

IBM Tivoli Netcool Performance Manager for Wireless 9.2.1

Creating a stored busy hour report



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IBM Tivoli® Netcool® Performance Manager for Wireless version 9.2.1

Creating a stored busy hour report

Assumptions

You have basic knowledge of the wireless telecommunications industry.

You know how to navigate the IBM Tivoli Netcool Performance Manager for Wireless graphical user interface.

You know how to make a basic IBM Tivoli Netcool Performance Manager for Wireless report.

Assumptions

You have basic knowledge of the wireless telecommunications industry.

You know how to navigate the ITNPMW graphical user interface.

You know how to make a basic ITNPMW report.

Objectives

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

- Describe IBM Tivoli Netcool Performance Manager for Wireless 9.2.1 Stored Busy Hour Reporting
- Create an IBM Tivoli Netcool Performance Manager for Wireless stored busy hour report

Objectives

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

Describe IBM Tivoli Netcool Performance Manager for Wireless (ITNPMW) 9.2.1 stored busy hour reporting

Create an ITNPMW stored busy hour report

Module outline

- Busy hour overview
- Creating an IBM Tivoli Netcool Performance Manager for Wireless stored busy hour report
- Summary

Module outline

ITNPMW stored busy hour reporting overview

Creating an ITNPMW stored busy hour report

Summary

What is a busy hour

- Definition of **busy hour**
- The time periods of a busy hour
- Computing **busy hour**

What is a busy hour

A **busy hour** represents the period with the greatest value for any performance metric as represented by a field for a defined period of time.

The time period can be daily, weekly, or monthly.

When a **busy hour** is computed, it yields a single busy hour value for the defined period.

Stored busy hour reporting

- IBM Tivoli Netcool Performance Manager for Wireless can compute and store data for the busiest hour
- Stored busy hour (SBH) table updates
- Database's stored busy hour tables

Stored busy hour reporting

ITNPMW can compute and store data for the busiest hour of the day, week, or month based on a busy hour definition that includes: the designated busy hour determiner and associated fields values.

Stored busy hour (SBH) tables are updated, usually nightly, for the defined time period.

Upon generation the busy hour data is stored as fields within the database's stored busy hour tables for future reference.

Valid stored busy hour (SBH) report field type combinations

Valid field type combinations supported in IBM Tivoli Netcool Performance Manager for Wireless stored busy hour report definitions:

- SBH fields
- SBH and Attribute fields
- SBH and Summary fields
- SBH, Attribute, and Summary fields

Valid Stored Busy Hour (SBH) Report Field Type Combinations

The following field type combinations are supported in ITNPMW stored busy hour report definitions:

SBH fields

SBH and Attribute fields

SBH and Summary fields

SBH, Attribute, and Summary fields

Stored busy hour reporting overview

- Similar creation process as basic report
- Field selection window
 - Selecting field type
 - Fields selected

ITNPMW stored busy hour reporting overview

Similar creation process as basic report

Key difference is in Field Selection window -

Select field type to filter interface to display configured stored busy hours

Field selected are either stored busy hour determiner or value

Steps 1 and 2: Selecting the data source and focal entity type

The screenshot shows the 'define report' wizard in the Netcool Performance Manager. The interface includes a navigation bar with 'define report', 'manage report', 'kpi browser', 'new schedule', 'manage schedule', and 'reporting help'. The wizard steps are:

- Step 1: DataSource Selection (student138.ibm.com.rs)
- Step 2: Focal Entity Type (Cell selected)
- Step 3: Field Selections (None Selected)
- Step 4: Date-Time Selection (None Selected)
- Step 5: Filtering (None Selected)
- Optional: Extended Functions (None Selected)

Buttons at the bottom include 'Save', 'Run', 'Filter & Run', and 'Cancel'. A 'How Do I?' help panel on the right lists tasks like 'Select a Data Source', 'Select a Focal Entity Type', 'Select a Field', 'Make a Relative Date-Time Selection', 'Make a Calendar Date-Time Selection', 'Build a Filter', 'Select Busy Hour Options', 'Select Group By Options', and 'Select Ranking Options'.

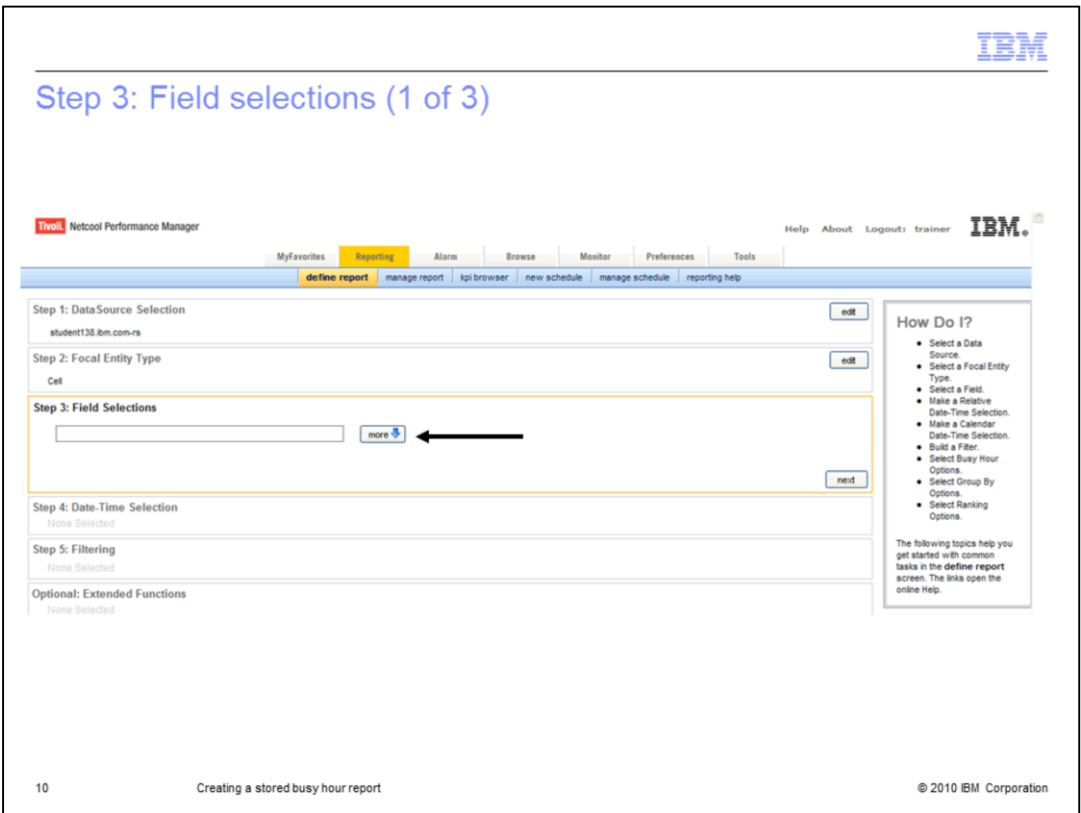
Steps 1 and 2: Selecting the datasource and focal entity type

Step 1: Data source selection

Select the data source is the same manner as a basic report

Step 2: focal entity type

The focal entity must be the same as the focal entity of the stored busy hour definition. Once the focal entity is selected click the Next button.



Step 3: Field selections

In this section of the report definition you must select the busy hour definition of interest and the associated fields of interest for display in the stored busy hour report.

Click the **more** button in **Step 3: Field Selection** to access the available stored busy hour definitions.

Step 3: Field selections (2 of 3)

Step 3: Field Selections

Entity: **Cell** Find Entity Vendor: **Nokia**

Technology: <All Technology Type> Field Type: **Daily SBH** SBH Definition: **Cell_HSCSD_Traffic_Busy_Hour**

Filter: * Extended Search Refresh Fields

Groups: Standard

Group	Name	User Defined Group	Alias	Description	Source
Nokia.Resource_Availability	sbhd.daily.ave_busy_tch_hscsd			The average of :	
Nokia.High_Speed_Data	sbhv.daily.ala_from_14400_to_9600			The number of /	
Nokia.High_Speed_Data	sbhv.daily.ala_from_9600_to_14400			The number of /	
Nokia.Resource_Availability	sbhv.daily.ave_busy_tch_hscsd			The average of :	

Drag the fields you wish to report on here:

Group	Name	Description	Source	Data Avail.	Technology	Vendor	Entity	Field Ty

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In Step 3: Field Selections (continued)

1. Set the **Entity** field to the entity level of the stored busy hour definition. In this example the level is cell.
2. Set the **Field Type** to the type of stored busy hour, either Daily SBH, Weekly SBH, or Monthly SBH.
3. Optionally set the Vendor filter to display only stored busy hour definitions for a particular vendor. In the example the applicable vendor filter is Nokia.
4. Click the **Refresh Fields** button to filter the fields view to display the applicable busy hour determiner and busy hour field values.
5. Note: The stored busy hour determiner has the prefix **sbhd** added to its name. The field associated with the busy hour determiner have the prefix **sbhv** added to their names.

Step 3: Field selections (3 of 3)

Step 3: Field Selections

Entity: Find Entity Vendor:

Technology: Field Type: SBH Definition:

Filter: Extended Search

Groups:

Group	Name	User Defined Group	Alias	Description	Source
Nokia.Resource_Availability	sbhd.daily.ave_busy_tch_hscsd			The average of :	
Nokia.High_Speed_Data	sbhv.daily.ala_from_14400_to_9600			The number of /	
Nokia.High_Speed_Data	sbhv.daily.ala_from_9600_to_14400			The number of /	
Nokia.Resource_Availability	sbhv.daily.ave_busy_tch_hscsd			The average of :	

Drag the fields you wish to report on here:

Group	Name	Description	Source	Data Avail.	Technology	Vendor	Entity	Field Ty
Nokia.Resource_Availability	sbhd.daily.ave_busy_tch_	The average of /		None	GSM	Nokia	Cell	Daily SB
Nokia.High_Speed_Data	sbhv.daily.ala_from_144C	The number of /		None	GSM	Nokia	Cell	Daily SB

In Step 3: Field Selections (continued)

1. Drag and drop the desired field selections for the report run into the lower box.

Note: It is not required to include the busy hour determiner in your report but including it will make it easier to interpret the report results.

2. Click the **next** button after selecting and moving the desired report run fields.

Completing the report definition

The screenshot shows a multi-step wizard for creating a report. The steps are:

- Step 4: Date-Time Selection**: Shows "Selected Date-Times" with "7 Day(s)" and "00:00-24:00". It also indicates "Start Of Week: Default (Sunday)" and "Include holidays Mon,Tue,Wed,Thu,Fri,Sat,Sun".
- Step 5: Filtering**: Shows "None Selected".
- Optional: Extended Functions**: Shows "Group by" set to "Attribute And Time: Cell_Cell_Id, Day", "Ranking" set to "None selected", and an "edit" button.

At the bottom, there are four buttons: "Save", "Run", "Filter & Run", and "Cancel".

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Creating a stored busy hour report

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Completing the report definition

1. In **Step 4: Date Time Selection**

Select the applicable date-time parameters for your report in the same manner as a basic report.

2. In **Step 5: Filtering**

Optional: Set any applicable network, traffic, and vendor filters in the same manner as a basic report.

3. **Optional: Extended Functions**

Optional: Use the default Group By setting of FocalEntity.Entity_ID and Day or select the applicable options to focus busy hour reporting on specific attribute and time groupings.

4. Click the Save button to save the report or run the report immediately by clicking the Run or Filter & Run button.

Stored busy hour report results

Table View Show/Hide

Show/Hide Settings

Show all key columns

Click on an entity or use search to filter

Selected Entities: Search: 1/36

1-1-1-1
1-1-1-2
1-1-1-3
1-1-2-1
1-1-2-2

Sort by multiple:

Field 1: Order 1:

Field 2: Order 2:

Field 3: Order 3:

page 1 of 3 go

CELL_CELL_ID	T_DAY	Cell_Cell_HSCSD_Traffic_Busy_Hour_Hour	DAILY_AVE_BUSY_TCH_H...	DAILY_ALA_FRC
1-1-1-1	1/25/10	15:00	4.707	4703
1-1-1-1	1/26/10	06:00	3.728	3649
1-1-1-1	1/27/10	06:00	4.642	4123
1-1-1-1	1/28/10	09:00	4.606	2460
1-1-1-1	1/29/10	01:00	4.676	3781
1-1-1-1	1/30/10	22:00	4.167	2770
1-1-1-1	1/31/10	14:00	3.821	2167
1-1-1-2	1/25/10	16:00	4.493	3636
1-1-1-2	1/26/10	00:00	4.286	4030
1-1-1-2	1/27/10	17:00	4.161	4790
1-1-1-2	1/28/10	00:00	4.161	5267
1-1-1-2	1/29/10	00:00	3.671	3680
1-1-1-2	1/30/10	01:00	4.209	2311
1-1-1-2	1/31/10	06:00	3.756	3532
1-1-1-3	1/25/10	12:00	3.726	3978
1-1-1-3	1/26/10	14:00	3.926	3496
1-1-1-3	1/27/10	09:00	4.397	2708
1-1-1-3	1/28/10	19:00	4.336	2059
1-1-1-3	1/29/10	10:00	4.488	4568
1-1-1-3	1/30/10	23:00	3.701	4562
1-1-1-3	1/31/10	22:00	4.836	5206
1-1-2-1	1/25/10	12:00	3.44	2709
1-1-2-1	1/26/10	08:00	3.969	2320
1-1-2-1	1/27/10	18:00	3.632	4611
1-1-2-1	1/28/10	16:00	4.126	3469
1-1-2-1	1/29/10	06:00	3.889	1783
1-1-2-1	1/30/10	14:00	3.617	3423
1-1-2-1	1/31/10	07:00	3.711	4909
1-1-2-2	1/25/10	13:00	4.399	1969
1-1-2-2	1/26/10	16:00	4.679	2899
1-1-2-2	1/27/10	12:00	4.128	3542
1-1-2-2	1/28/10	07:00	4.696	4106
1-1-2-2	1/29/10	00:00	4.121	5612
1-1-2-2	1/30/10	23:00	4.066	4036
1-1-2-2	1/31/10	11:00	4.262	3976

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Stored busy hour report results

The stored busy hour report output displays the busiest hour for each cell over the selected 7-day period.

Summary

Now that you have completed this module, you should be able to:

- Describe IBM Tivoli Netcool Performance Manager for Wireless 9.2.1 stored busy hour reporting
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Summary

Now that you have completed this module, you should be able to:

Describe IBM Tivoli Netcool Performance Manager for Wireless (ITNPMW) 9.2.1 stored busy hour reporting

Create an ITNPMW stored busy hour report

Training roadmap for IBM Tivoli Netcool Performance Manager for Wireless

- Click this link to go to the training page

http://www-01.ibm.com/software/tivoli/education/edu_prd.html

- Click this link for the section on

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