

JobPak™ Release Notes

Version 6.1f



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Version 6.1f
June, 2005

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Chapter 1

JobPak Version 6.1f Release Notes

This chapter describe the additions and modifications added to the following JobPak version 6.1 products:

- JobRescue™
- JobQue™
- ElectroPage™

Although any of the JobPak products can be licensed and used individually, they all run in the background under the JobPak batch job. The installation and update instructions for the JobPak products are described in the *JobPak Installation and Update Guide*.



Caution: Review the *JobPak Installation and Update Guide* before installing or updating any of the JobPak products. Nobix recommends backing up the current JobPak installation before updating to the 6.1f version software.

Overview

This release of the JobPak software contains several improvements and modifications that increase its reliability and efficiency, while using less system resources and delivering higher performance.

JobRescue and ElectroPage

JobRescue and ElectroPage products contain the following additions and modifications:

- The email program (MAILSMTP) now supports an explicit server name field.
- Reports and \$STDLISTs sent as attachments

- Spoolfile's priority number and associated device logged
- Check performed for all "fclose()" errors on the output file being processed
- Files may be deleted based on STATUS file number
- Search for missing header (.hdr) files

Explicit server name field

When a report or \$STDLIST is sent, the server name is no longer derived from the recipient's email address. Instead is taken from the server name value. This makes it easy for mail to be sent to any domain (not just internally as before). The server's hostname is configured in the CONFIGIX program's Miscellaneous System Values screen.

Reports sent as attachments

When reports are sent via e-mail, they are sent as attachments (.txt files) instead of appearing in the body of the e-mail. This way the formatting of the report is retained and the report can be viewed using any compatible viewing program.

Spoolfile's priority number and associated device logged

JobRescue remembers and logs each spoolfile's original priority number and the device associated with it which makes it easy for spoolfiles to be set back to their original settings.

Check performed for all "fclose()" errors on the output file

A check is performed for all "fclose()" errors on the output file being processed. If an error occurs, the JP06SXL program exits and JP01SXL starts another instance. This ensures that all of the files JP06SXL has opened are closed and not left open.

Files may be deleted based on STATUS file number

Files may be deleted based on their status file number as well as their pathname.

Search for missing header (.hdr) files

At startup, JobRescue searches for missing header (.hdr) files and recreates them as needed. The REGEN61 program makes one pass through the JOBDATA file then stops.

JobQue

The JobQue product contains the following additions and modifications:

- ONETIME runs in native mode
- New Windows client interface
- Eliminate list of dependencies for schedule printing
- Search for \$STDLISTs with pri=0
- New \$KEEPJOBINFO command
- Network communications with JobQue encrypted
- New web interface
- New Reporting interface

ONETIME runs in native mode

The ONETIME program now runs in native mode. It previously ran in compatibility mode, however native mode is the normal processing mode of the MPE operating system. Applications in native mode run faster and more efficiently than applications in compatibility mode.

New Windows client interface

An easy-to-use Windows client interface is available for quick and efficient job schedule control. Users can use the Scheduler Communications program to perform a wide range of job manipulation capabilities. It can be used to start, suspend, and even delete schedules and steps. It allows the completion status of a job to be changed and it provides complete on-line control over executing jobs. This program can be used to manage most of JobQue's functionality. It's offered as an alternative to the SCOMXL program. The Scheduler Communications program can be installed from the JobQue (for UNIX) installation CD that was shipped with JobPak 6.1f.

Eliminate list of dependencies for schedule printing

When using the Reporting program to print a Schedule Simulation report, the list of dependencies that usually appears at the end of the report will *not* appear. (The list of dependencies will still appear at the end of reports printed from the SCOMXL program).

Search for \$STDLISTs with pri=0

When JobQue is updating the status of an entry in the Active Job Table, it looks only for \$STDLISTs with a priority of 0 (zero). This way a matching \$STDLIST in the spool system won't be mistaken for a job that hasn't been examined yet.

New \$KEEPJOBINFO command

Once a job is completed, JobQue updates status records on the server. By default these records are deleted after 72 hours. This setting can be changed with the \$KEEPJOBINFO hours command in the SCHEDULE file.

Deleted records remain in the three main scheduling tables (To Do List, Active Schedule Table, Active Job Table) based on the \$KEEPJOBINFOHOURS value. However, entries that are in these tables beyond the \$TABLEDELHOURS value cannot be used to satisfy dependencies. They may, however, be used for reporting.

Network communications with JobQue encrypted.

All network communications with JobQue are now encrypted.

New web interface

A web interface is available which allows user to access the Scheduler Communications program via a web browser. This program can be used to manage most of JobQue's functionality. This interface requires an Apache web server and the Perl programming language. The software for both of these are available at www.apache.org and www.perl.com respectively. The web interface can be installed from the JobQue (for UNIX) installation CD that was shipped with JobPak 6.1f.

New Reporting interface

The new Reporting program can be used to generate various types of reports. Schedule simulation reports show all the schedules JobQue plans to run during a set period of time, while calendar reports list all the days specific calendars are valid. A set of command buttons makes it easy to create the type of report users need.

Known Bugs and Fixes

Symptom	Resolution
JobRescue and ElectroPage	
The STATUS program logon banner contained a copyright symbol ((C)) that caused users to think they were using JobPak 6.1 version "C."	Replaced the (C) with (COPYRIGHT)
Users were confused by an error message 'AIFPORTSEND()'	Removed error message from NSDREL1() which resides in pexl.xl.
Users confused by "shutdown error 29" error message appearing in MAILSMTP email program.	Removed message from MAILSMTP.
Invalid spool blocks were not being fixed, causing STDLOGR and STATUS programs to abort with an error in the procedure MakeDisplayable().	Uncompress fixed to detect invalid spool blocks and fix them.
In MERGEDIT program, sync option kept one more log than necessary.	Sync option changed to better determine the last log. A message is now printed with what it thinks the last log#, date, and time should be.
MAILSMTP timezone was not adjusted for daylight savings time (DST) resulting in the mail server thinking the time was off by one hour.	MAILSMTP timezone was adjusted for DST.
The CHECKIF logic was causing examination to begin again even though ExamStop was set.	"COMMENT JOBRESCUE EXAM START" was fixed. CHECKIF was given its own flag to use. All ExamStop-type logic is now independent: ExamStop, CONTINUEOK and CHECKIF were affected.
Missing messages were not being copied, causing the user to receive worthless/incoherent data on the screen when issuing the LIST EX command in STATUS against a saved compressed \$STDLIST.	COMPSPFL now copies the missing messages, which are in userlabels 1-11, to the new compressed file.
When users used > in UNLOAD to redirect output to a file, not all of the output was going to the file- even though all of the output was displayed when the file was opened.	Changed the printf()'s use the PRINT() intrinsic and a blank line was added at the end to ensure last lines of the display go into the redirected output file.

Symptom	Resolution
JPENABLE experienced an arming problem for JOB.PUB.SYS.	Changed to do direct lookup of pin associated with JOB.PUB.SYS rather than search through a list.
COPY command in STATUS program displayed errors if no arguments were entered by the user.	COPY command now checks for arguments entered by the user.
JobQue	
Compiler was not separating the remote hostname from the dependent name in a step level schedule dependency.	JT14SXL fixed so separation now occurs.
\$DONTRUNAT command allowed dates for the ToDo List schedules to spill into the early hours of the day following the designated one; (affects only dates/days without a specified time used on the \$DONTRUNAT.	Fixed planning logic in JT08SXL.
Active Job Table (AJT) is ordered by schedule number, but the dependencies on AJT entries as checked by ScanAjtEntries() did not take this into account.	<p>This has been fixed as follows: The status returned to satisfy a dependency on a step is in the following priority number:</p> <ol style="list-style-type: none"> 1 a dependency from inside the same schedule number 2 a init/wait dependency from any matching name 3 the most recently started step <p>The old logic is still used for the Active Schedule Table (AST) when the dependency logic relies on the last schedule in the AST being the most recent) since the ordering of the AST is such that the most recent schedules are always added at the end of the file.</p>
Network dependencies had not been passed.	All string compares in Network Log (NTWKLG) are done using case insensitive compares.
JT14SXL was not truncating network dependencies after the step name, resulting in the "@HOST" being put in the dependency name and the host being put in its own field.	JT14SXL fixed to properly truncate the dependency name on the @ sign.

Symptom	Resolution
\$ENTRY JOB with “-” (“except”) was not working correctly due to an error in the concurrency logic.	Error resolved.
JT08SXL was mistaking a matching \$STDLIST in the spool system for a job that hasn't been examined yet when it is trying to update the status of an AJT entry.	JT08SXL changed to only look for a pri=0 \$STDLIST when it is trying to update the status of an AJT entry.

System environment

JobPak software requires an e3000 system with MPE/iX version 6.5 or later.

The JobQue client software (Windows interface) requires Windows 2000, XP or 2003 running on a Pentium-class processor. Microsoft .NET Framework 1.1 or later must also be installed on the machine. (The .NET Framework is available on the JobQue Installation CD.) This windows machine must also have Windows 2000 Service Pack 2 (or later) installed or the JobQue Scheduler Communications program will not be accessible.

It is highly recommended that all web access to JobQue be provided by a secure server or a virtual private network (VPN), thus ensuring that any transferred data is encrypted. The web server must be configured and running on a UNIX server on the same network as the JobQue server software.

The CD ROM that contains the JobPak documentation requires a PC with a CD ROM and the Adobe Acrobat Reader 5.0 or later. To obtain the latest version of the reader, go to <http://www.Adobe.com>.