

# HP Network Node Manager i Software

Step-by-Step Guide to Scheduling Reports using Network Performance Server

NNMi 9.1x Patch 2

This document shows an example of building a daily report for the iSPI Performance for Metrics product. The information in the document is specific to version 9.10 of iSPI Performance for Metrics; although, the general procedure applies to other iSPIs as well. These procedures are subject to change in future releases.

All screenshots in this paper are from the Network Performance Server (NPS) graphical user interface.

## CONTENTS

Introduction	
Procedure	
Prepare the Infrastructure	
Populate the Report Folder	6
Configure your Individual Report	
Scheduling Reports	
Scheduling a Report	
Scheduling a Job	
Testing	
Viewing and Managing the Reports	
Emailing Reports	

# Introduction

This document shows an example of building a daily report for the iSPI Performance for Metrics product.

In this paper, we will build a daily report that graphs the top 10 utilized interfaces in a particular interface group (FA Interfaces in Colorado) using the Top N Chart template. This daily report will be available to all users.

# Procedure

## Prepare the Infrastructure

We first need to set up a folder to hold our scheduled reports.

1. Click the **BI Server** workspace. Click the **Public Folders** link, and click the folder icon in the top right to create a new folder.

Figure 1: BI Server: Public Folders

	HP NNM ISPI Performance BI Portal		
Current Status	Public Folders My Folders		•
Username: system Package: Interface_Health Folder:	Public Folders	III # 🔁 🖬 📽	👪 🕺 🖻 🛍 🗙 🖅 🎁
Report: Status: Ready		Entries: 1	- 12 🔘
	Name 😫	Modified \$	Actions
	Al ExtensionPacks	August 17, 2011 6:45:50 PM	More
ports	🗐 🧰 <u>AtmPvc Health</u>	June 27, 2011 4:21:49 AM	More
port History	CheckPoint Firewall	August 17, 2011 12:27:03 PM	More
ne Control	Cisco Firewal	August 17, 2011 12:34:20 PM	More
le Control	Component Health	June 27, 2011 3:29:39 AM	More
ur / Day Filters	E E Load Balancer	August 17, 2011 12:44:21 PM	More
ology Filters	E ErameRelayPvc Health	June 27, 2011 4:31:50 AM	More
	🔲 🛅 Interface Health	June 27, 2011 4:09:30 AM	More
ver	E Path Health	June 2, 2011 10:16:46 PM	More
tal	PerfSPI Diagnostics	June 27, 2011 4:37:01 AM	More
Folders	🔲 🧰 systinTime	August 17, 2011 12:18:47 PM	More
olders "*	🔲 🛅 User Groups	July 19, 2011 3:06:14 PM	More
Query Studio			
Log On as BI Server Administrator			

2. Name the folder Standard Scheduled Reports and click **Finish**.

Figure 2: New Folder Wizard: Name

	Specify a name and description - New Folder Wizard
Current Status	Specify a name and location for this entry. You can also specify a description and screen tip.
Username: system	
Package: Interface_Health Folder:	Name:
Report:	Standard Scheduled Reports
Status: Ready	Description:
Reports	
Report History	
Time Control	Screen tip:
Hour / Day Filters	Location:
Topology Filters	Public Folders Select another location Select My Folders
BI Server	
EI Portal	Cancel < Back Next > Finish
Public Folders	
My Folders	
Query Studio	
Log On as BI Server Administrator	

3. We are now going to create a subfolder for our weekly reports under the newly created Standard Scheduled Reports folder.

Figure 3: Standard Scheduled Reports Folder

ername: system ckage: Interface_Health	Public Folders	📰 aa 📫 📑 (	<b>X 🗟 🔏 🖦 🖹 X</b>
der: port:	PROBE FORCES		
itus: Ready		Entries: 1	
	Name 🗧 🗌 📄	Modified 🖨	Actions
orts	All ExtensionPacks	August 17, 2011 6:45:50 PM	More
	AtmPvc Health	lune 27, 2011 4:21:49 AM	More
ort History	ChedrPoint Firewall	August 17, 2011 12:27:03 PM	More
e Control	Cisco Firewall	August 17, 2011 12:34:20 PM	More
	Component Health	June 27, 2011 3:29:39 AM	More
r / Day Filters	E E Load Balancer	August 17, 2011 12:44:21 PM	More
ology Filters	ErameRelayPvc_Health	June 27, 2011 4:31:50 AM	More
	🔲 🦢 Interface Health	June 27, 2011 4:09:30 AM	Mane
Server	E Path Health	June 2, 2011 10:16:46 PM	More
Portal	PerfSPI Diagnostics	June 27, 2011 4:37:01 AM	More
blic Folders	Standard Schedulnd Reports	August 23, 2011 8:05:03 AM	More
Folders		August 17, 2011 12:18:47 PM	More
ery Studio	User Groups	July 19, 2011 3:06:11 PM	Morc
g On as BI Server Administrator			

4. Click the **Standard Scheduled Reports** folder and then click the folder icon in the top right.

Figure 4: New Folder Icon

	<b>~</b>		~
HP NNM iSPI Performance BI Portal			
Public Folders My Folders			
Public Folders > Standard Scheduled Reports			x 🖻 🕅
	Ę	New Folder	
□   Name ⇔	Modified ≎	Actions	-
			-
No entries.			4
	A	a	
And the second with a second			

5. Create a folder called Daily Reports. You could also create Weekly and Monthly report folders, if you like.

Figure 5: New Folder Name and Description

Specify a name and description - New Folder Wizard	
Specify a name and location for this entry. You can also specify a description and screen tip.	$\overline{\langle}$
Name:	1
Daily Reports	2
Description:	3
Collection of reports that will be run each day	- 🔨
	1
	<u>ک</u>
Screen tip:	- 2
	- X
Location:	- ¥
Public Folders > Standard Scheduled Reports	- 5
Select another location Select My Folders	<
Cancel < Back Next > Finish	<
hand	

6. You should see the new folder.

## Figure 6: Daily Reports Folder

HP NNM iSPI Performance BI Portal		
By Public Folders <u>My Folders</u>		<
Public Folders > Standard Scheduled Reports	💷 44 📑 I	1 📽 👪 🔏 🖻 🖻 🗙 💣 🛐
	Entrie	es: 1 - 1 💽
🗐 📔 Name 😝	Modified 😝	Actions
Daily Reports	October 6, 2011 2:03:40 PM	More
have a server and a server and a server and a server a s	- Annothing	nn

# Populate the Report Folder

Now we must populate the Daily Reports folder with reports we want to run each day.

# 1. Navigate to Public Folders > Interface\_Health > InterfaceMetrics > Report Templates suitable for scheduling.

**NOTE**: It is critical that you navigate to **Report Templates suitable for scheduling**. It is easy to make the mistake of selecting the report template from **InterfaceMetrics** without drilling down into **Report Templates suitable for scheduling**.

- 2. Select the check box to the left of **Top N Chart**.
- 3. Click the small icon on the right to "Create a report view of this report".

## Figure 7: Top N Chart: Create Report View

HP	NNM i	iSPI Performance BI F	Portal		
î,	Р	ublic Folders	My Folders		
ubli	c Folde	<u>rs &gt; Interface_Health &gt; In</u>	terfaceMetrics > Report Templates suitable for scheduling	III 41 📑 🛚	i 📽 👪 🔏 🖻 🖻 🗙 🖅 💏
				Entries	: 1 - 18 💿
		Name		Modified ⇔	Actions
	۹ 💽	Baseline Sleeve		June 27, 2011 4:12:04 AM	🖅 🕨 📐 醋 🔀 <u>More</u>
	۹ 💽	<u>Calendar</u>		June 27, 2011 4:12:05 AM	🖅 🕨 📐 醋 🔀 <u>More</u>
	۹ 💽	Chart Detail	Be sure to	June 27, 2011 4:12:16 AM	🖅 🕨 📐 醋 🔀 <u>More</u>
	۹ 💽	Chart Detail CSV	navigate to this	June 27, 2011 4:12:08 AM	🖅 🕨 📐 醋 🖽 <u>More</u>
	۹ 💽	Dashboard	location.	June 27, 2011 4:14:11 AM	🚰 🕨 📐 🟥 🖾 <u>More</u>
	۹ 💽	Executive	location.	June 27, 2011 4:14:14 AM	🚰 🕨 📐 🟥 🖾 <u>More</u>
	۹ 💽	Headline		June 27, 2011 4:14:19 AM	🖅 🕨 📐 醋 🖽 <u>More</u>
1	۹ 💽	Headline - Wireless LAN		June 27, 2011 4:14:16 AM	🚰 🕨 📐 🟥 🖾 <u>More</u>
1	۹ 💽	Heat Chart		June 27, 2011 4:12:22 AM	🖅 🕨 📐 醋 🔀 <u>More</u>
	۹ 💽	Managed Inventory		June 27, 2011 4:12:24 AM	🖅 🕨 📐 醋 🖾 <u>More</u>
	5	Most Changed		June 27, 2011 4:12:25 AM	🖀 🕨 📐 🔡 🜃 <u>More</u>
	۹ ق	Overview		June 27, 2011 4:14:21 AM	🖀 🕨 📐 🔡 🖾 More
	۹ ق	Peak Period		June 27, 2011 4:12:29 AM	🖀 🕨 📐 🔡 🜃 <u>More</u>
	۹ ق	Threshold Sleeve		June 27, 2011 4:12:47 AM	🖀 🕨 📐 🔡 🜃 More
	۹ ق	Top N		June 27, 2011 4:13:19 AM	🖀 🕨 📐 🔡 🜃 <u>More</u>
1	0	Top N Chart		June 27, 2011 4:12:54 AM	🖀 🕨 🕅 🖽 More
	۹ ق	Top N CSV		June 27, 2011 4:13:03 AM	Create a report view
	• •	Top N Detail CSV		June 27, 2011 4:13:11 AM	

4. Replace the default name with a more meaningful name. We will name it Daily Top 10 Utilization Chart of FA Interfaces in Colorado since we are going to restrict it to the top 10 used interfaces in our Colorado group. Click **Select another location**.

Figure 8: New Report View Wizard: Name

Specify a name and description - New Report View wizard
Specify a name and location for this entry. You can also specify a description and screen tip.
Name:
Daily Top 10 Utilization Chart of FA Interfaces in Colorado
Description:
Screen tip:
Siccitapi
location:
Public Folders > Interface_Health > InterfaceMetrics > Report Templates suitable for scheduling
Select another location Select My Folders
Cancel < Back Next > Finish
Cancel < Back Next > Finish
1

5. At the top of the subsequent window, navigate to Cognos > Public Folders > Standard Scheduled Reports > Daily Reports and click OK.

Figure 9: Select a Location: Daily Reports

Select a location (Navigate) - Daily Top 10 Utilization Chart of FA Interfaces in Colorado
Navigate the folders or search to find where you want to place the entry.
Cognos > Public Folders > Standard Scheduled Reports > Daily Reports
Name 🕀
No entries.
OK Cancel

6. The location where the report will be saved appears: Cognos > Public Folders > Standard Scheduled Reports > Daily Reports. Click Finish.

Figure 10: New Report View Wizard: Location

Specify a name and description - New Report View wizard
Specify a name and location for this entry. You can also specify a description and screen tip.
Name:
Daily Top 10 Utilization Chart of FA Interfaces in Colorado
Description:
Screen tip:
Location:
Public Folders > Standard Scheduled Reports > Daily Reports
Select another location Select My Folders
Cancel < Back Next > Finish

7. You can repeat this process for additional reports, as desired.

# Configure your Individual Report

1. Navigate to Public Folders > Standard Scheduled Reports > Daily Reports and click the Set Properties icon for this particular report.

## Figure 11: Set Properties

HP NNI	M iSPI Performanc	e BI Portal											
	Public Folders	My Folders	]								Ð	L	
Public Fol	lders > <u>Standard Schee</u>	luled Reports > Daily	Reports		C* 😵	<b>()</b>	5 %	Be î	×	🔊 🚦	1	L	
					Entries:	1	- 1	0		₩₩			
	Name 🕀		Modifie	d \$			Actions					L.	
•	Daily Top 10 Utiliz Colorado	ation Chart of FA Inte	rfaces in October	5, 2011 2:22:4	42 PM	(	<b>R</b>	🔀 More.					
							Set p	roperties	- Dai	ly Top 1	0 Util	lizat	ation Chart of FA Inte
												Γ	

2. Click the **Report View** tab. Uncheck the **Prompt for values** check box and click the **Set** link.

## Figure 12: Report View Tab: Set Link

Set properties - Daily Top 10 Utilization Chart of FA Interfaces in Colorado
General Permissions Select the default options to use for this entry.
Default action: View most recent report
Report options:
Override the default values Formats: Default
Languages: Default
Prompt values: No values saved Set. In Frompt for values
Run as the owner:
Advanced options V
OK Cancel

Change the Time Range to be Most Recent Complete Day.
 NOTE: Since we want to include all hours of the day and all days of the week, it is best <u>not</u> to select any values rather than selecting all. Choosing Select All will result in a less efficient report. Click Next.

### Figure 13: Time Controls

Data From: Oct 1, 2011 12:00:00 PM	Time Range Most Recent Complete Day Display Grain Hour TimeZone (Optional) TimeZone	Hour of Day	Day of Week Sunday Monday Tuesday Wednesday Wednesday Thursday Friday Saturday
D	o not click this but	ton.	Confirm Selection

We want to filter based on membership of a particular Interface Group that we had previously built. Select this Interface Group name. There are two types of Interface Groups (regular and type 1). See the online help for details about these groups, but in most cases, you will want to use type 1 groups. Click the Next button.

## Figure 14: Topology Filter

ttribute		:	Selection		
InterfaceGroup Name					
NodeGroup Name	🗆 🗮 🧱 😨				
InterfaceGroup_Type1 Name	- 2 2	= •	Fa IFs in Colorado	-	$\sum$
NodeGroup_Type1 Name					
MPLS L3VPN Name					
MPLS VRF Name					
Qualified Interface Name					
Interface Name					
Interface Alias					
Interface Descr					
Interface Index					
Interface Type					
Interface Physical Addres	s— 🚞 🧱 📿				
Interface Speed (In:Out)					
Interface ID					
Interface UUID					
Interface ODBID					
Node Name					
Node Short Name	🗆 🚍 🗮 😨				
Node Contact	🗆 🗮 🗮 🐺				
Node Location					
Node Family					
Node Vendor					
Node ID	🗆 🗮 🧱 😨				
Node UUID					
Node ODBID					
Tenant Name					
Tenant UUID					
SecGroup Name					
SecGroup UUID					
Confirm Colortion					
Confirm Selection	Do I	not click t	his button.		

Cancel < Back (Next > ) Finish

5. Set the values. For this example we will choose Top 10, Qualified Component Name and Utilization In (max) and Utilization Out (max) and click Finish. Note that you may not always get Figures 13, 14, or 15, depending on the report template you are using. For instance, the Headline report does not give you the report options page. This is by design.

## Figure 15: Report Options

Report Options		
Top / Bottom 'N'	Grouping by:	
Top 10 •	Qualified Interfac	e Name
Select Metric(s):		
Utilization In (max)	Utilization Out (max)	<b>_</b>
	Do not click this button.	Confirm Selection
Cancel < Back Next >	Finish	

6. You can see that the prompt values have been successfully changed. You may want to change the default output for the report. You can select the **Override the default values** check box to change the output to another format like PDF if you like. In this example, we will control the output type in the context of running a report rather than in the window shown in the following figure.

### **Figure 16: Report Options and Prompt Values**

Set properties - Daily Top 10 Utilization Chart of FA Interfaces in Colorado
General         Report view         Permissions           Select the default options to use for this entry.         Permissions         Permissions
Default action: View most recent report Report options: Override the default values Formats: Default Languages:
Default  Prompt values: (auto_refresh: 'No'. dow: element_level: ' <u>View all</u> Edit Clear  Prompt for values
Run as the owner:
Advanced options ¥
OK Cancel
6

7. You may want to change the number of output versions that are stored and the run history. To do this, click the **General** tab. For our example, we will set these options to 5.

Figure 17: General Tab: Run History and Report Output Versions
--

Set properties - Daily Top 10 Utilization Chart of FA Interfaces in Colorado	Help X
General Report view Permissions Specify the properties for this entry.	
Type:       Report view         Owner:       ksmith         Contact:       None         Set the contact ▼         □       Disable this entry         □       Hide this entry	Location:       Public Folders > Standard Scheduled Reports > Daily Reports       Image: New the search path, ID and URL         Created:       October 6, 2011 2:22:42 PM         Modified:       October 6, 2011 2:50:33 PM         Icon:       Image: Standard Edit
The name, screen tip and description are shown for the selected language.  Language: English (United States)  Name: Daily Top 10 Utilization Chart of FA Interfaces in Colorado Screen tip:	Description:
Run history: Setting the number of occurrences to zero (0) saves an unlimited number of occurrences. Number of occurrences. 5	Report output versions: Setting the number of occurrences to zero (0) saves an unlimited number of occurrences.
Duration: Day(s)      Source report: Public Folders > Interface_Health > InterfaceMetrics > Report Template     OK Cancel	Duration: Day(S) Day(S

8. There is one final requirement when building reports. If you were to attempt to schedule this report now, you would get the following error:

### Figure 18: Error

HP NNM iSPI Performance					
CM-REQ-4029					
Your request does not contain a required search path.					
ОК					

- In order to prevent the error shown in the previous figure, set up the correct package for the source report. Click the **Report Properties** link at the bottom of the **General** tab as shown in Figure 17.
- 10. Next, click the **Link to a package** link at the bottom of the window.

Figure 19: General Tab: Link to a Package

Set properties - Top N Chart	Help X
General Report Permissions	
Specify the properties for this entry.	
Type:         Report           Owner:         ErsAdmin         Make me the owner	Location: Public Folders > Interface_Health > InterfaceMetrics > Report <u>ge View the search path, ID and URL</u> Templates suitable for scheduling
Contact: None Set the contact -	Created: June 27, 2011 4:12:54 AM
Disable this entry	Modified: June 27, 2011 4:12:54 AM
Hide this entry	Icon: 📐 Standard Edit
The name, screen tip and description are shown for the selected language.	
English    Remove values for this languar	<u>ae</u>
Name:	Description:
Top N Chart	
Screen tip:	
Run history:         Setting the number of occurrences to zero (0) saves an unlimited number of occurr <ul> <li>Number of occurrences: 5</li> <li>Day(s) *</li> </ul>	Report output versions:         rences.         Setting the number of occurrences to zero (0) saves an unlimited number of occurrences. <ul> <li>Number of occurrences:</li> <li>Duration:</li> <li>Day(s) *</li> </ul>
Package: Unavailable Link to a package	

11. Select the appropriate report package from which this report comes. In this case, select the **Interface\_Health** package and click **OK**.

## Figure 20: Select a Package: Interface\_Health

Select	t a pa	ckage
Select	which	package to use.
Cogr	10s >	Public Folders
		E
		Name 🕀
$\bigcirc$		All ExtensionPacks
$\odot$		AtmPvc Health
$\odot$		CheckPoint Firewall
$\bigcirc$		Cisco Firewall
$\odot$		Component Health
$\odot$		F5 Load Balancer
0		FrameRelayPvc Health
۲		Interface Health
$\odot$		Path Health
$\odot$		PerfSPI Diagnostics
		Standard Scheduled Reports
$\odot$		sysUpTime
		User Groups
6	ок	Cancel
6		
-		

12. Now you can see that the package Interface\_Health is properly linked. Click **OK**.

## Figure 21: General Tab: Interface\_Health Package

Set propert	ties - Top N Chart	:		
General	Report	Permissions		
Specify the	properties for this e	ntry.		
Туре:	Report		Location:	Public Folders > Interface_Health >
Owner:	ErsAdmin	Make me the owner		InterfaceMetrics > Report Templates suitable for scheduling
Contact:	None	<u>Set the contact</u> ▼	Created:	June 27, 2011 4:12:54 AM
Disable	this entry		Modified:	June 27, 2011 4:12:54 AM
🔲 Hide th	iis entry		Icon:	Standard Edit
The name, s	creen tip and descri	ption are shown for the selected language.		
Language	:			
English		<ul> <li>Remove values for this language</li> </ul>		
Name:			Description	n:
Top N Ch	nart			
Screen tip				
Run histor	10 CT		Boport out	put versions:
		ces to zero (0) saves an unlimited number of occurrences.		number of occurren <u>ces to zer</u> o (0) saves an unlimited nu
Numbe	r of occurrences:	5	Number	of occurrences: 1
Ouration	on: Di	ay(s) =	Ouration	n: Day(s) -
Package: Interface_H	lealth Link to a pa	ckage		
ОК	Cancel			
		12 Contraction of the second s		

# Scheduling Reports

You can either schedule the report directly or you can schedule collections of reports in the context of a "job". You might prefer a job because it gives an easy way to schedule all of your daily reports in one place.

## Scheduling a Report

1. To schedule a report directly, click the **Schedule** icon on the right side.

## Figure 22: Public Folders: Schedule

HP NNM iSPI Performance BI Portal		
By Public Folders My Folders		Image: A particular sector in the sector
Public Folders > Standard Scheduled Reports > Daily Reports	🎟 🕫 🖆 👹 🛢	👪 🎖 🖻 🖻 🗙 🛫 💏
	Entries: 1	- 1 💽   H € 🕨 🕅
□   Name \u00e9	Modified ⇔	Actions
Daily Top 10 Utilization Chart of FA Interfaces in Colorado	October 6, 2011 2:50:33 PM	🕾 🕨 🎆 <u>More</u>
		Schedule - Daily Top 10

2. Then set the frequency to By Day every 1 day and choose a starting time.

#### Schedule this entry to run at a recurring date and time. You can run using the default values or specify the options. You can disable the schedule without losing any u Start: **Priority:** Disable the schedule - 1 3 • Oct 6, 2011 \* 6 : 00 AM Frequency: Select the frequency by clicking on a link. End: No end date ✓ By Day By Week By Month By Year By Trigger End by: Oct 6, 2011 minute(s) Every 1 -6 : 05 PM hour(s) Every 1 Every 1 day(s) Options Override the default values Formats: Default Languages: Default **Delivery:** Save the report Prompt values Override the default values auto\_refresh: 'No'. dow: element\_level: '... View all Cancel OK

## Figure 23: Report Schedule

## Scheduling a Job

In many cases, you might want to control a set of daily reports in the context of a single job (similar to running a batch). To create a job:

1. Be sure you are in **Public Folders** > **Standard Scheduled Reports** > **Daily Reports** and then click the **New Job** icon at the top.

## Figure 24: Daily Reports: New Job

HP NNM iSPI Performance BI Portal			
By Public Folders My Folders			٩ )
Public Folders > Standard Scheduled Reports > Daily Reports		, Job - 1 _ 0   I ≪ ₩	
□   Name ♦	Modified ⇔	Actions	
Daily Top 10 Utilization Chart of FA Interfaces in Colorado	October 6, 2011 2:50:33 PM	😭 🕨 🐻 <u>More</u>	

2. Give the job a name and a description and click **Next**.

## Figure 25: New Job Wizard: Name and Description

Specify a name and description - New Job wizard
Specify a name and location for this entry. You can also specify a description and screen tip.
Name:
Daily Reports Job
Description:
Reports that will be run each day
Screen tip:
Location:
Public Folders > Standard Scheduled Reports > Daily Reports Select another location Select My Folders
Cancel < Back Next > Finish

3. Click the **Add...** link to add new reports to this job.

## Figure 26: New Job Wizard: Add

elect the steps - New Job wizard	
elect the entries to include as steps of this job and the	2 options to use when this entry runs.
Steps:	
Image:	Options and prompt values
	No entries.
	Add, Remove Modify the sequence Reset to default val
Submission of steps:	
Submitting steps in sequence implies that a step is sub	mitted only upon completion of the step before it.
All at once	
In sequence	
Continue on error	
Defaults for all steps: Select this option to specify default values for all step	a of this job
Default	
Set	
Run history details level: Select the level of details to save in the run history wh	nen the run activity completes successfully. For failed runs, the details are saved.
All	ich are ren acarry completes addeedarany i ron randa ranay are ad tana are savear
Cancel < Back Next >	Finish

4. Since we have only created one report under the Daily Reports folder, there is only one available entry. Typically you would have more from which to choose. Select the report and click the **Add** arrow. Then click **OK**.

## Figure 27: New Job Wizard: Add Daily Report

Select entries (Navigate) - New Job wizard				<u>Help</u> X
Navigate the folders or search to find the entries to include in your job. Select the	entries you want and did	k the arrow button to up	date the Selected entries list.	Search
Available entries <u>Cognos</u> > <u>Public Folders</u> > <u>Standard Scheduled Reports</u> > <u>Daily Reports</u> Entries: 1 - 1 0   ((()))		Selected entries	Entries: -	
Daily Top 10 Utilization Chart of FA Interfaces in Colorado	Add		No entries,	
		L		Remove
OK Cancel				

5. You can then choose if you want to run all the reports at once or in sequence. Since we only have one report, it makes no difference. You can also control the output of the reports in the job. Click the **Set...** link.

Figure	28:	New	Job	Wizard:	Set	Link
--------	-----	-----	-----	---------	-----	------

Select the steps - New Job wizard	<u>Help</u> X
Select the entries to include as steps of this job and the options to use when	n this entry runs.
Steps:	Entries: 1 - 1
I  > Name	Options and prompt values
🔲 🖺 > Daily Top 10 Utilization Chart of FA Interfaces in Colorado	Default 🥖
	Add Remove Modify the sequence Reset to default value
Submitting steps in sequence implies that a step is submitted only upon con <ul> <li>All at once</li> <li>In sequence</li> <li>Continue on error</li> </ul>	npletion of the step before it.
Defaults for all steps: Select this option to specify default values for all steps of this job.	
Run history details level: Select the level of details to save in the run history when the run activity of All	completes successfully. For failed runs, the details are saved.
Cancel < Back Next > Finish	

6. Click the **Report Options** link.

### Figure 29: New Job: Report Options



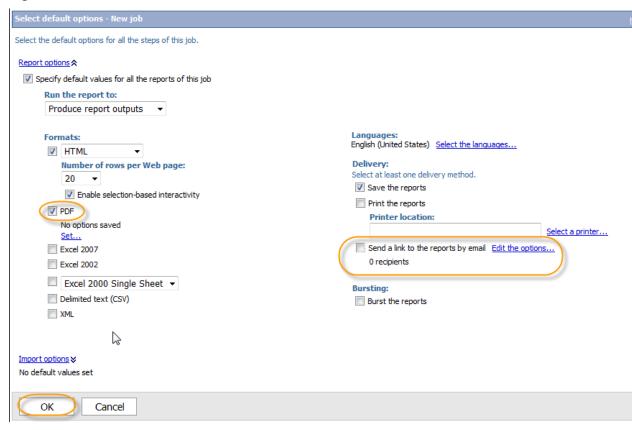
7. Select the Specify default values for all the reports of this job check box.

### Figure 30: New Job: Specify Default Values for all the Reports of this Job

Select default options - New job
Select the default options for all the steps of this job.
Report options Specify default values for all the reports of this job <b>Figure 1 to:</b> Produce report outputs
Formats: Default
Languages: Default
Delivery: Save the report
<u>Import options</u> ¥ No default values set
OK Cancel

8. Now you can select additional output formats for the reports in this job. You might also want to send an email with the report. Note that you must set up the email on the Network Performance Server to use this feature. See the final section of this paper for more details.

#### Figure 31: New Job: PDF



9. You can see the options that were set up. Now click the **Next** button.

## Figure 32: New Job Wizard: Defaults for all Steps

Select the steps - New Job wizard				<u>Help</u> X
Select the entries to include as steps of this job and the options to use whe	n this entry runs.			
Steps:				Entries: 1 - 1
🔲   🛛  > Name	Options and prompt values			
📄 🖺 > Daily Top 10 Utilization Chart of FA Interfaces in Colorado	Default 🥖			
	<u>Add</u>	Remove	Modify the sequence	Reset to default value
Submission of steps: Submitting steps in sequence implies that a step is submitted only upon co	mpletion of the step before it.			
All at once				
In sequence				
Continue on error				
Defaults for all steps: Select this option to specify default values for all steps of this job.				
Produce report outputs, HTML (20 rows per page, Enable selection-base	ed interactivity), PDE, English (United States), English	(United Sta	ites)	
Edit Clear		(011120 0 10		
Run history details level:				
Select the level of details to save in the run history when the run activity of	completes successfully. For failed runs, the details are	saved.		
All 👻				
Cancel < Back Next >				
$\bigcirc$				

10. Finally, you can choose the **Save and schedule** button and click **Finish**.

#### Figure 33: Job: Save and Schedule

Select an action - job
Select whether you want to run, schedule, or save only, when the wizard closes.
Action:       Save and run once       Save and schedule       Save only
Cancel < Back Next > Finish

11. Now you would set up the frequency of the job and click **OK**.

## Figure 34: Daily Reports Job: Frequency

Schedule - Daily Reports Job		Help ×
Schedule the entry to run at a recurring	date and time. You can disable the schedule witho	ut losing any of its details.
Disable the schedule	Priority:	Start: Oct 6, 2011
Frequency: Select the frequency by clicking on a lin By Day By Week g Every 1 minute(s) Every 1 hour(s) Every 1 day(s)	nk. B <u>y Month By Year By Trigger</u>	7     : 29     PM       End: <ul> <li>No end date</li> <li>End by:</li> <li>Oct 6, 2011</li> <li>T</li> <li>: 29</li> <li>PM</li> <li>▼</li> <li>▼</li> <li>▼</li> <li>▼</li> <li>▼</li> <li>▼</li> <li>▼</li> <li>▼</li> <li>▼</li> <li><ul> <li><ul></ul></li></ul></li></ul>
Steps:		Entries: 1 - 1
> Name ≝> Daily Top 10 Utilization Char	t of FA Interfaces in Colorado	
OK Cancel		
ĸ		

# Testing

For testing purposes, you might want to schedule your reports to run more frequently just to try them out and work with the output. You could temporarily change the frequency of this report to be every two minutes.

## Figure 35: Daily Reports Job: Frequency: Every 2 Minutes

Schedule - Daily Reports Job		<u>Helo</u> ×
Schedule the entry to run at a recurring date a	and time. You can disable the schedule without l	osing any of its details.
<ul> <li>Disable the schedule</li> <li>Frequency: Select the frequency by clicking on a link.</li> <li>By Day By Week By Mon</li> <li>Every 2 minute(s)</li> <li>Every 1 hour(s)</li> </ul>	Priority: 3 th By Year By Trigger	Start:         Oct 6, 2011         7 : 29 PM         End:         Image: Ima
Every 1 day(s)  Steps:		Entries: 1 - 1 💽   [4] (4) )> )
> Name > Daily Top 10 Utilization Chart of FA	Interfaces in Colorado	
OK Cancel		

# Viewing and Managing the Reports

To see the reports of your running job, go to Public Folders > Standard Scheduled Reports
 > Daily Reports and click the View the output versions button.

Figure 36: Daily Reports: View the Output Versions

HP NNM iSPI Performance BI Portal			
Public Folders My Folders			
Public Folders > Standard Scheduled Reports > Daily Reports	III 11 📫 📑 🖷	: 👪 🔏 🖻 🛍 🗙 🖃 💏	
	Entries: 1	- 2 🔘	
🗐 🛛 Name 🖨	Modified 😂	Actions	
Daily Reports Job	October 6, 2011 7:33:50 PM	😭 🕨 🐻 <u>More</u>	
Daily Top 10 Utilization Chart of FA Interfaces in Colorado	October 6, 2011 7:33:50 PM	E More	
	View the o in Colorad	output versions for this report - Daily Top 10 Utilization Chart o do	f FA Interfaces

 From here, you can see the reports that are stored on the server. You can see the two formats that were specified in the job. You can also download the PDF to your local computer by clicking the **Download** button.

Figure 37: View Report Output Versions

View report output versions - Daily Top 10	Utilization Chart of FA Interfaces in Colorado	Help X
Select an output version to view by clicking on a F	ormat hyperlink.	
Version: October 6, 2011 7:37:27 PM ▼ Manag	e versions	
		Entries: 1 - 2 💿   14 44 🕨 🕨
Formats	Languages 🗖	Actions
PDF	English (United States)	
	English (United States)	Download
Close		
	· fat a total a	en en en el de

3. You can see previous versions of the reports by selecting the appropriate time stamp from the Version list. Since we set our test to run every two minutes, you can see that each set of output is two minutes apart. Remember that we configured it to only keep five copies on the server so it will not build up too many copies. You can also delete your old reports if you want to by clicking the Manage versions... link.

Figure	38:	View	Report	Output	Versions
--------	-----	------	--------	--------	----------

es in Colorado <u>Help</u> X
Entries: 1 - 2 I I I I I I I I I I I I I I I I I I

4. You can click the PDF output (see Figure 37) to see the PDF version of the report. Try pressing your BACKSPACE key to return to the previous page after viewing the report.

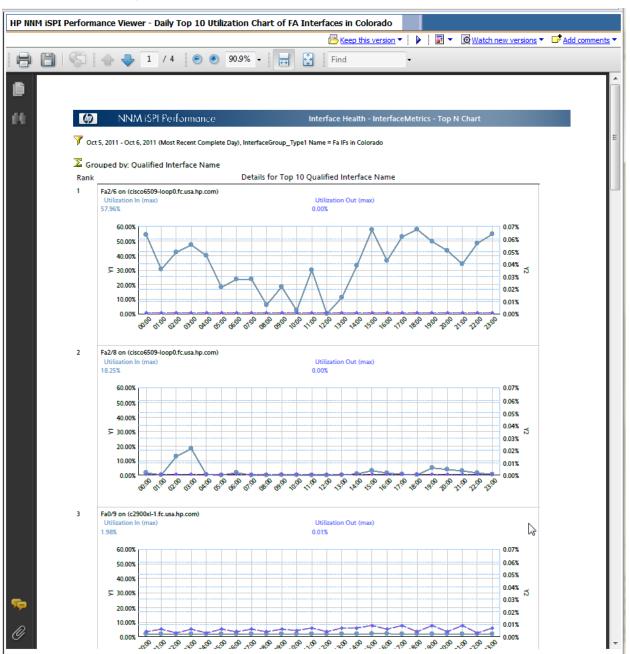


Figure 39: View Report

5. You can also click the HTML format and view the report. Remember that this is a static HTML report and the HTML is not live. This report reflects the graphs as they were when the report was run.

# **Emailing Reports**

If you want to use the NPS to email reports, you must configure the BI Server to use a Simple Mail Transfer Protocal (SMTP) email server.

To configure the BI Server to send emails:

- 1. Launch the BI Server Configuration graphical user interface.

   Windows:
   %NPSInstallDir%\NNMPerformanceSPI\bin\runBIConfigGUI.ovpl

   Linux:
   /opt/OV/NNMPerformanceSPI/bin/runBIConfigGUI.ovpl
- 2. In the Explorer pane, select Notification.

Fiaure	40:	BI	Configuration

🔀 BI Configuration - nmcvm24.fc.usa.hp.co	חות			
<u>File Edit View Actions H</u> elp				
🔲 📄 🖻 🕋 🦓 💷 🔤 ?				
Explorer	Notification - Component Prope	rtie	25	
Local Configuration	Name		Value	
🔶 🧮 Environment	SMTP mail server	8	localhost:25	
- 🕞 HP NNM iSPI Performance contei	Account and password		******	
🗛 🗗 Logging	Default sender		notifications@cognos.com	
🗌 🗌 File				
- 🕞 HP NNM iSPI Performance BI Serv				
📃 🗍 🕞 NNM iSPI Performance BISen				
- 🕞 Portal Services				
🗛 📜 Security				
- 🕞 Authentication				
- 🔲 BI Server				
- 🔲 ErsTrustedSignonProvider				
ErsAuthenticationProvider				
- 🕞 Cryptography				
Cognos				
🚽 🔚 HP NNM iSPI Performance Applic				
🗣 📜 Data Access				
- 🔚 Content Manager				
IBM Cognos Content Store				
- In Notification				
- 🛱 HP NNM PI Performance Planni	J			
🗌 🔚 Contributor Data Server	Defines a group of properties that provid	des	access to a mail server account or to HP NNM iSPI	
	Performance content.			
			account from which all notifications are sent. The	=
			s to a database that will be used to store Notification tallation all Notification components must point to the	
			cation, click New, Database and then type a name and	
			omponent is on the same computer as Content	-
	1	_		-

- 3. Specify appropriate values for the following fields:
  - SMTP Mail server (usually localhost:25 is a good choice)
  - Account and password
  - Default Sender
- 4. Click the **Save** button.

5. To test the connection, right-click **Notification** in the left pane, and then click **Test**.

Figure 41: BI Configuration: Notification: Test

🔀 BI Configuration - nmcvm24.fc.usa.hp.c	om			
<u>F</u> ile <u>E</u> dit <u>V</u> iew <u>A</u> ctions <u>H</u> elp				
🔚   ▶ 🖩 🕪   🚳 💷   ?				
Explorer	Notification - Component Prop	erti	es	
Local Configuration	Name		Value	
👇 📑 Environment	SMTP mail server	3	localhost:25	
- 🕞 HP NNM iSPI Performance contei	Account and password		*****	
or - 🕞 Logging	Default sender		notifications@cognos.com	
File				
🗛 🛅 HP NNM iSPI Performance BI Sen				
🗌 🗌 🔚 NNM iSPI Performance BISen				
- 🛅 Portal Services				
👇 [ 🧮 Security				
🛉 🕂 🛅 Authentication				
🗕 🔲 BI Server				
- 🔲 ErsTrustedSignonProvider				
ErsAuthenticationProvider				
👇 🛅 Cryptography				
Cognos				
🚽 🖵 🛅 HP NNM iSPI Performance Applic				
👇 📑 Data Access				
🛉 🛅 Content Manager				
BM Cognos Content Store				
Notification				
👇 🛅 HP Reset to Default 🛛 e Planni				=
New resource 🕨 ver		ides	access to a mail server account or to HP NNM iSPI	
	Performance content.			
Test	Use this group of properties to configu	re a	n account from which all notifications are sent. The	
			s to a database that will be used to store Notification	
	content. This means that in a distribute	d ins	stallation all Notification components must point to the	2
			cation, click New, Database and then type a name and	
	select the database type. If the Notificat	ion d	component is on the same computer as Content	-
Checking service status				

6. You will see the following dialog box on success:

## Figure 42: BI Configuration: Success



7. Click Close.

- 8. Click File > Save.
- 9. Select **Yes** when prompted to restart the service NNM iSPI Performance BIServer.

Figure 43: BI Configuration: Restart Service

👸 BI Configuration - nmcvm24.fc.usa.hp.c	om			_ 🗆 ×
<u>File Edit View Actions H</u> elp				
🔚 📗 🖿 🖬 🚳 💷 🔤 ?				
Explorer	Notification - Component Prop	erti	es	
Local Configuration	Name		Value	
👇 🔚 Environment	SMTP mail server	6	localhost:25	
- 🕞 HP NNM iSPI Performance contei	Account and password		******	
စု– 🛅 Logging	Default sender		notifications@cognos.com	
🗌 🗌 File				
🛉 🔚 HP NNM iSPI Performance BI Serv				
🗌 🗌 🔚 🕞 NNM iSPI Performance BISen				
Portal Ser     MBI Configuration			X	
Y La security				
🛉 🛉 👘 Authentic 🔥 Changes hav	e been made to the local configuration. T	o ap	ply these changes, your computer must	
	rvice 'NNM iSPI Performance BIServer'.			
- ErsTri	an un caracteria a constitute la céreme constitute ->			
ErsAu Do you want	to restart this service before exiting?			
- 📭 Cryptogr:				
Cogni	Yes <u>N</u> o		Cancel	
- 🔄 HP NNM iš				
👇 📑 Data Access				
👇 🛅 Content Manager				
🔄 🔲 IBM Cognos Content Store				
- 🛅 Notification				
🛉 👘 HP NNM iSPI Performance Planni				
🗕 🛅 Contributor Data Server		ides	access to a mail server account or to HP NNM iSPI	<b></b>
	Performance content.			
	Use this group of properties to configu	re 24	n account from which all notifications are sent. Th	
			s to a database that will be used to store Notifications	
			stallation all Notification components must point to	
			cation, click New, Database and then type a name a	and 🔔
	select the database type. If the Notificat	ion c	component is on the same computer as Content	-
	1			

10. After the BI server restarts, you can now configure the job to send email. Return to **Public Folders** > **Standard Scheduled Reports** > **Daily Reports** and click **Set Properties** for the job.

Figure 44: Daily Reports Job: Set Properties

HP NNM iSPI Performance BI Portal	ksmith Log On 🔻 🔯	፬ ▼   <b>≙ ▼ ¦ aunch</b> ▼ ? ▼
Public Folders My Folders		
Public Folders > Standard Scheduled Reports > Daily Reports	III 11 📫 🕅	🏽 👪 🐰 🖻 🖻 🗙 🛃 🚺
	Entries:	1 - 2 💽
□   Name \u00e9	Modified 😂	Actions
🔲 🔞 Daily Reports Job	October 6, 2011 9:04:15 PM	💮 🕨 🖾 <u>More</u>
Daily Top 10 Utilization Chart of FA Interfaces in Colorado	October 6, 2011 9:04:16 PM	Set properties - Daily Reports Job

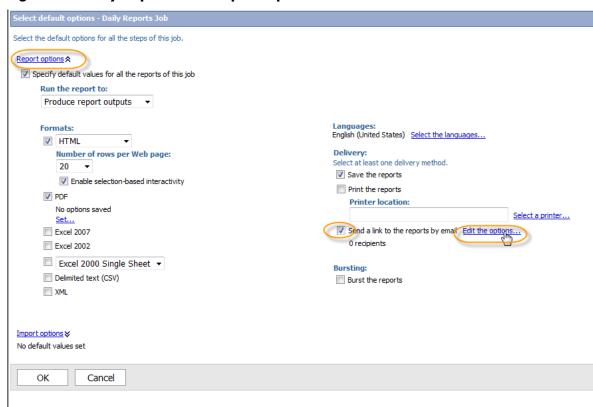
11. Click the Job tab and click Edit...

Figure 45: Daily Reports Job: Job Tab: Edit

Set properties - Daily Reports Job	Help X
General Job Permissions Select the entries to include as steps of this job and the	options to use when this entry runs.
Steps:	Entries: 1 - 1
I  > Name	Options and prompt values
📄 🖺 > Daily Top 10 Utilization Chart of FA Inte	erfaces in Colorado Default 🤌
	Add Remove Modify the sequence Reset to default value
Submission of steps: Submitting steps in sequence implies that a step is subm All at once In sequence Continue on error	itted only upon completion of the step before it.
Clear Run history details level:	of this job. able selection-based interactivity), PDF, English (United States), English (United States) in the run activity completes successfully. For failed runs, the details are saved.
OK Cancel	

12. Click Report Options, check the box to email the report and click Edit the options...

Figure 46: Daily Reports Job: Report Options



13. You can choose to include a link to the reports (the link points to the NPS server). You might also want to attach a copy of the HTML and PDF reports to the email. Note that the link in the email will require the user to log on with their NNMi account. Fill in the email address for the destination and click **OK**.

Figure 47: Daily Reports Job: Recipient

Set the email options - Daily Reports Job	<u>Help</u> X
Specify the recipients and contents of the email. To add recipients, click Select the recipients or type the email addresses separated by semi-col body, leave the Body box empty and select the report as the only attachment.	ons. To include an HTML report as the message
To: admin@mycompany.com Cc:	
Select the recipients Show Bcc	
Subject:	
Job: Daily Reports Job	
Body:	
My daily reports.	
Include a link to the report	
OK Cancel	

14. The email recipient will now begin to receive email messages similar to that shown in the following figure.

## Figure 48: Daily Reports Job

Delete     Respond     Quick Steps     Move     Tags     Editing     Zo       From:     Inotifications@cognos.com     Sent:     T       To:     Sent:     T     Sent:     T       Cc     Subject:     Job: Daily Reports Job     Solid Jaily Top 10 Utilization Chart of FA Interfaces in Colorado.mht (LMB)     Daily Top 10 Utilization Chart of FA Interfaces in Colorado.pdf (L98 KB)	🖏 Ignore 🤰 🍇 Junk + De	elete Reply	Reply Forward More *	ia Move to: ? ia Team E-mail ia Reply & Delete	➡ To Manager ✓ Done ♥ Create New	4 + 1	Move	Mark Categorize	Follow Up +	Translate	Zoom
io: Englishe and the second se	Delete		Respond	Quic	ck Steps	- Ga	Move	Tags	Γ <sub>N</sub>	Editing	Zoom
🖂 Message 👖 Daily Top 10 Utilization Chart of FA Interfaces in Colorado.mht (1 MB) 🛛 📆 Daily Top 10 Utilization Chart of FA Interfaces in Colorado.pdf (198 KB)	0;		configure (Theorem 1)								
		Job: Daily Rep									

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