IBM Tivoli Monitoring

Integration with Tivoli Enterprise Console

Version 5.1.1

Integration with the Tivoli Enterprise Console

These pages document new features that apply to the integration with the Tivoli Enterprise Console server.

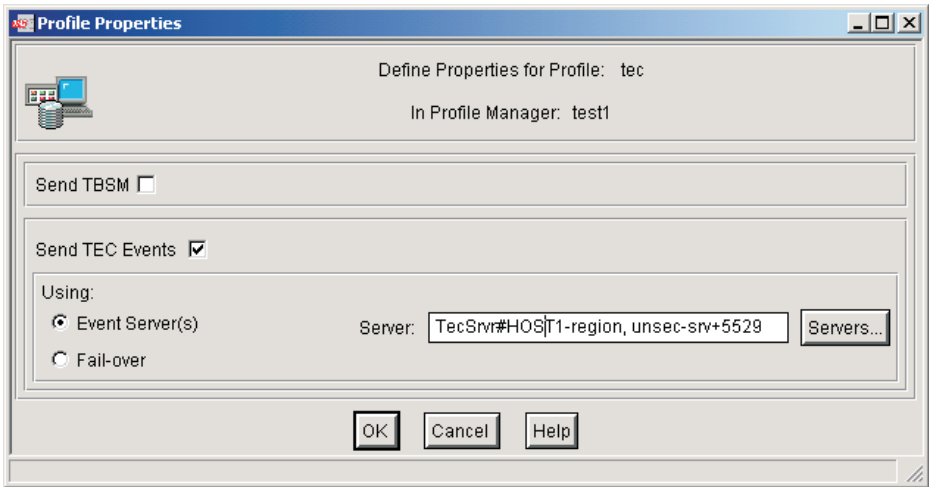
Identifying the Tivoli Enterprise Console Server to Tivoli Monitoring

For each profile you create, you must identify the Tivoli Enterprise Console server (or multiple servers) that you want to use to monitor the Tivoli Monitoring events. You can also choose to send unsecure events to the Availability Intermediate Manager (AIM).

To set the identity of the Tivoli Enterprise Console® server for all resource models in a profile, perform the following steps:

1. Open the Tivoli Monitoring Profile dialog.
2. Select **Edit → Properties**.

   The Properties dialog opens and displays the name of the profile for which the server identity is to be set, and the profile manager in which the profile is located. It also displays the option **Send to TBSM**.



3. Check the **Send TEC Events** check box to send events to a Tivoli Enterprise Console server (or multiple servers) or to AIM (only for unsecure delivery events).

   Note: If you do not select this check box, no events are sent to the Tivoli Enterprise Console server, even if you selected the **Send TEC Events** check box in the Indications and Actions dialog.

   Once this is checked, the **Using** section of the dialog is enabled. The **Using** section is disabled if the **Send TEC Events** check box is not selected. You *must* select a delivery mode, the mutually exclusive choices are:

   - **Event Server(s)**

     If you choose this option, all events will be sent to the specified Tivoli Enterprise Console server, or multiple servers. Specify the server or select it from the **Servers** drop-down list. If you specify a server with no region

name, the events will be sent to the local Tivoli Enterprise Console server. To indicate multiple servers, use comma as a separator. If the server is an unsecure server, specify the server location followed by the plus '+' sign and the server port.

- **Fail-over**

  If you choose this option, all events will be sent to one unsecure Tivoli Enterprise Console server. If you specify multiple servers, the events will be sent to the first available server in the list. Servers are specified by the server location followed by the plus '+' sign and the server port.

  In the case of secure servers, it is a responsibility of the Tivoli Enterprise Console gateway to ensure that events are sent to the first available server in the recovery list (the Tivoli Enterprise Console configuration file on the gateway can be modified for such purpose).

Note: When Fail-over is selected as the delivery mode, and the server to which the event has been sent goes down, the clearing event is sent to the first available server in the list. The original event needs to be closed manually once the server is active again.

Note: On OS/400 endpoints, events can only be sent to an unsecure Tivoli Enterprise Console server. Any attempt to send an event to a secure server on OS/400, results in the event not being sent and an error is logged.

4. Click **OK** to save the properties.

   The Tivoli Monitoring Profile dialog is redisplayed.

Changes for the wdmeditprf command

This section documents the syntax and options for the wdmeditprf command, in support of the new features previously described.

wdmeditprf

Allows you to edit the definition of a profile, including all resource model details.

Usage

wdmeditprf –P *profile#region* **–add** *resource_model*

wdmeditprf –P *profile#region* **–add** *resource_model* **–c** *cycle_time*

wdmeditprf –P *profile#region* **–add** *resource_model*
–t *threshold threshold_value* [**–t** *threshold threshold_value*]...

wdmeditprf –P *profile#region* **–add** *resource_model* **–e** *event* [**–o** *occurrences*] [**–h** *holes*]
[**–SendTec** | **–NoSendTec**] [**–SendTBSM** | **–NoSendTBSM**] [**–severity** *severity_type*]
[**–e** *event* [**–o** *occurrences*] [**–h** *holes*] [**–SendTec** | **–NoSendTec**]
[**–SendTBSM** | **–NoSendTBSM**] [**–severity** *severity_type*]]...

wdmeditprf –P *profile#region* **–add** *resource_model* **–Log** [**–LogEnable** | **–LogDisable**]
[**–p** *period*] [**–Agg** {**yes** | **no**}] [**–ap** *aggregation_period*] [**–Min** | **–NoMin**]
[**–Max** | **–NoMax**] [**–Avg** | **–NoAvg**]

wdmeditprf –P *profile#region* **–add** *resource_model*
–AddPar *parameter_name parameter_value*
[**–AddPar** *parameter_name parameter_value*]...

wdmeditprf –P *profile#region* **–add** *resource_model*
–AddTask *event task_library task_name* [*task_parm*]...

wdmeditprf –P *profile#region* **–add** *resource_model* **–enable** | **–disable**

wdmeditprf –P *profile#region* **–edit** *resource_model* **–c** *cycle_time*

wdmeditprf –P *profile#region* **–edit** *resource_model*
–t *threshold threshold_value* [**–t** *threshold threshold_value*]...

wdmeditprf –P *profile#region* **–edit** *resource_model* **–e** *event* [**–o** *occurrences*] [**–h** *holes*]
[**–SendTec** | **–NoSendTec**] [**–SendTBSM** | **–NoSendTBSM**] [**–severity** *severity_type*]
[**–e** *event* [**–o** *occurrences*] [**–h** *holes*] [**–SendTec** | **–NoSendTec**]
[**–SendTBSM** | **–NoSendTBSM**] [**–severity** *severity_type*]]...

wdmeditprf –P *profile#region* **–edit** *resource_model* **–Log** [**–LogEnable** | **–LogDisable**]
[**–p** *period*] [**–Agg** {**yes** | **no**}] [**–ap** *aggregation_period*] [**–Min** | **–NoMin**]
[**–Max** | **–NoMax**] [**–Avg** | **–NoAvg**]

wdmeditprf –P *profile#region* **–edit** *resource_model*
–AddPar *parameter_name parameter_value*
[**–AddPar** *parameter_name parameter_value*]...

wdmeditprf –P *profile#region* **–edit** *resource_model*
–DelPar *parameter_name parameter_value*
[**–DelPar** *parameter_name parameter_value*]...

wdmeditprf –P *profile#region* **–edit** *resource_model*

–AddTask *event task_library task_name* [*task_parm*]...

wdmeditprf –P *profile#region* **–edit** *resource_model*
–DelTask *event task_library task_name*

wdmeditprf –P *profile#region* **–edit** *resource_model* **–enable** | **–disable**

wdmeditprf –P *profile#region* **–list**

wdmeditprf –P *profile#region* **–print** *resource_model* [**–t**] [**–e**] [**–tasks**] [**–Log**] [**–c**] [**–par**] [**–schedule**] [**–Tec**] [**–TBSM**]

wdmeditprf –P *profile#region* **–remove** *resource_model*

wdmeditprf –P *profile#region* **–TBSM** {**yes** | **no**}

wdmeditprf –P *profile#region* **–Tec** {**broadcast –S** *server_list* | **failover –S** *server_list* | **no**}

Purpose

The **wdmeditprf** command lets you change various attributes of a profile:

- Resource models can be added with default values or with value supplied by you
- Resource model details can be edited
- Profiles or selected resource model details can be printed
- The destination monitors for events generated by the resource model can be defined
- The tasks triggered by events, generated by the resource model, can be defined.

Resource models can be added using all of the default values supplied, which are documented in the *IBM Tivoli Monitoring: Resource Model Reference*. Alternatively you can add a model with one or more values modified to suit your circumstances. You can also edit any of the details of an existing resource model. The various options shown in the *Syntax* section, above, and defined in the *Options* section, below, are non-exclusive; thus you could issue a single command to add a resource model modifying the default values of, for example, the cycle time and an event. You could then issue a separate command to edit, for example, the logging details and two thresholds.

Parameters

The options to the **wdmeditprf** command must be specified in the correct sequence:

1. **–P** *profile#region*
2. **–add**, **–edit**, **–list**, **–print**, **–remove**, **–TBSM** or **–Tec**
3. *resource_model* (if appropriate)
4. Arguments to the **–add** or **–edit** options: these can be entered in any order

The option details are as follows:

–P *profile#region*
The profile on which the actions of this command are to be performed.

–add *resource_model*
Adds the named resource model to the profile. See *IBM Tivoli Monitoring: Resource Model Reference* for details of the correct resource model names to use.

The command may optionally be followed by one or more of the resource model arguments, that will modify the default values of the named resource model; only the values that need changing need to be specified. Details of these arguments are given following the **–Tec** option.

–edit *resource_model*
Specifies that you want to edit the named resource model.

The command may optionally be followed by one or more of the resource model arguments, that will modify the default values of the named resource model; only the values that need changing need to be specified. Details of these arguments are given following the **–Tec** option.

–list
Lists a summary of the profile details to the standard output. The output format is as follows:

```
Resource Model                  Enable
DMXFileSystem                   YES
DMXMemory                       YES
DMXProcess                      YES
TMW_ParamEventLog               NO
```

–print *resource_model*
Prints basic information about the named resource model. Additional information can be obtained by specifying one or more of the following arguments:

–c For printing cycle time information.

–e For printing event information.

–tasks For printing information associated with tasks.

–Log For printing data logging information.

–par For printing parameter information (for parametric resource models).

–schedule
For printing schedule information.

–t For printing threshold information.

–Tec For printing information related to the Tivoli Enterprise Console.

–TBSM
For printing information related to the Tivoli Business System Manager.

–remove *resource_model*
Removes the named resource model from the profile.

–TBSM
Specifies whether events for this profile are to be sent to the Tivoli Business Systems Manager. The options are:

yes Specifies that events will be sent to the Tivoli Enterprise Console server.

no Specifies that no events will be sent to the Tivoli Enterprise Console server. If this option is selected it will ignore any requests to “Send to TBSM” that you specify or may have specified for individual indications.

–Tec
Specifies whether events for this profile are to be sent to the Tivoli Enterprise Console server, and identifies the server. The options are:

broadcast –S *server_list*
Specifies that the events will be sent to all Tivoli Enterprise Console servers in the list. To indicate multiple servers, use comma as a separator. If you specify a server with no region name, the events will be sent to the local Tivoli Enterprise Console server. If the server is an unsecure server, specify the server location followed by the plus '+' sign and the server port.

failover –S *server_list*
Specifies that the events will be sent to the first available unsecure Tivoli Enterprise Console server in the list. Servers are specified by the server location followed by the plus '+' sign and the server port.

no Specifies that no events will be sent to the Tivoli Enterprise Console server. If this option is selected it will ignore any requests to "Send to TEC" that you specify or may have specified for individual indications.

Arguments to the –add and –edit options
The **–add** and **–edit** options can take any of the following arguments, in any order. Only the specified values will be changed:

–AddPar *parameter_name parameter_value*
Defines the values of the parameters for parametric resource models. Each parameter is of one of four types. Details of the parameter names and types for each parametric resource model can be found in the *IBM Tivoli Monitoring: Resource Model Reference*. The parameter values are added using the **–AddPar** option according to the parameter type, as follows:

- **Numeric:**

  A list of numeric values. The **–AddPar** option appends the value supplied in *parameter_value* to the existing values in the numeric parameter.
- **String:**

  A list of strings. The **–AddPar** option appends the string supplied in *parameter_value* to the existing values in the string parameter.
- **Boolean list:**

  A boolean list of pre-defined non-exclusive values. The **–AddPar** option switches the boolean list value supplied in *parameter_value* to the *true* state. To switch it to the *false* state use the **–DelPar** option.
- **Choice list:**

  A choice list of pre-defined exclusive alternatives. The **–AddPar** option selects the choice list value supplied in *parameter_value*; the previously selected value will automatically be deselected when the command is performed.

–AddTask *event task_library task_name* **[** *task_parm* **]...**
Defines the values associated to a task:

- *event*

  The event which triggers the task.
- *task_library*

  The task library for the specified task.
- *task_name*

  The name of the task.
- *task_parm*

  Any task parameters.

–c *cycle_time*
Changes the default value of the cycle time of a resource model. The value is supplied as a number of seconds.

–DelPar *parameter_name parameter_value*
Changes the values of the parameters for parametric resource models. Each parameter is of one of four types. Details of the parameter names and types for each parametric resource model can be found in the *IBM Tivoli Monitoring: Resource Model Reference*. The parameter values are changed using the **–DelPar** option according to the parameter type, as follows:

- **Numeric:**

  A list of numeric values. The **–DelPar** option deletes the value supplied in *parameter_value* from the existing values in the numeric parameter.
- **String:**

  A list of strings. The **–DelPar** option deletes the string supplied in *parameter_value* from the existing values in the string parameter.
- **Boolean list:**

  A boolean list of pre-defined non-exclusive values. The **–DelPar** option switches the boolean list value supplied in *parameter_value* to the *false* state. To switch it to the *true* state use the **–AddPar** option.
- **Choice list:**

  This type of parameter cannot be modified with the **–DelPar** option; use the **–AddPar** instead.

–DelTask *event task_library task_name*
Deletes a task with the specified values from the resource model:

- *event*

  The event which triggers the task.
- *task_library*

  The task library for the specified task.
- *task_name*

  The name of the task.

–disable
Disables the resource model for the defined profile.

–e *event*
Changes the default value for a named event. Any number of events can be defined. The specific values that can be changed are the following:

- **–h** *holes*:

  Defines the number of consecutive holes (cycles where an indication does not happen) that can interrupt the count of consecutive occurrences without zeroing that count.
- **–o** *occurrences*

  Defines the number of consecutive occurrences (cycles where an indication happens) that are needed to trigger the event.
- **–NoSendTBSM**

  Defines that the event is not to be sent to Tivoli Business Systems Manager.
- **–NoSendTec**

  The event is not to be sent to the Tivoli Enterprise Console server.
- **–SendTBSM**

Defines that the event is to be sent to Tivoli Business Systems Manager.

- **–SendTec**

  Defines that the event is to be sent to the Tivoli Enterprise Console server.

- **–severity** *severity_type*

  The severity type of the event must be one of the following: FATAL, CRITICAL, WARNING, HARMLESS, MINOR.

–enable
Enables the resource model for the defined profile.

–Log Changes the default values for the data logging details. The specific values that can be changed are the following:

- **–Agg {yes | no}**

  Determines whether logging data will be aggregated (**yes**) or not (**no**).

- **–ap** *aggregation_period*

  Defines the period for which data is aggregated, in the format HH:MM; max 24:00 hours.

- **–Avg**

  Defines that the average of the values encountered during the aggregation period will be logged.

- **–LogDisable**

  Defines that the data logging feature is to be disabled.

- **–LogEnable**

  Defines that the data logging feature is to be enabled.

- **–Max**

  Defines that the highest value encountered during the aggregation period will be logged.

- **–Min**

  Defines that the lowest value encountered during the aggregation period will be logged.

- **–NoAvg**

  Defines that the average of the values encountered during the aggregation period will not be logged (see option **-Avg**)

- **–NoMax**

  Defines that the highest value encountered during the aggregation period will not be logged (see option **-Max**)

- **–NoMin**

  Defines that the lowest value encountered during the aggregation period will not be logged (see option **-Min**)

- **–p** *period*

  Defines the historical duration of data in the data logging database, in the format HH:MM; max 24:00 hours.

–t *threshold threshold_value*
Defines the value for a named threshold; any number of thresholds can be defined.

Authorization

Requires the super, senior or admin roles.

Examples

1. The following example adds the resource model **MyResourceModel** to the profile **MyProfile** in the region **MyRegion**, using all of the default values:

   ```
   wdmeditprf –P MyProfile#MyRegion -add MyResourceModel
   ```

2. The following example adds the resource model **MyResourceModel** to the profile **MyProfile** in the region **MyRegion**, changing a selection of the defaults (the changed values are shown on separate lines for clarity, but would normally be concatenated in a single string):

   ```
   wdmeditprf –P MyProfile#MyRegion -add MyResourceModel
   -t MyThreshold 60
   -e MyEvent1 -o 5 -h 2 -SendTec -severity WARNING -NoSendTBSM
   -Log -LogEnable -Agg yes -ap 00:30 -Min -NoMax -Avg -p 12:00
   -c 120
   -enable
   ```

3. The following example edits the parametric resource model **MyParamEventLog** in the profile **MyProfile** in the region **MyRegion**, changing a selection of the defaults:

   ```
   wdmeditprf –P MyProfile#MyRegion -edit MyParamEventLog
   -AddPar Eids 2034 -AddPar Source Win2K -DelPar Source WinNT
   -AddPar Severity warning -DelPar Severity Information
   -AddPar FilterType and
   ```

4. The following example lists a summary of the profile **MyProfile** in the region **MyRegion** on the standard output:

   ```
   wdmeditprf –P MyProfile#MyRegion -list
   ```

5. The following example prints basic information about the resource model **MyResourceModel** in the profile **MyProfile** in the region **MyRegion**:

   ```
   wdmeditprf –P MyProfile#MyRegion -print MyResourceModel
   ```

6. The following example prints information about the resource model **MyResourceModel** in the profile **MyProfile** in the region **MyRegion**, including information on the cycle time, the events, the data logging and the parameters:

   ```
   wdmeditprf –P MyProfile#MyRegion -print MyResourceModel -c -e -Log -par
   ```

7. The following example removes the resource model **MyResourceModel** from the profile **MyProfile** in the region **MyRegion**:

   ```
   wdmeditprf –P MyProfile#MyRegion -remove MyResourceModel
   ```

8. The following example enables the sending of events to Tivoli Business Systems Manager for the profile **MyProfile** in the region **MyRegion**:

   ```
   wdmeditprf –P MyProfile#MyRegion -TBSM yes
   ```

9. The following example disables the sending of events to Tivoli Business Systems Manager for the profile **MyProfile** in the region **MyRegion**:

   ```
   wdmeditprf –P MyProfile#MyRegion -TBSM no
   ```

10. The following example defines that events will be sent to the Tivoli Enterprise Console servers **EventServer1** and **EventServer2** in the region **MyRegion**:

    ```
    wdmeditprf –P MyProfile#MyRegion -Tec broadcast -S EventServer1, EventServer2
    ```

11. The following example disables the sending of events to the Tivoli Enterprise Console server for the profile **MyProfile** in the region **MyRegion**:

    ```
    wdmeditprf –P MyProfile#MyRegion -Tec no
    ```

wdmdumpprf

wdmloadprf