

EspFmon

User Manual





READ ME FIRST

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1. Introduction

1.1 Purpose

The ESPFMON routine is a utility that monitors the existence of files located in a specified operating system directory and triggers an event if the condition is met.

1.2 Product Overview

File monitoring can be performed quickly and easily with ESPFMON. It allows you to track inbound files and then triggers an EspAuto utility that processes all events linked to the given file. File events can be defined as predecessors to EspAuto jobs or can be used to trigger an EspAuto job.

All entries are written to a detailed log file **\$CRONUS/batch/<env>/logs/ FILE_EVENT.<env>.LOG** where <env> corresponds to the value of environment variable **JBSENV**. In addition EspAuto function **JS438 Maintain - File Event Log** provides an online log of all file events that have been processed.



2. EspFmon

2.1 EspFmon – File Monitor Daemon

An instance of the ESPFMON daemon is initiated for each sub system that requires monitoring. The configuration file for the given sub system determines which datasets are monitored. As soon as transfer has completed for any of the source files specified in the configuration file it is automatically transferred to the destination directory. The file is moved to the destination directory using the file name specified on EspAuto function **JS421 Maintain - File Events per Sub System**. Once the transfer has been completed EspAuto processes all events linked to the file.

2.2 Configuration file (CFG)

A new **CFG** file is generated whenever the operator creates or updates a file definition for a particular sub system via the EspAuto function **JS421 Maintain - File Events per Sub System**. A separate configuration file exists for each of the sub system (see EspBatch function **JS002** for **SUBSYSTEMS**)

2.2.1 **Parameter entries**

- filename - The name of the file to monitor
- filepath - The path to monitor
- command - The script to execute when the file is found

2.2.2 **Location**

- \$CRONUS/espmon

2.2.3 **Naming convention**

- <Sub System>_<env>.CFG (E.G. **OUT_DEV712.CFG**)
 - A sub system is defined using EspBatch function **JS002 Maintain - EspBatch Codes** and points to a physical disk location
 - The current EspBatch environment name determines the value of <env>



2.3 Start up and shutdown of the ESPFMON daemons

Scripts are provided for the automatic startup and shutdown of ESPFMON and are located in \$CRONUS/scripts:

- start.espfmon.<env>.bsh : Creates an instance of ESPFMON for each configuration file.
- stop.espfmon.<env>.bsh : Terminates all instances of ESPFMON.

ESPFMON can also be started or shutdown per sub system using the EspAuto function **JS421 Maintain - File Events per Sub System** with option (S)tart EspFmon or (T)erminate EspFmon.

2.4 CFG line entries

The CFG file contains 3 line entries for each file that requires monitoring - when transfer of the file has completed script **/apps1/cronus/espfmon/file_event_DEV712.bsh** is executed. If any changes are made to the Natural environment for a given EspBatch environment this script must be updated accordingly.

For example: \$CRONUS/espfmon/OUT_DEV712.CFG

```
filename=TEST.IN
filepath=/apps1/cronus/data/dev712/wf/IN
command=/apps1/cronus/espfmon/file_event_DEV712.bsh

filename=RESULTS.TXT
filepath=/apps1/cronus/data/dev712/wf/FTP
command=/apps1/cronus/espfmon/file_event_DEV712.bsh

filename=USERS.TXT
filepath=/apps1/cronus/data/dev712/wf/FTP
command=/apps1/cronus/espfmon/file_event_DEV712.bsh

filename=SOURCE.TXT
filepath=/apps1/cronus/data/dev712/wf/FTP
command=/apps1/cronus/espfmon/file_event_DEV712.bsh
```



2.5 Log file name and format

Detailed information pertaining to each file event is contained in the ESPFMON log file:

\$CRONUS/batch/<env>/logs/FILE_EVENT.<env>.LOG

Example Log File: **/apps1/cronus/batch/dev712/logs/FILE_EVENT.DEV712.LOG**

```
+ ESPFMON started : 2012-02-27 10:03:31 by 131.
+ PID              : 24997
+ Subsystem        : OUT_DEV712
+
#####
#
+ Processing Event: Found source at 2012-02-27 10:05:09
+ Sub System_{ENV}: OUT_DEV712
+ Source path      : /apps1/cronus/data/dev712/wf/IN
+ Source file      : TEST.IN
+ Invoke EspAuto   : natural module JSP497
+ Start Time       : 2012-02-27 10:05:09
+ JSN497 Started   : 2012-02-27 10:05:09
+ JSN497           : 1 of 1 Files Processed
+ JSN497 Completed: 2012-02-27 10:05:13
+ ESPFMON          : Skipping OUT_DEV712, OUT_DEV712.COMPLETE exists
+ ESPFMON          : Skipping OUT_DEV712, OUT_DEV712.COMPLETE exists
+ ESPFMON          : Skipping OUT_DEV712, OUT_DEV712.COMPLETE exists
+ JSN49702         : 2012-02-27 10:05:19 - Removing OUT_DEV712.COMPLETE
```