



**BENNETT GROUP INTERNATIONAL**

# Enterprise Automation Services

*Bringing a  
New Level of  
Service to IT  
Consulting*



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**in-te-gra-tion** (n-t-gra-shun)— Defined as “The bringing of different cultures or disciplines into unrestricted and equal association” - Words to live by in a world class Information Technology (IT) Center. Mainframes (UNISYS, IBM, DEC, et al) have enjoyed consistent growth and maturing in automation disciplines and products over the last 25 years. However, Open Systems, ERP and eBusiness infrastructures have defied all attempts at effective automation integration at the enterprise level. Until now.

Failed attempts at making enterprise automation “mesh” by using the Mainframe as an engine has shown that today’s automation challenges are just too “Open” and ever-changing to be handled by any single predefined methodology.

At BGI we feel it’s time to treat the Mainframe with the proper regard: It is simply another Server. A single gear in a much larger machine.

### ***The Experience of Professionals***

BGI in partnership with SMA, Inc., have created a complete enterprise automation infrastructure that centralizes command and control on an SQL Server or Oracle Server. From this central Schedule Activity Monitor (SAM) control point each application platform in the enterprise is monitored and managed. From UNISYS to UNIX, from VMS to MVS, from NT Servers to Web Servers, the entire enterprise appears as one seamless image to the Production Control technician.

The product is named **OpCon/xps** and its architecture is 20 years in the making. Originally developed by SMA, Inc. for UNISYS over twenty years ago, the concept of central control at the Server level was introduced in 1994. Since that time literally dozens of other platforms have been added. From HP to Compaq, SUN to Siemens, the progression of new application platforms progressed until several large IT Centers noticed OpCon/xps on their radar.

In 2000 SMA approached BGI with a proposal—develop a whole new way to Schedule IBM Mainframes. BGI’s founder, Jerry Bennett, was the original author of what is now CA-Jobtrac™. He understands the Scheduling and Automation landscape well.



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The executives at BGI first eyed the OpCon/xps Server based scheduling system with skepticism. But what we found was a feature rich and functionally mature scheduling engine. With the ability to schedule any executable event, and create finite resource dependencies across almost any number of platforms, the SAM engine was formidable and applicable to any environment. The maturity of the SAM engine would also allow BGI developers to concentrate on application platform features and functions.

BGI Accepted the challenge. The first IBM application platform to be exploited was OS/390, JES2. BGI enrolled in IBM's Business Partner program and installed an IBM MP3000 CMOS processor and proceeded to develop the OpCon/xps LSAM (Local Schedule Activity Monitor) agent for OS/390. By January 1, 2001 Version 1.1 was installed and running in production.

**Cross Platform Dependencies** — A file arrives on a SUN Solaris. A batch job is triggered to copy and catalog the file on OS/390. An OS/390 job executes a DB2 update and executes a REXX script to analyze the contents of the file. Subsequent events are scheduled that send Name and Address updates to the Sequent Server, add email address to the Web Server application and update the SAP accounts receivable files. All along the way each event and action is monitored for proper completion. Alerts and notices can be sent by pager, email, operator message or VRU. Some errors can be automatically corrected and retried. And it all happens in SECONDS with no human intervention.

**OS/390 Capabilities**—There are six different types of scheduled events possible on the OS/390 LSAM agent. These events are:

1. *Batch Job execution* – A standard JCL submitted to JES2 and tracked to completion. Step and job level condition code tracking is available.
2. *Started Task initiation* – A cross-memory “Address Space Create” is executed for the task name requested. The same condition code management is available to STC Events as Batch Job Events.
3. *An operator Command* – A scheduled console command is executed by a independent SAF secured address space . A “completed” message is sent to SAM and no further tracking is done.
4. *A REXX Procedure* - A cross-memory “Address Space” is created for the REXX processor “IRXJCL”. Furthermore, an LSAM initiation routine dynamically allocates SYSTSPRT, SYSTSIN and the SYSEXEC library concatenation. No predefined PROC or JCL is required.
5. *A “Pre-run” Event* – One of several resource queries can be requested on schedule or monitored:
  - Test for the presence or absence of a task (e.g. is CICSPROD Executing or Not);
  - Test for the presence or absence of a file or trigger on creation or update;
  - Test for the presence of a proper number of tape drives by device (e.g. an available 3420 unit);
  - Test for the presence or absence of a console message trigger;
  - Execute your own scheduled REXX Resource Analysis Routines—in their own address space!
6. *An Unscheduled Event via the XPSCOMM Interface* -The XPSCOMM interface allows for communication of unscheduled events by OEM products—such as adding new jobs to the schedule or canceling previously scheduled jobs. XPSCOMM is an APF authorized module that can be executed from a conditional batch step, as a called procedure (REXX, Clist, etc.) or from any OEM product exit or interface—including other schedulers products!

**Available Now**—OpCon/xps and the OS/390 LSAM are available now from <http://www.smausa.com> or call (888) 858-8193. Version 1.1.2 is Generally Available. Pricing is dependent on OS/390 Configuration. Mention this literature for OS/390 Initial License DISCOUNTS!

Look for complete SYSPLEX exploitation in V1.2 — BETA AVAILABILE NOW!



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**Solaris,**  
**AIX, Tandem,**  
**Seimens, WinNT,**  
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