

iEventMonitor

Bluescape Browser Interface

Version 9.03

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**Kisco Systems LLC
54 Danbury Road, #439
Ridgefield, CT 06877**

Phone:	(518) 897-5002
E-mail:	Sales@Kisco.com
WWW:	https://www.kisco.com
Customer Support:	https://www.kisco.com/iem/support

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Introduction

This documentation covers the Bluescape iEventMonitor browser interface only. This documentation is intended to provide you with information on how to use the Bluescape interface and how to configure the Apache HTTP server on your IBM i server to run the browser interface for iEventMonitor.

Instructions for installing and maintaining the software can be found in the iEventMonitor User's Guide.

Overview

The Bluescape browser interface for iEventMonitor is a feature that allows you to administer iEventMonitor using a web browser. This requires that your IBM i use the Apache HTTP web server activated and configured to support iEventMonitor calls.

The Bluescape browser interface allows you to use the features of the browser to simplify and improve efficiency when working with iEventMonitor. Things like cut/paste, action buttons and browser field content prompts will help your use of iEventMonitor.

What's New in Release 9.03

Release 9.03 became available in October 2025 and includes the following new features and capabilities:

1. New Problem Log Watch added (PL). Issues an alert when a new problem is logged to the IBM i OS Problem Log (WRKPRB)
2. New Job Table Watch added (JT). When the percentage of total jobs allowed exceeds a threshold that you set, an alert will be issued.
3. For generic message exceptions, a single zero in the low order position will no longer be considered a generic indicator. This specification change now matches how the IBM i OS MONMSG command work.
4. On the Job Watch, the *NRUN Watch option will now required that the Reminder Interval parameter be used.

What Was New in Release 9.03

Release 9.02 became available in September 2025 and includes the following new features and capabilities:

5. Support added for SIEM Feed using CEF:0 format
6. Watch Task alerts now include full message details, not just a summary
7. New Data Queue Watch added (DQ). Checks a watched data queue for more entries than a user set threshold amount and issues alerts.

What Was New in Release 9

Release 9 became available in June 2025 and includes the following new features and capabilities:

- New exit program have been added to most monitors and watches that are available for customers with an Enterprise level software license.
- A user profile filter has been added to the CP Audit Monitor.
- An IBM i OS PTF Watch has been added.
- A watch for Defective IBM i OS PTFs has been added.
- An IBM i OS Firmware Update Watch has been added.
- A reminder option has been added to the User Expiration Watch.
- Message Queue Monitor reminder alerts now include the full text of the original alert, including the link if present.
- Message ID Exceptions now allow for "generic" messages to work in the exact same way that the IBM MONMSG CL command works.
- For the Message Queue Monitor Routing feature, full support has been implemented for GENERIC* message ID's.
- For the Output Queue Watch, you can now specify a GENERIC* queue name and all queues with that name in the given library will be watched.

What Was New in Release 8.05

Release 8.05 of Bluescape for iEventMonitor is an interim release that now supports these additional new features added to iEventMonitor:

- Heartbeat Monitor options
- Task copy feature
- New audit monitor code for Network Password Errors

What Was New in Release 8.03

Release 8.03 of Bluescape for iEventMonitor was an interim release that supported these new features added to iEventMonitor:

- The new Product Watch (PW) is now supported in Bluescape.
- The new Temporary Storage Watch (TS) is now supported in Bluescape.

Using The Bluescape Interface

To use the browser interface for iEventMonitor, you must first configure the Apache HTTP server on your system and start the server instance for iEventMonitor. Please refer to the separate configuration section of this documentation for instructions on how to set this up.

To get started, just type in the following URL on your browser:

`http://yoursystem.com:8077/iemlogon.htm`

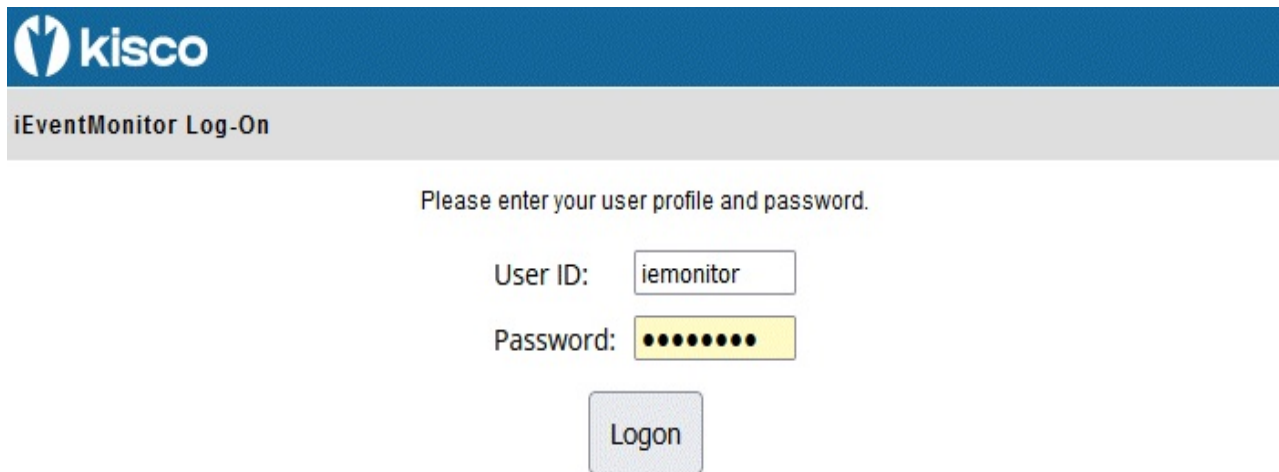
If you have secure HTTPS configuration completed, replace the “http” with “https”.

Replace the “*yoursystemi.com*” with a reference to your IBM I TCP/IP address. You can use either a named address or a numerical address, such as “10.1.1.12”.

If your IBM i system is configured for long passwords, then replace the iemlogon.htm with iemlogon2.htm.

Important note: The initial recommendation from Kisco Systems is to implement the web interface using the HTTP connection. This connection is not secure and it is recommended that you take precautions as your user profile and password will be passed as open text through your network. See the documentation for setup considerations for an HTTPS secure connection.

When you enter the above URL, the following will be displayed by your browser:

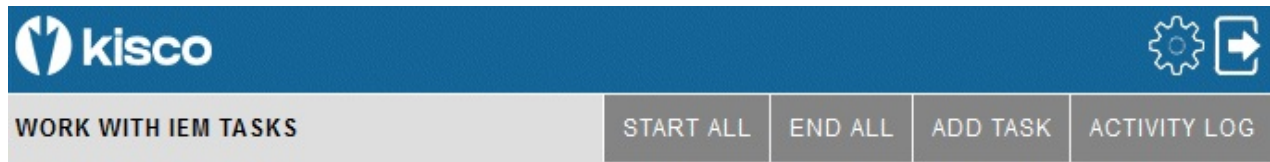


The screenshot displays the iEventMonitor Log-On web interface. At the top, there is a blue header bar with the Kisco logo on the left and the text "iEventMonitor Log-On" on the right. Below the header, a light gray box contains the instruction "Please enter your user profile and password." Underneath this instruction, there are two input fields. The first field is labeled "User ID:" and contains the text "iemonitor". The second field is labeled "Password:" and contains a series of black dots to mask the password. Below these fields is a button labeled "Logon".

Log on to your system using a user profile that is authorized to use iEventMonitor. In this example, we have created a special profile named IEMONITOR and enrolled it in the product to be able to use the browser.

Browser Navigation

The Bluescape browser interface will always have two navigation bars near the top of each display panel:



On the top blue line, you can always exit your Bluescape session by selecting the arrow icon on the right panel. This will give you a log off confirmation and give you a link to log back on.

The gear icon will let you access the global settings for iEventMonitor. Please see the separate section of this documentation for information on how to control the settings.

The second gray line will always show a text description of the current display on the left. Then, on the right, optional dark gray action buttons will be displayed. These will change with each function that you access. The above example is taken from the initial display when you first sign on.

At any point during your use of the Bluescape browser interface, you browser's backup function is also available to you. Keep in mind, however, that this will not undo any changes that have been made along the way.

Initial Display Panel

When the login is completed, the following starting point display will come up in your browser:

WORK WITH IEM TASKS

START ALL

END ALL

ADD TASK

ACTIVITY LOG

Filter: *ALL

Choose

<<

<

>

>>

Total tasks currently on file: 25

Select	Task	Description	Watch Name	Curr Status	Notify	Queue	Copy
☒	AM	Audit Monitor	AFMONIT	Active	*DFTID		☒
☒	AM	Audit Monitor	CPMONIT	Active	rich@kisco.com		☒
☒	AM	Audit Monitor	PWMONIT	Active	*DFTID		☒
☒	AM	Audit Monitor	SKMONIT	Active	rich@kisco.com		☒
☒	AM	Audit Monitor	SVMONIT	Active	rich@kisco.com		☒
☒	AM	Audit Monitor	VPMONIT	Active	*DFTID		☒
☒	AS	ASP% Watch	ASPLVL1001	Active	*DFTID		
☒	AS	ASP% Watch	ASPLVL2001	Active	*DFTID		
☒	AS	ASP% Watch	ASPWTCH001	Active	*DFTID		
☒	CX	Certificate Expiration	IEMDCMWCH	Active	*DFTID		
☒	JQ	Job Queue Watch	QBATCH	Active	*DFTID	QBATCH	☒
☒	MQ	Message Queue Monitor	IENOTIFY	Active	rich@kisco.com	IENOTIFY	☒
☒	MQ	Message Queue Monitor	QSYSMSG	Active	rich@kisco.com	QSYSMSG	☒
☒	MQ	Message Queue Monitor	QSYSOPR	Active	*DFTID	QSYSOPR	☒

After a successful login, a timer will start every time you select a function. If your session lies dormant for longer than the browser timeout setting, it will time out and the next time you try to start a process, you will be forced back to the login page. The browser timeout value is shipped set to 60 minutes from Kisco, but can be changed using the global settings icon.

The number of detail lines that you see on this screen can be controlled from a value in the global settings. Please see that section of the manual. As shipped from Kisco, this is set to 15 lines per panel.

You can limit what is shown here using the filter. Select the type of task that you want to view and press the Choose button. The list will then be limited to the task code entries you selected. If you leave the filter set to *ALL, the list will include all tasks currently defined to iEventManager. You can use the blue arrow buttons to scroll through your list of files. The << button will always bring you back to the top and the >> button will always take you to the end. The < and > buttons will scroll one set back or forward as needed.

Each of the dark gray action buttons is described in a separate section in this documentation.

From this display, you can change the status of a task from active to inactive or back to active from inactive. To do so, just click on the [Active](#) or [Inactive](#) link and the status will be changed. You can also check to see the settings for a task by clicking on the small blue button on the lefthand edge of the task display. If a task is active, you can just view the task settings but not be able to change them. If the task is inactive, then you can either change settings or delete the task from the active list of tasks.

Initial Display Options

The following options are available along the top of the initial display. Each of the gray buttons will do the following:

START ALL	All tasks defined to iEventManager will be started. If they are already active, no action will be taken.
END ALL	All tasks defined to iEventManager will be stopped. If they are already inactive, no action will be taken.
	Caution: This process may take a while to complete on some systems depending on the tasks in use.
ADD TASK	Will display a list of possible tasks available for iEventManager so that a new task can be added to the software. See the Managing Tasks section of this user's guide.
ACTIVITY LOG	The iEventManager activity log will be displayed. See the Activity Log section of this user's guide.

Notification Addresses

Each monitor or watch feature in iEventManager includes an entry field for notification address. The following rules apply on each task.

To specify an email notification, enter the email address information that you want to use. You can stack multiple addresses in the field as long as the total length does not exceed 200 characters. Separate the addresses by a semi-colon (;) character. Do not leave any blank characters between addresses.

To specify a user profile, precede the profile with the # character. For example, to notify QSECOFR, enter the value #QSECOFR. When an alert is processed, the software will check to see if the user profile is logged into a terminal session and then send them a break message alert.

If you have Kisco Connect installed on your system, you can enter a cell number as an all numeric string. Any alerts will be sent as SMS text messages routed through Kisco Connect.

If you use the special value of *DFTID, then the notification addresses will be taken from the defaults set in the global settings.

Managing Tasks

When you select the ADD TASK button, the following list of possible new tasks will appear:

SELECT TASK		GO BACK
Task Code	Task Description	
AM	System Security Audit Monitor	
AS	ASP% Disc Space Watch	
CN	Connection Watch	
CX	Check for Digital Certificate Expiration	
DQ	Data Queue Watch	
DW	Device Watch	
FM	Database File Monitor	
JQ	Job Queue Watch	
JT	Job Table Watch	
JW	Job Name Watch	
LW	Lock-Wait Watch	
MQ	Message Queue Monitor	
MX	Mutex-Wait Watch	
NW	Network Location Watch	
OQ	Output Queue Watch	
PD	Defective IBM i OS PTF Watch	
PF	IBM i OS Firmware Update Watch	
PL	Problem Log Alert	
PT	IBM i OS PTF Watch	
PW	Product Expiration Watch	
TS	Temporary Storage Watch	
TW	Thread-Wait Watch	
UT	System Utilization Monitor	
UW	User Profile Activity Watch	
UX	User Profile Expiration Watch	
WT	Watch For Specific Messages	

If a task on the initial display is inactive and you select the blue box next to it, the details about that task will be shown so that you can either update settings or delete the task. If you want to add a new task, select the task code shown here and the associated update panel will be displayed.

System Security Audit Monitor - AM

iEventManager has the ability to monitor your system for security events getting logged to the system security audit journal. You can set up audit monitors for one or more of specific security events. For each audit monitor, you can also specify how frequently you want the check for the audit journal entries.

iEventManager can issue alerts for the following audit events on your system:

<u>Audit Code</u>	<u>Description</u>
AD	Audit changes
AF	Authority failures
AX	Row and column access control
CD	Command line use for registered user profiles
CP	User profiles changed, created or restored
DO	Deleted objects
DS	DST password reset
EV	System environment variables
OW	Object ownership changes
PS	Profile swaps
PW	Invalid passwords
SK	Secure socket connections
SO	Server security user information actions
ST	Use of service tools
SV	System value changes
VP	Network Password Errors

To make sure that the items above are correctly captured in the security audit journal, certain system values need to be set. See the User's Guide for more details.

When you select to add a new System Security Audit Monitor, or when you check how a current monitor is configured, the following panel will be shown:





ADD AUDIT MONITOR
GO BACK

Field Description	Field Contents
Audit Code	☐ AD - Auditing changes ☐ AF - Authority failures ☐ AX - Row/Column Access ☐ CD - Command line use ☐ CP - User profile changes ☐ DO - Deleted objects ☐ DS - DST password reset ☐ EV - Environment variables ☐ OW - Obj Ownership changes ☐ PS - Profile swaps ☐ PW - Invalid passwords ☐ SK - Secure socket connections ☐ SO - Security actions ☐ ST - Service tools use ☐ SV - System value changes
Check Intervals	0015 Minutes, 2-1440
Notification Address	*DFTID
Start option	☒ *RESTART ☐ *RESUME
Attachment format	☒ *TXT ☐ *CSV (Only for CD)
Alert Subject Text	*DFT

Adding new task
Update

The settings should be filled in as follows:

- | | |
|----------------------|---|
| Audit Code | Select the type of audit monitor that you want from the list displayed. |
| Check Intervals | Enter the number of minutes to indicate how frequently you want this audit monitor to check for activity. |
| Notification Address | See the Notification Address(s) section of this manual on page 6. |
| Start option | *RESTART - will start fresh with checking current activity.
*RESUME - will pickup where the last monitor task ended. |

Attachment format	*TXT - an email alert will include an attachment in text format reporting some of the details for the event(s) monitored. *CSV - an email alert will include an attachment in CSV format reporting details for the event(s) monitored. This option is currently only available for audit code CD (Command line use).
Alert Subject Text	iEventManager will issue an alert with the default subject text if you leave this set to *DFT. If you want a unique alert subject text used, enter that value here and it will be used if an alert is issued.

Press the Update button to add/update this monitor when you are ready. The values entered will be edit checked. If any errors are found, this panel will be shown again with an appropriate error message. If all settings are acceptable, then the monitor will be added and the initial display will be shown again. The new monitor will appear as [Inactive](#). It can then be started from the initial display.

If you select it from the initial display, it will be shown on this panel with all of the current values. If the task is shows as [Inactive](#), then you can make changes to any settings and press the Update button to record the changes. Another option, [Remove This Task](#), will be shown on this panel that will let you remove the watch from the list running on your system. Selecting the remove option will delete the watch and bring you back to the Initial Display.

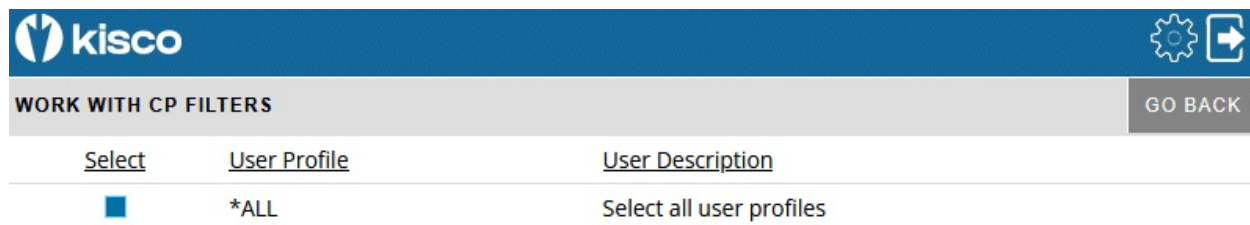
Filtering CP Audit Monitor Users

You can control how the CP audit (User profiles changed, created or restored) results in alerts being issued. Some customers may only want to receive these alerts for specific user profiles and ignore the alerts for others. This feature lets you set up filtering based on user profile.

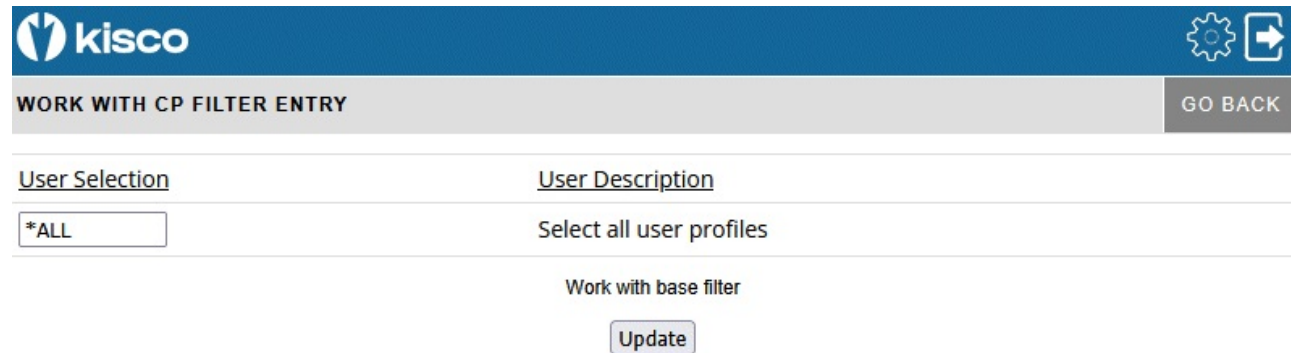
To work with these filters, you will first need to create a CP audit code watch. Once it has been created, bring it up to work with the watch settings and a new gray box will be available at the top of the panel:



When you click on the CP FILTERS box, the following panel will appear:



When first installed, the panel will appear as above. This is the default setting and will cause the CP audit monitor to include all user profiles that are reported to the system security journal. If you want to implement filtering, click on the blue “Select” box to the left of the entry and the following will be shown:



User Selection	User Description
*ALL	Select all user profiles

Work with base filter

Update

The CP filter supports two special values as follows:

- *ALL All user profiles will be included for alerting purposes.
- *SUPER Only super user profiles, those with *ALLOBJ and/or *SECADM will result in alerts being issued. All other CP audit alerts will not have alerts issued.

If you use either of the above special values, no other profiles may be entered. If you want to enter specific user profiles, the initial entry must be changed to a specific user profile.. After this has been changed, when you return to this feature, a new button at the top of the panel will appear that will let you enter additional user profiles:



WORK WITH CP FILTERS	ADD USER	GO BACK
----------------------	----------	---------

When a value other than *ALL has been implemented, only the user profiles that qualify will have CP audit alerts issued. All others will be suppressed.

ASP% Disc Space Watch - AS

This task can be used to start up to three special watch functions that will monitor disc space utilization changes. The ASP % (Auxilliary Storage Pool) represents the amount of disc space that has been used. On the IBM i system, if this percentage reaches 100%, the system can abnormally terminate all processing, so it is critical that you know when this percentage is making unplanned changes.

The Interval ASP Watch function will periodically check on the ASP % for your system and when it changes by a rate that you set, an alert will be issued advising you of the change and reporting the new ASP % rate for you. This will let you react well in advance of a catastrophic event on your system. Alternately you start one or two Level ASP Watch Functions that will issue alerts when the ASP% exceeds specific given levels.

When you select to add a new ASP% Disc Space Watch, or when you check how a current watch is configured, the following panel will be shown:

kisco		⚙️ ➡️
ADD ASP WATCH		GO BACK
<u>Field Description</u>	<u>Field Contents</u>	
Auxiliary Storage Pool Number	001 - 001-255 (001=System)	
Notification Address	*DFTID	
Check Interval	15 - Minutes	
Percentage Change	05 - % difference or set %	
Watch Type	☒ *INT - % change ☐ *LVL1 - level 1 reached ☐ *LVL2 - level 2 reached	
Alert On	☒ *BOTH - both increase and decrease ☐ *INCR - on increase only ☐ *DECR - on decrease only	
Reminder Minutes	000 - 000-999 (Only for *LVL1 or LVL2)	
Alert Subject Text	*DFT *DFT	
Exit Program / Library	*NONE / *LIBL	
Send alerts when using exit?	☐ *NO ☒ *YES	
Adding new task		
Update		

The settings should be filled in as follows:

Auxiliary Storage Pool Number	Enter the ASP number that you want to watch. ASP number 001 is the default system ASP. This value must be entered as a 3 digit number in the range of 001 - 255. If you are setting an ASP Watch, we recommend that you always include ASP #001 which is the system ASP. ASP numbers greater than 032 are iASP's
Notification Address	See the Notification Address(s) section of this manual on page 6.
Check interval	Enter the interval in minutes. This tells iEventManager how frequently you want the system to check the current status of the ASP (disc) utilization.
Percentage change	For an Interval Watch, enter the percentage change that you want to be notified about. The default value is 5%. Using this value, when the utilization on the ASP increases or decreases by 5%, a notice will be issued. If you need to react to a problem on your system, this should provide you with some advance warning. For a Level Watch, set the specific ASP% level you want an alert issued for. For example, if you want an alert when the ASP% reaches 70% and another when it reaches 85%, set the *LVL1 (see below) to 70 and the *LVL2 to 85.
Watch type	Select one the the following. Only one watch of each type can be started: *INT An Interval Watch will be started. *LVL1 The first Level Watch will be started. *LVL2 The second Level Watch will be started.
Alert On	This option controls how the *INT watch type works. Choose one of the following values: *INCR Whenever the disc utilization increases by the given percentage, an alert will be issued. *DECR Whenever the disc utilization decreases by the given percentage, an alert will be issued. *BOTH Whenever the disc utilization either increases or decreases
Reminder Minutes	When using the *LVL1 or *LVL2 Watch Type, you can ask iEventManager to send a reminder alert if the over level condition is not corrected after a period of time. If you do not want a reminder, leave this set to zero. Otherwise, enter the number of minutes before you want a reminder alert issued if the over limit situation has not

been resolved. When using this option, keep in mind that the Check Interval setting will still control how often the level is checked. So, if you have the Check Interval set to 15 minutes and Reminder Minutes set to 25 minutes, the watch will check every 15 minutes.

Alert Subject Text iEventManager will issue an alert with the default subject text if you leave this set to *DFT. If you want a unique alert subject text used, enter that value here and it will be used if an alert is issued.

Exit Programs If you have an Enterprise license for iEventManager, then you can use the exit program features on this task. See the chapter on [Exit Programs](#) to see how this can be used.

Press the Update button to add/update this watch when you are ready. The values entered will be edit checked. If any errors are found, this panel will be shown again with an appropriate error message. If all settings are acceptable, then the monitor will be added and the initial display will be shown again. The new monitor will appear as **Inactive**. It can then be started from the initial display.

If you select it from the initial display, it will be shown on this panel with all of the current values. If the task is shows as **Inactive**, then you can make changes to any settings and press the Update button to record the changes. Another option, [Remove This Task](#), will be shown on this panel that will let you remove the watch from the list running on your system. Selecting the remove option will delete the watch and bring you back to the Initial Display.

Data Queue Watch - DQ

Data queues are used on the IBM i platform to quickly and efficiently transfer data from one application to another in small amounts. When data arrives at a queue, an application is normally monitoring for the data and should, normally, pick that data up and process it, removing it from the queue in the process. If a data queue gets backed up because an application is not running or for some other problem, this could affect your system. iEventManager includes a watch for data queues and will issue an alert if unprocessed entries pile up in the queue.

When you select to add a Data Queue Watch, or when you check how the current watch is configured, the following panel will be shown:

Field Description	Field Contents
Data Queue Watch Name	- Unique name
Data Queue / Library to Monitor	/ *LIBL - Name
Notification Address	*DFTID
Check Interval	15 - Seconds (2-99)
Entry Count Threshold	025 - # Entries (1-999)
Reminder Option	*NONE - *NONE, Minutes (1-240)
Alert Subject Text	*DFT
Exit Program / Library	*NONE / *LIBL
Send alerts when using exit?	☐ *NO ☒ *YES

Adding new task

To start a Data Queue Watch, fill in the settings on the initial display panel as follows:

Data Queue Watch Name	Enter a unique name that will be assigned to this data queue watch task. This name will be used as part of the watch job name with the letters "DQ" added before it. It will also be used when ending the job queue watch.
Data Que / Library to Monitor	Enter the name of the data queue and library that you want to watch.
Notification address	See the Notification Address(s) section of this manual on page 6.
Check interval	Enter a value, in seconds, that indicates how frequently you want to check the data queue entries. The default value is 15 second but you can specify as low as 1 and as high as 999, but

15 second is a good setting to start with.

Entry Count Threshold

Enter the number of data queue entries that you want checked. When the number of entries in the data queue exceeds this value during a check cycle, an alert notice will be issued.

Reminder Option

This value controls whether iEventManager will send out a reminder alert after a period of time if the data queue over threshold situation continues to exist.

Choose one of the following values:

***NONE** When set to *NONE, then each check cycle will issue an alert until the situation is resolved. (Not recommended)

1-999 If you enter a numeric value, then iEventManager will hold off on additional alerts until the number of minutes has passed. If the over threshold situation resolves itself, then no additional alerts will be issued.

Alert Subject Text

iEventManager will issue an alert with the default subject text if you leave this set to *DFT. If you want a unique alert subject text used, enter that value here and it will be used if an alert is issued.

Exit Programs

If you have an Enterprise license for iEventManager, then you can use the exit program features on this task. See the chapter on Exit Programs to see how this can be used.

Press the Update button to add/update this watch when you are ready. The values entered will be edit checked. If any errors are found, this panel will be shown again with an appropriate error message. If all settings are acceptable, then the watch will be added and the initial display will be shown again. The new watch will appear as **Inactive**. It can then be started from the initial display.

If you select it from the initial display, it will be shown on this panel with all of the current values. If the task is shows as **Inactive**, then you can make changes to any settings and press the Update button to record the changes. Another option, Remove This Task, will be shown on this panel that will let you remove the watch from the list running on your system. Selecting the remove option will delete the watch and bring you back to the Initial Display.

Connection Watch - CN

iEventManager includes a feature that lets you watch for "foreign" systems connecting to your system via network connections. It allows you to define the specific IP addresses that are allowed to connect and only issues alerts when a system not authorized tries to establish a connection.

The Connection Watch includes an optional Exit Program feature. Using this exit program, you can code your own program to deal with questionable network connection attempts. There are no parameters in the call to your exit program, but when it starts running, a physical database file will be present in the QTEMP library named UTIL30. This file will contain one record for each IP address included in the current alert. Your exit program can take any additional actions you may want to take including cancelling the connection using the ENDTCPNN command. You will find a source physical file name QSAMPLE in the application library IEMLIB that contains a sample CL program named CNNEXIT that you can use to see how your own exit program might be implemented. We recommend that you develop and store your exit program in a library other than IEMLIB as a future upgrade from Kisco could remove your program from the system.

When you select to add a Connection Watch, or when you check how the current watch is configured, the following panel will be shown:





Field Description	Field Contents
Watch Name Name	CNNWATCH
Check Interval	15 - Minutes, 1-999
Alert Type	☒ *SUMMARY ☐ *DETAIL
Notification Address	*DFTID
Alert Subject Text	*DFT
Exit Program / Library	*NONE / *LIBL
Send alerts when using exit?	☐ *NO ☒ *YES

Adding new task

Before you start a Connection Watch, you should review the CONNECTIONS configuration. Select the CONNECTIONS gray box at the top of the panel and the following panel will be shown:

WORK WITH CONNECTIONS					ADD CONNECTION	GO BACK
Select	Starting IP Address	Ending IP Address	Created By	Date Created		
☐	10.242.1.1	10.242.1.11	RLOEBER	2023-01-23		
☐	127.0.0.1	127.0.0.1	QSECOFR	2020-08-13		

When the Connection Watch runs, it will check the active external connections to your system against this list and ignore any that are included in the list.

For example, if you define a range of IP addresses from 10.242.1.1 to 10.242.1.11 (as shown in the above example), then all of those addresses will be considered to be valid when they connect to your system. Any other addresses will result in an alert.

Note that the entry for 127.0.0.1 should be included in this list for all systems.

To add a new connection range, select the ADD CONNECTION gray box at the top of the panel.

kisco		⚙️ ➡️
ADD A CONNECTION		GO BACK
<u>Field Description</u>	<u>Field Contents</u>	
Starting IP Address		
Ending IP Address		
Created By		
Date Created		
Adding new location		
Update		

The Starting IP Address and Ending IP Address must be a valid range and expressed in standard numerical IP4 address format.

To start the Connection Watch, fill in the settings on the initial display panel as follows:

Check Interval	Enter a value that represents how often you want the Connection Watch to check for current connections as the number of minutes.
Alert Type	Controls the type of alerts that will be issued. Choose one of the following values: *SUMMARY Then the Connection Watch runs, if any questionable connections are found, then will be placed into a listing and sent as an email attachment. Kisco recommends that you use the *SUMMARY option when first starting to work with the Connection Watch feature. *DETAIL A separate alert notice will be issued for each questionable connection found when the Connection Watch runs. If none are found, no alert will be issued.
Notification address	See the Notification Address(s) section of this manual on page 6.
Alert Subject Text	iEventManager will issue an alert with the default subject text if you leave this set to *DFT. If you want a unique alert subject text used, enter that value here and it will be used if an alert is issued.
Exit program	If you want to call your own exit program during alert processing, enter the name of the program here. When a Connection Watch alert is issued, your program will be called for any additional processing that you may want to do. When your program is called, a database file will be available in the QTEMP library for the program session. The file will be named UTIL30. This file will contain one record for each IP address included in the current alert. Your exit program can take any additional actions you may want to take including cancelling the connection using the ENDTCPCNN command. You will find a source physical file name QSAMPLE in the application library IEMLIB that contains a sample CL program named CNNEXIT that you can use to see how your own exit program might be implemented. We recommend that you develop and store your exit program in a library other than IEMLIB as a future upgrade from Kisco could wipe your program from the system. If you do not want to call an exit program, use the default value of *NONE.
Exit program library	If you are using an exit program, enter the name of the library where your exit program is stored.
Send alerts when using exit?	When you use an exit program, you can use this option to suppress the alerts issued automatically by iEventManager. This could be done to

allow your exit program to decide whether or not the alert needs to be issued.

Press the Update button to add/update this watch when you are ready. The values entered will be edit checked. If any errors are found, this panel will be shown again with an appropriate error message. If all settings are acceptable, then the watch will be added and the initial display will be shown again. The new watch will appear as [Inactive](#). It can then be started from the initial display.

If you select it from the initial display, it will be shown on this panel with all of the current values. If the task is shows as [Inactive](#), then you can make changes to any settings and press the Update button to record the changes. Another option, [Remove This Task](#), will be shown on this panel that will let you remove the watch from the list running on your system. Selecting the remove option will delete the watch and bring you back to the Initial Display.

Digital Certificate Expiration - CX

Many customers use digital certificates generated using IBM's Digital Certificate Manager (DCM) to enforce security on their system. iEventManager allows you to set a watch that will run once a day to scan all certificates on your system and issue an alert when one or more is close to expiring. When a certificate expires, an application will just stop working and it is often difficult to identify why it is failing.

When you select to add a Digital Certificate Expiration Watch, or when you check how the current watch is configured, the following panel will be shown:

Field Description	Field Contents
Certificate selection	☒ *ALL ☐ *SELECT
Range To Check	7 - Days, 1-30
Notification Address	*DFTID
Time of Day	0600 - 0001-2359
Alert Subject Text	*DFT *DFT

Adding new task

Update

Fill in the parameters as follows:

- | | |
|-----------------------|---|
| Certificate selection | Choose one of the following options:
*ALL All certificates will be checked for expiration.
*SELECT Only the certificate that you have specified in the certificate selection process will be checked. |
| Range To Check | Enter a value that represents how many days until the expiration date that you want to receive an alert. |
| Notification address | See the Notification Address(s) section of this manual on page 6. |
| Time of Day | Enter time of day when you want this watch to run. When you start the watch, it will run immediately. Once it has been started, then it will run once per day at the time that you specify. |
| Alert Subject Text | iEventManager will issue an alert with the default subject text if you leave this set to *DFT. If you want a unique alert subject text used, enter that value here and it will be used if an alert is issued. |

Press the Update button to add/update this watch when you are ready. The values entered will be edit checked. If any errors are found, this panel will be shown again with an appropriate error

message. If all settings are acceptable, then the watch will be added and the initial display will be shown again. The new watch will appear as [Inactive](#). It can then be started from the initial display.

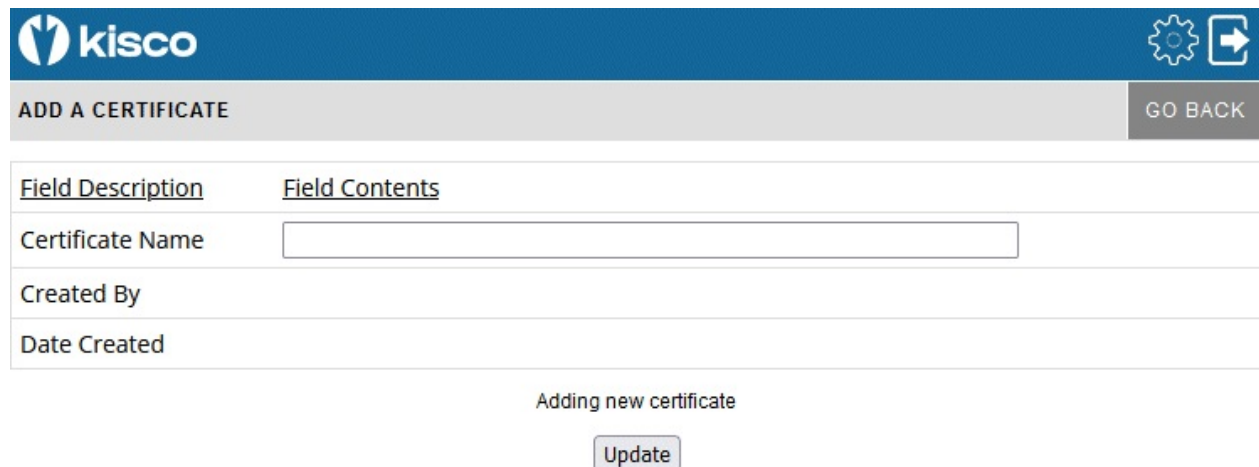
If you select it from the initial display, it will be shown on this panel with all of the current values. If the task is shown as [Inactive](#), then you can make changes to any settings and press the Update button to record the changes. Another option, [Remove This Task](#), will be shown on this panel that will let you remove the watch from the list running on your system. Selecting the remove option will delete the watch and bring you back to the Initial Display.

If you want to use the *SELECT option to only check specific certificates to be checked for expiration, use the CERTIFICATES gray button at the top of the panel. When you do, your current list of selected certificates will be shown:



Select	Certificate Name	Created By	Date Created
No certificates currently on file			

To add a certificate, use the ADD CERTIFICATE gray button. The following panel will be shown:



Field Description	Field Contents
Certificate Name	
Created By	
Date Created	

Adding new certificate

Enter the name of your certificate and press the update button to record it. Keep in mind that the certificate name is case sensitive.

You can also remove a certificate from the list. When the list of certificates is shown, click on the blue box to the left of the certificate to be deleted. The panel on the following page will be shown.





WORK WITH CERTIFICATE

GO BACK

<u>Field Description</u>	<u>Field Contents</u>
Certificate Name	MYCERTIFICATE
Created By	BLUESCAPE
Date Created	2024-04-12

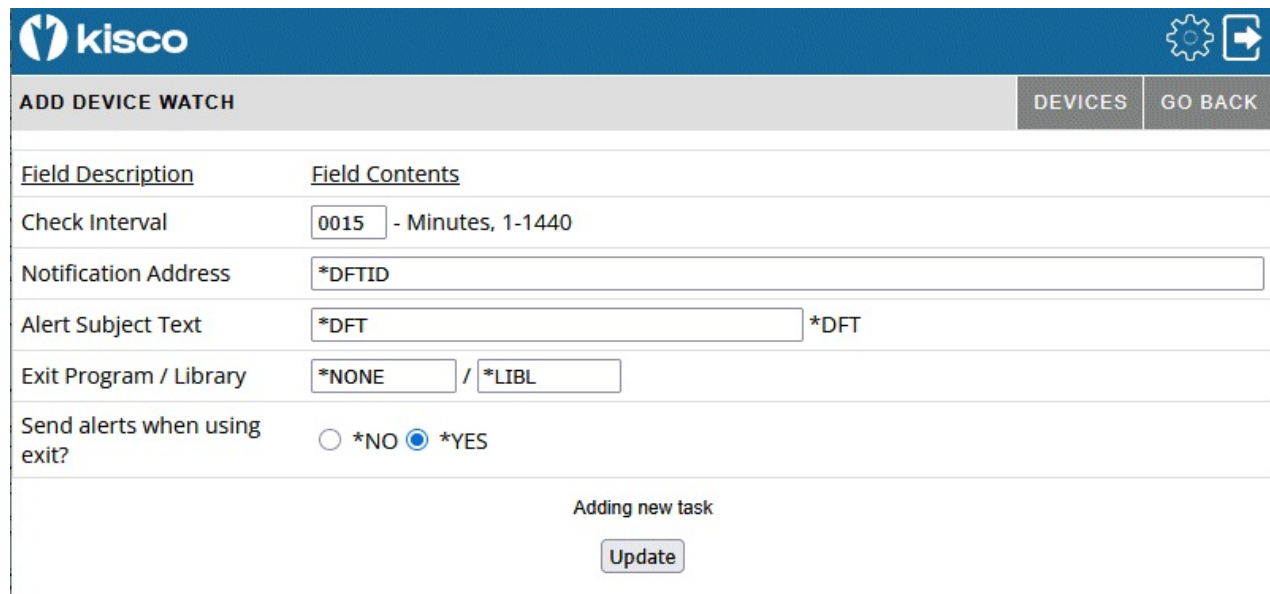
[Remove This Certificate](#)

To delete the certificate, click on the “Remove This Certificate” link.

Device Watch - DW

If you have specific physical devices on your system that must be active and available for use on a regular basis, iEventManager includes a watch to make sure that they are in an available status. iEventManager allows you to set a watch that will run periodically to check the device status. When a device is not available, an alert will be issued.

When you select to add a Device Watch, or when you check how the current watch is configured, the following panel will be shown:

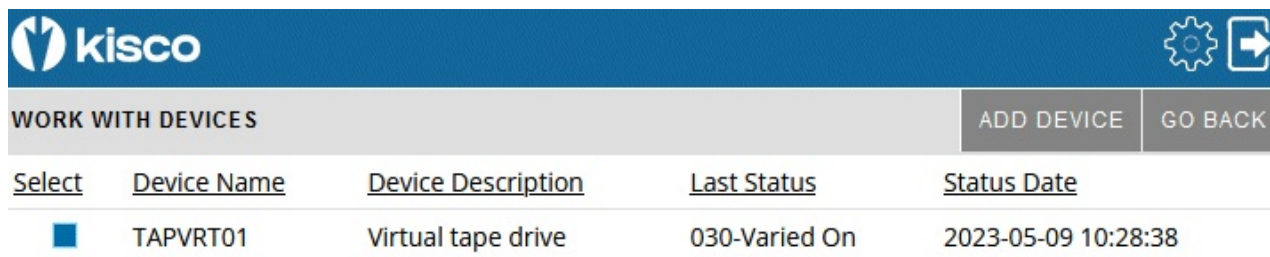


The screenshot shows the 'ADD DEVICE WATCH' panel. At the top is the Kisco logo and a settings icon. Below the header are two buttons: 'DEVICES' and 'GO BACK'. The main area contains a form with the following fields:

Field Description	Field Contents
Check Interval	0015 - Minutes, 1-1440
Notification Address	*DFTID
Alert Subject Text	*DFT *DFT
Exit Program / Library	*NONE / *LIBL
Send alerts when using exit?	☐ *NO ☒ *YES

Below the form, it says 'Adding new task' and there is an 'Update' button.

Before you can use this watch, you must first let iEventManager know which specific devices that you want to watch. This can be done by selecting the DEVICES gray button at the top of this panel. When you do, the following will be shown:



The screenshot shows the 'WORK WITH DEVICES' panel. At the top is the Kisco logo and a settings icon. Below the header are two buttons: 'ADD DEVICE' and 'GO BACK'. The main area contains a table with the following data:

Select	Device Name	Device Description	Last Status	Status Date
☒	TAPVRT01	Virtual tape drive	030-Varied On	2023-05-09 10:28:38

Any devices already registered are shown along with the last status that was detected for them and when that happened. To add a new device for monitoring, use the ADD DEVICE gray box at the top of the panel.

When the ADD DEVICE is selected, the following panel will be shown:

ADD A DEVICE	
Field Contents	
Device Name	
Device Description	
Latest Status	
Status Time Stamp	
Adding new device Update	

To add the new device, enter the device name and press the Update button. The new device name will be validated and then added. If the device name does not exist, an error will be reported.

Once you have your device or devices established, you can then start the Device Watch on the ADD DEVICE WATCH panel that started this process (see above).

Fill in the parameters as follows:

Check Interval	Enter a value that represents how often you want the Device Watch to run. The value entered will be the number of minutes.
Notification address	See the Notification Address(s) section of this manual on page 6.
Alert Subject Text	iEventManager will issue an alert with the default subject text if you leave this set to *DFT. If you want a unique alert subject text used, enter that value here and it will be used if an alert is issued.
Exit Programs	If you have an Enterprise license for iEventManager, then you can use the exit program features on this task. See the chapter on Exit Programs to see how this can be used.

Press the Update button to add/update this watch when you are ready. The values entered will be edit checked. If any errors are found, this panel will be shown again with an appropriate error message. If all settings are acceptable, then the watch will be added and the initial display will be shown again. The new watch will appear as **Inactive**. It can then be started from the initial display.

If you select it from the initial display, it will be shown on this panel with all of the current values. If the task is shows as **Inactive**, then you can make changes to any settings and press the Update button to record the changes. Another option, [Remove This Task](#), will be shown on this panel that will let you remove the watch from the list running on your system. Selecting the remove option will delete the watch and bring you back to the Initial Display.

Database File Monitor - FM

A Database File Monitor will “watch” an IBM i database file for selected types of process activity. You can configure your file monitor to look for record adds, record changes, record deletes, file opens or file record read processing. When any selected event occurs, iEventManager will send an alert with the details. You can specify for detailed information on each event or summary information after every *nth* event.

When you select to add a Database File Monitor, or when you check how the current watch is configured, the following panel will be shown:

Field Description	Field Contents
File Name/Library	/
File Description	
Monitor Type	☒ Detail ☐ Summary
Summary Threshold Level	000000000 - Only for Summary, alert every nth event
Monitored Events:	Insert- ☐ , Delete- ☐ , Update- ☐ , Read- ☐ , Open- ☐ Notes: Read not recommended, Open must be used alone
Notification Address	*DFTID
Only check between times	0000 and 0000
Exclude all day on:	Saturday - ☐ , Sunday - ☐

To start a Database File Monitor, fill in the settings on the initial display panel as follows:

- | | |
|-------------------------|---|
| File Name/Library | Enter the name of the file and library to be monitored. |
| Monitor Type | Select the type of monitor you want to set up

Detail - For every selected event, iEventManager will issue an alert.

Summary - iEventManager will issue a summarized alert each time the Summary Threshold has been reached. |
| Summary Threshold Level | For summary monitors only. Enter the number of events between alerts. |

Monitored Events: Check the file activity events that you want to include with this monitor.

Insert - Select if you want to monitor for records being added to the file.

Delete - Select if you want to monitor for records being deleted from the file.

Update - Select if you want to monitor for records being updated in the file.

Read - Select if you want to monitor for records being read from the file.

WARNING!! - We strongly advise that you NOT use a Read monitor when you are running a Detail monitor. This could easily result in an excessive number of alerts being issued and possible system and/or application degradation.

Open - Select if you want to monitor for the file being opened. When you use this option, the following additional restrictions apply:

- It can be the only option specified. Insert, Delete, Update and Read must NOT be selected.
- The Monitor Type must be set to **Summary**
- The Summary Threshold Level must be set to zero

You will receive a file alert whenever a user accesses the file. The alert will not be repeated until either of the following conditions occur:

- A different user accesses the file.
- The same user accesses the file after the date has changed.

Notification Address See the Notification Address(s) section of this manual on page 6.

Only check between times This is an optional entry. If you leave it set to zeros, there will be no restriction on the time of day when the monitor will run. If you want to limit the time period when the monitor will be active, enter the time span when you want the monitor to run. Two fields are provided to allow you to span the time period from midnight to the next morning.

Exclude all day on If you want the file monitor to be active on Saturday and Sunday, select the field for those days.

Press the Update button to add/update this monitor when you are ready. The values entered will be edit checked. If any errors are found, this panel will be shown again with an appropriate error message. If all settings are acceptable, then the monitor will be added and the initial display will be shown again. The new monitor will appear as **Inactive**. It can then be started from the initial display.

If you select it from the initial display, it will be shown on this panel with all of the current values. If the task is shown as [Inactive](#), then you can make changes to any settings and press the Update button to record the changes. Another option, [Remove This Task](#), will be shown on this panel that will let you remove the watch from the list running on your system. Selecting the remove option will delete the watch and bring you back to the Initial Display.

Job Queue Watch - JQ

For some customers, it is important that the job queues not get backed up with batch jobs that are not getting run. iEventManager allows you to set a watch on any job queue in the system. Once set, if the watched job queue exceeds the threshold of jobs waiting to run that you specify, an alert will be sent advising you of a potential issue. You can also be alerted when the job queue is placed on hold.

When you select to add a Job Queue Watch, or when you check how the current watch is configured, the following panel will be shown:

To start a Job Queue Watch, fill in the settings on the initial display panel as follows:





ADD JOB QUEUE WATCH
GO BACK

Field Description	Field Contents
Job Queue Watch Name	- Unique name
Job Queue / Library to Monitor	QBATCH / LIBL - Name, GENERIC* or *ALL
Notification Address	*DFTID
Check Interval	15 - Minutes (1-99)
Job Count Threshold	025 - # jobs (1-999)
Alert If On Hold?	☒ *NO ☐ *YES
Alert Subject Text	*DFT
Exit Program / Library	*NONE / LIBL
Send alerts when using exit?	☐ *NO ☒ *YES

Adding new task
Update

Job Queue Watch Name

Enter a unique name that will be assigned to this job queue watch task. This name will be used as part of the watch job name with the letters "IW" added before it. It will also be used when ending the job queue watch.

Job Que to monitor	Enter the name of the job queue and library that you want to watch or one of the following special values: *ALL All job queues in the specified library will be watched. A specific library name must be used when *ALL is specified. GENERIC* All job queues in the specified library with names that start with specified string will be watched. A specific library name must be used when *ALL is specified. When either of the special values is used, each job queue that qualifies will be watched. When ever any of these queues has an alert condition detected, an alert will be issued.
Notification address	See the Notification Address(s) section of this manual on page 6.
Check interval	Enter a value, in minutes, that indicates how frequently you want to check the job queue stack. The default value is 15 minutes but you can specify as low as 1 and as high as 999, but 15 minutes is a good setting to start with.
Job count threshold	Enter the number of jobs that you want to be advised about. When the job queue contains more than this number of jobs that are waiting to be run, an alert will be generated. This alert will be repeated at each check interval until either the monitor is stopped or the number of jobs waiting to run returns to a lower level.
Alert if on hold?	This value controls whether iEventManager will send out advisory alerts when this job queue is placed on hold. Select one of the following values: *NO No job queue on hold alerts will be issued. *YES An alert will be issued when this job queue is placed on hold. The alerts will continue until the job queue is released.
Alert Subject Text	iEventManager will issue an alert with the default subject text if you leave this set to *DFT. If you want a unique alert subject text used, enter that value here and it will be used if an alert is issued.
Exit Programs	If you have an Enterprise license for iEventManager, then you can use the exit program features on this task. See the chapter on <u>Exit Programs</u> to see how this can be used.

Press the Update button to add/update this watch when you are ready. The values entered will be edit checked. If any errors are found, this panel will be shown again with an appropriate error

message. If all settings are acceptable, then the watch will be added and the initial display will be shown again. The new watch will appear as [Inactive](#). It can then be started from the initial display.

If you select it from the initial display, it will be shown on this panel with all of the current values. If the task is shown as [Inactive](#), then you can make changes to any settings and press the Update button to record the changes. Another option, [Remove This Task](#), will be shown on this panel that will let you remove the watch from the list running on your system. Selecting the remove option will delete the watch and bring you back to the Initial Display.

Job Table Watch - JT

Your IBM i system only allows a fixed maximum number of jobs to exist on the system at any point in time. This is controlled by the system value QMAXJOB. The Job Table Watch can be used to periodically check your system to see if the total number of active jobs is approaching the system set maximum allowed. If the percentage entered is exceeded, an alert will be issued.

To start a Job Table Watch, fill in the settings on the initial display panel as follows:

Field Description	Field Contents
Notification Address	*DFTID
Check Interval	30 - Seconds (1-99)
Percentage Threshold	80 - Percentage Threshold
Reminder Minutes	060 - Minutes (0-999, zero=No reminder)
Alert Subject Text	*DFT
Exit Program / Library	*NONE / *LIBL
Send alerts when using exit?	☐ *NO ☒ *YES

Adding new task

Update

Notification address See the Notification Address(s) section of this manual on page 6.

Check Interval Enter a value, in seconds, that indicates how frequently you want to check the number of active jobs. The default value is 30 seconds but you can specify as low as 1 and as high as 99, but 30 seconds is a good setting to start with.

Percentage Threshold Enter the threshold percentage that you want to watch for. When the percentage of active jobs compared to the total allowed exceeds this threshold, an alert will be issued.

Reminder Interval When an alert has been issued, this option can be used to issue reminder alerts after the interval of time, in minutes, entered here. If you enter zero, then reminder alerts will not be issued and you will receive an alert every time this watch runs.

Alert Subject Text iEventManager will issue an alert with the default subject text if you leave this set to *DFT. If you want a unique alert subject text used, enter that value here and it will be used if an alert is issued.

Exit Program Feature If you have an Enterprise license for iEventManager, then you can use the exit program features on this task. See the chapter on [Exit Programs](#) to see how this can be used.

Press the Update button to add/update this watch when you are ready. The values entered will be edit checked. If any errors are found, this panel will be shown again with an appropriate error message. If all settings are acceptable, then the watch will be added and the initial display will be shown again. The new watch will appear as [Inactive](#). It can then be started from the initial display.

If you select it from the initial display, it will be shown on this panel with all of the current values. If the task is shows as [Inactive](#), then you can make changes to any settings and press the Update button to record the changes. Another option, [Remove This Task](#), will be shown on this panel that will let you remove the watch from the list running on your system. Selecting the remove option will delete the watch and bring you back to the Initial Display.

Job Name Watch - JW

iEventManager includes options for you to watch specific jobs on your system. The option lets you be notified when a job starts on your system, when a job ends or both. You can watch a specific job name started by a specific user profile or you can watch for a job name that you specify using a GENERIC* reference. For example, if you want to make sure that the FTP server stays active on your system, you can set a watch for the job name QTFTP* ending and, if the FTP server stops running for any reason, you will receive an alert from iEventManager.

When you select to add a Job Name Watch, or when you check how the current watch is configured, the following panel will be shown:





ADD A JOB WATCH
GO BACK

Field Description	Field Contents
Job Name to Watch	- Job Name or GENERIC*
User Profile	- Profile or *ALL
Watch Option	☒ *STRSTP - same as *BOTH but stays active (recommended) ☐ *LRUN - issue alert on long running job ☐ *NRUN - issue alert when job is not running ☐ *ONEND - issue alert when job ends (not recommended) ☐ *ONSTART - issue alert when job starts (not recommended) ☐ *BOTH - issue alert when job starts or ends (not recommended)
Check Interval	30 - Seconds 1-9999
Reminder Interval	00 - Minutes, 0-60 / Zero = no reminder - Only on *STRSTP
Run Time Check	0000 - Minutes, 0-1440 (*LRUN only)
Notification Address	*DFTID
Alert if on Hold?	☒ *NO ☐ *YES
Alert Subject Text	*DFT
Exit Program / Library	*NONE / *LIBL
Send alerts when using exit?	☐ *NO ☒ *YES

Adding new task

Update

To start a Job Name Watch, fill in the settings on the initial display panel as follows:

Job Name To Watch Enter the specific job name that you want to watch or enter a GENERIC* job name ending with an asterisk character (*). The watch task will as look for job names that qualify based on this name.

Note: If you start a GENERIC* job watch, be aware that the notification email will only be sent when there are no longer any jobs running that match the GENERIC* job name used. If you have several jobs running under a similar name and one ends but not all, you will not be notified.

User Profile Enter the specific user profile that started the job you want to watch or use the special value of *ALL to check for the job running under any user profile.

Watch Option Select the options offered:

***STRSTP** When you select this option, the job watch will check to see if the specified job (or jobs) is running. If it is currently running, then it will issue an alert when it ends. If it is currently not running, then an alert will be issued when it starts. In either case, the job watch will then stay active to report again if the job ends or starts.

Note: When you use the *STRSTP option, an additional setting applies. See “Alert if on Hold?” below.

***LRUN** The job watch will note when a job starts and then only issue an alert when the Run Time Check minutes have been exceeded. At that point, an alert will be issued indicating that the job is running longer than expected. If you select *LRUN, then the Run Time Check value cannot be set to zero.

***NRUN** The job watch will issue an alert when the job is not running. This can be used to alert when mission critical jobs are not running but should be running.

Note: When you use the *NRUN watch option, you must also specify a Reminder Interval.

***ONEND** Select this option to send an alert when the specified job has ended. This assumes that the task is currently running. When an alert is issued, this watch will then terminate.

***ONSTART** Select this option when you want an alert sent with the specified job starts. This assumes that the task is not currently running. When an alert is issued, this watch will then terminate.

***BOTH** Select this option to send an alert when the specified job starts and then again when it ends.

This assumes that the job is not currently running. Once both conditions have been met, the watch will terminate.

Check Interval	Enter how frequently you want to check for the job starting or ending, in seconds.				
Reminder Interval	This setting is only valid on a Job Watch where the *STRSTP or *NRUN option is being used. Enter the number of minutes that you want to lapse before a reminder alert is sent when the job being watched has stopped but not restarted yet. If you enter the value of zero, then no reminder alerts will be issued.				
Notification address	See the Notification Address(s) section of this manual on page 6.				
Run Time Check	This setting is only valid on a Job Watch where the *STRSTP or *LRUN option is being used along with a specific job name and a specific user profile. Enter the number of minutes that you want to lapse before a reminder alert is sent if the job in question starts and then does not end. This value should be your expected run time. The alert will advise you that the job is running longer than expected. A value of zero means that no alert will be issued.				
Alert if on Hold?	This option lets iEventMonitor issue an alert when the watched job is put on hold. This option is only available when the *STRSTP Watch Option is Selected and the job name being watched is not GENERIC*. Select one of the following options: *NO No alerts will be issued when the watched job is put on hold. *YES If the watched job is held, an alert will be issued. If it is subsequently released and then held again, a new alert will be issued.				
Alert Subject Text	The job watch allows you to use an alternate alert subject when reporting alerts. To use the standard subject, just leave the special value *DFT in place. To use an alternate subject text, enter up to 64 characters in this field. The field also supports three optional macro fields as follows: <table> <tr> <td>&SYSNAME</td><td>The system name will be used</td></tr> <tr> <td>&JOB_NAME</td><td>The job name that issued the message will be used</td></tr> </table>	&SYSNAME	The system name will be used	&JOB_NAME	The job name that issued the message will be used
&SYSNAME	The system name will be used				
&JOB_NAME	The job name that issued the message will be used				

&JOBNO

The job number that issued the message will be used if available.

Note: For the macros to work, they must be coded EXACTLY as shown in all upper case characters.

Exit Programs

If you have an Enterprise license for iEventMonitor, then you can use the exit program features on this task. See the chapter on Exit Programs to see how this can be used.

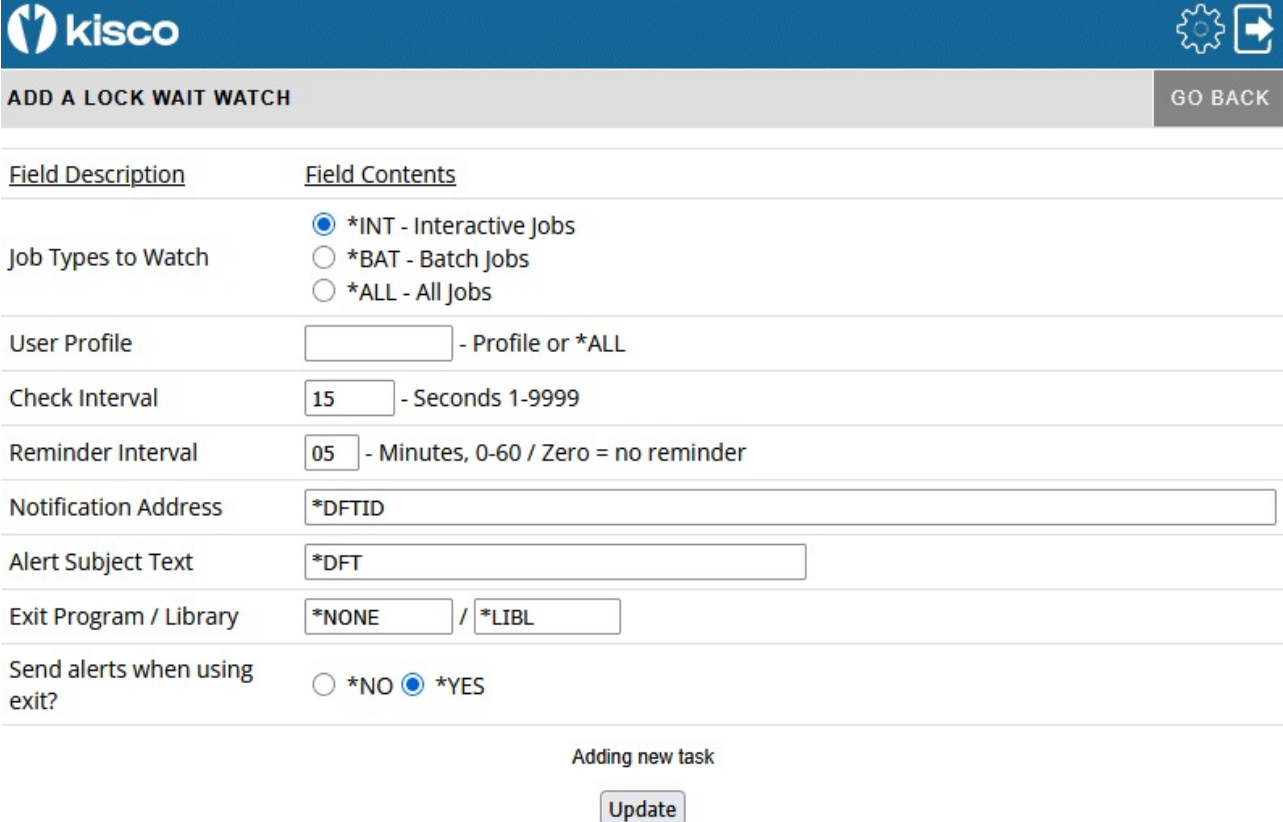
Press the Update button to add/update this watch when you are ready. The values entered will be edit checked. If any errors are found, this panel will be shown again with an appropriate error message. If all settings are acceptable, then the watch will be added and the initial display will be shown again. The new watch will appear as [Inactive](#). It can then be started from the initial display.

If you select it from the initial display, it will be shown on this panel with all of the current values. If the task is shows as [Inactive](#), then you can make changes to any settings and press the Update button to record the changes. Another option, [Remove This Task](#), will be shown on this panel that will let you remove the watch from the list running on your system. Selecting the remove option will delete the watch and bring you back to the Initial Display.

Lock Wait Watch - LW

This feature watches for Lock Wait status (LCKW) to be reported for a job running for the indicated type and user profile. Once the task has reported lock-wait status for a full interval specified, then an alert will be issued.

When you select to add a Lock Wait Watch, or when you check how the current watch is configured, the following panel will be shown:



Field Description	Field Contents
Job Types to Watch	☒ *INT - Interactive Jobs ☐ *BAT - Batch Jobs ☐ *ALL - All Jobs
User Profile	- Profile or *ALL
Check Interval	15 - Seconds 1-9999
Reminder Interval	05 - Minutes, 0-60 / Zero = no reminder
Notification Address	*DFTID
Alert Subject Text	*DFT
Exit Program / Library	*NONE / *LIBL
Send alerts when using exit?	☐ *NO ☒ *YES

Adding new task

To start a Lock Wait Watch, fill in the settings on the initial display panel as follows:

Job Types To Watch Indicates the type of jobs to be watched on your system.

Select from the following values:

***INT** Just check for lock waits on interactive jobs.

***BAT** Just check for lock waits on batch jobs.

***ALL** Check for lock waits on all jobs.

User Profile You can check for lock waits for a specific user profile or *ALL user profiles.

Check Interval Enter how frequently you want to check for jobs in lock wait status, expressed in seconds.

Reminder Interval	Enter the number of minutes that you want to lapse before a reminder alert is sent after an initial alert has been issued. If you enter the value of zero, then a reminder will be sent for each Check Interval value seconds that you have set in the previous parameter setting.
Notification address	See the Notification Address(s) section of this manual on page 6.
Alert Subject Text	iEventManager will issue an alert with the default subject text if you leave this set to *DFT. If you want a unique alert subject text used, enter that value here and it will be used if an alert is issued.
Exit Programs	If you have an Enterprise license for iEventManager, then you can use the exit program features on this task. See the chapter on <u>Exit Programs</u> to see how this can be used.

Press the Update button to add/update this watch when you are ready. The values entered will be edit checked. If any errors are found, this panel will be shown again with an appropriate error message. If all settings are acceptable, then the watch will be added and the initial display will be shown again. The new watch will appear as **Inactive**. It can then be started from the initial display.

If you select it from the initial display, it will be shown on this panel with all of the current values. If the task is shows as **Inactive**, then you can make changes to any settings and press the Update button to record the changes. Another option, [Remove This Task](#), will be shown on this panel that will let you remove the watch from the list running on your system. Selecting the remove option will delete the watch and bring you back to the Initial Display.

Message Queue Monitor - MQ

iEventManager lets you monitor any message queue on your system including the QSYSOPR system operator message queue. When a message arrives at the message queue that qualifies for an alert, iEventManager will issue an alert.

When you select to add a Message Queue Monitor, or when you check how a current monitor is configured, the following panel will be shown:

ADD A MESSAGE QUEUE MONITOR		EXCEPTIONS	OVERRIDES	GO BACK
Field Description	Field Contents			
Message Queue/Library	/ *LIBL			
Notification Address	*DFTID			
Severity Filter	00 - 00-99			
Send Start/Stop Notifications?	☒ *YES ☐ *NO			
Message Option	☒ *KEEP ☐ *RMV			
Reminder Alert Option	*NONE *NONE, 1-240 minutes			
Reminder Escalate?	☒ *NO ☐ *YES			
Include message time?	☒ *NO ☐ *YES			
Alert Subject Text	*DFT			
Exit Program / Library	*NONE / *LIBL			
Send alerts when using exit?	☐ *NO ☒ *YES			

Adding new task

Update

To start a Message Queue Monitor, fill in the settings on the initial display panel as follows:

Message Queue/Library	Enter the name of the message queue to be monitored along with the library where it is stored.
Notification address	See the Notification Address(s) section of this manual on page 6.

In addition, you can use the special value of *ROUTE, then the notification addresses will be determined by entries in the Route Table. Routes can be set up using the ROUTING gray box at the top of the panel. If the specific message ID does not find a match on the Route Table, then the *DFTID will be used.

Severity filter

Lets you ignore messages below a given severity level. For QSYSOPR, we recommend setting this value to 50. If you want to see every message, use the value 00.

Send Start/Stop Notifications?

Select the *YES option to sent out an alert when the message monitor is started and ended. Select *NO if you do not want these messages sent.

Message option

Select the default value *KEEP if you want to keep the message on the message queue after the alert has been sent. To cause these messages to be removed from the message queue, select the*RMV option.

Reminder Alert Option

This option tells iEventMonitor to issue reminder alerts when inquiry messages have been detected and they have not been responded to in a given period of time.

Choose one of the following values:

*NONE No reminder alerts will be issued.

1-240 A variable number of minutes between reminder alerts. iEventMonitor will wait for the number of minutes specified and then check to see if the message has been answered. If not, a reminder alert will be issued. The reminder alerts will be repeated until the message is answered or the job in question has ended.

Reminder Escalate?

When set to *YES and a reminder alert is issued, in addition to the default alert notification addresses, another set of alert addresses will also be used. Before using this, make sure that the "Escalation Notification Addr" setting is updated in the Global settings.

When set to *YES, any reminder alerts will be issued to the escalation addresses specified in the Global Settings in addition to the default notification addresses already set.

Include message time?

Select one of the following values:

*NO The message time from the message queue entry will not br shown in the alert.

***YES** The message time from the message queue entry will be shown in the alert. This may be useful for installations monitoring multiple systems across multiple time zones.

Alert Subject Text

The message queue monitor allows you to use an alternate alert subject when reporting message queue alerts. To use the standard subject, just leave the special value *DFT in place.

To use an alternate subject text, enter up to 64 characters in this field. The field also supports three optional macro fields as follows:

&MSGIDX	The message ID being alerted will be used
&SYSNAME	The system name will be used
&JOB_NAMEEX	The job name that issued the message will be used
&JOBNO	The job number that issued the message will be used
&JOBID	A 28 characters value will be substituted in the following format: nnnnnn/uuuuuuuu/jjjjjjjj job number/user/job name Make sure that you leave 22 positions following the &JOBID macro to allow for the values to be posted.
&SEV	The severity level of the message will be used

Note: For the macros to work, they must be coded EXACTLY as shown in all upper case characters.

Press the Update button to add/update this monitor when you are ready. The values entered will be edit checked. If any errors are found, this panel will be shown again with an appropriate error message. If all settings are acceptable, then the monitor will be added and the initial display will be shown again. The new monitor will appear as **Inactive**. It can then be started from the initial display.

If you select it from the initial display, it will be shown on this panel with all of the current values. If the task is shows as **Inactive**, then you can make changes to any settings and press the Update button to record the changes. Another option, [Remove This Task](#), will be shown on this panel that will let you remove the watch from the list running on your system. Selecting the remove option

will delete the watch and bring you back to the Initial Display.

User Exit Program Feature

The iEventManager message queue monitor includes the ability to call a user exit program when a message queue monitor is triggered. When a message is detected that meets the criteria for issuing an alert message, iEventManager will check to see if a user program has been specified. If there is one, then that program will be called before the alert is issued. An option is also included to suppress the alert notification from iEventManager if you want to stop the alert message from being sent.

When the user exit program is called, a single parameter is passed with a parameter length of 4,000 characters. The layout of the parameter is fixed as follows:

Start	End	Length	Description
1	10	10	Message Queue being monitored
11	20	10	Library name as specified in the start
21	24	4	Message key - binary value
25	31	7	Message ID
32	163	132	Message text
164	165	2	Severity level
166	245	80	Message sender - see IBM documentation for details - includes information about the job that generated the message
246	250	5	Message 2 length
251	3250	3000	Variable message text 2
3251	4000	750	Not used - reserved for future implementations

Three additional parameters are available when starting the monitor as follows:

Exit Program / Library Enter the name of the user exit program and library that you want to call. If you do not want to use an exit program, leave the special value of *NONE in place.

Send alerts when using exit? Select one of the following values:

*NO No alerts will be issued by iEventManager.

*YES iEventManager alerts will be issued as normal.

When a user exit program is specified, iEventManager will check to make sure it is a valid program in the library reference provided. If the program is valid, it is the user's responsibility to make sure that it completes successfully. iEventManager will check for a CPF0000 error and attempt to continue processing if one is issued from the exit program, but other errors could cause the monitor to fail. Kisco recommends extensive testing before putting a user exit program into full production use.

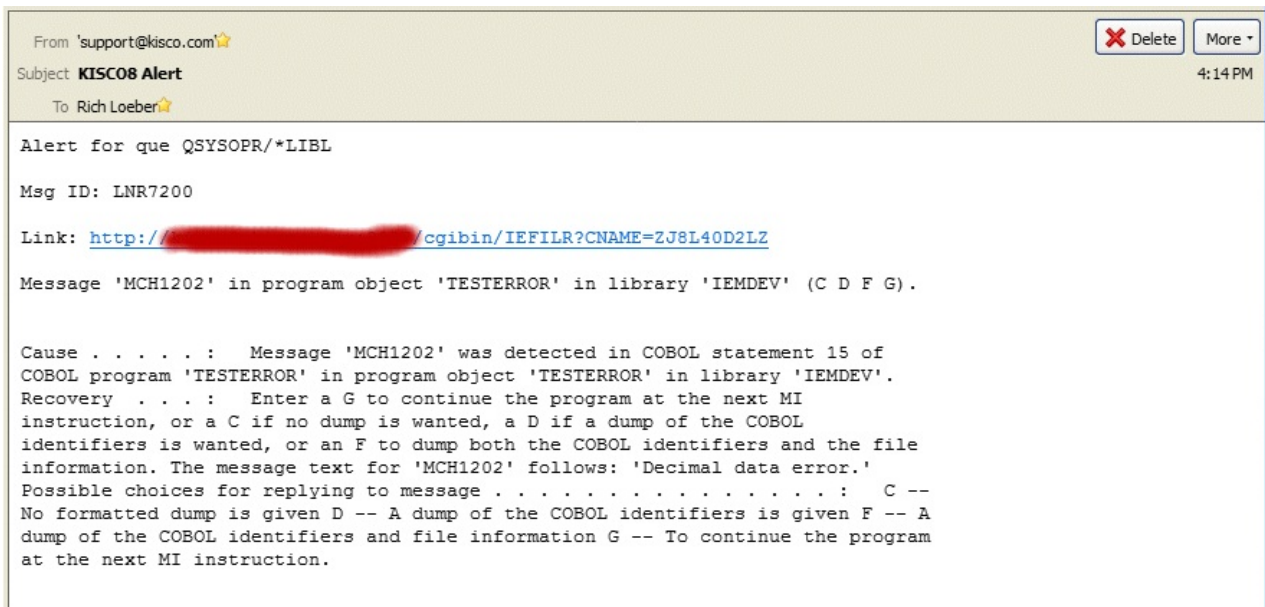
Suppressing Duplicate Message Queue Alerts

An active application on your system could get into a looping condition issuing identical messages to your monitored message queue in a very high volume over a short period of time. This could, in turn, result in iEventManager clogging your email system with unnecessary duplicate alerts. To avoid this situation, the message queue monitor will suppress such duplicate alerts within a given time period. When the software is initially installed, this default setting will be set to five minutes. The setting can be controlled from the Global Settings. Changing the setting to zero minutes will turn the suppression feature off.

Responding To Error Messages

You can use iEventManager to respond to error messages. This feature can be activated in the Global Settings controls. When active, if a message is received at a message queue that calls for a response, an HTTP link will be included in the alert issued from iEventManager. When you follow this link, either from an email message or a text message, a web page will be shown that will provide details about the error message.

A typical email message might look like this:



See the next page for more information.

When you click on the link, the following web page will be shown:



iEventMonitor Respond

<u>Info.</u>	<u>Value</u>
Message Queue	QSYSOPR - *LIBL
Message ID	LNR7200
Message Text	Message 'MCH1202' in program object 'TESTERROR' in library 'IEMDEV' (C D F G).
Extended Text	Cause : Message 'MCH1202' was detected in COBOL statement 15 of COBOL program 'TESTERROR' in program object 'TESTERROR' in library 'IEMDEV'. Recovery . . . : Enter a G to continue the program at the next MI instruction, or a C if no dump is wanted, a D if a dump of the COBOL identifiers is wanted, or an F to dump both the COBOL identifiers and the file information. The message text for 'MCH1202' follows: 'Decimal data error.' Possible choices for replying to message : C -- No formatted dump is given D -- A dump of the COBOL identifiers is given F -- A dump of the COBOL identifiers and file information G -- To continue the program at the next MI instruction.
Job Name	TESTERROR
User Profile	QSECOFR
Job Number	100044
Date & Time	02/02/2022 13:16:11

[View Joblog](#)

Answer Message:

Send

On this web page, you can click on the “View Joblog” to see the joblog for the error message. This may be important to view before you answer the message. Once you have decided what the proper response for the message is, just enter it in the box at the bottom of the page and press the Send button. The message will be answered on your system.

If a problem occurs while processing your message response, you may receive an error feedback display. Errors that can occur include:

- This link is no longer available for use - indicates that the link has already been cleared from the system. All links are cleared on your system whenever iEventMonitor is restarted using the STRIEM command.
- Blank reply not processed - the message answer was left blank.
- Reply not processed, already answered - the message was answered already by a local source

on your system.

- Reply not processed, message now gone - the message is no longer available to be answered.
- Your error respond session has encountered an internal error - indicates an internal error of some kind. If this happens, contact Kisco Systems.

Note: If you want to respond to an error message based on a text message to your cell phone, this is possible with certain conditions taken into effect. Keep in mind that the amount of information included in a text is limited to a fixed number of characters for most text services. To limit the number of characters on the text, please consider the following:

- In the Global Settings, keep the text entries for the following setting as short as possible:
 - Change the “Text Friendly Alerts?” setting to *YES
 - Support Name Description
 - Default Alert Subject
 - IEM Browser Respond IP
- Also in the Global Settings, specify *NO for Include Job Info in Alert?
- When you configure the message queue monitor, specify *NO for Include message time?

These steps will result in a shorter text message and provide you with a useable link to follow. When you do follow the link, all of the information about the error, including the joblog, will be available.

Message Routing

Your installation may want alerts issued to specific individuals for specific messages posted to a monitored message queue. The Message Routing process in iEventManager allows you to set this up. Routing instructions are message queue specific. To see if there are any routings in effect, select the gray button at the top of the panel marked ROUTING. The following panel will be shown:



If any routings already exist for this message queue monitor, they will be shown and can be selected for maintenance and review purposes. To add a new routing, select the ADD ROUTING gray button at the top of the panel.

The following panel will be shown to add a new routing instruction:





ADD A MESSAGE QUEUE ROUTING
GO BACK

<u>Field</u>	<u>Field Contents</u>
Message Queue / Library	QSYSMSG / *LIBL
Routing Type	☒ *MSG ☐ *JOB ☐ *USER
Routing Set	- Message ID, Job Name, User Profile
Notification Address	*DFTID
Alert Subject Text	*DFT
Date Added	2025-09-10
Added By	IEMREMOTE

Adding new routing

Update

Fill in the fields as follows:

Routing Type	Choose one of the following values:
*MSG	The alert will be routed based on the message ID that arrives at the message queue
*JOB	The alert will be routed based on the job name associated with the message
*USER	The alert will be routed based on the user profile associated with the job that issued the message
Routing Set	This is a variable field and depends on the Routing Type that you select, as follows:
*MSG	Enter the message ID that you want this routing to apply to. The message ID must be in standard 7 character IBM i OS message format of AAAXXXX.

IEventMonitor will accept a message ID with an asterisk as a wild card character. For example, if you enter a value of ABC*, then any message that is received that starts with ABC will be routed using this routing rule. If you want to exclude just the ABC messages that start with 1, use ABC1*. You may not use the * character in the first three positions of this parameter.

- *JOB Enter a job name or a GENERIC* job name. When an alert is to be issued, if the job name for the job that issued the message matches this Routing Set, then the alert will be issued using the notification address here.
- *USER Enter a user profile. When an alert is to be issued, if the user associated with the job that issued the message matches this Routing Set, then the alert will be issued using the notification address here.

Notification Address See the Notification Address(s) section of this manual on page 6.

Alert Subject Text Enter a specific alert subject that you want for this routing. If you want to use the standard default alert subject, use the special value *DFT.

Press the Update button to add/update this routing when you are ready. The values entered will be edit checked. If any errors are found, this panel will be shown again with an appropriate error message. If all settings are acceptable, then the routing will be added and the initial display will be shown again.

If you select it from the initial display, it will be shown on this panel with all of the current values. Another option, [Remove This Routing](#), will be shown on this panel that will let you remove the routing. Selecting the remove option will delete the routing and bring you back to the Initial Display.

Message Exceptions

The iEventMonitor message queue monitor allows you to ignore specific messages from processing by the monitor for a specific message queue. Using this feature, you can select to ignore messages for paper changes on printers and other hardware related situations. You can set these up using the EXCEPTIONS gray box at the top of the panel.

When you select this option, a list of current exceptions will be presented:

WORK WITH MQ EXCEPTIONS						ADD EXCEPTION	GO BACK
Select	Message Que	Library	Message ID	Sev	Note		
☐	QSYSOPR	*LIBL	CPC1125	50	Ending FTP Server		
☐	QSYSOPR	*LIBL	CPC1126	50	Controlled end to http server		

You can change an existing setting by selecting it or you can add a new exception by selecting the ADD EXCEPTION box at the top of the panel. Either selection will show the following panel:

ADD A MESSAGE QUEUE EXCEPTION		GO BACK
Field Description	Field Contents	
Message Queue Name	QSYSOPR - Message Queue Name	
Message Queue Library	*LIBL - Library Name	
Message ID		
Optional Note		
Date Added	2023-03-14	
Added By	RLOEBER	
Adding new exception		
Update		

Complete the fields as follows:

Message ID	Enter the 7 character message ID that you want to ignore. If you want to ignore a range of messages, this parameter works the same as the IBM i OS MONMSG command. If you want to ignore all errors that
------------	--

start with ERR1, use the value ERR1000. To ignore all ERR messages, use ERR0000.

Note Enter any descriptive information for the entry that you want.

Press the Update button to add/update this exception when you are ready. The values entered will be edit checked. If any errors are found, this panel will be shown again with an appropriate error message. If all settings are acceptable, then the exception will be added and the initial display will be shown again.

If you select it from the initial display, it will be shown on this panel with all of the current values. Another option, [Remove This Exception](#), will be shown on this panel that will let you remove the routing. Selecting the remove option will delete the routing and bring you back to the Initial Display.

Message Overrides

iEventManager also has additional controls that allow for flexibility to the message queue monitor function. These add controls by job name, user profile, program name and time.

With these options, you can override the control by message severity and have iEventManager either always alert messages that arrive at the message queue or always suppress the alert. The criteria used can be the user profile that sent the message, the job name that sent the message, the name of the program that sent the message or a time override on repeating a message. In each category, you can instruct iEventManager to either always alert messages that match or never alert messages that match.

When iEventManager checks for these overrides, it will always check for the user profile first, then the job name and lastly the program name. If any override is found, the first one found will apply. If



no overrides are found, then the logic of using the message severity code will apply and the message ID will be checked against the Message ID Control table. You can set these up using the OVERRIDES gray box at the top of the panel.

When you select this option, a list of current overrides will be presented:

You can change an existing setting by selecting it or you can add a new exception by selecting the ADD EXCEPTION box at the top of the panel.

Either selection will show the following panel:





WORK WITH MSG QUEUE OVERRIDE
GO BACK

Field Description	Field Contents
Message Queue Name	QSYSOPR - Message Queue Name
Message Queue Library	*LIBL - Library Name
Override Type	☒ *JOB ☐ *USER ☐ *PGM ☐ *TIME
Override Set	- User Profile, Job Name, Program Name
Message ID	*ALL - Message ID or *ALL
Override Code	☒ Always ☐ Combined ☐ Time ☐ Exclude
Description	
Delay Minutes	0 - 1-1440 (Only for *TIME)
Date Added	2023-03-14
Added By	RLOEBER

Adding new override

Complete the fields as follows:

- Override Type Select one of the values as follows:
- *JOB - The override set is a job name
 - *USER - The override set is a user profile
 - *PGM - The override set is a program name
 - *TIME - The override set is for a time delay on repeated messages
- Override Set Enter the override set to be checked against the message received. If you entered *USER above, enter the user profile here. If *JOB, enter the job name. If *PGM, enter the program name.

Message ID	Enter the value *ALL for most entries. If you want to override a specific message ID handling for a given job (Override Type *JOB), then you can enter that message ID here. For example, if you want to suppress just a given error message from a job, you can do that here. To suppress all messages from a given job, use the *ALL value.	
Override Code	Select one of the values as follows:	
	Always	Always alert the qualifying message
	Combined	Combines Always alert with message ID Exceptions. If the message should always be reported but there is an active ID Exception for it, it will be suppressed.
	Time	Use this value for a time exception. See also the “Delay Minutes” setting below.
	Exclude	Never alert the qualifying message
Override Description	Enter your own description for the override condition.	
Delay Minutes	For a Time exception, enter the number of minutes that you want to suppress the message for. This will prevent a regularly occurring message from being alerted over and over. A value of 1 to 1440 may be entered.	

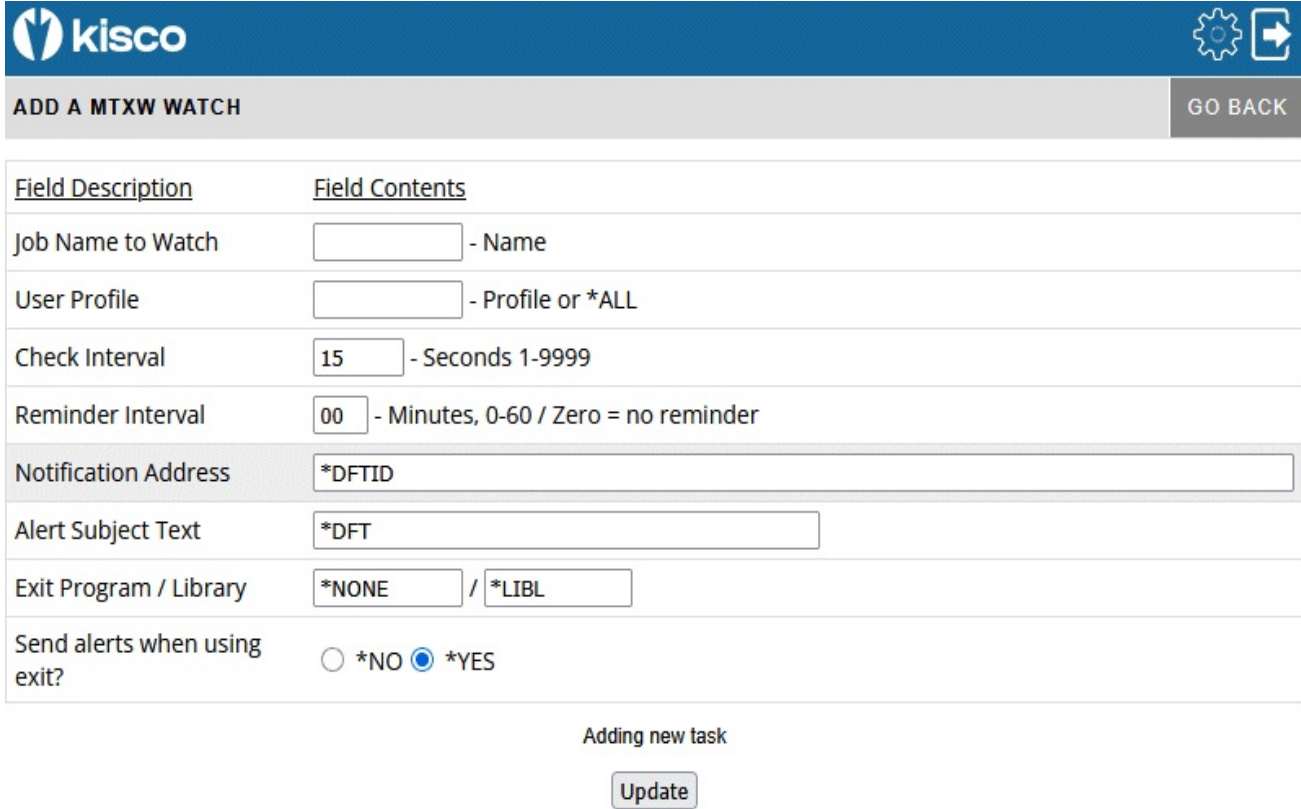
Press the Update button to add/update this override when you are ready. The values entered will be edit checked. If any errors are found, this panel will be shown again with an appropriate error message. If all settings are acceptable, then the override will be added and the initial display will be shown again.

If you select it from the initial display, it will be shown on this panel with all of the current values. Another option, [Remove This Override](#), will be shown on this panel that will let you remove the routing. Selecting the remove option will delete the routing and bring you back to the Initial Display.

Mutex-Wait Watch - MX

This feature watches for Mutex Wait status (MTXW) to be reported for a specified job running for a specific user profile. Once the task has reported MTXW status for a full interval specified, then an alert will be issued.

When you select to add a Mutex-Wait Watch, or when you check how a current watch is configured, the following panel will be shown:



Field Description	Field Contents
Job Name to Watch	- Name
User Profile	- Profile or *ALL
Check Interval	15 - Seconds 1-9999
Reminder Interval	00 - Minutes, 0-60 / Zero = no reminder
Notification Address	*DFTID
Alert Subject Text	*DFT
Exit Program / Library	*NONE / *LIBL
Send alerts when using exit?	☐ *NO ☒ *YES

Adding new task

To start a Mutex-Wait Watch, fill in the settings on the initial display panel as follows:

Job Name To Watch	Enter the specific job name that you want to watch. If there are multiple jobs with the same name, all of them will be watched.
User Profile	Enter the specific user profile that started the job you want to watch. If you want to watch all instances of the requested job name, use the special value of *ALL .
Check Interval	Enter how frequently you want to check for the job showing the MTXW status, in seconds. The default value of 15 seconds is a good starting point.
Reminder Interval	Enter the number of minutes that you want to lapse before a reminder alert is sent after an initial alert has been issued. If you enter the value of zero, then no reminder alerts will be

	issued.
Notification address	See the Notification Address(s) section of this manual on page 6.
Alert Subject Text	iEventManager will issue an alert with the default subject text if you leave this set to *DFT. If you want a unique alert subject text used, enter that value here and it will be used if an alert is issued.
Exit Programs	If you have an Enterprise license for iEventManager, then you can use the exit program features on this task. See the chapter on <u>Exit Programs</u> to see how this can be used.

Press the Update button to add/update this watch when you are ready. The values entered will be edit checked. If any errors are found, this panel will be shown again with an appropriate error message. If all settings are acceptable, then the watch will be added and the initial display will be shown again. The new watch will appear as **Inactive**. It can then be started from the initial display.

If you select it from the initial display, it will be shown on this panel with all of the current values. If the task is shows as **Inactive**, then you can make changes to any settings and press the Update button to record the changes. Another option, [Remove This Task](#), will be shown on this panel that will let you remove the watch from the list running on your system. Selecting the remove option will delete the watch and bring you back to the Initial Display.

Network Location Watch - NW

iEventManager's network location watch can issue an alert when a connection that you depend on is not working or is reporting lost packets or other interruptions.

When you select to add a Network Location Watch, or when you check how a current watch is configured, the following panel will be shown:

Field Description	Field Contents
Network Location Name	
Check Interval	15 - Minutes, 1-1440
Reminder Interval	0 - Minutes, 0-60
Number of Pings	3 - 1-5
Notification Address	*DFTID
Alert Subject Text	*DFT
Exit Program / Library	*NONE / *LIBL
Send alerts when using exit?	☐ *NO ☒ *YES

Adding new task

To start a Network Location Watch, fill in the settings on the initial display panel as follows:

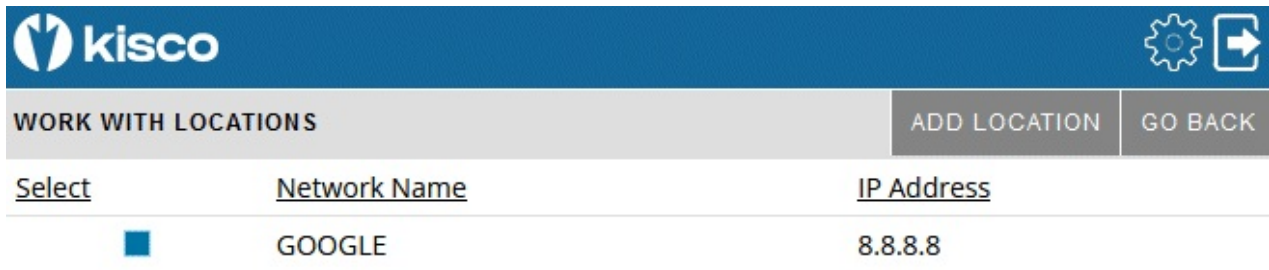
Network Location Name	Enter the 8 character network name that was created in the Network Locations list. A Network Watch can only be run for a location established on this list. See the following section of this manual for details on how to create a location.
Check Interval	Enter how frequently you want iEventManager to check the network connection in minutes.
Reminder Interval	If you want delayed reminders issued when a problem is found, enter that delay time here in minutes. An entry of zero will cause the alerts to be re-issued based on the Check Interval setting.
Number of Pings	Enter the number of remote pings that you want iEventManager to use when checking the network connection. We recommend

	a minimum setting of at least 2.
Notification address	See the Notification Address(s) section of this manual on page 6.
Alert Subject Text	iEventManager will issue an alert with the default subject text if you leave this set to *DFT. If you want a unique alert subject text used, enter that value here and it will be used if an alert is issued.
Exit Programs	If you have an Enterprise license for iEventManager, then you can use the exit program features on this task. See the chapter on Exit Programs to see how this can be used.

Press the Update button to add/update this watch when you are ready. The values entered will be edit checked. If any errors are found, this panel will be shown again with an appropriate error message. If all settings are acceptable, then the watch will be added and the initial display will be shown again. The new watch will appear as [Inactive](#). It can then be started from the initial display.

If you select it from the initial display, it will be shown on this panel with all of the current values. If the task is shows as [Inactive](#), then you can make changes to any settings and press the Update button to record the changes. Another option, [Remove This Task](#), will be shown on this panel that will let you remove the watch from the list running on your system. Selecting the remove option will delete the watch and bring you back to the Initial Display.

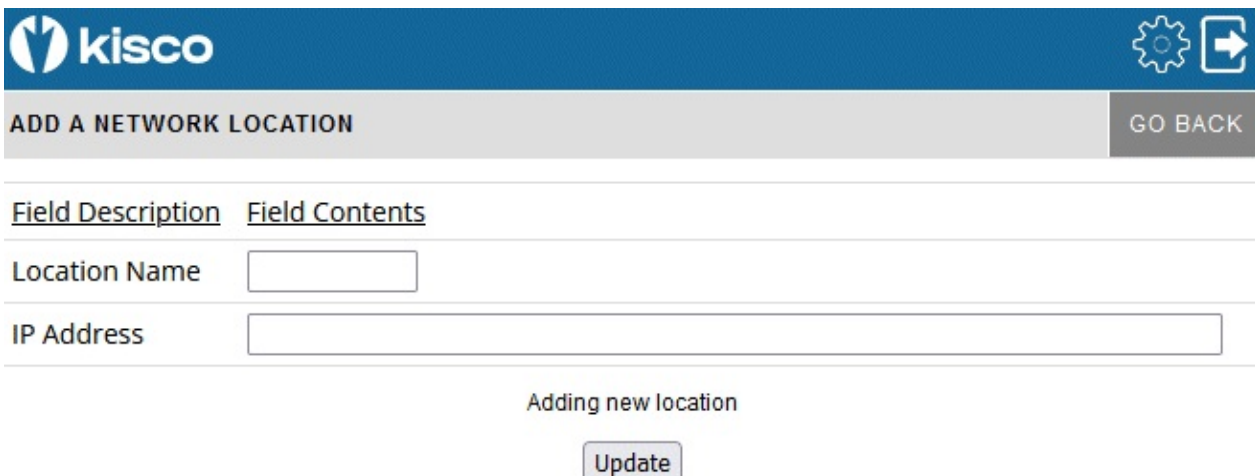
Before a network location can be watched, it has to be defined to iEventManager. On the Network Watch panel, select the gray LOCATIONS button at the top of the panel. The following will be shown:



The screenshot shows the Kisco Network Watch panel. At the top is a blue header with the Kisco logo and a settings icon. Below the header is a gray bar with the text "WORK WITH LOCATIONS" and two buttons: "ADD LOCATION" and "GO BACK". Below this is a table with three columns: "Select", "Network Name", and "IP Address". There is one row in the table with a blue square in the "Select" column, "GOOGLE" in the "Network Name" column, and "8.8.8.8" in the "IP Address" column.

Select	Network Name	IP Address
☐	GOOGLE	8.8.8.8

To review a current entry, select it using the blue box on the left side of the panel. To add a new location, select ADD LOCATION at the top of the panel. The following will then be shown:



The screenshot shows the Kisco Add Network Location panel. At the top is a blue header with the Kisco logo and a settings icon. Below the header is a gray bar with the text "ADD A NETWORK LOCATION" and a "GO BACK" button. Below this is a table with two columns: "Field Description" and "Field Contents". There are two rows in the table: "Location Name" and "IP Address". Each row has a text input field next to it. Below the table is a button labeled "Update".

Field Description	Field Contents
Location Name	
IP Address	

Adding new location

Update

When you add a record to the Network Location file, you assign a unique short, 8 character, name to the location and then associate that with a specific IP address. The IP address can be either a numeric address such as "10.1.2.3" or a named address such as companyname.com.

Enter the values as follows:

Network Name	Enter the unique 8 character name you have assigned to the network location to be monitored.
--------------	--

IP Address	Enter the IP address to be monitored.
------------	---------------------------------------

When you create an entry, the IP address will be validated. If the address cannot be validated, the entry cannot be completed.

Output Queue Watch - OQ

iEventManager can watch an output queue for unprocessed spool files in ready status. When the number of spool files exceeds a threshold value that you set, an alert will be issued.

When you select to add an Output Queue Watch, or when you check how the current watch is configured, the following panel will be shown:





ADD OUTPUT QUEUE WATCH
GO BACK

Field Description	Field Contents
Output Queue / Library to Watch	PRT01 / *LIBL - Name, GENERIC* or *ALL
Notification Address	*DFTID
Check Interval	15 - Minutes (1-999)
Spool File Count Threshold	0000000 - # spool files (1-123327)
Alert If On Hold?	☒ *NO ☐ *YES
Alert Subject Text	*DFT
Exit Program / Library	*NONE / *LIBL
Send alerts when using exit?	☐ *NO ☒ *YES

Adding new task

Update

To start an Output Queue Watch, fill in the settings on the initial display panel as follows:

Output Queue / Library to Watch	Enter the name of the output queue that you want to watch.
Notification address	See the Notification Address(s) section of this manual on page 6.
Check interval	Enter a value, in minutes, that indicates how frequently you want to check the output queue. The default value is 15 minutes but you can specify as low as 1 and as high as 999, but 15 minutes is a good setting to start with.
Spool file count threshold	Enter the spool file threshold that you want checked. When the number of spool files in ready status waiting to be processed exceeds this value during a check cycle, then an alert will be issued. Any value up to 123,327 can be used.

Alert If On Hold	The default value of *NO will exclude reports that are on hold in the output queue from being counted. By selecting *YES, reports that are on hold will be included along with those that are ready to print.
Alert Subject Text	iEventManager will issue an alert with the default subject text if you leave this set to *DFT. If you want a unique alert subject text used, enter that value here and it will be used if an alert is issued.
Exit Programs	If you have an Enterprise license for iEventManager, then you can use the exit program features on this task. See the chapter on <u>Exit Programs</u> to see how this can be used.

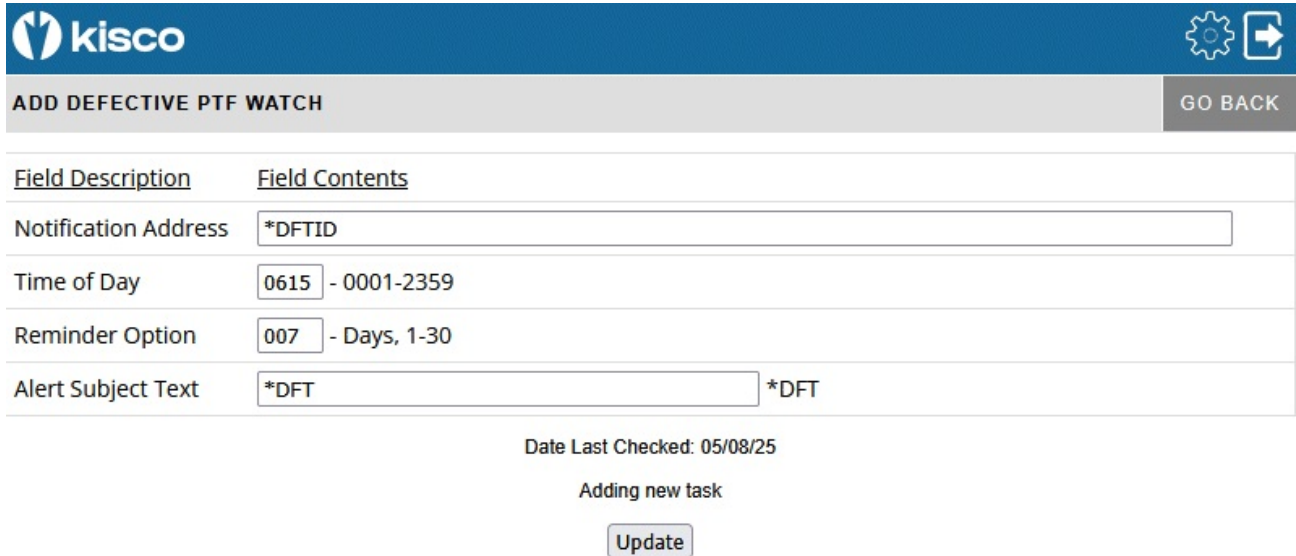
Press the Update button to add/update this watch when you are ready. The values entered will be edit checked. If any errors are found, this panel will be shown again with an appropriate error message. If all settings are acceptable, then the watch will be added and the initial display will be shown again. The new watch will appear as [Inactive](#). It can then be started from the initial display.

If you select it from the initial display, it will be shown on this panel with all of the current values. If the task is shows as [Inactive](#), then you can make changes to any settings and press the Update button to record the changes. Another option, [Remove This Task](#), will be shown on this panel that will let you remove the watch from the list running on your system. Selecting the remove option will delete the watch and bring you back to the Initial Display.

Defective IBM i OS PTF Watch - PD

iEventManager can periodically check your system to see if IBM has identified any IBM i OS PTFs that are defective. If a defective PTF is found on your system, an alert will be issued.

When you select to add a Defective IBM i OS PTF Watch, or when you check how the current watch



The screenshot shows the 'ADD DEFECTIVE PTF WATCH' configuration panel in the Kisco application. The panel has a blue header with the Kisco logo and a settings icon. Below the header, there is a 'GO BACK' button. The main area contains a table with two columns: 'Field Description' and 'Field Contents'. The table has five rows: 'Notification Address' with value '*DFTID', 'Time of Day' with value '0615 - 0001-2359', 'Reminder Option' with value '007 - Days, 1-30', and 'Alert Subject Text' with value '*DFT'. Below the table, there is a 'Date Last Checked: 05/08/25' label, an 'Adding new task' label, and an 'Update' button.

Field Description	Field Contents
Notification Address	*DFTID
Time of Day	0615 - 0001-2359
Reminder Option	007 - Days, 1-30
Alert Subject Text	*DFT

Date Last Checked: 05/08/25

Adding new task

Update

is configured, the following panel will be shown:

To start a Defective PTF Watch, fill in the settings on the initial display panel as follows:

Notification address	See the Notification Address(s) section of this manual on page 6.
Time of Day	Enter time of day when you want this watch to run. When you start the watch, it will run immediately. Once it has been started, then it will run once per day at the time that you specify.
Reminder Option	Enter a number to determine how often the Defective PTF alert will be issued once identified. If you set this value to 1, then it will be repeated daily until the situation is resolved. Changing this value to a number greater than 1 will suppress the reminder alert for for that number of days. The maximum value you can use is 30.
Alert Subject Text	iEventManager will issue an alert with the default subject text if you leave this set to *DFT. If you want a unique alert subject text used, enter that value here and it will be used if an alert is issued.

Press the Update button to add/update this watch when you are ready. The values entered will be edit checked. If any errors are found, this panel will be shown again with an appropriate error message. If all settings are acceptable, then the watch will be added and the initial display will be shown again. The new watch will appear as **Inactive**. It can then be started from the initial display.

If you select it from the initial display, it will be shown on this panel with all of the current values. If the task is shows as **Inactive**, then you can make changes to any settings and press the Update button to record the changes. Another option, [Remove This Task](#), will be shown on this panel that

will let you remove the watch from the list running on your system. Selecting the remove option will delete the watch and bring you back to the Initial Display.

IBM Firmware Update Watch - PF

IBM regularly releases firmware updates to the IBM i OS. This watch will check the firmware level on your system and issue an alert if any updates are available from IBM that should be considered for installation.

When you select to add a Defective IBM i OS PTF Watch, or when you check how the current watch is configured, the following panel will be shown:

Field Description	Field Contents
Notification Address	*DFTID
Time of Day	0630 - 0001-2359
Reminder Option	007 - Days, 1-30
Alert Subject Text	*DFT

Date Last Checked: 05/06/25

Adding new task

[Update](#)

To start a Firmware Update Watch, fill in the settings on the initial display panel as follows:

Notification address	See the Notification Address(s) section of this manual on page 6.
Time of Day	Enter time of day when you want this watch to run. When you start the watch, it will run immediately. Once it has been started, then it will run once per day at the time that you specify.
Reminder Option	Enter a number to determine how often the Firmware Update alert will be issued once identified. If you set this value to 1, then it will be repeated daily until the situation is resolved. Changing this value to a number greater than 1 will suppress the reminder alert for for that number of days. The maximum value you can use is 30.
Alert Subject Text	iEventManager will issue an alert with the default subject text if you leave this set to *DFT. If you want a unique alert subject text used, enter that value here and it will be used if an alert is issued.

Press the Update button to add/update this watch when you are ready. The values entered will be edit checked. If any errors are found, this panel will be shown again with an appropriate error message. If all settings are acceptable, then the watch will be added and the initial display will be shown again. The new watch will appear as [Inactive](#). It can then be started from the initial display.

If you select it from the initial display, it will be shown on this panel with all of the current values. If the task is shows as [Inactive](#), then you can make changes to any settings and press the Update button to record the changes. Another option, [Remove This Task](#), will be shown on this panel that

will let you remove the watch from the list running on your system. Selecting the remove option will delete the watch and bring you back to the Initial Display.

IBM i OS PTF Watch - PT

IBM regularly releases PTF updates to the IBM i OS. This watch will check the PTFs installed on your system and issue an alert if any updates are available from IBM that should be considered for installation.

When you select to add a Defective IBM i OS PTF Watch, or when you check how the current watch is configured, the following panel will be shown:

Field Description	Field Contents
Notification Address	*DFTID
Time of Day	0600 - 0001-2359
Reminder Option	007 - Days, 1-30
Alert Subject Text	*DFT *DFT

Date Last Checked: 05/07/25

Adding new task

Update

To start a PTF Watch, fill in the settings on the initial display panel as follows:

Notification address	See the Notification Address(s) section of this manual on page 6.
Time of Day	Enter time of day when you want this watch to run. When you start the watch, it will run immediately. Once it has been started, then it will run once per day at the time that you specify.
Reminder Option	Enter a number to determine how often the PTF alert will be issued once identified. If you set this value to 1, then it will be repeated daily until the situation is resolved. Changing this value to a number greater than 1 will suppress the reminder alert for for that number of days. The maximum value you can use is 30.
Alert Subject Text	iEventManager will issue an alert with the default subject text if you leave this set to *DFT. If you want a unique alert subject text used, enter that value here and it will be used if an alert is issued.

Press the Update button to add/update this watch when you are ready. The values entered will be edit checked. If any errors are found, this panel will be shown again with an appropriate error message. If all settings are acceptable, then the watch will be added and the initial display will be shown again. The new watch will appear as [Inactive](#). It can then be started from the initial display.

If you select it from the initial display, it will be shown on this panel with all of the current values. If the task is shows as [Inactive](#), then you can make changes to any settings and press the Update button to record the changes. Another option, [Remove This Task](#), will be shown on this panel that

will let you remove the watch from the list running on your system. Selecting the remove option will delete the watch and bring you back to the Initial Display.

Problem Log Watch - PL

When your IBM i OS detects a problem or a potential problem, it will issue error messages to the QSYSOPR message queue and then log details about the problem to the System Problem Log. At any time, you can view this log using the IBM supplied command WRKPRB (Work with Problems). The Problem Log Watch in iEventMonitor will periodically check the System Problem Log and issue an alert when a new entry is posted to the log.

When you select to add a Problem Log Watch, or when you check how the current watch is configured, the following panel will be shown:

Field Description	Field Contents
Check Interval	30 - Minutes 1-1440
Notification Address	*DFTID
Alert Subject Text	*DFT
Exit Program / Library	*NONE / *LIBL
Send alerts when using exit?	☐ *NO ☒ *YES

Adding new task

Notification address See the Notification Address(s) section of this manual on page 6.

Check Interval Enter a value, in minutes, that indicates how frequently you want to check the for new problem log entries. The default value is 30 minutes but you can specify as low as 1 and as high as 1440, but 30 minutes is a good setting to start with.

Note: 1440 minutes translates to checking the log once a day.

Alert Subject Text iEventMonitor will issue an alert with the default subject text if you leave this set to *DFT. If you want a unique alert subject text used, enter that value here and it will be used if an alert is issued.

Exit Program Feature If you have an Enterprise license for iEventMonitor, then you can use the exit program features on this task. See the chapter on Exit Programs to see how this can be used.

Press the Update button to add/update this watch when you are ready. The values entered will be edit checked. If any errors are found, this panel will be shown again with an appropriate error message. If all settings are acceptable, then the watch will be added and the initial display will be shown again. The new watch will appear as **Inactive**. It can then be started from the initial display.

If you select it from the initial display, it will be shown on this panel with all of the current values. If the task is shown as [Inactive](#), then you can make changes to any settings and press the Update button to record the changes. Another option, [Remove This Task](#), will be shown on this panel that will let you remove the watch from the list running on your system. Selecting the remove option will delete the watch and bring you back to the Initial Display.

Product Watch - PW

The Product Watch will perform a daily check on the IBM i OS component products to give you advance warning when any of them will be expiring. With the advent of subscription pricing from IBM, this will become important.

When you select to add a Product Watch, or when you check how the current watch is configured, the following panel will be shown:





ADD PRODUCT WATCH
GO BACK

Field Description	Field Contents
Range To Check	015 - Days, 1-30
Remind Days	03 - Days, 1-30
Notification Address	*DFTID
Time of Day	0600 - 0001-2359
Alert Subject Text	*DFT *DFT

Adding new task

Update

To start a Product Watch, fill in the settings on the initial display panel as follows:

Range To Check	Enter a value that represents how many days until the expiration date that you want to receive an alert.
Reminder Days	Enter a value that represents if you want to be reminded of this when the expiration is not corrected. If you leave this set to zero, you will get daily alerts. Entering any value between 3 and 30 will suppress the alerts for that number of days. This value must be less than the RANGE setting.

Notification address	See the Notification Address(s) section of this manual on page 6.
Time of Day	Enter time of day when you want this watch to run. When you start the watch, it will run immediately. Once it has been started, then it will run once per day at the time that you specify.
Alert Subject Text	iEventManager will issue an alert with the default subject text if you leave this set to *DFT. If you want a unique alert subject text used, enter that value here and it will be used if an alert is issued.

Press the Update button to add/update this watch when you are ready. The values entered will be edit checked. If any errors are found, this panel will be shown again with an appropriate error message. If all settings are acceptable, then the watch will be added and the initial display will be shown again. The new watch will appear as [Inactive](#). It can then be started from the initial display.

If you select it from the initial display, it will be shown on this panel with all of the current values. If the task is shown as [Inactive](#), then you can make changes to any settings and press the Update button to record the changes. Another option, [Remove This Task](#), will be shown on this panel that will let you remove the watch from the list running on your system. Selecting the remove option will delete the watch and bring you back to the Initial Display.

Temporary Storage Watch - TS

This feature watches for jobs that exceed their use of temporary storage based on a threshold limit that you set. Once the task has identified as a temporary storage exception for a full interval specified, then an alert will be issued.

When you select to add a Temporary Storage Watch, or when you check how the current watch is configured, the following panel will be shown:






ADD TEMP STORAGE WATCH
GO BACK

<u>Field Description</u>	<u>Field Contents</u>
Job Types to Watch	☒ *INT - Interactive Jobs ☐ *BAT - Batch Jobs ☐ *ALL - All Jobs
User Profile	- Profile or *ALL
Temp Storage Level	0000500 - MB
Check Interval	15 - Seconds 1-9999
Reminder Interval	05 - Minutes, 0-60 / Zero = no reminder
Notification Address	*DFTID
Alert Subject Text	*DFT
Exit Program / Library	*NONE / *LIBL
Send alerts when using exit?	☐ *NO ☒ *YES

Adding new task

Update

To start a Temporary Storage Watch, fill in the settings on the initial display panel as follows:

Job Types To Watch Indicates the type of jobs to be watched on your system.

Select from the following values:

***INT** Just check for lock waits on interactive jobs.

*BAT Just check for lock waits on batch jobs.

*ALL Check for lock waits on all jobs.

User Profile	You can check for excess temporary storage on jobs run by a specific user profile or *ALL user profile jobs.
Storage Level	Enter the temporary storage threshold limit that you want to use. Jobs using over this limit will result in an alert being issued.
Check Interval	Enter how frequently you want to check for jobs excessive temporary storage, expressed in seconds.
Reminder Interval	Enter the number of minutes that you want to lapse before a reminder alert is sent after an initial alert has been issued. If you enter the value of zero, then a reminder will be sent for each Check Interval value seconds that you have set in the previous parameter setting.
Notification address	See the Notification Address(s) section of this manual on page 6.
Alert Subject Text	iEventMonitor will issue an alert with the default subject text if you leave this set to *DFT. If you want a unique alert subject text used, enter that value here and it will be used if an alert is issued.
Exit Programs	If you have an Enterprise license for iEventMonitor, then you can use the exit program features on this task. See the chapter on <u>Exit Programs</u> to see how this can be used.

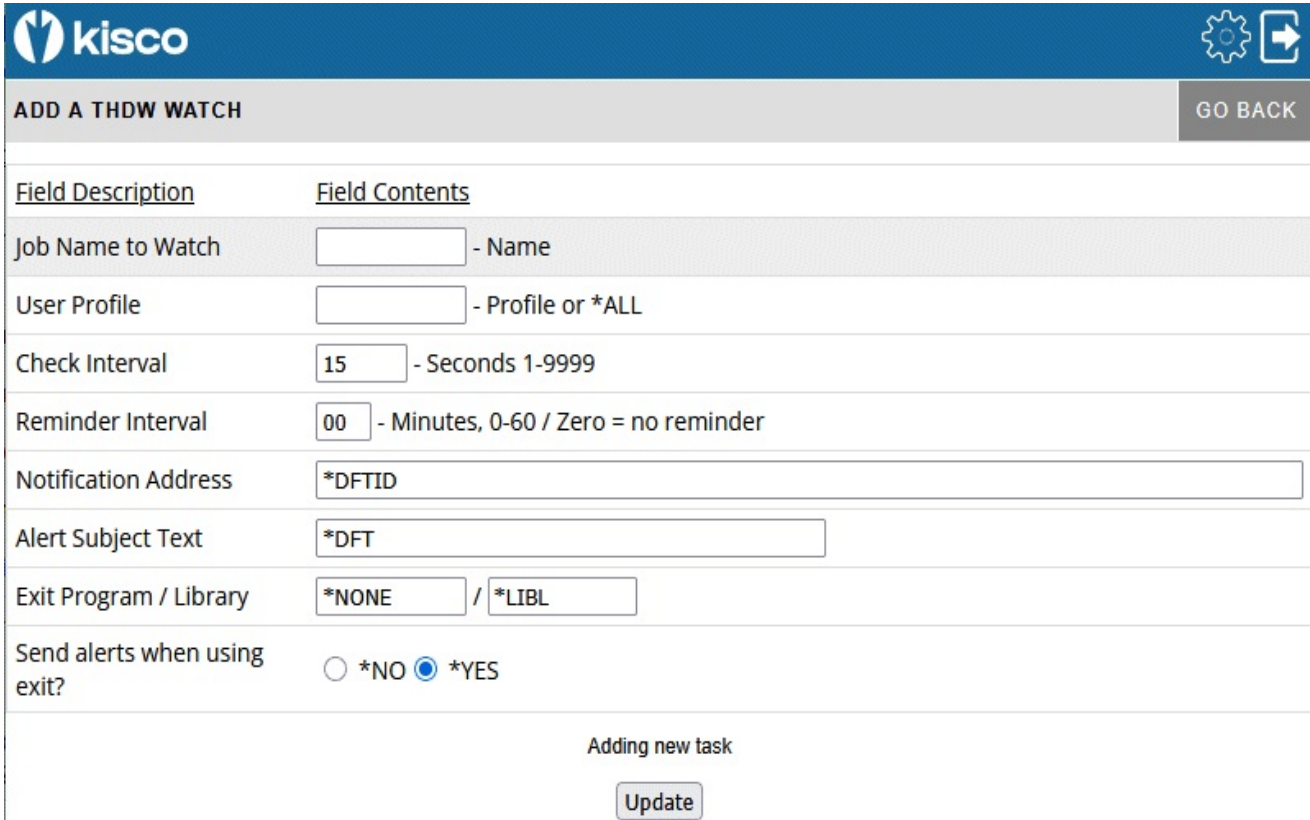
Press the Update button to add/update this watch when you are ready. The values entered will be edit checked. If any errors are found, this panel will be shown again with an appropriate error message. If all settings are acceptable, then the watch will be added and the initial display will be shown again. The new watch will appear as **Inactive**. It can then be started from the initial display.

If you select it from the initial display, it will be shown on this panel with all of the current values. If the task is shows as **Inactive**, then you can make changes to any settings and press the Update button to record the changes. Another option, Remove This Task, will be shown on this panel that will let you remove the watch from the list running on your system. Selecting the remove option will delete the watch and bring you back to the Initial Display.

Thread-Wait Watch - TW

This feature watches for Thread Wait status (THDW) to be reported for a job running for the indicated type and user profile. Once the task has reported THDW status for a full interval specified, then an alert will be issued.

When you select to add a Thread-Wait Watch, or when you check how the current watch is configured, the following panel will be shown:



kisco  

ADD A THDW WATCH GO BACK

Field Description	Field Contents
Job Name to Watch	- Name
User Profile	- Profile or *ALL
Check Interval	15 - Seconds 1-9999
Reminder Interval	00 - Minutes, 0-60 / Zero = no reminder
Notification Address	*DFTID
Alert Subject Text	*DFT
Exit Program / Library	*NONE / *LIBL
Send alerts when using exit?	☐ *NO ☒ *YES

Adding new task

Update

To start a Thread-Wait Watch, fill in the settings on the initial display panel as follows:

Job Name Watch	Enter the specific job name that you want to watch. If there are multiple jobs with the same name, all of them will be watched.
User Profile	You can check for thread waits for a specific user profile or *ALL user profiles.
Check Interval	Enter how frequently you want to check for jobs in thread wait status, expressed in seconds.
Reminder Interval	Enter the number of minutes that you want to lapse before a reminder alert is sent after an initial alert has been issued. If you enter the value of zero, then a reminder will be sent for each Check Interval value seconds that you have set in the previous parameter setting.

Notification address	See the Notification Address(s) section of this manual on page 6.
Alert Subject Text	iEventManager will issue an alert with the default subject text if you leave this set to *DFT. If you want a unique alert subject text used, enter that value here and it will be used if an alert is issued.
Exit Programs	If you have an Enterprise license for iEventManager, then you can use the exit program features on this task. See the chapter on <u>Exit Programs</u> to see how this can be used.

Press the Update button to add/update this watch when you are ready. The values entered will be edit checked. If any errors are found, this panel will be shown again with an appropriate error message. If all settings are acceptable, then the watch will be added and the initial display will be shown again. The new watch will appear as [Inactive](#). It can then be started from the initial display.

If you select it from the initial display, it will be shown on this panel with all of the current values. If the task is shows as [Inactive](#), then you can make changes to any settings and press the Update button to record the changes. Another option, [Remove This Task](#), will be shown on this panel that will let you remove the watch from the list running on your system. Selecting the remove option will delete the watch and bring you back to the Initial Display.

System Utilization Monitor - UT

iEventManager includes a System Utilization Monitor feature. Using this feature, you can monitor interactive subsystems, such as QINTER, for jobs that are using too much CPU capacity. High use of CPU can be an indication of a runaway job or an application that is poorly designed.

When you select to add a System Utilization Monitor, or when you check how the current watch is configured, the following panel will be shown:

Field Description	Field Contents
Subsystem	QINTER - Name or *ALL
Notification Address	*DFTID
Check Interval	030 - Seconds, 15-999
Utilization Threshold	050 - CPU Rate
Alert Subject Text	*DFT
Exit Program / Library	*NONE / *LIBL
Send alerts when using exit?	☐ *NO ☒ *YES

Adding new task

To start a System Utilization Monitor, fill in the settings on the initial display panel as follows:

Subsystem	Enter the sub-system name that you want to watch. The default value of QINTER will watch jobs running in the system default interactive subsystem. Kisco does not recommend using this feature to monitor jobs in a batch processing subsystem. To monitor total system utilization, use the special value of *ALL.
Notification address	See the Notification Address(s) section of this manual on page 6.
Check interval	Enter a value in seconds. The monitor will check for excess utilization every specified interval.
Utilization threshold	Enter the utilization threshold value that you want the monitor to check. This is expressed as a percentage of the CPU utilization for the job.
Alert Subject Text	iEventManager will issue an alert with the default subject text if you leave this set to *DFT. If you want a unique alert subject text used,

enter that value here and it will be used if an alert is issued.

Exit Programs

If you have an Enterprise license for iEventManager, then you can use the exit program features on this task. See the chapter on [Exit Programs](#) to see how this can be used.

Press the Update button to add/update this monitor when you are ready. The values entered will be edit checked. If any errors are found, this panel will be shown again with an appropriate error message. If all settings are acceptable, then the monitor will be added and the initial display will be shown again. The new monitor will appear as [Inactive](#). It can then be started from the initial display.

If you select it from the initial display, it will be shown on this panel with all of the current values. If the task is shows as [Inactive](#), then you can make changes to any settings and press the Update button to record the changes. Another option, [Remove This Task](#), will be shown on this panel that will let you remove the watch from the list running on your system. Selecting the remove option will delete the watch and bring you back to the Initial Display.

User Profile Activity Watch - UW

The User Profile Activity Watch feature will let you track user profile use for interactive sessions. When a user profile watch is started, it will issue an alert when a user profile is used for an interactive signon process or a sign off process. The watch will stay active and continue watching for signon and sign off activity.

When you select to add a User Profile Activity Watch, or when you check how the current watch is configured, the following panel will be shown:





ADD USER PROFILE WATCH
GO BACK

Field Description	Field Contents
User Profile To Watch	- Name
Report Initial Status?	☒ *NO ☐ *YES
Alert Shift	☒ *ALL ☐ *PRI ☐ *OFF
Notification Address	*DFTID
Watch Name	*USER - Name, *USER, *GEN (job name when active)
Alert Subject Text	*DFT
Exit Program / Library	*NONE / *LIBL
Send alerts when using exit?	☐ *NO ☒ *YES

Adding new task

Update

To start a User Profile Activity Watch, fill in the settings on the initial display panel as follows:

User Profile To Watch	Enter the name of the user profile that you want to track.
Report Initial Status?	Controls the initial status reporting for the specified user profile.
	Select one of the following values:
*NO	The current status of the user profile sessions will not be alerted.

	*YES At startup, the current status of the user profile sessions will be issued as an alert.
Alert Shift	Controls whether alerts are issued all the time or only during prime or off-prime shift times. Select one of the following values: *ALL Alerts will be issued regardless of the shift time. *PRI Alerts will only be issued when they occur during the time period identified as prime shift. *OFF Alerts will only be issued when they occur during the time period identified as off shift. Note: Shift times and days of the week are set on the Global Settings.
Notification address	See the Notification Address(s) section of this manual on page 6.
Watch name	Early versions of iEventMonitor used a job name that included the user profile when they were active. This setting will let you optionally generate your own job name so that the actual user profile is hidden. Enter one of the following options. *USER The job that iEventMonitor uses for this user profile watch will run with a job name of the user profile being watched. *GEN The job that iEventMonitor uses for this user profile watch will run with a generated job name in the form of UWnnnnnn where nnnnnn is a sequential number assigned by the software at each job start. Each time the watch is started, a different job name will be used. Name The job that iEventMonitor uses for this user profile watch will run with a job name entered here.
Alert Subject Text	iEventMonitor will issue an alert with the default subject text if you leave this set to *DFT. If you want a unique alert subject text used, enter that value here and it will be used if an alert is issued.
Exit Programs	If you have an Enterprise license for iEventMonitor, then you can use the exit program features on this task. See the chapter on <u>Exit Programs</u> to see how this can be used.

Press the Update button to add/update this watch when you are ready. The values entered will be edit checked. If any errors are found, this panel will be shown again with an appropriate error message. If all settings are acceptable, then the watch will be added and the initial display will be shown again. The new watch will appear as [Inactive](#). It can then be started from the initial display.

If you select it from the initial display, it will be shown on this panel with all of the current values. If the task is shows as [Inactive](#), then you can make changes to any settings and press the Update button to record the changes. Another option, [Remove This Task](#), will be shown on this panel that will let you remove the watch from the list running on your system. Selecting the remove option will delete the watch and bring you back to the Initial Display.

User Profile Expiration Watch - UX

This feature scans the active user profiles on your system once per day and issues an alert when one or more will expire within a specified period of time from when the scan is run.

When you select to add a User Profile Expiration Watch, or when you check how the current watch is configured, the following panel will be shown:

Field Description	Field Contents
Range To Check	007 - Days, 1-30
Notification Address	*DFTID
Time of Day	0600 - 0001-2359
Reminder Option	07 - Days, 1-30
Alert Subject Text	*DFT *DFT
Exit Program / Library	*NONE / *LIBL
Send alerts when using exit?	☐ *NO ☒ *YES

Adding new task

Update

Fill in the parameters as follows:

Range To Check	Enter a value that represents how many days until the expiration date that you want to receive an alert.
Notification address	See the Notification Address(s) section of this manual on page 6.
Time of Day	Enter time of day when you want this watch to run. When you start the watch, it will run immediately. Once it has been started, then it will run once per day at the time that you specify.
Reminder Option	Enter a number to determine when a user expiration watch will be repeated once identified. When a user expiration is identified, an alert will be issued. If you set this value to 1, then it will be repeated daily until the situation is resolved. Changing this value to a number greater than 1 will suppress the reminder alert for the profile for that number of days. The maximum value you can use is 30.
Alert Subject Text	iEventManager will issue an alert with the default subject text if you leave this set to *DFT. If you want a unique alert subject text used, enter that value here and it will be used if an alert is issued.
Exit Programs	If you have an Enterprise license for iEventManager, then you can use the exit program features on this task. See the chapter on Exit Programs to see how this can be used.

Press the Update button to add/update this watch when you are ready. The values entered will be edit checked. If any errors are found, this panel will be shown again with an appropriate error message. If all settings are acceptable, then the watch will be added and the initial display will be shown again. The new watch will appear as [Inactive](#). It can then be started from the initial display.

If you select it from the initial display, it will be shown on this panel with all of the current values. If the task is shows as [Inactive](#), then you can make changes to any settings and press the Update button to record the changes. Another option, [Remove This Task](#), will be shown on this panel that will let you remove the watch from the list running on your system. Selecting the remove option will delete the watch and bring you back to the Initial Display.

Watch For Specific Messages - WT

This watch feature that will allow you to set watches for specific message IDs arriving at any message queue you want to watch or in the System History Log. This watch function is different from the message queue monitor feature in that the watch will check for a specific message ID regardless of the message severity level whereas the monitor looks at all messages that have a severity code at a selected level or higher. This is also the only way to watch for a message on the System History Log. You can also set a watch to look for a specific text string appearing in a message posted to a message queue or in the history log.

You can set a single watch or multiple watches using this feature. It will let you monitor the system operator message queue at the same time that you have the iEventManager message queue monitor function active. You can also set watches for any other message queue in your system including user profile message queues.

Each watch that runs on your system must be assigned a unique 10 character name. At any time, you can view the names of the active watches from the Initial Display. They will appear with the task code WT.

See the next page for how to set up a Watch For Specific Messages task.

When you select to add a Watch For Specific Message, or when you check how the current watch is configured, the following panel will be shown:





ADD A WATCH TASK
GO BACK

Field Description	Field Contents
Watch Name	Must be unique
Notification Address	*DFTID
Message to Watch For	
Message Queue / Library	- *LIBL - Queue name, *HSTLOG
Send Start/Stop Notifications?	☒ *YES ☐ *NO
Message Text	*NONE
Alert Subject Text	*DFT
Exit Program / Library	*NONE / *LIBL
Send alerts when using exit?	☐ *NO ☒ *YES
Exit Level	☒ *STD ☐ *ADV

Adding new task

Update

To start a Watch for a specific message, fill in the settings on the initial display panel as follows:

Watch name	This must be a unique watch event name. You can set multiple watches, but each one must have a unique name. You will need to know this name when you want to end the watch event at a later time.
Notification Address	See the Notification Address(s) section of this manual on page 6.
Message to Watch For	Enter the message ID that you want to monitor for with this watch task.
	*ALL Search all messages posted to the message queue
	*IMMED Search just the immediate messages that are posted to the message queue
Message Queue /	Enter the name of the message queue that you want to monitor.

Library	You can watch for a specific message in the System History Log by using the special value *HSTLOG. When you use this option, you must be watching for a specific message ID and you cannot specify a Message Text selection.
Send Start/Stop Notifications?	Leave the default value *YES if you want iEventManager to issue an alert reporting that this watch task is being activated. Select *NO if you do not want the alert to be issued.
Message Text	If you are not searching for a specific text string, leave this set to *NONE. If you are searching for a text string, enter the string here. Keep in mind that the string is case sensitive and uses embedded blanks.
Alert Subject Text	iEventManager will issue an alert with the default subject text if you leave this set to *DFT. If you want a unique alert subject text used, enter that value here and it will be used if an alert is issued.

See below for the Exit Program options that are also shown.

Press the Update button to add/update this watch when you are ready. The values entered will be edit checked. If any errors are found, this panel will be shown again with an appropriate error message. If all settings are acceptable, then the watch will be added and the initial display will be shown again. The new watch will appear as [Inactive](#). It can then be started from the initial display.

If you select it from the initial display, it will be shown on this panel with all of the current values. If the task is shows as [Inactive](#), then you can make changes to any settings and press the Update button to record the changes. Another option, [Remove This Task](#), will be shown on this panel that will let you remove the watch from the list running on your system. Selecting the remove option will delete the watch and bring you back to the Initial Display.

Watch Task Exit Program Option

The Watch Task includes an optional exit program interface. Use these additional settings to implement your own exit program:

Exit program	If you want to call your own exit program during watch processing, enter the name of the program and library here. When the watch is satisfied, the program will be called passing a single parameter that contains information about the message issued. The amount of information is determined by the setting of the Exit Level parameter (see below). If you are not using an exit program, then the special value of *NONE should be used.
Send alerts when Using exit?	This value controls whether iEventManager will send out an alert when you have specified an exit program. Select one of the following values: *NO - No alerts will be issued. *YES - Alerts will be issued as normal.
Exit level	Select the level of exit data that you want passed to your exit program. Chose one of the following values: *STD The single parameter with a length value of 7 will be passed. It will contain the message ID value. *ADV A single parameter of 1024 characters will be passed which represents the full message detail available from the message ID being watched for. This can be used for a variety of user objectives. The full message data stream is included.

Task Copy Feature

Certain tasks in iEventMonitor can be copied to create new tasks using the same task configuration. Those tasks that qualify will have a small blue box under the “Copy” column on the right side of the display. When you select the copy function, a panel similar to this one will be shown:

COPY A TASK	GO BACK
Copy Task Code: MQ - Message Queue Monitor	
From Message Queue: QSYSOPR	
To Message Queue:	
Start Copy	

Type in the information requested and the panel will present the configuration options for your new task taking the settings from the copied task. Complete the configuration to add the new task.

Exit Programs

For customers with an Enterprise license for iEventManager, Release 9 and later includes an exit program feature. If you have the basic license and would like to try out the Enterprise features, please contact sales@kisco.com for more information. This feature supports the following Monitor and Watch features:

- ASP% Watch
- Data Queue Watch
- Job Watch
- Job Queue Watch
- Utilization Monitor
- User Profile Watch
- Output Queue Watch
- Lock Wait Watch
- Mutex Wait Watch
- Thread Wait Watch
- Device Watch
- User Expiration Watch
- Temporary Storage Watch
- Network Watch

In each case, three new fields have been added when the watch is either started or changed:

Exit
Program / /
Library

Send alerts
when using ☐ *NO ☒ *YES
exit?

If you want to implement an exit program for any of the above monitors or watches, the exit program to be used must be created in advance and available on your system. When an alert condition has been raised, the exit program is called by iEventManager before any alert is issued.

When the program is called, a single multi-format parameter will be passed into the exit program. This parameter will have the following format depending on the alert being processed. **The total parameter length must be set to 121 characters::**

Task	Value	From Pos	To Pos	Description
AS	ASP Watch Type Increase or Decrease	1 6	5 6	*INT, *LVL1 or *LVL2 I, D or X I - Increase D - Decrease X - Exceeds

DQ	Data Queue Watch Data Queue Library Threshold Entries Actual Entries	1 11 21 24	10 20 23 30	Data Queue Name Name of Library for Data Queue Threshold # of entries Actual number of entries found
JW	Job Name User Profile Job Number Start/Stop Indicator	1 11 21 27	10 20 26 29	Job name Job user profile Job number STR - job started STP - job stopped LRN - job is running long NRN - job is not running HLD - job is on hold
JQ	Job Queue Name Job Queue Library Threshold Setting Hold Indicator	1 11 21 25	10 20 24 28	Job queue name Library name for job queue nnn HOLD or blanks
UT	Job Name Job User Profile Job Number Subsystem Name Threshold Setting	1 11 21 27 37	10 20 26 36 39	Job name Job user profile Job number Subsystem name nnn
UW	User Profile Sign On / OFF	1 11	10 13	User profile watched ON, OFF
OQ	Output Queue Name Output Queue Library Threshold Setting Actual Level	1 11 21 28	10 20 27 34	Output queue name Library name for output queue nnnnnnn nnnnnnn
LW	Job Name Job User Profile Job Number Wait Indicator	1 11 21 27	10 20 26 28	Job name Job user profile Job number LW
MX	Job Name Job User Profile Job Number Wait Indicator	1 11 21 27	10 20 26 28	Job name Job user profile Job number MW
TW	Job Name Job User Profile Job Number Wait Indicator	1 11 21 27	10 20 26 28	Job name Job user profile Job number TW
DW	Device Name Device Status	1 11	10 35	Device name Current status
UX	User Profile Expiration Range of Days Expiration Indicator	1 11 13	10 12 13	User profile nn (01-30) 1=Expired, 2=Expiring

TS	Storage Threshold Set Actual Storage	1 8	7 14	Set amount - nnnnnnnn Actual amount - nnnnnnnn
NW	IP Address Full or Partial Fail	1 121	120 121	IP address for alert F=Full, P=Partial

If the “Send Alerts” option is set to *NO, iEventManager will not issue any alert message. You can then issue your own alert, if needed, in the exit program process. The iEventManager command, SNDALERT, can be used for this purpose or you can use your own alerting method. The SNDALERT command supports sending an attachment.

Activity Log

If you have iEventMonitor Enterprise version installed and you have the Central Activity Log feature configured, see the Central Activity Log section of this documentation.

From the Initial Display, you can view the iEventMonitor Activity Log by selecting the ACTIVITY LOG gray button at the top of the panel. The following display will appear:





DISPLAY ACTIVITY LOG
PURGE LOG
GO BACK

Filter:
Date/Time Stamp:
SEARCH

<<
<
>
>>

Total number of Activity Log Records: 1078 - Oldest record from: 12/02/22

Select	Date	Time	Task	Task Description	Alert Text
☐	03/13/23	12:47:04	TM	Test Message	This is a test message sent from iEventMonitor
☐	03/13/23	17:07:02	AD	Administrative	ENDIEM issued to stop all active tasks
☐	03/13/23	17:07:13	AD	Administrative	STRIEM issued to start all active tasks
☐	03/14/23	12:24:21	AD	Administrative	MQ Msg Que Monitor RICH /*LIBL created
☐	03/14/23	12:25:09	AD	Administrative	MQ Task Removed for RICH/*LIBL
☐	03/14/23	17:06:49	AD	Administrative	ENDIEM issued to stop all active tasks
☐	03/14/23	17:07:00	AD	Administrative	STRIEM issued to start all active tasks
☐	03/15/23	17:06:47	AD	Administrative	ENDIEM issued to stop all active tasks
☐	03/15/23	17:06:57	AD	Administrative	STRIEM issued to start all active tasks
☐	03/16/23	17:06:53	AD	Administrative	ENDIEM issued to stop all active tasks
☐	03/16/23	17:07:03	AD	Administrative	STRIEM issued to start all active tasks

iEventMonitor V7 [Kisco Tech Support](#)
Bluescape UI © 2023 Kisco Systems LLC

You can navigate your way through the Activity Log using several methods. The four blue arrow buttons near the top of the panel will act as follows:

- << Takes you to the oldest records on file
- < Scrolls backwards one panel
- > Scrolls forward one panel
- >> Takes you to the newest records on file

In addition, you can select the specific type of transaction that you want to see and a specific date where you want to start your review. Select the transaction filter, then enter the date you want to start with. Dates should be entered in yyymmdd format. A special value of *TODAY will bring up the most recent activity records. Use the SEARCH button once these values have been set.

To review the details for any log entry shown, select the blue box to the left of the line and the details will be shown:





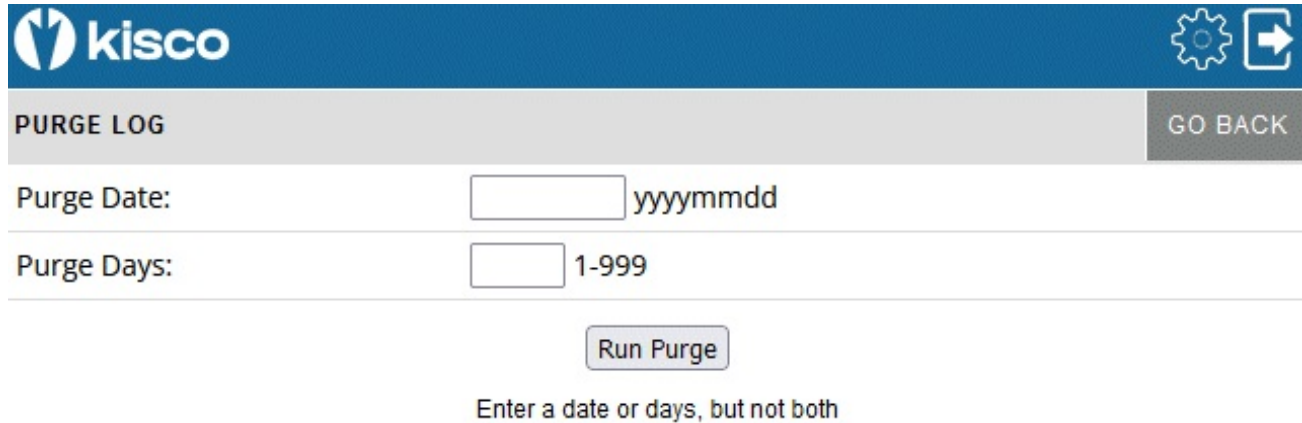
ACTIVITY LOG DETAIL
GO BACK

<u>Description</u>	<u>Log Contents</u>
Date/Time Stamp	03/17/23 12:00:30 036225
Notification Address	rich@kisco.com
Task Code	MQ- Message Queue Monitor
Message Detail	Msg ID: CPF1189 Subsystem QINTER varied off work station KISCO1. Alert for que QSYSOPR in library *LIBL Job:242449/QSYS/QINTER Date: 03/17/23 Time: 120029 Level 2 Text: Cause : Subsystem QINTER received CPF5083 while using file QDSIGNON in library QSYS record format SIGNON. As a result of this error, work station KISCO1 was varied off by the subsystem. Recovery . . . : Correct the problem that is causing the CPF5083 error. Display the job log of the subsystem for more information. After the problem has been corrected, vary the device on (VRYCFG command). The subsystem will then allocate the work station when it becomes available.

If the entry is for an Audit Monitor, the details of the report that was issued will be shown as well.

Activity Log Purge

When you no longer want older records from the Activity Log, you can remove them from the log by selecting the PURGE LOG gray button at the top of the panel. The following selection panel will be shown:



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PURGE LOG **GO BACK**

Purge Date: yyyyymmdd

Purge Days: 1-999

Run Purge

Enter a date or days, but not both

To run the purge, enter one of the two values shown. Do not enter both.

Purge Date: Enter the oldest date that you want to keep on file in format yyyyymmdd

Purge Days: Enter the number of days that you want to keep on file. Older records will be purged.

When you select the Run Purge button, a confirmation panel will be shown before the purge is actually run. The purge may take a while to complete before the next panel is then shown.

Central Activity Log Feature

If you have the Enterprise version of iEventMonitor installed, the Central Activity Log feature is available for you to use.

Central Logging lets you configure systems in your network. One system must be chosen as the central server. This is where all of the activity log information from the other systems will be collected. There can be only one central logging server in your configuration. Before you start, decide what the role of each system will be. There will be a single central server, one or more remote servers and you can choose to have any system running iEventMonitor that does not send activity log information to the central server.

The Central Log feature works using IBM's Distributed Data Management (DDM) feature. Before you start configuring central logging, we recommend that each of your systems be enrolled by system name in the IBM i OS Host Name Table. This is done using option 10 on the IBM menu named CFGTCP. On each remote server, the system name of the central server must be enrolled with the associated IP address of the central server. There is no special configuration work needed on the central server or on any servers where this feature will not be used.

The Central Log feature also depends on customers having the same release level of iEventMonitor installed at each participating system. This will be checked each time the logging function runs. You can check this by using option 5 on the INSTALL menu on each system.

To define the roll of a server for the Central Logging feature, log in to iEventMonitor Bluescape and select the Global Setting Gear icon at the top of the page. Scroll down until you see the following section near the bottom of the page:

Logging Options:	Logging changes not allowed now	
Logging Role	☐ *NONE ☐ *RMT ☒ *CSV	
Logging Prefix	Q0	
Central Logging Server	*NONE	IP address or *NONE
Post Changes		
Original Shipped Version	8.00 - 011124 - Enterprise	

Note that logging changes can only be made when iEventMonitor is inactive on the server. In the above example, it is active and the warning message indicates that changes cannot be made. Note also that the bottom line showing Original Shipped Version will also indicate whether or not you have the Enterprise version activated.

To set you central logging options, complete these three fields as follows:

Logging Role	Choose one of the following values:
*NONE	No central logging will be done from this system
*RMT	This will be a remote logging server and activity log information will be sent to the central logging server
*CSV	This system will be the central logging server

Logging Prefix	For systems defined as *CSV or *NONE, this value must be set to the fixed value 'Q0'. For systems defined as *RMT, this must be a unique two character value that must start with an alphabetic character. Each *RMT system in your network must have its own prefix value set.
Central server location	For systems defined as *CSV or *NONE, this value must be set to the fixed value of *NONE. For system defined as *RMT, this must be the system name of the central logging server that has already been configured in the IBM i OS Host Name Table.

To store the changes, use the Post Changes button. The values will be checked to make sure that they are correct. Once set, you can resume normal use of iEventManager and restart all tasks defined on your system.

Display Central Activity Log

If your system is defined with a logging role of *NONE or *RMT, then the previously documented method for accessing the Activity Log applies. If, however, your server is defined as the Central Logging Server in your network, then when you select the ACTIVITY LOG button, the Central Log will be shown as follows:

The screenshot displays the 'DISPLAY CENTRAL ACTIVITY LOG' interface. At the top, there's a header with the 'kisco' logo and navigation icons. Below the header, there's a section with search filters: 'System: KISCO1', 'Filter: *ALL', and 'Date/Time Stamp: *TODAY, yyyyymmdd'. A 'SEARCH' button is next to the date stamp. To the right of the search filters are buttons for '<<', '<', '>', and '>>'. Below the search filters, it says 'Total number of Activity Log Records: 749 - Oldest record from: 10/18/23'. The main part of the interface is a table with the following data:

Select	System	Date	Time	Task	Task Description	Alert Text
☒	KISCO1	01/24/24	11:12:23	UW	User Watch	JPLOEBER is now off-line at JUSTIN1 - 2024-01-24 - 1112
☒	KISCO1	01/24/24	11:52:43	UW	User Watch	MJONES is logged on now at QPADEV0002 - 2024-01-24 - 115
☒	KISCO1	01/24/24	14:29:52	UW	User Watch	MJONES is now off-line at QPADEV0002 - 2024-01-24 - 1429
☒	KISCO1	01/24/24	19:29:41	AM	Audit Monitor	iEventAlert detected 3 event(s)-Audit Code:AD - Auditing Cha
☒	KISCO1	01/25/24	07:27:43	UW	User Watch	QSECOFR is logged on now at KISCO1 - 2024-01-25 - 072
☒	KISCO1	01/25/24	07:28:14	UW	User Watch	QSECOFR is logged on now at KISCO2 - 2024-01-25 - 072
☒	KISCO1	01/25/24	07:28:29	UW	User Watch	QSECOFR is logged on now at KISCO3 - 2024-01-25 - 072

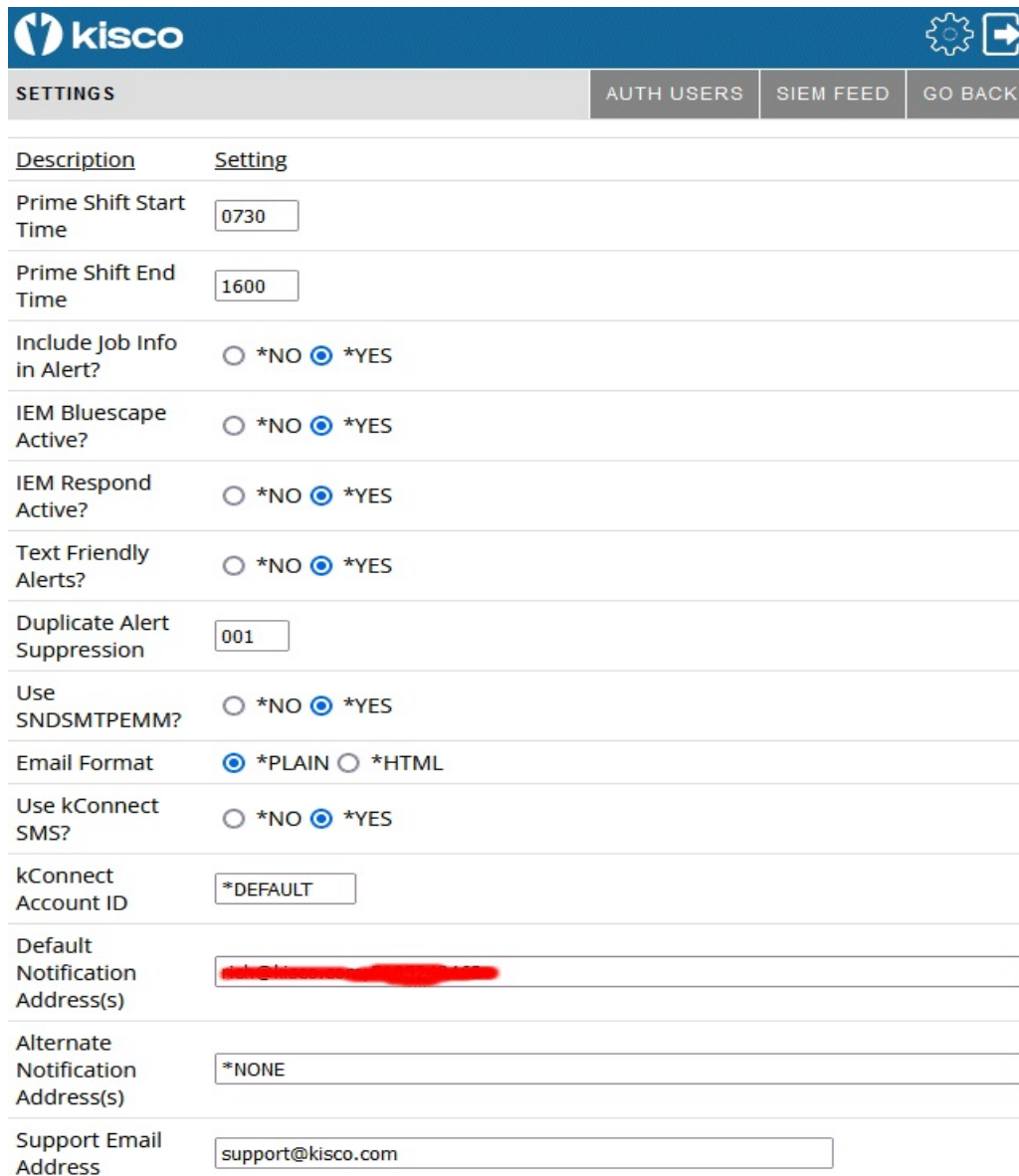
The initial display will default to the local system's Activity Log records. To change to a different system, use the System: selection box. The other filters on the SEARCH line all work the same as already documented for the Activity Log.

Purge Central Activity Log

When you select the PURGE LOG box at the top of the panel, the same purge options will be shown. When the purge runs, both the local Activity Log and the Central Activity Log will be purged as specified.

Global Settings

Every display panel will give you access to the Settings controls by using the gear icon at the top of the panel. Settings are global settings and controls for iEventMonitor and help control how it is implemented on your system. The Settings panel appears as follows:



Description	Setting
Prime Shift Start Time	0730
Prime Shift End Time	1600
Include Job Info in Alert?	☐ *NO ☒ *YES
IEM Bluescape Active?	☐ *NO ☒ *YES
IEM Respond Active?	☐ *NO ☒ *YES
Text Friendly Alerts?	☐ *NO ☒ *YES
Duplicate Alert Suppression	001
Use SNDSMTPEMM?	☐ *NO ☒ *YES
Email Format	☒ *PLAIN ☐ *HTML
Use kConnect SMS?	☐ *NO ☒ *YES
kConnect Account ID	*DEFAULT
Default Notification Address(s)	[REDACTED]
Alternate Notification Address(s)	*NONE
Support Email Address	support@kisco.com

There are more fields on the panel that are not shown here.

Set these parameters as follows:

Prime Shift Start Time

Defines your primary shift starting time expressed in 24 hour clock format (hhmm).

Prime Shift End Time	Defines your primary shift ending time expressed in 24 hour clock format (hhmm).
Include Job Info in Alert?	This option can add more information to each message queue monitor alert notification. With this option activated, the job name, job number and user profile for the job issuing the message to the message queue will be included in the notification. Select one of the following values: *NO No additional logging will be done. *YES The additional logging information will be posted to the joblog and to the system history log.
IEM Bluescape Active?	Tells iEventManager whether or not the Bluescape web browser interface is installed and configured. This is initially set to *NO . If you are using the Bluescape interface, this MUST be left set to *YES .
IEM Respond Active?	Tells iEventManager whether or not the IEM Respond feature has been activated on your system. When initially installed, this defaults to *NO . Once you have completed the additional configuration steps as outlined in this user's guide, you can set this to *YES to enable the feature. DO NOT set this to *YES until you are sure that you are ready.
Text Friendly Alerts?	Select one of the following values: *NO If you are not using the IEM Respond feature, leave this set to *NO. *YES If you are using the IEM Respond feature and you are issuing alerts to text destination addresses, this option will cause the alerts that require a response to be formatted better for those receiving the alert by text.
Duplicate Alert Suppression	This option controls suppression of duplicate message queue monitor alerts issued within a short period of time. It can be used to make sure that your email stream issued from your IBM i systems does not get clogged if an application error gets into a looping condition. This setting is in minutes and the default value is set to 5. If an identical message is issued by the same user profile within the given period of time, only the first instance will result in an alert being issued. Changing this value to zero will turn this feature off for your system.

Use SNDSMTPEMM?

Controls which email transport mechanism is used by iEventManager to send email from your system. If you make a change to this setting, it will not take effect until the next time you end and restart iEventManager.

Select one of the following values:

***YES** When an alert is sent, the IBM i SNDSMTPEMM protocol will be used. Note: This is only valid on system running IBM i OS 7.3 or later.

***NO** The legacy protocol will be used to send email. This is required on systems running IBM i OS 7.2 or earlier.

If you make a change to the SNDSMTPEMM setting while iEventManager is active, you must then stop and restart your monitors using the END ALL and START ALL options on the Initial Display.

Email Format

Controls how your alert notification emails are formatted when you are using the SNDSMTPEMM protocol.

Select one of the following values:

***PLAIN** The email body will be encoded using plain text formatting.

***HTML** The email body will be encoded using HTML formatting. This option is not available when the previous option is set to *NO.

If you make a change to the format setting while iEventManager is active, you must then stop and restart your monitors using the END ALL and START ALL options on the Initial Display.

Use kConnect SMS?

If you have Kisco Connect installed on your system, then changing this value to *YES will integrate iEventManager with Kisco Connect for text notifications.

kConnect ACCT ID

If Kisco Connect is activated, a valid Account ID must be specified here.

Default Notification Address

This is the email address field that will be used by iEventManager whenever the special value *DFTID is used for an alert.

See the Notification Address(s) section of this manual on page 6.

Alternate Notification Address

Enter the email address information that you want to use for off-shift notifications locations.

See the Notification Address(s) section of this manual on page 6.

If you do not want to use the off-shift notification process, enter the special value *NONE here.

Support Email Address Enter a single email address. This address will be used with all alert emails as the “from” email and the “reply-to” address. This must be a valid email address and it should be monitored periodically for failed email delivery messages.

Support Description Enter a name description that you want to show up on the email as the sender of your alert notices.

Default Alert Subject Enter the standard email Subject text that you want used for all alert notices. If you are using iEventMonitor on multiple systems or partitions, you might want to have each install use a Subject that identifies the system that it is coming from.

Note: If you use either the header or trailer option, additional text will be included in all alerts. If you are routing alert messages by text, this could result in incomplete alert information when text size is limited by a cell carrier.

Optional Alert Header Text Enter up to 80 characters that you want added as the first line header of every alert message that is issued. If you use the special value of *NONE, no first line header will be included in the alert.

Optional Alert Trailer Text Enter up to 80 characters that you want added as the last line trailer of every alert message that is issued. If you use the special value of *NONE, no last line trailer will be included in the alert.

IEM Respond Page Heading This is used as a web page heading when the IEM Respond feature is active for your installation.

IEM Browser Respond IP This is your system web address to be used for the IEM Respond feature.

An example might look like this:

`http://yoursystemi.com:8077`

Note that the port reference of 8077 must be included. You can also specify a numeric IP address like the following example:

`http://10.1.2.3:8077`

Escalation Notification Address(s) Some features in iEventMonitor provide for reminder alerts to be sent when a situation has not been resolved yet. If you want to send an alert to any additional addresses, you can enter

those here. Do not repeat any addresses that are already included in the primary notification.

See the Notification Address(s) section of this manual on page 6.

Off-Shift Days	If you are using the off-shift alternate notification feature and you want to define certain days of the week as off shift all day (such as Saturday and Sunday), select those days here. You can select up to 5 values. Use the standard system values for the days of the week (*MON *TUE *WEB *THU *FRI *SAT *SUN). If you do not want any days to be considered as off-shift all day, leave them all unselected.
Purge Days Range	Enter the number of days to be used when an automatic purge is run. The automatic purge runs whenever the STRIEM command is issued. If this is set to 000, then the purge will be bypassed during startup processing. To use the automatic purge, a number of days within the range of 007-365 must be specified. All activity log entries older than the number of days specified will be purged.
List Purged Records?	If you are using the automatic purge feature, this setting will control whether a listing of the purged activity log entries will be created during the purge. Changing this setting to *YES, will cause the listing to be created.
Browser Roll Factor	Enter the maximum number of lines that you want to be shown on a multi-line browser panel. Kisco recommends starting this set to 15 but any value from 2 to 50 will be accepted.
Browser Timeout Limit	When you start a Bluescape session, the current time is noted. If no activity happens in the session for the number of minutes entered here, then a new logon will be needed. As shipped from Kisco, this is set to 60 minutes. You can change it to another value up to 999.
Heartbeat Monitor Active?	Controls whether the Heartbeat Monitor function in iEventManager is active. Choose from these options *NO The Heartbeat Monitor will not be active. This is the default setting when the product is first installed. *YES The Heartbeat Monitor will be active. See the separate section of this user's guide for more details about this feature.
Heartbeat Notification Address(s)	Enter the notification addresses for alerts issued by the Heartbeat Monitor. See the Notification Address(s) section of this manual on page 6.
Heartbeat Monitor Interval	Controls how frequently the Heartbeat Monitor will check the status of iEventManager tasks. This value is expressed in

seconds and must be 15 seconds or greater.

Heartbeat Monitor Reminder The Heartbeat Monitor can issue reminder alerts about issues that it discovers. If you leave this value set to zero, no reminders will be sent. If you do specify a value, it will be in minutes and a reminder alert will be issued if the problem identified has not been corrected in the time given.

If you have the iEventMonitor Enterprise version installed, you will see several additional fields following the Browser Timeout Limit. Check the Central Activity Log section of this documentation for those details.

At the base of the Global Settings panel you will see information about the level of the installed iEventMonitor software, the latest PTF updates, the current IBM i OS level and the serial number and partition number where the software is installed. This information may be useful to Kisco Systems technical support team.

Authorized iEventMonitor Users

At the top of the General Settings panel there is a gray button labeled AUTH USERS. This lets you control who can administer iEventMonitor. You must be an authorized administrator for iEventMonitor before you can access this function. As shipped from Kisco Systems, the QSECOFR user profile is already authorized.

When you select this button, the following will be shown:

  			
DISPLAY AUTHORIZED USERS			ADD USER GO BACK
<u>Select</u>	<u>User Profile</u>	<u>User Type</u>	<u>User Description</u>
☐	IEMONITOR	A	iEventMonitor Profile
☐	QSECOFR	A	Security Officer
☐	QTMHHTP1	A	HTTP Server CGI User Profile
☐	QTMHHTTP	A	HTTP Server User Profile

This is a list of the currently authorized user profiles. You can maintain an existing user by selecting the blue button on the left side of the panel or you can add a new user by selecting the ADD USER gray box at the top. When you do, the following will be shown:

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USER MAINTENANCE

GO BACK

Field Description	Field Contents
User Profile	- Name
User Type	☐ Admin ☒ User

Update

[Remove This User](#)

Complete the entry as follows:

- User Profile

Enter a valid user profile.
- User Type

Select the type of user that you are registering.

Admin

An admin user can use all functions and features of the iEventMonitor software product.

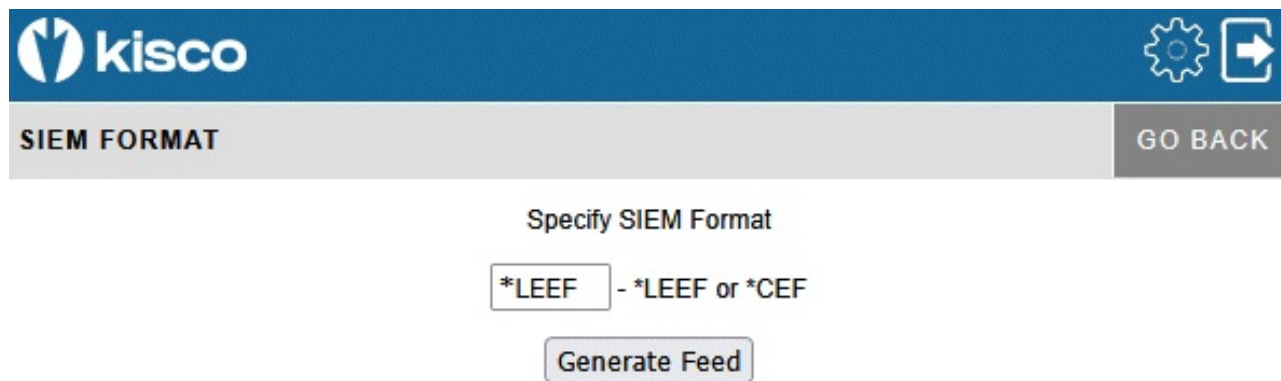
User

For the Bluescape web browser interface for iEventMonitor administration, a User type can only look at settings and active tasks, they cannot change them, set up new monitors or start and stop monitors.

The Update button will add or update the entry being processed. If you want to remove a currently registered user, use the [Remove This User](#) link.

SIEM Feed

Also at the top of the General Settings panel there is a gray button labeled SIEM FEED. This lets you generate a SIEM feed file to the IFS on your system. When you select the SIEM FEED button, you will get a confirmation panel to make sure that this is what you wanted to do. Confirm the selection and the following selection panel will be shown:



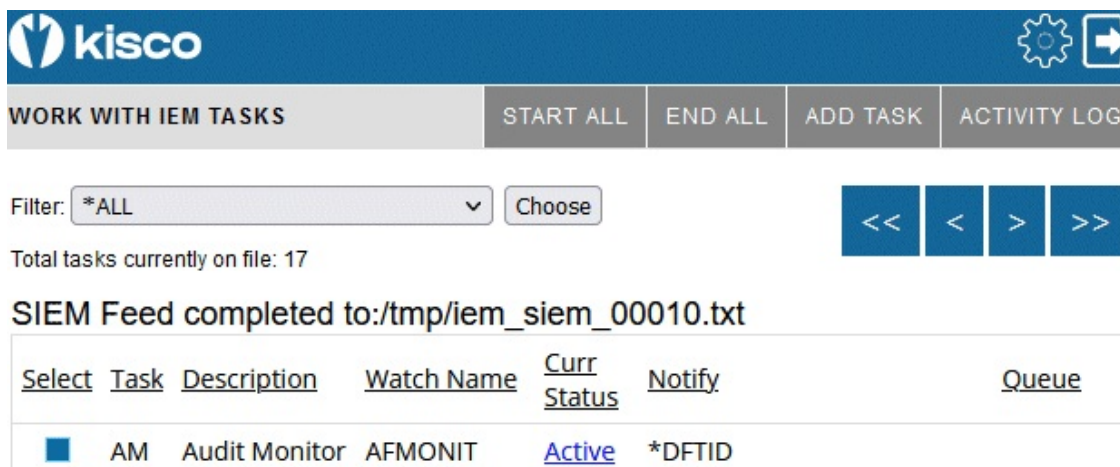
The screenshot shows the Kisco interface with a blue header bar containing the Kisco logo and a gear icon. Below the header, there is a gray bar with the text "SIEM FORMAT" and a "GO BACK" button. The main content area is titled "Specify SIEM Format" and contains a text input field with the value "*LEEF", followed by the text "- *LEEF or *CEF". Below this is a "Generate Feed" button.

You have a choice of formats for the SIEM feed to be created as follows:

- *LEEF The SIEM feed will be generated in LEEF:2 format. This is normally used for IBM's QRADAR SIEM product.
- *CEF The SIEM feed will be generated in CEF:0 format. This is with many other SIEM products.

Press the Generate Feed button and the SIEM feed file will be generated. This process may take a few moments depending on the amount of history in iEventMonitor that has not been processed in earlier SIEM FEED processes.

When the SIEM FEED is complete, the Initial Display will be shown with a confirmation that the SIEM FEED file was generated and a reference to where you will find it on your system:



The screenshot shows the Kisco interface with a blue header bar containing the Kisco logo and a gear icon. Below the header, there is a gray bar with the text "WORK WITH IEM TASKS" and buttons for "START ALL", "END ALL", "ADD TASK", and "ACTIVITY LOG". Below this is a "Filter:" dropdown menu with the value "*ALL" and a "Choose" button. To the right of the filter are four navigation buttons: "<<", "<", ">", and ">>". Below the filter is the text "Total tasks currently on file: 17". The main content area is titled "SIEM Feed completed to: /tmp/iem_siem_00010.txt". Below this is a table with the following columns: "Select", "Task", "Description", "Watch Name", "Curr Status", "Notify", and "Queue".

Select	Task	Description	Watch Name	Curr Status	Notify	Queue
☒	AM	Audit Monitor	AFMONIT	Active	*DFTID	

Note 1: If you run the SIEM Feed on a system that is defined as the Central Activity Logging server, then the Central Log will be fed in its entirety with entries for all systems.

Note 2: File in the IFS /tmp path may get removed from your system during an IPL. If you want these files preserved during an IPL, you should contact Kisco Systems.

Apache HTTP Server Configuration

For the Bluescape interface for iEventManager to work, you will have to configure and activate a server instance for the Apache HTTP server on your IBM i.

The following checklist will have to be done to complete the configuration. The details will follow for each step.

- Step 1: Start the Apache Administrative server tool on your IBM i.
- Step 2: Create a new HTTP server instance named IEVENTMON
- Step 3: Install the HTTP Server objects for iEventManager
- Step 4: Start the new IEEventManager server instance
- Step 5: Update End User Table

Step 1: Start the Apache Administrative server tool on your IBM i.

To configure an Apache server instance, you must first start the Administration server instance for Apache. You can do this from a command line on your IBM i with the following command:

```
STRTCPSVR SERVER(*HTTP) HTTPSVR(*ADMIN)
```

The server may take a while to initialize, so wait a few minutes before starting up the configuration wizard in your browser. When you are ready, point your browser to the following web address:

```
http://yoursystemi.com:2001/HTTPAdmin
```

The system will prompt you for a user profile and password. Once that has been supplied, a page of IBM i Tasks will be displayed. Select the “IBM Web Administration for IBM i” option. This will take you to the Web Administration wizard that comes with your OS.

Step 2: Create a new HTTP server instance named IEVENTMON

After you sign on and get to the Web Administration page, navigate to the “Manage” tab and then the “HTTP Servers” tab below that. Under the “Common Tasks and Wizards”, select “Create HTTP Server”. For server name, you MUST specify the value “IEVENTMON”. The server description of “Kisco iEventManager Server” can also be used. Click on Next for all of the following displays taking all of the default options presented until you reach the “Create HTTP Server” panel with a “Finish” button at the bottom. Press the Finish button to complete creating the new server instance.

Step 3: Install the HTTP Server objects for iEventManager

On a terminal session where you are signed on as a security officer, go to the INSTALL menu in library IEMLIB by entering the following command:

```
GO IEMLIB/INSTALL
```

Run option #11 (Install HTTP Server Instance Objects) from this menu. This will install the HTTP server objects needed by iEventManager.

Step 4: Start the new IEVENTMON server instance

On a terminal session where you are signed on as a security officer, go to the IEMSVR menu in library IEMLIB by entering the following command:

GO IEMLIB/IEMSVR

To start the newly created server instance, run option #1. After the server has been started and running for about 30 seconds, run option #3 on this same menu. You should see at least 4 jobs running with the job name IEVENTMON. This will indicate that the server is running correctly.

Go to your browser and enter the following URL:

<http://yoursystemi.com:8077>

A test page should now be shown. This will indicate that the server is active.

Step 5: Update End User Table

For the Bluescape interface to work correctly, the special IBM user profiles QTMHHTTP1 and QTMHHTTP must be present in the End User Table in iEventMonitor. Run option #8 on the INSTALL menu and add verify that both profiles are present.

At this point, the Bluescape interface for iEventMonitor is available for use on your system.

If you want to configure your own server instance or use a different instance that is already active on your system, you can do so provided that the following are taken into account:

- Add IEMLIB as a directory entry
- ADD a URL mapping entry to map “/cgibin/” to IEMLIB
- Authorize user access to IEMLIB
- Permit CGI programs to be run from IEMLIB

If you have other HTTP server instances already running, you may want to configure the iEventMonitor instance so that it works from a different port number. If that is the case, then the access URL that you use to start the browser interface for iEventMonitor will appear as follows:

<http://yoursystemi.com:8081/iemlogon.htm>

In this example, the HTTP server instance is running on port number 8081. Only the starting URL needs to be changed, the other URLs within the product will pick up the correct port number from this initial use.

Security Considerations

For instructions on how to configure the Apache server for a secure HTTPS connection, please review the following section of this documentation.

If you decide to implement the Apache server without HTTPS security, then user is cautioned that the logon process used will pass a valid user profile and password through your network in open clear text. As a result, Kisco specifically recommends that you only use this feature in a secure network environment where all activity takes place behind a firewall or a strong network router using internal IP addresses only (using a VPN).

As a second level of security, we also recommend that you set up a special user profile for use with the Bluescape interface for iEventMonitor access. You should use this profile only for the purpose of logging in to iEventMonitor through your browser. When you set the profile up, it must be a security officer class, but to limit its function in the event that the profile and password are compromised, we recommend that you include the following additional specification when the profile is created:

INLMNU(*SIGNOFF)	This will force a logoff if someone tries to log on through a normal terminal session using this profile.
------------------	---

Also, if you have exit point control software in place, you should set this profile up to deny all network access to your system. This will prevent the profile from being used by FTP, ODBC, IBM i Access, etc. If you do not have exit point control software in place, we suggest you take a look at our SafeNet/i software for your system to guard against this threat.

Configuring Apache for HTTPS Secure Use

iEventMonitor supports use of the Bluescape interface over a secure HTTPS browser connection. We recommend that when you first set up and configure the browser interface on your system, that you use the previous non-secure configuration to get started. This will simplify the setup routine. The following documentation assumes that you already have a working configuration using plain HTTP browser connections to your IBM i server.

HTTPS Configuration Overview

The following sequence of events must be completed to convert your working HTTP server instance (named IEVENTMON) from a plain HTTP server configuration to a secure HTTPS server configuration.

1. Start the *ADMIN server instance on your IBM i and log in.
 2. Update your current HTTP server instance configuration to support HTTPS.
 3. Connect to the Digital Certificate Manager application on your browser.
 4. Create a new digital certificate in the *SYSTEM certificate store.
 5. Validate the newly created certificate.
 6. Assign the new certificate to the IEventMonitor application.
 7. Start the updated IEVENTMON server instance.
 8. Verify that the configuration is working correctly.
-

Step 1 - Start the *ADMIN server instance on your IBM i and log in.

From the command line on your system, enter the following command:

```
STRTCPSVR SERVER(*HTTP) HTTPSVR(*ADMIN)
```

This will start the IBM Web Administration for i tool on your system. This startup process can take a minute or two to complete. After waiting, go to your web browser and enter the following address in the address box of your browser:

```
http://yoursystemi.com:2001/HTTPadmin
```

You will be prompted for a logon process. **You must sign on as a security officer** with full authority to your system, such as QSECOFR.

Step 2 - Update your current HTTP server instance configuration to support HTTPS.

1. Select the “HTTP Servers” tab.
2. Use the Servers window and select the IEVENTMON server.
3. Make sure that the server instance is showing with the status of “Stopped”. If not you MUST stop it before you continue with this procedure.
4. In the left hand panel, select the “Security” option.
5. When the security display shows, enable SSL and on the following line, enter “IEventMonitor” in the Server Application ID.
6. Press the “Apply” button at the bottom of the display.
7. In the left hand panel, select the “General Server Configuration” option.
8. On the next display, locate the “Server IP addresses and ports to listen on” section.
9. Add port number 443 for this server instance.
10. If port number 80 is shown, it must be removed.
11. Press the “Apply” button at the bottom of the display.

At this point, the HTTP server instance has been updated. Do not try to start it again until the following additional steps have been completed.

Step 3 - Connect to the Digital Certificate Manager application on your browser.

In your browser, re-enter the base address for the i5/OS Tasks:

<http://yoursystemi:2001/QIBM/ICSS/Cert/Admin/qycucm1.ndm/main0>

This will bring you back to the main menu. Select the link for the “Digital Certificate Manager”.

Note: The following process will self-issue a digital certificate for use with your HTTPS server instance. When used from your browser, this will give you a warning because your server is not a registered certificate issuer, but the process will work correctly as long as you bypass the warning. On some browsers, such as Firefox, you will be allowed to accept the certificate the first time you use it and it will not be questioned again. Other browsers, like some versions of Internet Explorer, will question your use every time. Regardless, you will know where the certificate came from and you will be able to trust it by virtue of that knowledge.

Step 4 - Create a new digital certificate in the *SYSTEM certificate store.

Select the button in the top left corner of your browser that reads “Select a Certificate Store”. On the next panel, select the *SYSTEM store and press the “Continue” button. (If the *SYSTEM store does not exist, you will need to first create it using the “Create New Certificate Store” link.) Your system will prompt you for the password for the *SYSTEM certificate store. If you don’t know the password, you can use the reset function to assign a new password. When you are finished, the *SYSTEM certificate store will be open and available.

Now, select the “Create Certificate” link from the left-hand panel. On the next panel, select the option for “Server or client certificate” and press the “Continue” button. Next, select the option for “Local Certificate Authority” and press “Continue” again. Now the certificate form is displayed. Fill out the required fields as follows:

Certificate label	Enter the value “IEVENT”.
Common name	Enter a unique name. Kisco recommends that you use the system name for your system (or partition) as shown from the DSPNETA command display.
Organization name	Enter the name of your company or organization.
State or province	Enter the name of the state or province where you are located.
Country or region	Enter an abbreviation for your country.

Select the “Continue” button at the bottom of the page and your certificate will be created.

Step 5 - Validate the newly created certificate.

In the left hand panel, select the “Manage certificates” link. Next, select the “Validate certificate” link. Choose the “Server or client” option and press the “Continue” button. Select the IEVENT that you just created, then press the “Validate” button at the bottom of the page. If everything with the certificate is OK, a message will be displayed confirming that the certificate is valid.

Step 6 - Assign the new certificate to the IEventMonitor application.

In the left hand panel, select the “Assign certificate” link. Select the IEVENT certificate, then press the “Assign to Applications” button. Locate the IEventMonitor application in the list displayed and place a check mark next to it. Press the “Continue” button. A message will be displayed confirming that the certificate is now assigned to the application.

Step 7 - Start the updated IEVENTMON server instance.

On the IEMSVR menu in library IEMLIB, start the HTTP server instance using option #1. Or, you can issue this command from the command line:

```
STRTCPSVR SERVER(*HTTP) HTTPSVR(IEVENTMON)
```

This will start the server instance that has been converted for use with HTTPS security. Use option

3 on the IEMSVR menu to check if the server starts correctly. When active, it will have at least 4 jobs active. If the server instance fails to start, make sure there is not another server instance active using the secure port number 443. Only one application at a time can be active using this port. If you need more than one active, you will have to change the server instance to use a different port number.

Step 8 - Verify that the configuration is working correctly.

Once the server instance has been started, enter the following web address into your browser's address box:

https://yoursystemi.com

A test page from the IEVENTMON server instance should be displayed. As stated earlier, a warning message about the certificate in use may be issued by your browser. Please note the comments associated with Step 3 above about this issue.

Note: Switching to https will change the port number use for access. The default port number for https access will now be active so there is no need to specify port number 8077 as you did with plain http access.