Guide to Infor M3 templates
Overview

Halcyon Templates are designed to provide the same level of monitoring across a number of similar devices by applying a set of user-defined filters with a single-click. This greatly reduces set-up time and ensures all systems are covered by at least a basic level of monitoring.

Should you need to make a system-wide change at a later date, a single update covers all systems using the template.
Halcyon Templates are designed to provide the same level of monitoring across a number of similar devices by applying a set of user-defined rules with a single-click. This greatly reduces set-up time and ensures all systems are covered by at least a basic level of monitoring. Should you need to make a system-wide change at a later date, a single update covers all systems using the template. Halcyon Templates are available for Infor M3 (Movex) environments.
Infor M3 (Movex) is an ERP application capable of running on a multi-tiered platform, typically IBM i and Windows. Using Network Server Suite v8.0 upwards, the following Infor M3 components can be monitored using the M3 Grid and M3 Monitoring templates.

**M3 Grid Monitoring template**

The Infor M3 Grid provides a common point of entry for all Intel and IBM i based server and systems operating within the M3 Solution. The Infor Grid is a distributed runtime architecture that supports rapid deployment of Infor Appliances running as Java Virtual Machines (JVMs).

A typical view of an M3 Grid main information panel is shown overleaf.
Typical M3 Grid Main Information Panel

Although this grid display provides a top-level view of the Infor applications, the template monitoring is performed on the underlying information behind the main display. A typical view of this information is shown in the second screen shot overleaf.
M3 Grid Monitoring Details

The M3 Grid Monitoring template contains the following thirteen rules, two of which are contained within the Business Software/Web Application Monitor and the remaining eleven contained within the TCP HTTP Monitor:

Note: Rules marked with an asterisk (*) are only available in XML v1.0

Web Application Monitor

This contains the following rules:

M3_PRD (M3BE) CPU – URL(http://localhost:36666/application/M3BE_14.1.2-PRD/status.html) Timeout(5 Secs) TriggerType(Each Matching) TriggerObject(Row)

M3BE is the M3 Business Engine which produces events, based on specific operations or database changes, such as Create, Update or Delete. This rule, which runs every 5 minutes on a 24x7 basis, checks the CPU usage of the Business Engine. If running at anything between 4% and 10% of total CPU availability, an alert is raised and sent to the Enterprise Console.
Heap memory is essentially a large pool of memory from which the running program can request chunks. In the M3 Grid, the Java Virtual Machine (JVM) allocates Java Heap memory from the OS and then manages the heap for the Java application. Because of the way memory is allocated, the amount of free memory (Current heap size – Used memory) available may not be enough to grow the memory heap required to run the program. This rule, which runs every 5 minutes on a 24x7 basis checks that the M3 Business Engine is running at less than 50% use of the memory heap. If it goes above that figure, an alert is raised and sent to the Enterprise Console.

The Infor M3 node is for querying and/or performing transactions to data using the Movex Java API. This rule, which runs every 5 minutes on a 24x7 basis, checks the CPU usage of the M3 nodes. If running at anything higher than 4% of total CPU availability, an alert is raised and sent to the Enterprise Console.

This rule, which runs every 5 minutes on a 24x7 basis checks that the M3 Nodes are running at less than 50% use of the memory heap. If they go above that figure, an alert is raised and sent to the Enterprise Console.

This rule, which runs every 5 minutes on a 24x7 basis checks that the M3 Grid Status is free of any errors. If any errors are found, an alert is raised and sent to the Enterprise Console.

This rule, which runs every 5 minutes on a 24x7 basis checks that the M3 Grid Status for the text ‘Not Ok’. If this text appears in row 2 of the status table an alert is raised and sent to the Enterprise Console.
M3_PRD (Status) ‘Not running’ – URL(http://localhost:36666/grid/status.html) Timeout(5 Secs) TriggerType(Each Matching) TriggerObject(Row)
This rule, which runs every 5 minutes on a 24x7 basis checks that the M3 Grid Status for the text ‘Not Running’. If this text appears in row 2 of the status table an alert is raised and sent to the Enterprise Console.

M3_PRD (Status) ‘Warnings’ – (Multiple Criteria Defined)
This rule, which runs every 5 minutes on a 24x7 basis checks that the M3 Grid Status for the text ‘Warnings’. If this text appears in row 3 of the status table an alert is raised and sent to the Enterprise Console.

Service Monitor
This contains the following rules:

Backup Exec Services Started - Service(Backup Exec Remote Agent for Windows Systems) Status(<>'Running')
This rule checks that the essential Backup Exec Services used for the protection and recovery of key Infor M3 Windows elements is running. If found to be in a status of stopped, a message is sent to the local Enterprise Console. You may also consider creating an action that attempts to restart this service automatically.

MecService – M3 Enterprise Collaborator - Service(MECServer) Status(<>'Running')
The Infor M3 Enterprise Collaborator provides message-based integration between functions in the Infor M3 Enterprise Management System and other external applications.
This rule checks that the M3 Enterprise Collaborator is running as normal. If this service is found to be stopped, a message is sent to the local Enterprise Console. You may also consider creating an action that attempts to restart this service automatically.

MapGenServer Service Started - Service(MapGenServer) Status(<>'Running')
This rule checks that the critical MapGenServer service is running. If this service is found to be stopped, a message is sent to the local Enterprise Console. You may also consider creating an action that attempts to restart this service automatically.
OpenText® StreamServe Repository Server Service Started -
Service(StreamServe Repository Server) Status(<>’Running’)
This rule checks that the OpenText® Stream Server service used for the
repository server is running as normal. If this service is found to be stopped, a
message is sent to the local Enterprise Console to notify you of the error.

OpenText® StreamServe Service Started – Production Environment -
Service(StreamServe Prod) Status(<>’Running’)
This rule checks that the OpenText® Stream Server service used for the
production environment is running as normal. If this service is found to be
stopped, a message is sent to the local Enterprise Console. You may also
consider creating an action that attempts to restart this service automatically.

OpenText® StreamServe Service Started - Standard Environment -
Service(StreamServe zSTD) Status(<>’Running’)
This rule checks that the OpenText® Stream Server service used for the
standard environment is running as normal. If this service is found to be
stopped, a message is sent to the local Enterprise Console. You may also
consider creating an action that attempts to restart this service automatically.

OpenText® StreamServe Service Started - Test Environment -
Service(StreamServe Test) Status(<>’Running’)
This rule checks that the OpenText® Stream Server service used for the test
environment is running as normal. If this service is found to be stopped, a
message is sent to the local Enterprise Console.

Print Spooler Service Started - Service(Print Spooler)
Status(<>’Running’)
This rule checks that the print spooler service is running as normal. If this
service is found to be stopped, a message is sent to the local Enterprise
Console. You may also consider creating an action that attempts to restart this
service automatically.

TCP HTTP Monitor

This contains the following rules:

Grid: Check JVM locked - URL(http://localhost:36666/
monitor.xml?category=jvms) Timeout(5 Secs)
NotInclude(‘status’="locked")
Within the M3 Grid monitor category
‘JVMS’ to ensure that the M3 Coordinator program is running successfully, is
not locked and is in a status of ‘started’.
An alert is triggered should this program be locked and a message sent to the local Enterprise Console.

Grid: Checking for looping M3 Auto Job - URL(http://127.0.0.1:6666/monitor?category=news) Timeout(5 Secs) NotInclude('Job may be looping')
This rule checks to ensure that none of the M3 auto jobs (identified in M3 Grid monitor category ‘News’), that operate via background batch processing are looping, preventing any subsequent jobs from running.
An alert is raised on the first matching instance being found, sending a message to the local Enterprise Console.

This rule triggers an alert whenever a high severity issue is reported within the M3 NEWS page, as monitored in the M3 Grid monitor category ‘News’. A message is sent to the local Enterprise Console.

Grid: M3 Excessive Interactive Job CPU - URL(http://127.0.0.1:6666/monitor?category=interactivejobs) Timeout(5 Secs)
This rule monitors for high CPU usage (greater than 80%) against any M3 interactive job logged within the M3 Grid monitoring category ‘interactive jobs’.
An alert is raised for any instance being found, sending a message to the local Enterprise Console.

Grid: M3 Excessive Subsystem CPU - URL(http://127.0.0.1:6666/monitor?category=counters) Timeout(5 Secs)
This rule monitors for high CPU usage (greater than 75%) against any M3 subsystem logged within the M3 Grid monitoring category ‘counters’.
An alert is raised for any instance being found, sending a message to the local Enterprise Console.

Grid: Supervisor Status = Critical - URL(http://127.0.0.1:6666/monitor?category=status) Timeout(5 Secs) NotInclude('supervisorStatus="critical"')
This rule monitors for the ‘Supervisor’ interactive M3 job within the M3 Grid monitoring category ‘status’ and triggers an alert if a status of ‘critical’ is returned. The alert message is sent to the Enterprise Console.

Grid: Transaction Server Check - URL(http://127.0.0.1:6666/monitor?category=services) Timeout(5 Secs) NotInclude('"
This rule monitors for the Transaction Server within the M3 Grid monitoring category ‘services’ and triggers an alert if the server is not active. The alert message is sent to the Enterprise Console.
Grid: XML Autojobs count - URL(http://127.0.0.1:6666/monitor?category=autojobs) Timeout(5 Secs) Include("Autojobs jobs currently running in the system count=52")
This rule ensures that all of your M3 autojobs are active. The M3 Grid monitoring category ‘autojobs’ is checked to ensure that the system count of autojobs is equal to 52. (This number can be amended by editing the rule). An alert is raised if number of autojobs fails to equal 52 and a message is sent to the Enterprise Console.

This rule works in the same way in the previous rule in that it ensures that all of your M3 autojobs are active, but in this instance, the M3 Grid monitoring category ‘autojobs’ is checked against a list of autojobs rather than a system count. (The list can be amended by editing the rule). An alert is raised if an autojob is missing from the provided list and a message is sent to the Enterprise Console.

Note: You only need to use one of the previous two rules as they both achieve the same end result.

Grid: XML Job Queue Length >25 - URL(http://127.0.0.1:6666/monitor?category=status) Timeout(5 Secs) Include(OneOf ‘jobQueueLength="0" to "25"’)
This rule checks the M3 Grid monitoring category ‘status’ to ensure that there are no M3 job queues with a length of more than 25 present. An alert is raised if an M3 job queue exceeds 25 and is sent to the Enterprise Console.
Additional M3 Grid Information

Although not directly template related, the following information provides more detail into working with the M3 Grid.

Programmatically operating on the Grid using REST

It is possible to programmatically act upon a grid. This is because the ION Grid makes available a number of status documents and operations using REST (Representational State Transfer). The REST API's can easily be called programmatically and can be used in many different scripting scenarios that operate on the grid or that utilize individual parts of it, such as applications and nodes.

REST services are defined by a WADL (Web Application Description Language). Please refer to the following documents for more information regarding the use of WADL.

http://www.w3.org/Submission/wadl/

The WADL file describes the set of operations that are made available and the schema of the data that is passed as requests and returned as responses. The WADL is usually imported into an external tool that generates code (in different languages). This makes it easy to then directly interact with the exposed REST services.

The REST services are accessed via any of the HTTP(S) ports defined within the grid routers. The WADL file is also accessible via these ports.

REST API Version 2

The documentation and a testing tool for Infor ION Grid REST API version 2 are available on all grid routers. To read the documentation and test the INFOR ION Grid REST API:

1 Open a supported web browser
2 Navigate to the following URL: http(s)://server.port/grid/rest (where server is the name of the server hosting the grid and port is the HTTP or HTTPS port for the grid router).

The Infor ION Grid REST API UI with a list of available resources is displayed:
• Click the name of a resource to expand the listing of available operations
• Click the name of an operation to display details about that operation
• Clicking the operation link again minimizes the operation.
PUT and POST Operations:

- By clicking the Model Schema link in the Parameters section, a JSON (JavaScript Object Notation) skeleton of what the input for that operation looks like is displayed. Clicking the JSON skeleton fills the Value text area in the Parameters section with the JSON skeleton input.

- The Infor ION Grid REST API requires authentication and some of the REST methods require authentication with the grid-admin and/or app-admin role. Authentication may be performed using username/password or certificates. For information about how to generate a client certificate, see the Infor ION Grid Security Administration Guide.

Infor ION Grid REST API

Infor Grid REST API allows for configuration and administration of the Infor ION Grid instance.

- system: Manage the Grid and Registry
- hosts: Manage Hosts
- repository: Manage the Application Repository
- applications: Manage Applications
- routers: Manage Routers
- bindings: Manage Bindings
- nodes: List running Grid nodes
- properties: Manage Properties
- security: Manage Grid Security

Operations
- List
- Expand
- Raw
Lawson® Movex ServerView Monitoring template

The Lawson® Movex ServerView Monitoring template includes rules for Lawson® Movex solutions and uses Web Application Monitor, Service, File and Folder and TCP HTTP monitoring components.

Note:  If you have not purchased the Web Application Monitor component of Network Server Suite, this template only includes the Service, File and Folder and TCP HTTP elements.

The Lawson® Movex ServerView Monitoring template contains the following components:

**Web Application Monitor**

This product can monitor both the M3 Grid (see M3 Grid Monitoring template for more information) and ServerView components of the M3 solution.

Checking for looping M3 auto job - URL(http://127.0.0.1:6788/showlog?addr=127.0.0.1&port6101) Timeout(5 Secs)

TriggerType(first Matching) TriggerObject(Table)

This rule checks to ensure that none of the M3 auto jobs, that operate via background batch processing, are looping, preventing any subsequent jobs from running.

An alert is raised on the first matching instance being found, sending a message to the local Enterprise Console.
Excessive CPU - URL(http://127.0.0.1:6666/) Timeout(15 Secs) TriggerType(Each Matching) TriggerObject(Row)
This rule monitors for high CPU usage for any M3 interactive job on the M3 Server View main page.
An alert is raised on the first matching instance being found, sending a message to the local Enterprise Console.

High severity for NEWS page - URL(http://127.0.0.1:6666/news) Timeout(5 Secs) TriggerType(Each Matching) TriggerObject(Row)
This rule triggers an alert for each high severity issue reported within the M3 NEWS page. A message is sent to the local Enterprise Console.

Instances of an interactive job for a specified user - URL(http://127.0.0.1:6666/) Timeout(15 Secs) TriggerType(Each Matching) TriggerObject(Row)
This rule monitors for end-users who start up an excessive number of M3 work sessions.
This rule can also be configured to monitor for ‘specific’ end-users whom often start up the same occurrence of a job multiple times which can result in data integrity issues.
An alert is raised if more than 5 interactive jobs for the same user are found and a message sent to the Enterprise Console.

Interaction auto job validation - URL(http://127.0.0.1:6666/) Timeout(15 Secs) TriggerType(First Matching) TriggerObject(Row)
This rule ensures that all of your M3 background jobs are active at the times specified. An alert is raised if any of the expected jobs fail the check and a message is sent to the Enterprise Console.

Interactive job CPU% Check - URL(http://127.0.0.1:6666/) Timeout(15 Secs) TriggerType(Each Matching) TriggerObject(Row)
This rule monitors CPU usage and currently validates the CPU usage of the M3 auto jobs. However, this criteria setting can easily be changed to review any M3 related page.
An alert is raised if CPU usage exceeds 80% for any interactive job and a message sent to the Enterprise Console.

ServerView Counters Check - URL(http://127.0.0.1:6666/) Timeout(15 Secs) TriggerType(First Matching) TriggerObject(Row)
This rule monitors CPU usage within any of the M3 ‘counter’ pages and sends an alert to the Enterprise Console if any counters are found to be using excessive CPU.
ServerView Dumplogs in NEWS page - URL(http://127.0.0.1:6666/news) Timeout(5 Secs) TriggerType(Each Matching) TriggerObject(Row)
This rule triggers an alert and sends a message to the Enterprise Console whenever any new 'dumplogs' are generated in the M3 NEWS page that have a severity level of 4 or greater.

ServerView Status Check - URL(http://127.0.0.1:6666/) Timeout(15 Secs) TriggerType(Each Matching) TriggerObject(Row)
This rule monitors for any job displayed on the M3 Server View main page that has an invalid status. Should any job be found to be in an invalid status, a message is sent to the Enterprise Console.

Supervisor Check - URL(http://127.0.0.1:6666/) Timeout(25 Secs) TriggerType(First Matching) TriggerObject(Table)
This rule monitors for the ‘Supervisor’ interactive M3 job and triggers an alert if the job is not active. A message is sent to the Enterprise Console.

Transaction Server Check - URL(http://127.0.0.1:6666/) Timeout(25 Secs) TriggerType(First Matching) TriggerObject(Table)
This rule monitors for the ‘Transaction’ interactive M3 job and triggers an alert if the job is not active. A message is sent to the Enterprise Console.

File and Folder Monitor

Alert if SalesCube is not updated overnight – Path(D:\) TriggerOn(First Matching Matching File Or Folder) SubFolders (True) Thresholds(Modified)
A cube is a method of storing multiple sources of business data, such as sales, profits, expenses, budget and forecast. This rule checks the important SalesCube Folder (including subfolders) path and if not updated, an alert is sent to the Enterprise Console.

Service Monitor

Backup Exec Services Started - Service(Backup Exec Remote Agent for Windows Systems) Status(<=‘Running’) TriggerType(Each Matching) TriggerObject(Table)
This rule checks that the essential Backup Exec Services used for the protection and recovery of key Infor M3 Windows elements is running. If found to be in a status of stopped, a message is sent to the local Enterprise Console. You may also consider creating an action that attempts to restart this service automatically.
M3 Enterprise Collaborator (MEC) Service Started -
Service(MECServer) Status(<>'Running')
The Infor M3 Enterprise Collaborator provides message-based integration between functions in the Infor M3 Enterprise Management System and other external applications.
This rule checks that the M3 Enterprise Collaborator is running as normal. If this service is found to be stopped, a message is sent to the local Enterprise Console. You may also consider creating an action that attempts to restart this service automatically.

MapGenServer - Service(MapGenServer) Status(<>'Running')
This rule checks that the critical MapGenServer service is started. If this service is found to be stopped, a message is sent to the local Enterprise Console. You may also consider creating an action that attempts to restart this service automatically.

OpenText® StreamServe Repository Server Service Started -
Service(StreamServe Repository Server) Status(<>'Running')
This rule checks that the OpenText® Stream Server service used for the repository server is running as normal. If this service is found to be stopped, a message is sent to the local Enterprise Console to notify you of the error.

OpenText® StreamServe Service Started – Production Environment -
Service(StreamServe Prod) Status(<>'Running')
This rule checks that the OpenText® Stream Server service used for the production environment is running as normal. If this service is found to be stopped, a message is sent to the local Enterprise Console. You may also consider creating an action that attempts to restart this service automatically.

OpenText® StreamServe Service Started - Standard Environment -
Service(StreamServe STD) Status(<>'Running')
This rule checks that the OpenText® Stream Server service used for the standard environment is running as normal. If this service is found to be stopped, a message is sent to the local Enterprise Console. You may also consider creating an action that attempts to restart this service automatically.

OpenText® StreamServe Service Started – Test Environment -
Service(StreamServe Test) Status(<>'Running')
This rule checks that the OpenText® Stream Server service used for the test environment is running as normal. If this service is found to be stopped, a message is sent to the local Enterprise Console.
Print Spooler Service Started - Service(Print Spooler) Status<>(’Running’)  
This rule checks that the print spooler service is running as normal. If this service is found to be stopped, a message is sent to the local Enterprise Console. You may also consider creating an action that attempts to restart this service automatically.

TCP HTTP Monitor

Check CONNECT Site - URL(http://127.0.0.1:8780/) Timeout(5 Secs) Include(‘News’) NotInclude(‘404’)  
This rule checks that the Infor M3 News site is available. To pass the rule check, the page to which this rule connects, must contain the word 'News' and must not contain '404' (the numerical error ID code for Page Not Found errors). If 'News' is not found or '404' is present, a message is sent to the local Enterprise Console.
Infor M3 (Movex) is an ERP application capable of running on a multi-tiered platform, typically IBM i and Windows servers to provide end-users with systems. The IBM i platform is served by two different architectures; RPG and Java.

RPG is the more traditional format providing good visibility of system activity via WRKACTJOB and WRKJOBQ amongst others.

Java is now more commonplace but makes viewing subsystem and job information more difficult when just using traditional iSeries commands. Infor provide a management console called Server View which runs on the HTTP server on IBM i, which provides greater visibility of system activity.

Both of these architectures use the same approach, usually consisting of:

- Database - usually installed and managed on an IBM server
- User Interface - can be any one of the following:
  - ‘green screen’ interface (older systems only)
  - Movex Explorer GUI interface
  - Move Workplace (true HTTP interface)
- MOS – M3 Management Output System (Open Text™ StreamServe) installed on a Windows server and handles all the system output (print, fax, email)

Other variations may include:

- M3 Enterprise Collaborator –B2B transaction translation utility installed on a Windows server
- LBI (Lawson Business Intelligence) data analysis and reporting utility
Installation of Infor M3 Templates on IBM i (iSeries)

If you already use any of Halcyon's Level 1 to 4 software suites then follow these instructions to install templates to a customized environment on the IBM i.

If you do not currently use Halcyon's tools in your Infor M3 environment but wish to have more information, an on-line demonstration or a free trial then please see the list of contacts on the back page of this guide.

Follow these instructions to install templates to a customized environment.

1. Install the Halcyon solution, using the appropriate installation guide.

2. Once successfully installed, log into the environment to which you wish to apply the customized template, for example, HALPROD/HALCYON.

3. From the command line run `ENDMON` and press F4. Follow the prompts to complete the ending of the monitors.

   **Note:** The installation of the customized environment fails if the monitors are not stopped.

4. From the command line type `CSTENV` and press F4.

5. Type the required authorization code for the template you wish to apply and press Enter.

![Customize Environment (CSTENV)](image)

Entering the customization code
Each customized environment requires an authorization code.
Please contact technical.services@halcyonsoftware.com or your local Halcyon reseller for details on how to obtain this code.

The Customized environment is now installed.

6 From the main menu of your Halcyon solution, select option **5=Work with Rules**. The template rules applicable to the customized environment that you installed can be found in the listed queue and rule groups. Default action schedules are installed and additionally, where appropriate, changes to system defaults may also be made.

### Available IBM i templates for Infor M3 (Movex)

The following templates are available in the Infor M3 (Movex) IBM i customization.

#### Message Queue Rules

**QHST Message Queue**
This rule group contains five Infor M3 (Movex) customization rules that can be used to monitor system events that have been logged. The rules within this group are run every 60 seconds.

**M3: Password invalid - M3SRVADM**
Checks if an invalid password has been entered for user M3SRVADM, the Movex server administrator, by checking for message ID CPF2234 (comparator M3SRVADM) being present in message queue QHST.

**M3: Password invalid - QSECOFR**
Checks if an invalid password has been entered for user QSECOFR, the IBM security administrator, by checking for message ID CPF2234 (comparator QSECOFR) being present in message queue QHST.

**M3: Monitor Login by M3SRVADM**
Checks for login by user profile M3SRVADM to subsystems QCTL, QINTER and QPGMR by checking for message ID CPF1124 (with these subsystem comparators) being present in message queue QHST.

**M3: Backup finished by 04:00**
Checks that job M3BACKJOB has completed by checking for message ID CPF1164 being present in message queue QHST. This rule runs Monday to Friday only between 02:00 and 04:00 hours.
**M3: Backup objects NOT saved**
Checks for message ID’s CPF3701 and CPF3702 in the current environment within message queue QHST. These error messages indicate the number of objects saved and the number of objects not saved. For message ID CPF3702, the number of objects not included is also specified. An alert is generated if either of these messages is present.

Equivalent omission criteria, which exist for both message ID’s, ensure that an alert is not generated if the number of objects not saved is zero.

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**TCP/IP Rules**

**M3**
This rule group contains a single TCP/IP customization rule that can be used to monitor Infor M3 (Movex). The rule within this group is run every 5 minutes.

**M3: Check M3 Management Output System**
Checks that the M3 Management Output System is active and can be contacted. A success ratio of 75% (allowing 1 failure every 24 hours) determines if an alert is generated.

Note: In order to use this template rule, you must amend the example IP Address of this rule to the IP address of your M3 Management Output System. This can be done by taking option 2=Change against this rule from the Work with Rules main display.

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**Performance Rules**

**M3**
This rule group contains sixteen Performance customization rules that can be used to monitor Infor M3 (Movex) performance.

**M3: Verify subsystem QEJBAS51 is active**
This subsystem is commonly used for hosting the WebSphere Application Server, the application in which M3 runs. This rule checks that this subsystem is active at all times.

**M3: Verify subsystem M3LICSVR is active**
This subsystem hosts the M3 License Server, required for the Workplace to run. This rule checks that this subsystem is active at all times.
M3: Verify subsystem M3JVA is active
The M3JVA subsystem is the supervisor subsystem where the first instance of JVM is started. This rule checks that this subsystem is active at all times.

M3: Verify subsystem M3JVAINT is active
This subsystem is used to serve interactive connections to M3 Java from the M3 Explorer client in a multiple JVM setup. This rule checks that this subsystem is active at all times.

M3: Verify subsystem M3JVAASJ is active
This subsystem is responsible for running autostart jobs in a M3 Java multiple JVM setup. This rule checks that this subsystem is active at all times.

M3: Verify subsystem M3JVABCH is active
This subsystem is used for batch job type work in a M3 Java multiple JVM setup. This rule checks that this subsystem is active at all times.

M3: Verify subsystem M3C is active
This subsystem denotes an earlier version of the software (where C is the version). Older versions may be running in subsystem MVXB. This rule checks that this subsystem is active at all times.

M3: Verify subsystem M3CINT is active
This subsystem is used to serve interactive connections to M3 Java from the M3 Explorer client in a multiple JVM setup. This rule checks that this subsystem is active at all times.

M3: Verify subsystem M3CASJ is active
This subsystem is responsible for running autostart jobs in a M3 Java multiple JVM setup. This rule checks that this subsystem is active at all times.

M3: Verify subsystem M3CBCH is active
This subsystem is used for batch job type work in a M3 Java multiple JVM setup. This rule checks that this subsystem is active at all times.

M3: Verify subsystem M3CMEX is active
This subsystem runs the M3 Explorer which is the M3 GUI. This rule checks that this subsystem is active at all times.

M3: Verify subsystem M3JVAMIJ is active
This subsystem is the Machine Interface subsystem which handles the communication with the Infor M3 APIs. This rule checks that this subsystem is active at all times.
**M3: Ensure at least 1 job S.* active in M3JVA**
Checks to ensure there is at least one active job beginning with ‘S.’ on subsystem M3JVA.

**M3: Ensure at least 1 job I.* active in M3JVAINT**
Checks to ensure there is at least one active job beginning with ‘I.’ on subsystem M3JVAINT.

**M3: Ensure at least 1 job A.* active in M3JVAASJ**
Checks to ensure there is at least one active job beginning with ‘A.’ on subsystem M3JVAASJ.

**M3: Ensure at least 1 job B.* active in M3JVABCH**
Checks to ensure there is at least one active job beginning with ‘B.’ on subsystem M3JVABCH.
Halcyon Templates

The following system templates are available for use with Halcyon IBMi and Windows monitoring solutions:

- AIX
- AIX TEMENOS 24
- AIX VIOS
- HP DATA PROTECTOR
- IBM SERVICES MONITORING
- iCLUSTER
- INFOR M3
- INFOR SYSTEM 21
- INFOR XA
- JD EDWARDS
- LINUX
- MAXAVA
- MISYS EQUATION
- MISYS MIDAS PLUS
- POWER HA
- QUICK EDD
- ROBOT HA
- SAP
- STAND GUARD ANTI VIRUS
- SYMANTEC BACKUP EXEC
- SYMANTEC NETBACKUP
- VISION iTERA
- VISION OMS/ODS REPLICATION
- WEBS PHERE MQ MONITORING
- WINDOWS
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