Nimsoft Unified Reporter
Quick Start Guide
Version 1.9

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www.nimsoft.com
1. Nimsoft Unified Reporter

Introduction

Nimsoft Unified Reporter is a high-performance standalone and embeddable report server that provides non-technical business users with:

• Drag-and-drop ad hoc report building
• Drag-and-drop dashboarding, with live refresh and mashups with external content
• A rich business metadata layer for easy ad hoc query
• Integrated and in-memory data analysis
• Built-in charting
• Self-service parameterized web reporting
• Report scheduling, distribution, and historical versioning
• A secure report and metadata repository
• Access to any data source in the Nimsoft SLM database

In addition, Nimsoft Unified Reporter provides developers and power users with:

• iReport graphical Unified Reporter for designing more complex reports
• Print-ready pixel-perfect production reporting

Nimsoft Unified Reporter offers two ways of designing reports

• iReport
  An advanced standalone Unified Reporter offering full control of the design of the Unified Reporter reports.
• Unified Reporter
  An easy to use, web-enabled ad hoc Unified Reporter offering the capability of creating and saving basic reports.

This guide focuses on getting up and running with the ad hoc Unified Reporter.
2. Creating reports using Unified Reporter

At this point you should have installed Unified Management Portal (UMP) 2.6 or later. Launch UMP in a browser (see the UMP Release Notes for a list of supported browsers).

Choose Reports, Unified Reports from the Actions menu. Access to Unified Reporter is controlled by the permission Unified Reports in the user’s/contact’s ACL.

You can now choose how to create your report. Currently a topic supporting defining reports for qos sample data is provided.

Expand the tree Public and select the topic SDP Topic QOS.
Now decide the type of report you would like to create. Select **Table**, **Chart**, or **Crosstab** (while **SDP Topic QOS** is selected), and then click **Open Report**.
2.1 Table reports

When selecting Table report, the following canvas will be available allowing you to drag and drop columns to the report template.

Dropping all the qos attributes onto the canvas will give you a tabular listing of all samples for a given set of parameters to the report.
By selecting the Funnel icon, you can define parameters for the reports.

Make sure that all parameters prefixed by * have been given a value; you can choose multiple values for each parameter by pressing Control or Shift while selecting values.
Click **OK**. The report is run, returning a limited set of rows.

You have now created a report and can either view it in test mode on the full dataset, run the report, or save the report. When running the report you have the option to edit the argument values.
Your permissions define which folder you can save reports to. Once you save your report it is available in the Unified Reports list.

You can create advanced reports by selecting attributes for grouping and by changing sort order, adding summary values, and so on.
To select an attribute for grouping, right-click the attribute in the attribute palette (left pane) and choose **Add as Group**.
To set properties for the attributes added as columns, right-click the column and choose the desired property. For example, defining QOS, source, and target as a group elements and the rest as column elements gives the following report.
You can further enhance the report by, for example, adding a summary to the samplevalue column.
Then set the summary to maximum value.
This results in a report similar to the following report.
2.2 Chart reports
When creating a Chart report, you can drag-and-drop columns onto the canvas of the report template.
Right-click on the canvas to set the chart attributes, such as the type of chart. For example, you can choose a time series chart, as in the following example.

You can have only one data series for each chart.
Choose \texttt{samplevalue} as the metric and \texttt{sampletime} as the group, then set the filters restricting the dataset to be shown. Since only one data series can be shown, select one qos series (qos, source, or target).

You see a chart similar to the following:

![Chart Example]

You can save the report to execute later.

Unified Reporter supports multiple types of charts. Select one group attribute and one measure attribute, as we did for the time series chart.
The following is an example of a bar chart.
Add target as a group variable and samplevalue as a measure (change the **SummaryFunction** to **Average**), and set the filter to select a set of targets. You see a report like the following. You can save the report and execute it with other arguments.

Note that the following report added the measure **samplevalue** three times in order to show average, minimum, and maximum values for each target.
2.3 Crosstab reports

When creating a Crosstab report, you can drag-and-drop columns to the report template.

For the Crosstab report, define the qos attributes in the left pane as either RowGroup, Column Group, or Measure.
For this report we will first set the filter values to be used as default arguments. This speeds up the design of the report since it will have less data to analyze.

For the SDP QOS Topic, **Samplevalue** is the normal measure and our report will use **QoS**, **Source**, and **Target** as row groups and **Sampletime** as a column group.
Let’s change the grouping of the *sampletime* to provide a summary for each day.

Next we will use **average** instead of **sum** as the summary function on measures.
Finally we will add `samplevalue` as a measure once more, this time using `count all` as the summary function.

The report looks similar to the following:
3. Creating folder structures for reports

The *Unified Reporter Server Administrator Guide* describes in detail how to manage the Unified Reporter Server.

Following are a few hints about setting up folder structures for reports in Unified Reporter Server.

Any user with administrator privileges can create folders and assign access permissions to these folders.
In the example below the folder **VanityTwo** was created in the root folder.

The role **ROLE_NIMACL_ACC_6_VanityTwo** has been given write, delete, and read access to the folder so that any contact for account VanityTwo can save reports to this folder.
Accounts are added as roles with the naming convention ROLE_NIMACL_ACC_X_Y where X is the account id and Y is the account name.

Nimsoft ACLs (for Nimsoft users) are added as roles with the naming convention ROLE_NIMACL_Z where Z is the name of the ACL.

A good practice is to create separate folders for each account (and if required for each ACL).

Note that all users of Unified Reporter default have the role ROLE_USER and that ROLE_USER default has access to all new folders. It may be advisable to remove ROLE_USER’s access from any newly created folder.