Understanding Job Scheduling Dependencies
AutoSys Release: 11.3 SP1
Intended Audience: Business

This job doc is broken into several sections, covering the attributes that impact scheduling – when appropriate the screen captures will include both Job Detail page view and the JIL (Job Information Language view). Note that the ‘Job Type’ does not display on the QVIEW page. Also, the JIL name (Job Information Language) has an embedded hyperlink which will take you directly to that section of this document.

These job attributes covered in this document include (‘Page Name’, ‘JIL Name’):
✓ ‘Job Type’, 'job_type'
✓ ‘Date/Time conditions’, 'date_conditions'
✓ ‘Run calendar’, 'run_calendar'
✓ ‘Exclude calendar’, 'exclude_calendar'
✓ ‘Run Days’, 'days_of_week'
✓ ‘Minutes after each hour’, 'start_mins'
✓ ‘Times of day’, 'start_times'
✓ ‘Run Window’, 'run_window'
✓ ‘Condition’, 'operator', and 'type'
✓ ‘Send alarm on failure’, 'alarm_if_fail'
Attribute: job_type

Comments or Screen Captures:
The Job Type attribute identifies the type of Job AutoSys should run; and there may be different required fields, depending on the Job Type.

**job_type: box**
There are two ways to identify a job_type of 'box':
1) A Job Box does not contain 'command' line attributes (Job Boxes are used to group and manage Job Streams – they do not execute Jobs by and of themselves).
2) A Job box should also be identified by naming convention - the sixth character in the AutoSys job name should reflect ‘B’ (Box).

Note: ‘Send alarm on failure’ is not flagged for Job Boxes; the University will only create incidents for Job Failures. If a job within a stream fails, both the Job status and the Job Box status will reflect ‘failure’.

![Job Details Table](image)
Comments or Screen Captures:

Select the ‘Show JIL’ button to verify the job type.

<table>
<thead>
<tr>
<th>Job Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>insert_job: ACPARBN.Nightly</td>
</tr>
<tr>
<td>description: &quot;DX_Su-Fr @19:00&quot;</td>
</tr>
<tr>
<td>owner: pssoft</td>
</tr>
<tr>
<td>permission: ox,oe,wx,we</td>
</tr>
<tr>
<td>max_run_alarm: 0</td>
</tr>
<tr>
<td>alarm_if_fail: n</td>
</tr>
<tr>
<td>avg_runtime: 17335</td>
</tr>
<tr>
<td>date_conditions: y</td>
</tr>
<tr>
<td>start_hours: &quot;19:00&quot;</td>
</tr>
<tr>
<td>run_calendar: DX_Su-Fr</td>
</tr>
</tbody>
</table>
**job_type: cmd (command)**

There are two types of Jobs which are classified by AutoSys as commands - Job Type ‘cmd’:

1) A Job that contains ‘command’ line attributes not directly relating to a PeopleSoft Process. These jobs contain a ‘C’ as the sixth character in the naming convention.

Select the ‘Show JIL’ button to verify the job type.
2) A job which will execute a PeopleSoft Run Control - the sixth character in the AutoSys job name should reflect ‘P’ (PeopleSoft); and the command line will also include ‘auto_ps7’.

Select the ‘Show JIL’ button to verify the job type.
job_type: fw (file watcher job)
The University currently uses one other job type - ‘fw’ (file watcher). A ‘File Watcher’ job has ‘F’ as the sixth character in the Job Naming convention; and includes a ‘File Watcher’ section.

Select the ‘Show JIL’ button to verify the job type.
**Attribute: date_conditions**

**Comments or Screen Captures**

For a job to run 'standalone', the 'Date/Time conditions' attribute in the 'Schedule' section must reflect 'true'. If the date_conditions field is not set to ‘1’ (true), AutoSys will review ignore any 'Days' or 'Time' attributes and rely solely of dependencies for scheduling.

If the 'Date/Time conditions' are 'true', the job or job box will also reference 'Run days', or 'Run calendar' and/or 'Exclude Calendar'; and, 'Times of day' or 'Minutes past hour'. These attributes will be covered in more details in other sections of this document.

This Job Box (ACPAPBN.Nightly) will be selected and displayed on the forecast if the forecast date and time frame is populated on the referenced run calendar. If the 'Date/Time conditions' field were blank, the job would not display on the forecast; nor would it run without manual intervention.

Note: There is a way to identify this Job as a 'Job Box' - a Job Box does not contain 'command' line attributes (Job Boxes are used to group and manage Job Streams – they do not execute Jobs by and of themselves).
Attribute: run_calendar

Comments or Screen Captures

This Job Stream (ACPAPBN.Nightly) is scheduled to use a calendar to determine which days it should run (Run Calendar ‘DX_Mo-Fr’). If the current date is populated on the DX_Mo-Fr’ calendar; the job will be scheduled to begin at 19:00 (7:00 p.m.).

Note that the ‘Date/Time conditions’ must be ‘true’ or the job will not run; regardless of the other attributes provided.
Calendar ‘DX_Su-Fr’ is fairly self explanatory - it will run Sunday through Friday.
Note: The business does not currently have access to view calendars; a separate document will be created to detail the full calendar functionality.
### Generate Days

<table>
<thead>
<tr>
<th>Name</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Primary</strong></td>
<td></td>
</tr>
<tr>
<td>Action</td>
<td>Set Processing days</td>
</tr>
<tr>
<td><strong>Date Range</strong></td>
<td></td>
</tr>
<tr>
<td>All days in year</td>
<td></td>
</tr>
<tr>
<td>All days in year</td>
<td>2013</td>
</tr>
<tr>
<td><strong>Recurrence Pattern</strong></td>
<td></td>
</tr>
<tr>
<td>Occurrence</td>
<td></td>
</tr>
<tr>
<td>First</td>
<td></td>
</tr>
<tr>
<td>Second</td>
<td></td>
</tr>
<tr>
<td>Third</td>
<td></td>
</tr>
<tr>
<td>Fourth</td>
<td></td>
</tr>
<tr>
<td>Every</td>
<td></td>
</tr>
<tr>
<td>Next to last</td>
<td></td>
</tr>
<tr>
<td>Last</td>
<td></td>
</tr>
<tr>
<td>Nth</td>
<td></td>
</tr>
<tr>
<td>Every Nth</td>
<td></td>
</tr>
<tr>
<td><strong>Days</strong></td>
<td></td>
</tr>
<tr>
<td>Any day</td>
<td></td>
</tr>
<tr>
<td><strong>Periods</strong></td>
<td></td>
</tr>
<tr>
<td>No period</td>
<td></td>
</tr>
<tr>
<td><strong>Reschedule Rule</strong></td>
<td></td>
</tr>
<tr>
<td>Reschedule</td>
<td></td>
</tr>
<tr>
<td>Reschedule direction</td>
<td>Previous</td>
</tr>
<tr>
<td><strong>Reschedule Day Type</strong></td>
<td></td>
</tr>
<tr>
<td>Any day</td>
<td></td>
</tr>
</tbody>
</table>

Back to top
Attribute: exclude_calendar

Comments or Screen Captures

In addition to specifying a run calendar, job EXPEPPN.UMFEX002 also documents exceptions by specifying an Exclude Calendar (‘Holidays’). If the current date is populated on the DX_Tu-Sa’ calendar, but not on the ‘Holidays’ calendar; the job will be scheduled to begin at 1:00 a.m.

Note: ‘Date/Time conditions’ must be true in order for the job to process systematically (the job will not be scheduled to run, if this value is false).

<table>
<thead>
<tr>
<th>Attribute Name</th>
<th>Attribute Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name</td>
<td>EXPEPPN.UMFEX002</td>
</tr>
<tr>
<td>Description</td>
<td>Budget Check Closed TAs</td>
</tr>
<tr>
<td>Send to machine</td>
<td>WP_WATAB</td>
</tr>
<tr>
<td>Owner</td>
<td>pssoft</td>
</tr>
<tr>
<td>Command</td>
<td>$PS_Adapter/auto_ps7_jae_F16 FSUMPDP_EX_UMFEX002 UMFEX002 EFSBTCH1</td>
</tr>
<tr>
<td>Standard output file</td>
<td>$AUTOLOG/efs/EXPEPPN.UMFEX002 $AUTORUN.P $$log</td>
</tr>
<tr>
<td>Standard error file</td>
<td>$AUTOLOG/efs/EXPEPPN.UMFEX002 $AUTORUN.P $$err</td>
</tr>
<tr>
<td>Schedule</td>
<td></td>
</tr>
<tr>
<td>Average run time</td>
<td>60</td>
</tr>
<tr>
<td>Date/Time conditions</td>
<td>true</td>
</tr>
<tr>
<td>Days</td>
<td></td>
</tr>
<tr>
<td>Run calendar</td>
<td>DX_Tu-Sa</td>
</tr>
<tr>
<td>Exclude calendar</td>
<td>Holidays</td>
</tr>
<tr>
<td>Time</td>
<td></td>
</tr>
<tr>
<td>Times of day</td>
<td>01:00</td>
</tr>
<tr>
<td>Notification</td>
<td></td>
</tr>
<tr>
<td>Alarms</td>
<td></td>
</tr>
<tr>
<td>Maximum run time (minutes)</td>
<td>0</td>
</tr>
<tr>
<td>Send alarm on failure</td>
<td>true</td>
</tr>
<tr>
<td>Native Security Permissions</td>
<td></td>
</tr>
<tr>
<td>Permission</td>
<td>gx,ge,wx,we</td>
</tr>
<tr>
<td>Run Time</td>
<td></td>
</tr>
<tr>
<td>Status Time</td>
<td>Jul 18, 2013 1:01:03 AM</td>
</tr>
<tr>
<td>Next Start Time</td>
<td>Jul 19, 2013 1:00:00 AM</td>
</tr>
<tr>
<td>Run Machine</td>
<td>WP_WATAB</td>
</tr>
<tr>
<td>Comments or Screen Captures</td>
<td></td>
</tr>
<tr>
<td>------------------------------</td>
<td></td>
</tr>
<tr>
<td>A 'run calendar' specifies the days on which a job should run, such as Tuesday through Saturdays, each week. In this example, the 'Processing Days' are highlighted in green. Unless referenced on the exclude calendar, the job will run on any day highlighted (the next screen capture will cover exclude calendar attributes).</td>
<td></td>
</tr>
</tbody>
</table>
This calendar does not utilize the ‘Reschedule Rule’ functionality.
An ‘exclude calendar’ specifies the days on which a job should not run. For example, to help ensure that a job never runs on any University holiday, a calendar named Holidays has been created, and each corporate holiday selected as a processing day.
This calendar does not utilize the ‘Reschedule Rule’ functionality.
Comments or Screen Captures

Generate Days

<table>
<thead>
<tr>
<th>Name</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Primary</td>
<td></td>
</tr>
<tr>
<td>Action</td>
<td>Set Processing days</td>
</tr>
<tr>
<td>Date Range</td>
<td>All days in year</td>
</tr>
<tr>
<td></td>
<td>All days in year 2013</td>
</tr>
<tr>
<td>Recurrence Pattern</td>
<td></td>
</tr>
<tr>
<td>Occurrence</td>
<td></td>
</tr>
<tr>
<td>First</td>
<td></td>
</tr>
<tr>
<td>Second</td>
<td></td>
</tr>
<tr>
<td>Third</td>
<td></td>
</tr>
<tr>
<td>Fourth</td>
<td></td>
</tr>
<tr>
<td>Every</td>
<td></td>
</tr>
<tr>
<td>Next to last</td>
<td></td>
</tr>
<tr>
<td>Last</td>
<td></td>
</tr>
<tr>
<td>Nth</td>
<td></td>
</tr>
<tr>
<td>Every Nth</td>
<td></td>
</tr>
<tr>
<td>Days</td>
<td>Any day</td>
</tr>
<tr>
<td>Periods</td>
<td>No period</td>
</tr>
<tr>
<td>Reschedule Rule</td>
<td></td>
</tr>
<tr>
<td>Reschedule</td>
<td></td>
</tr>
<tr>
<td>Reschedule direction</td>
<td>Previous</td>
</tr>
<tr>
<td>Reschedule Day Type</td>
<td>Any day</td>
</tr>
</tbody>
</table>

Back to top
Attribute: **days_of_week**

**Comments or Screen Captures**

The ‘days_of_week’ or ‘Run Days’ attribute specifies the exact days a job should be scheduled to run. This attribute cannot be used in combination with a run calendar, (run_calendar).

The following is an example of a Job that is scheduled to run Monday-Saturday, and will run every five minutes on those days.
Attribute: start_mins

Comments or Screen Captures

The ‘start_mins’ attribute identifies the exact minutes after each hour the specified job should run. ‘Minutes after each hour’ can not be used in combination with the ‘start_times’ attribute.

In this example, the job is scheduled to run every five minutes.
Attribute: **start_times**

**Comments or Screen Captures**

The ‘start_times’ attribute identifies the exact time a specified job should run. ‘Times of day’ cannot be used in combination with the ‘Minutes after each hour’ attribute. Note that these times are recorded in military format (the 24-hour military time format).

In this example, the job is scheduled to run at one o’clock each morning.

![Job Details Table](image)

<table>
<thead>
<tr>
<th>Attribute Name</th>
<th>Attribute Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Primary</strong></td>
<td></td>
</tr>
<tr>
<td>Name</td>
<td>EXPEPN.UMFEX002</td>
</tr>
<tr>
<td>Description</td>
<td>Budget Check Closed TAs</td>
</tr>
<tr>
<td>Send to machine</td>
<td>WP_WATAB</td>
</tr>
<tr>
<td>Owner</td>
<td>pssoft</td>
</tr>
<tr>
<td><strong>Command</strong></td>
<td></td>
</tr>
<tr>
<td>Command</td>
<td>$PS_Adapter/auto_p5_jae_F16_PSUMP_RE_UMFEX002_UMFEX002_EPSB_CH1</td>
</tr>
<tr>
<td>Standard output file</td>
<td>$AUTOLOG_dir/EXPEPN.UMFEX002_F16_PSUMP_RE_UMFEX002_EPSB_CH1</td>
</tr>
<tr>
<td>Standard error file</td>
<td>$AUTOLOG_dir/EXPEPN.UMFEX002_F16_PSUMP_RE_UMFEX002_EPSB_CH1</td>
</tr>
<tr>
<td><strong>Schedule</strong></td>
<td></td>
</tr>
<tr>
<td>Average run time</td>
<td>60</td>
</tr>
<tr>
<td>Date/Time conditions</td>
<td>true</td>
</tr>
<tr>
<td><strong>Days</strong></td>
<td></td>
</tr>
<tr>
<td>Run calendar</td>
<td>DX_Tu-Sa</td>
</tr>
<tr>
<td>Exclude calendar</td>
<td>Holidays</td>
</tr>
<tr>
<td><strong>Time</strong></td>
<td></td>
</tr>
<tr>
<td>Times of day</td>
<td>01:00</td>
</tr>
<tr>
<td><strong>Notification</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Run Time</strong></td>
<td></td>
</tr>
<tr>
<td>Status Time</td>
<td>Jul 18, 2013 1:01:03 AM</td>
</tr>
<tr>
<td>Next Start Time</td>
<td>Jul 19, 2013 1:00:00 AM</td>
</tr>
<tr>
<td>Run Machine</td>
<td>WP_WATAB</td>
</tr>
</tbody>
</table>
Attribute: run_window

Comments or Screen Captures

The 'run_window' attribute identifies the exact time interval a specified job should run. The Run Window attribute is not a starting condition; it acts as an additional control - all starting condition attributes must be met for the specified job to be scheduled.

In this example, the job is scheduled to run at 1, 21, and 41 minutes past the hour between 8:01 a.m. and 5:04 p.m.

<table>
<thead>
<tr>
<th>Attribute Name</th>
<th>Attribute Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Primary</strong></td>
<td></td>
</tr>
<tr>
<td>Name</td>
<td>TREAPEN.Daytime_20-Minutes</td>
</tr>
<tr>
<td>Owner</td>
<td>pmof</td>
</tr>
<tr>
<td><strong>Schedule</strong></td>
<td></td>
</tr>
<tr>
<td>Average run time</td>
<td>19</td>
</tr>
<tr>
<td>Date/Time conditions</td>
<td>True</td>
</tr>
<tr>
<td>Run window</td>
<td>08:01 - 17:04</td>
</tr>
<tr>
<td>Days</td>
<td></td>
</tr>
<tr>
<td>Run calendar</td>
<td>DX_Mo-Fr</td>
</tr>
<tr>
<td>Time</td>
<td>01,21,41</td>
</tr>
<tr>
<td><strong>Notification</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Alarms</strong></td>
<td></td>
</tr>
<tr>
<td>Maximum run time (minutes)</td>
<td>0</td>
</tr>
<tr>
<td>Send alarm on failure</td>
<td>False</td>
</tr>
<tr>
<td><strong>Native Security Permissions</strong></td>
<td></td>
</tr>
<tr>
<td>Permission</td>
<td>gx,ge,wx,we</td>
</tr>
<tr>
<td><strong>Run Time</strong></td>
<td></td>
</tr>
<tr>
<td>Status Time</td>
<td>Jul 18, 2013 1:21:19 PM</td>
</tr>
<tr>
<td>Next Start Time</td>
<td>Jul 18, 2013 1:41:00 PM</td>
</tr>
</tbody>
</table>
Attribute: operator

Comments or Screen Captures

There are two condition operator’s, ‘&’ and ‘|’, ‘and’ and ‘or’ respectively.

In the following examples both the referenced jobs must complete (with a status of ‘SUCCESS’, ‘FAILURE’, or ‘TERMINATED’), in order for this job to be scheduled to run by AutoSys.

<table>
<thead>
<tr>
<th>Attribute Name</th>
<th>Attribute Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name</td>
<td>FIAIPCN.MailComplete</td>
</tr>
<tr>
<td>Description</td>
<td>Email Financial Aid That Batch is Complete</td>
</tr>
<tr>
<td>Send to machine</td>
<td>js-prod02.oit.umn.edu</td>
</tr>
<tr>
<td>Condition</td>
<td>(FIAIPBN.FA_CORE) &amp; (STIPBN.SFGRPST_TC)</td>
</tr>
<tr>
<td>Owner</td>
<td>autosys</td>
</tr>
<tr>
<td>Command</td>
<td>/autosys/scripts/EmailFA.ksh</td>
</tr>
<tr>
<td>Standard output file</td>
<td>$AUTOLOG/autosys/FIAIPCN.MailComplete_$MMDD.log</td>
</tr>
<tr>
<td>Standard error file</td>
<td>$AUTOLOG/autosys/FIAIPCN.MailComplete_$MMDD.err</td>
</tr>
</tbody>
</table>

Comments or Screen Captures

In this example, the job will be scheduled by AutoSys if ‘TREAPCH.Sleep_Bremer-PD’ completes with a status of ‘SUCCESS’, ‘FAILURE’, or ‘TERMINATED’

Or

If ‘TREAPCN.FTP_Bremer-PD’ completes with a status of ‘FAILURE’.
### Comments or Screen Captures

#### Job Details

<table>
<thead>
<tr>
<th>Attribute Name</th>
<th>Attribute Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Primary</strong></td>
<td></td>
</tr>
<tr>
<td>Name</td>
<td>TREAPCN.FTP_USB-PD</td>
</tr>
<tr>
<td>Description</td>
<td>Transfer To Pull In Input USB Previous Day File</td>
</tr>
<tr>
<td>Send to machine</td>
<td>WP_EFSTRANS1</td>
</tr>
<tr>
<td>Condition</td>
<td>$(TREAPCN.Sleep_Bremer-PD) $(TREAPCN.FTP_Bremer-PD)</td>
</tr>
<tr>
<td>Owner</td>
<td>efstransfer1</td>
</tr>
<tr>
<td>Box</td>
<td>TREPBN.Daytime_PrevDay</td>
</tr>
<tr>
<td><strong>Command</strong></td>
<td></td>
</tr>
<tr>
<td>Command</td>
<td>C:\WINDOWS\system32\script.exe C:\Scripts\TR_FTP_USB_PD.vbs</td>
</tr>
<tr>
<td>Standard output file</td>
<td>C:\LOGS-AutosysJobs\TR_FTP_USB_PD_$$MMDD.Deg</td>
</tr>
<tr>
<td>Standard error file</td>
<td>C:\LOGS-AutosysJobs\TR_FTP_USB_PD_$$MMDD.err</td>
</tr>
<tr>
<td><strong>Schedule</strong></td>
<td></td>
</tr>
<tr>
<td>Average run time</td>
<td>7</td>
</tr>
<tr>
<td><strong>Notification</strong></td>
<td></td>
</tr>
<tr>
<td>Alarms</td>
<td></td>
</tr>
<tr>
<td>Maximum run time (minutes)</td>
<td>0</td>
</tr>
<tr>
<td>Send alarm on failure</td>
<td>true</td>
</tr>
<tr>
<td><strong>Native Security Permissions</strong></td>
<td></td>
</tr>
<tr>
<td>Permission</td>
<td>0x</td>
</tr>
<tr>
<td><strong>Run Time</strong></td>
<td></td>
</tr>
<tr>
<td>Status Time</td>
<td>Jul 18, 2013 6:41:31 AM</td>
</tr>
<tr>
<td>Run Machine</td>
<td>WP_EFSTRANS1</td>
</tr>
</tbody>
</table>
**Attribute: type**

<table>
<thead>
<tr>
<th>Comments or Screen Captures</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type, or status attributes further define conditions. There are several Job Status Dependencies that can be used to control when a job should run; or when a job should not run.</td>
</tr>
<tr>
<td>✓ ‘d’ (done)</td>
</tr>
<tr>
<td>✓ ‘f’ (failure)</td>
</tr>
<tr>
<td>✓ ‘n’ (notrunning)</td>
</tr>
<tr>
<td>✓ ‘s’ (success)</td>
</tr>
<tr>
<td>✓ ‘t’ (terminated)</td>
</tr>
<tr>
<td>Each of these will be discussed in more detail; followed by some specific examples.</td>
</tr>
</tbody>
</table>

| ‘d’ (done) |
| Indicates that the job you are defining may run when the job specified within the condition completes with a status of SUCCESS, FAILURE, or TERMINATED. |

| ‘f’ (failure) |
| Indicates that the job you are defining may run when the job specified within the condition completes with a status of FAILURE. |

| ‘n’ (notrunning) |
| Indicates that the job you are defining may run when the job specified within the condition is any value except RUNNING - preventing the dependent job from running at the same time as the job referenced within the condition. |

| ‘s’ (success) |
| Indicates that the job you are defining may run when the job specified within the condition completes with a status of SUCCESS. |

| ‘t’ (terminated) |
| Indicates that the job you are defining may run when the job specified within the condition is TERMINATED. |
Comments or Screen Captures

'd' (done)
Indicates that the job you are defining may run when the job specified within the condition completes with a status of SUCCESS, FAILURE, or TERMINATED.

<table>
<thead>
<tr>
<th>Attribute Name</th>
<th>Attribute Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name</td>
<td>GPCAPPN.UMDYN001_Weekly</td>
</tr>
<tr>
<td>Description</td>
<td>Change All the DateParms</td>
</tr>
<tr>
<td>Send to machine</td>
<td>WP_WATAB</td>
</tr>
<tr>
<td>Condition</td>
<td>GPCAPPN.CA_LIMITS</td>
</tr>
<tr>
<td>Owner</td>
<td>pssoft</td>
</tr>
<tr>
<td>Box</td>
<td>GPCAPPN.Weekly</td>
</tr>
<tr>
<td>Command</td>
<td>$PS_Adapter/auto Hale - tsp - F16 FSUMPRD UMDYNPARM_SETUP_NLY UMDYN001 EFSSBC1</td>
</tr>
<tr>
<td>Standard output file</td>
<td>$AUTOLOG/efs/GPCAPPN.UMDYN001_Weekly_$AUTORUN.P_$LOG</td>
</tr>
<tr>
<td>Standard error file</td>
<td>$AUTOLOG/efs/GPCAPPN.UMDYN001_Weekly_$AUTORUN.P_$ERR</td>
</tr>
<tr>
<td>Average run time</td>
<td>30</td>
</tr>
<tr>
<td>Maximum run time (minutes)</td>
<td>0</td>
</tr>
<tr>
<td>Send alarm on failure</td>
<td>true</td>
</tr>
<tr>
<td>Permission</td>
<td>ox,ge,wx,we</td>
</tr>
<tr>
<td>Status Time</td>
<td>Jul 14, 2013 3:59:08 PM</td>
</tr>
<tr>
<td>Run Machine</td>
<td>WP_WATAB</td>
</tr>
</tbody>
</table>
Comments or Screen Captures

's' (success)
Indicates that the job you are defining may run when the job specified within the condition completes with a status of SUCCESS.

<table>
<thead>
<tr>
<th>Attribute Name</th>
<th>Attribute Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name</td>
<td>PURCPPN.PO_AUTO_SRC</td>
</tr>
<tr>
<td>Description</td>
<td>PO Auto Sourcer</td>
</tr>
<tr>
<td>Send to machine</td>
<td>WP_WATAB</td>
</tr>
<tr>
<td>Condition</td>
<td>${\text{PURCPPN.FS_BP_REQ}}</td>
</tr>
<tr>
<td>Owner</td>
<td>psoft</td>
</tr>
<tr>
<td>Box</td>
<td>PURCPPN.Daytime</td>
</tr>
<tr>
<td>Command</td>
<td>${$PS_Adapter/auto_ps_jae_F16 FRUMP_PRD_PO_AUTO_SRC_PO_AUTO_SRC_F_888_ITCH1 |</td>
</tr>
<tr>
<td>Standard output file</td>
<td>${$AUTOLOG/efs/PURCPPN.PO_AUTO_SRC_$AUTORUN_P _$\log |</td>
</tr>
<tr>
<td>Standard error file</td>
<td>${$AUTOLOG/efs/PURCPPN.PO_AUTO_SRC_$AUTORUN_P _$\err |</td>
</tr>
<tr>
<td>Average run time</td>
<td>209</td>
</tr>
<tr>
<td>Maximum run time (minutes)</td>
<td>0</td>
</tr>
<tr>
<td>Send alarm on failure</td>
<td>true</td>
</tr>
</tbody>
</table>
Attribute: **alarm_if_fail**

**Comments or Screen Captures**

The 'alarm if fail' must be true for the specified job to be selected for a job failure to create a ServiceNow incident. The AutoSys job that was created to send job failure details to ServiceNow will not select any job where ‘Send alarm on Failure’ is false.

Back to top
**Attribute: status_code**

### Comments or Screen Captures

You can use 'mouse over text' to identify the various job status codes; but we have also included some within this section of the job doc.

The ACTIVATED status indicates that the top-level box in which the job resides is currently in the RUNNING state. This status is internally controlled and does not have an associated event.

The FAILURE status indicates one of the following:
- For a command job, the command exited with a code greater than the maximum success value specified for the job.
- For a box job, the failure conditions for the box evaluated to true.

The INACTIVE status indicates that the job is inactive; it has no status, by (or in) itself. For example, a newly created job which has not run is inactive.
### Comments or Screen Captures

<table>
<thead>
<tr>
<th>Status</th>
<th>Run</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>31655</td>
</tr>
<tr>
<td><strong>On Hold</strong></td>
<td></td>
</tr>
</tbody>
</table>

The ON_HOLD status indicates that the job is on hold and will not run until it receives the JOB_OFF_HOLD event.

<table>
<thead>
<tr>
<th>Status</th>
<th>Run</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>322</td>
</tr>
<tr>
<td><strong>On Ice</strong></td>
<td></td>
</tr>
</tbody>
</table>

The ON_ICE status indicates that the job is removed from all conditions and logic, but is still defined. Operationally, this is the equivalent of deactivating the job.

<table>
<thead>
<tr>
<th>Status</th>
<th>Run</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>37</td>
</tr>
<tr>
<td><strong>Restart</strong></td>
<td></td>
</tr>
</tbody>
</table>

The RESTART status indicates that a job that could not start because of hardware or application problems has been scheduled to restart.
The RUNNING status indicates that the job is running. If the job is a box, the RUNNING status indicates that jobs in the box may be started (other conditions permitting). If the job is a command or file watcher job, the RUNNING status indicates that the specified process is running on the client.

The STARTING status indicates that the scheduler has initiated the start procedure with the agent and the job is in the process of “coming up.” This status does not apply to box jobs.

The SUCCESS status indicates that the job exited and is considered successful, as determined by the exit code (for a command job) or the success conditions (for a box job).
The TERMINATED status indicates that the job was terminated.