- OS/390 Version 1 (5645-001) or OS/390 Version 2 (5647-A01)
- ACF/VTAM® Version 3 Release 4.2 for MVS/ESA (5685-085) or later, ACF/VTAM® Version 4 Release 3 for MVS/ESA (5695-117) or later, or Communication Server for OS/390 Release 1 (5645-001) or later is required if the Workload Monitor/2, the Tracker Agent for OS/400, remote dialogs, or remote PIF applications are used.
- TCP/IP for MVS Version 3 Release 2 (5655-HAL) with C socket API support, OS/390 Version 1 (5645-001), or OS/390 Version 2 (5647-A01), is required if the Job Scheduling Console or any Tracker Agent for systems other than OS/400 is used.

Job Scheduling Console

The Job Scheduling Console requires the following software:

Job Scheduler Console:

- NT 4.0 (SP 4, 5), or
- Windows 95, or
- Windows 98, or
- Solaris 2.6; 7 or
- AIX® 4.2.1; 4.3.x,
  - Java™ Development Kit (JDK) 1.1.8
  - JDK 1.1.8 is available to Customers from http://www.ibm.com/java/jdk/download/index.html

OPC Connector:

- NT 4.0 (SP 4, 5), or
- AIX 4.2.1; 4.3.x, or
- HP-UX 10.2 or greater, or
- Solaris 2.6; 7
- Tivoli Management Framework 3.6.x (5697-FRA, provided with 5697-OPC)

Workload Monitor/2

The following IBM licensed programs are required by Workload Monitor/2:

- Operating System/2® (OS/2) Warp Version 3 (5622-601), or OS/2 Warp Version 4 (5622-851), with Communications Manager/2 (5622-078) or Communications Server Version 4 (5622-878)

Controlled OS/390 Systems

On each Tivoli Operations and Control Version 2 Release 3-controlled OS/390 system, one of the following IBM licensed programs is required:

- Tivoli OPC Version 2 (5697-OPC). Only the base product (the tracker) is required.
- OPC/ESA Version 1 Release 3 Modification Level 1 (5695-007). Only the base product (the tracker) is required.
**Controlled OS/2 Systems**

To manage workloads from Tivoli OPC on OS/2, the following IBM licensed programs and features are required:

- OPC Tracker Agent for OS/2 in Tivoli OPC Version 2. One Tracker Agent feature is required on each OS/2 machine with workload managed by Tivoli OPC.
- OS/2 Warp 3 (5622-601), or OS/2 Warp 4 (5622-851).
- TCP/IP for OS/2 Version 2 (5622-086) or later.

**Controlled Windows NT Systems**

To manage workloads from Tivoli Operations and Control Version 2 Release 3 on Windows NT, the following programs and features are required:

- OPC Tracker Agent for Windows NT in Tivoli OPC Version 2. One Tracker Agent feature is required on each machine with workload managed by Tivoli Operations and Control Version 2 Release 3.
- Windows NT Version 3 Release 5.1, or Version 4.0.

**Controlled OS/400 Systems**

To manage workloads from Tivoli Operations and Control Version 2 Release 3 on OS/400, the following IBM licensed programs and features are required:

- OPC Tracker Agent for OS/400 in Tivoli OPC Version 2. One Tracker Agent feature is required on each AS/400 machine with workload managed by Tivoli OPC.
- OS/400 Version 3 Release 2 (5763-SS1) or later, or OS/400 Version 3 Release 7 (5716-SS1) or later, or OS/400 Version 4 (5769-SS1) or later.

**Controlled UNIX Systems**

To manage workloads from Tivoli Operations and Control Version 2 Release 3 on UNIX systems, the following programs and features are required on the managed UNIX system:

**AIX/6000**

- Tracker Agent for AIX in Tivoli Operations and Control Version 2. One Tracker Agent feature is required for each RS/6000 machine with workload managed by Tivoli Operations and Control.
- AIX/6000 Version 4 Release 2 or later (5765-655) with the optional TCP/IP feature installed.

**HP-UX**

- Tracker Agent for HP-UX in Tivoli OPC Version 2. One Tracker Agent feature is required on each machine with workload managed by Tivoli Operations and Control
- Version 10, or Version 11.

**Sun Solaris**

- Tracker Agent for Sun Solaris in Tivoli OPC Version 2. One Tracker Agent feature is required on each SPARC workstation with workload managed by Tivoli OPC.
- Sun Solaris Version 2 Release 3 or later.

**Optional Software**

The following Tivoli OPC functions require specific IBM programs:

- The Catalog Management — Data Store function requires OS/390 1.3 or later for both the base product and the controlling system.
- Tracking resource availability requires the Resource Object Data Manager (RODM) in NetView® Version 2

**Controlled DEC OpenVMS Systems**

To manage workloads from Tivoli Operations and Control Version 2 Release 3 on DEC OpenVMS, the following programs and features are required:

- OPC Tracker Agent for DEC OpenVMS in Tivoli OPC Version 2. One Tracker Agent feature is required on each machine with workload managed by Tivoli OPC.
- OpenVMS Version 7.1.

**Controlled Silicon Graphics IRIX Systems**

To manage workloads from Tivoli Operations and Control Version 2 Release 3 Silicon Graphics IRIX the following programs and features are required:

- OPC Tracker Agent for Silicon Graphics IRIX in Tivoli OPC Version 2. One Tracker Agent feature is required on each machine with workload managed by Tivoli Operations and Control.
- SGI IRIX Version 5.3 or later.

**Controlled OS/390 UNIX**

To manage workloads from Tivoli Operations and Control Version 2 Release 3 on OS/390 UNIX System Services, following programs and features are required:

- OPC Tracker Agent for OS/390 Open Edition (OS/390 UNIX System Services) in Tivoli OPC Version 2. One Tracker Agent feature is required on each machine with workload managed by Tivoli OPC.
- OS/390 Version 1 Release 3 (5645-011) or later with UNIX System Services.

**Controlled Digital UNIX Systems**

To manage workloads from Tivoli Operations and Control Version 2 Release 3 on Digital UNIX, the following programs and features are required:

- OPC Tracker Agent for Digital UNIX in Tivoli OPC Version 2. One Tracker Agent feature is required on each machine with workload managed by Tivoli Operations and Control.
- Digital UNIX Version 4.0D or later.
Scheduling SAP R/3 jobs requires:

- LoadLeveler Version 1 Release 2 for Sun
- LoadLeveler Version 1 Release 2 for Hewlett-Packard
- LoadLeveler for RS/6000 Release 2 (5765-145) is required if you want to submit Sun Solaris or SunOS tasks through LoadLeveler.

Graphical functions require GDMD/MVS Version 2 Release 2 (5665-356), or Version 3.1.1 (5695-167)

or

OS/390 Version 1 (5645-001) or OS/390 Version 2 (5647-A01)

Application transaction programs (ATP) that use OPC’s application programming interface (API) require ACF/VTAM Version 3 Release 4.2 for MVS/ESA (5685-085) or later, ACF/VTAM Version 4 Release 3 for MVS/ESA (5695-117) or later, or Communication Server for OS/390 Release 1 (5645-001) or later.

Connecting a controller and a tracker via VTAM requires ACF/VTAM Version 3 Release 4.2 for MVS/ESA (5685-085) or later, ACF/VTAM Version 4 Release 3 for MVS/ESA (5695-117) or later, or Communication Server for OS/390 Release 1 (5645-001) or later.

Remote processing with RJE requires ACF/VTAM Version 3 Release 4.2 for MVS/ESA (5685-085) or later, ACF/VTAM Version 4 Release 3 for MVS/ESA (5695-117) or later, or Communication Server for OS/390 Release 1 (5645-001) or later.

Remote dialogs and remote PIF applications requires ACF/VTAM Version 3 Release 4.2 for MVS/ESA (5685-085) or later, ACF/VTAM Version 4 Release 3 for MVS/ESA (5695-117) or later, or Communication Server for OS/390 Release 1 (5645-001) or later.

NetView Version 2 Release 4 for MVS/ESA (5685-111) or later, or Tivoli NetView for OS/390 (5697-B82) is required to enable Tivoli OPC to schedule generic alerts as defined by that NetView release.

NetView Version 2 Release 4 for MVS/ESA (5685-111) or later, or Tivoli NetView for OS/390 (5697-B82) is required to specify an alert receiver ID other than the default receiver.

User-authority-support functions require Resource Access Control Facility (RACF®) Version 2 (5695-039) or later.

or

OS/390 Release 1 (5645-001) Security Server or later

DFSMS/MVS® (5695-DF1) with Hierarchical Storage Management component is required for the catalog management function to recall migrated datasets.

LoadLeveler for RS/6000 Release 2 (5765-145) is required if you want to submit AIX tasks through LoadLeveler.

LoadLeveler Version 1 Release 2 for Hewlett-Packard systems (5765-287) is required if you want to submit HP-UX tasks through LoadLeveler.

LoadLeveler Version 1 Release 2 for Sun SPARCstation systems (5765-227) is required if you want to submit Sun Solaris or SunOS tasks through LoadLeveler.

DB2® for MVS Version 3 (5685-DB2) or DB2 for MVS Version 4 (5695-DB2) or DB2 for OS/390 Version 5 (5655-DB2) is required to use the History function (restart of old operations).

Scheduling SAP R/3 jobs requires:

- Tivoli Workload Scheduler Extended Agent for SAP R/3 Version 3 (5697-WKB) feature,
- and Tivoli OPC Tracker for one of the following platforms:
  -- AIX
  -- Digital UNIX
  -- Sun Solaris
  -- Windows NT
  -- HP-UX

The OPC Control Language tool requires the IBM Compiler Library for REXX/370 Version 1 Release 3 (5695-014).

Compatibility

- Tivoli OPC Version 2 Release 3 uses only existing attachment interfaces to other IBM products.
- Tivoli OPC Version 2 Release 3 can coexist with Tivoli OPC Version 2 Release 1, Version 2 Release 2, or with OPC/ESA Version 1 Release 3 Modification Level 1, but the products cannot share program libraries, files or datasets.
- Event datasets containing events created by Tivoli OPC Version 2 Release 1, Version 2 Release 2, or by OPC/ESA Version 1 Release 3 Modification Level 1 can be used as input to Tivoli OPC Version 2 Release 3.
- A Tivoli OPC Version 2 Release 3 system can be used to transmit work to an Tivoli OPC Version 2 Release 1, Version 2 Release 2, or to OPC/ESA Version 1 Release 3 Modification Level 1 system using shared submit/release dataset, Network Job Entry (NJE), OPC Network Communications Facility (NCF), cross-system coupling facility (XCF), or by transmitting events on an established session between Tivoli OPC Version 2 Release 3 and Tivoli OPC Version 2 Release 1, Version 2 Release 2, or OPC/ESA Version 1 Release 3 Modification Level 1.
- Previous definitions made in OPC/ESA or Tivoli OPC Version 2 Release 1 or Version 2 Release 2, behave as before after upgrading to Tivoli OPC Version 2 Release 3.
- JES and SMF exits used to create Tivoli OPC Version 2 Release 3 events can also be used to create Tivoli OPC Version 2 Release 1, Version 2 Release 2, events after upgrading to Tivoli OPC Version 2 Release 3.
- Existing PIF application programs that work with Tivoli OPC Version 2 Release 2 can be used unchanged on Tivoli Operations and Control Version 2 Release 3. Existing PIF application programs that work with Tivoli OPC Version 2 Release 1 or OPC/ESA Version 1 Release 3 Modification Level 1 can be used unchanged on Tivoli OPC Version 2 Release 3, unless Access Method information is stored in a workstation record, in which case that workstation record will include a new sub-segment.

Planning Information

Packaging: Tivoli Operations and Control Version 2 Release 3 is distributed on either 3480 tape cartridge, or 4-mm tape.
A CD-ROM is included for installation of the workstation related components.

**System Integrity**

IBM will accept APARs where the installation of Tivoli Operations and Control Version 2 Release 3 introduces an exposure to the system integrity of the operating system. Tivoli Operations and Control Version 2 Release 3 is intended to run authorized in the operating system environment.

**Security, Auditability, and Control**

The announced program uses the security and auditability features of the host software. The customer is responsible for evaluation, selection, and implementation of security features, administrative procedures, and appropriate controls in application systems and communication facilities.

**Customer Financing**

IBM Global Financing offers attractive financing to credit-qualified commercial and government customers and Business Partners in more than 40 countries around the world. IBM Global Financing is provided by the IBM Credit Corporation in the United States. Offerings, rates, terms and availability may vary by country. Contact your local IBM Global Financing organization. Country organizations are listed on the Web at:

http://www.financing.ibm.com

**Ordering Information**

**Current Licensees**

Current licensees of Tivoli Operations Planning and Control Version 2 Release 1 or 2 will receive this update from IBM Software Delivery and Fulfillment (SDF) automatically. This shipment of Release 3, is scheduled to be completed by December 24, 1999.

**New Licensees**

Orders for new licenses can be placed now.

Shipment will begin on the planned availability date.

New users of Tivoli Operations and Control Version 2 Release 3 should specify:

- Type: 5697
- Model: OPC

For complete ordering information refer to:

- Software Announcement 298-217, dated June 23, 1998,
- Software Announcement 297-075, dated March 25, 1997
- Software Announcement 299-052, dated February 22, 1999 (PSLC Level D/E/F/ Price Introduction)
- Software Announcement 299-269, dated September 20, 1999 (Growth Opportunity License Charge for S/390 Software)

The following ordering information is for the new Job Scheduling Console optional feature.

**Basic Machine-Readable Material:** To order the optional Job Scheduling Console specify the desired feature number.

<table>
<thead>
<tr>
<th>Language</th>
<th>Feature Number</th>
<th>Distribution Medium</th>
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<tbody>
<tr>
<td>U.S. English</td>
<td>5809</td>
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<td>Italian</td>
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<td>CD-ROM</td>
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When the Job Scheduling Console optional media feature is ordered, the following Tivoli Framework (5697-FRA) CD-ROMs are supplied:

- LK2T-6059 CD-ROM (Framework 3.6)
- LK3T-4565 CD-ROM (Framework 3.6.1)
- LK3T-4577 CD-ROM (Framework 3.6.1 Language Support)

**Withdrawal from Marketing:** Effective immediately, the following basic machine-readable material for 5697-OPC are withdrawn from marketing.

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<tr>
<th>Environment</th>
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<td>OPC Tracker</td>
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<td>Tracker Agents and Tracker Agent Enabler</td>
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<td>5148</td>
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**Unlicensed Documentation:** A memo to users (GI10-5589) and a language dependent (English, Spanish, Kanji, German) program directory, are supplied automatically with the basic machine-readable material.
The Getting Started With GUI for Application Description publication is no longer supplied with this Release of Tivoli OPC.


The translated *Job Scheduling Console Users Guide* will be available on February 4, 2000. Customers who want these products prior to the availability of the translated publications, will receive the multilingual media with the following hardcopy publication in U.S. English. The translated publications will be shipped when they become available.

## U.S. English

<table>
<thead>
<tr>
<th>Description</th>
<th>U.S. English</th>
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<td>Release Notes</td>
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The *Job Scheduling Console User’s Guide* is also provided in softcopy form in U.S. English for all media features. The Job Scheduling Console Release Notes is provided in hardcopy only.

In addition to the *Job Scheduling Console Users Guide* the following Tivoli Framework publications (5697-FRA) are shipped with the Job Scheduling Console media.

<table>
<thead>
<tr>
<th>Description</th>
<th>U.S. English</th>
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<td>GC13-2806</td>
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Displayable Softcopy Publications

The Tivoli OPC publications are shipped in softcopy on the product library kit (SK2T-6948).

For additional information on the list of documentation supplied with Tivoli OPC Version 2 Release 3, refer to Software Announcement 297-075, dated March 25, 1997.

When the Job Scheduling Console optional feature is ordered, the Job Scheduling Console User’s Guide (GC32-0402) is provided in softcopy, in U.S. English only, for all media features.

In addition, the following Tivoli Framework (5697-FRA), publications in U.S. English only, are provided with the Tivoli Framework CD-ROM (LK3T-4577-00).

<table>
<thead>
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<th>Description</th>
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<tr>
<td>TME 10 Desktop</td>
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<td>Tivoli OPC Diagnosis Guide and Reference</td>
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<td>U.S. English</td>
<td>Reference Guide</td>
<td>SC31-8434</td>
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</table>

Licensed Documentation: The following licensed material will be available from IBM by the date of general availability. To order, contact your IBM representative. The first copy is available, at no charge, to licensees of basic material. Use the feature number below to order additional copies for a fee.

Additional Copies

<table>
<thead>
<tr>
<th>Title</th>
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<tbody>
<tr>
<td>Tivoli OPC Diagnosis Guide and Reference</td>
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Terms and Conditions

The terms for Tivoli Operations and Control, as previously announced in Software Announcement 298-217, dated June 23, 1998, and Software Announcement 297-075, dated March 25, 1997, licensed under the IBM Customer Agreement are unaffected by this announcement, with the following exception.

A limited use license for Tivoli Framework (5697-FRA) is included with this Release of Tivoli OPC which authorizes the end user to use the Tivoli Framework (5697-FRA) which is included in the Tivoli OPC deliverables solely with Tivoli OPC. Any other use of the Tivoli Framework (5697-FRA) requires a separate order for Tivoli Framework (5697-FRA).

Support Line: Yes

Other Support: S/390

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