IBM Tivoli Netcool® Performance Manager for Wireless 9.1.2

Using the optional extended functions menu to create a Non-Stored busy hour report

Assumptions

Before attempting this module, you should already know how to use IBM Tivoli Netcool Performance Manager for Wireless 9.1.2 software to perform the following tasks:

▸ Log into the Tivoli Netcool Performance Manager for Wireless (TNPMW) server

▸ Create and run a basic report definition

▸ Navigate to and open TNPMW documents

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Create and run a basic report definition

Navigate to and open TNPMW documents

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Assumptions (continued)

If you can not perform the previous tasks, you can learn how to do them by taking an IBM Tivoli Netcool Performance Manager for Wireless 9.1.2 User course titled IBM Tivoli Netcool Performance Manager for Wireless 9.1.2 User:

http://www.ibm.com/software/tivoli/education/edu_prd.html#X916845N81075L22

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If you can not perform the previous tasks, you can learn how to do them by taking an IBM Tivoli Netcool Performance Manager for Wireless 9.1.2 User course.

Upon completion of this module, you should be able to:

•Understand what is represented by the term busy hour

•Explain the difference between a stored busy hour and a non-stored busy hour

•Navigate to and use the **Type, Repository,** and **Folder** menus to bring up an existing report definition

•Understand the **Optional Extended Functions** fields used in defining a non-stored busy hour report definition

Busy hour definition

A busy hour represents the period with the greatest value for any performance metric for a defined period of time.

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Non-stored busy hour definition

A non-stored busy hour is a newly computed calculation. This calculation is performed with data not found in prior aggregations or stored reports. Non-stored busy hour measurements yield a single busy hour determination for a current day, week, or month.

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Selecting a report definition for editing

In this example we choose an existing report named **Nokia-Cell-Attempts-D**. We will edit this report definition to add the optional extended function parameters. These parameters are needed for a non-stored busy hour report definition. We first select the desired report definition. Next, we click the **open** button**.**

The existing report definition named **Nokia-Cell-Attempts-D** is now loaded. The name of the report we loaded is shown displayed under the **Report Name** heading. Notice that the first four steps are filled in on an existing report definition. Of major importance is the entry selected in **Step 2: Focal Entity Type.**

Cell as the focal entity type

Report Definition Section	Guideline
FOCAL ENTITY TYPE	Cell
FIELD SELECTION	Cell.CallAttmpt
DATE-TIME SELECTION	• Date: 11/16-11/22 • Time: 00:00-24:00
FILTERING	101
BUSY HOUR	• Non-Stored Busy Hour • Cluster Entity: Cell • Criterion field: Cell.CallAttmpt • Group by: Day
GROUP BY	Attribute and Time: Cell_ID, Day, Hour

In the table example presented here **Cell** is the chosen **Focal Entity Type**. This choice dictates what can be chosen in **Step 3: Field Selections** .
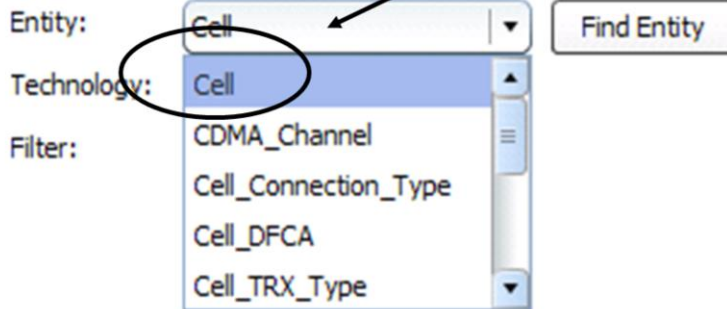
This slide shows a report definition with a **Step 2: Focal Entity Type** set to **Cell**. Also shown are some of the many **Step 3: Field Selections Entity** options available to **Cell**. The primary fixed point of a non-stored busy hour report definition is always the focal entity type selected. **Step 3: Field Selections** options change when we change the **Step 2: Focal Entity**.

This slide shows a totally different report definition with a **Step 2: Focal Entity Type** set to **HLR**. The **Focal Entity Type** selection is central to the non-stored busy hour report definition. Notice that **HLR** has only three **Entity** options available.

Using the optional extended functions menu to create a non-stored busy hour report

With the prior slides in mind, we will begin demonstrating modifying an existing report definition. We will do this by opening the **Optional: Extended Functions** section. This section is currently blank. We click the **edit** button to the far right of the **Optional: Extended Functions** heading in order to begin.

The **Optional: Extended Functions** section has two subsections which we will edit. They are **BUSY HOUR** and **GROUP BY.** We start by editing the **BUSY HOUR** subsection. To do this we click the **edit** button to the far right of **BUSY HOUR**.

Optional extended functions busy hour menu options
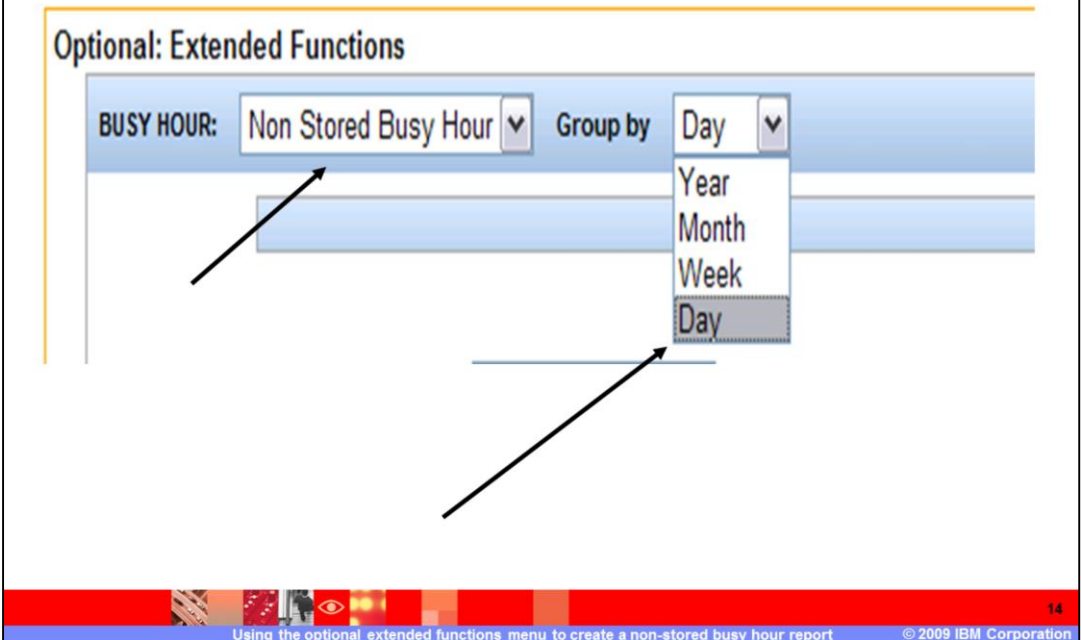
The **Busy Hour**:field only accepts **Non Stored Busy Hour**. **Group by** gives the option of choosing between **Day**, **Week**, **Month**, and **Year**. In this example **Day** is selected. If the user selects a **Group by** value of **Month** then one busy hour will be returned per focal entity for each month in the report. **Group by** is usually left with the default value of **Day**.

More BUSY HOUR field menu selections

For this demonstration we select the following field menu items to complete the **BUSY HOUR** subsection:

• **Field Selection**: **By Selection**

• **Cluster Entity**: **Cell**

• **Field Filter**: ***** (**wildcard asterisk)**

• **Entity: Cell**, **CallsAttempted**

Next, we click the **set** button.

Next, we click the **GROUP BY** subsection **edit** button.

This uppercase **GROUP BY** subsection is not to be confused with the **Group by** day, week, month selection menu viewed prior under the **BUSY HOUR** subsection.

Editing the GROUP BY subsection

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The **GROUP BY** subsection is now opened. The following modifications have been made for non-stored busy hour reporting on the network cells:

GROUP BY menu is set to **Attribute and Time**

Group by Time is set to **Day**

Group by Attribute is set to **Cell**

We click on **Browse Entities** and select **Cell.BSC_Id**. This will cause the report to monitor and output data on the busiest traffic hour of the day selected for network cells by their BSC identification number.

Next, we click the **set** button.

First, we click the **add** button to designate **Cell.BSC.Id** as our **Group by Attribute** selection.

Next, we click the **set** button located to the far right.

The non-stored busy hour report definition now shows set information contained in both the **BUSY HOUR** and **GROUP BY** sections. We can now save and run the report definition.

Summary

You should now be able to:

- Understand what is represented by the term busy hour.
- Explain the difference between a stored busy hour, and non-stored busy hour.
- Navigate to and use the **Type, Repository,** and **Folder** menus to bring up an existing report definition.
- Understand the **Optional Extended Functions** fields used in defining a non-stored busy hour report definition.

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You should now be able to:

Understand what is represented by the term busy hour.

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Navigate to and use the **Type, Repository,** and **Folder** menus to bring up an existing report definition.

Understand the **Optional Extended Functions** fields used in defining a non-stored busy hour report definition.

Click the upper link to see the IBM Tivoli Netcool Performance Manager for Wireless training page.

Click the lower link for more IBM Tivoli Netcool Performance Manager for Wireless information.

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