



NPrinting Basic Training Course

NPrinting
Basic Training Course



Agenda

- Licensing
- Installation
- Reports
- QlikView Entities
- Filters
- Recipients
- Tasks
- Jobs
- Scheduling
- Questions

NPrinting Installation:
Hardware Requirements



NPrinting Client

- Full-featured client application
- Designer for report developers
- Develop and test all NPrinting features

NPrinting Basic Training



NPrinting Server

- Management Tool:
 - NPrinting Management Console
- Automation:
 - NPrinting server manages report processing as a 'Service'
- NPrinting Service
- NPrinting Client is required for developing projects

NPrinting Basic Training



Installation

<http://us-b.demo.qlik.com/download/>

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Software & Hardware Requirements

- NPrinting Client and/or Server
 - 1 GB Ram
- Microsoft Windows 8, Windows 7, Vista SP1 or later, Windows XP SP3, Server 2003 SP2, Server 2008, and Server 2012 R2
- Office 2003, 2007, 2010, or 2013
 - 32 or 64 bit
 - Needed only for developers

NPrinting Installation



Software Requirements

- QlikView Desktop 9 (SR5 or later), 10 (SR2 or later) or 11
 - even if QlikView Server Enterprise or Small Business Edition is installed
 - NPrinting inherits the limitations of the QlikView license: we recommend a named user CAL
- .NET framework 4.0 full or higher

NPrinting Installation



- Virtual Machine servers are supported
- Virtualized Applications not supported
- Sending E-mail:
 - SMTP server
 - MAPI Client with NPrinting as trusted App

NPrinting Installation



The following software has been deprecated and **will not be supported in the future.** Please consider this in your NPrinting rollout plan.

- QlikView 9 support
- BullZip : from version 12.3 it's only needed to print legacy QlikView reports
- Windows XP and Server 2003. Support cycle ending for these at Microsoft

NPrinting Installation:
Deprecated Software



Suggested Folder Structure:

- **NPrinting Files:** save all your NPrinting .nsq projects here
- **Log Files:** application and service log files
- **QlikView Documents:** local QlikView source documents
- **Templates:** save all your templates here
- **Output:** for generated reports
- Implement this structure as needed

Typical NPrinting Folder Structure



- Tutorial: «Install NPrinting»

Requirements and Installation Steps:

- <http://community.vizubi.com/knowledgebase/articles/319661-installation-and-setup-for-NPrinting-14-and-follow>
- <http://community.vizubi.com/knowledgebase/articles/363167-install-nprinting-release-14-x-and-later>

Classroom Exercise:
Install NPrinting on your PC



Activation: Two Types

- Online
 - License Key
 - Control Number
- Offline activation is manual
 - License Key
 - Control Number
 - LEF

NPrinting Installation:
License Activation



Create a New NPrinting File

The first Step

Create a Connection

Creating a Nprinting Connection



Connection:

- At least one in each NPrinting project
- NPrinting uses the default connection if none selected
- Connections to multiple QVWs
- MultiDoc: Create reports with data from different QVW connections

NPrinting Reports Creating Connections 1



Connections can be made to QlikView documents

- On a Local or Network Drive
 - Via UNC paths
- Accessed through a QlikView Server via QVP
- Mapped drives not supported

New NPrinting File:
Creating Connections 2



- To do: Create your first NPrinting file and QlikView connection
- Tutorial: “How do I connect to my QlikView documents?”
<http://community.vizubi.com/knowledgebase/articles/260259-how-do-i-connect-to-my-qlikview-documents->

Classroom Exercise: Connect to a QlikView Document



Reports

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The NPrinting Interface

- Common buttons throughout the application
- Schedule Items
- Tasks
- Reports
- Filters
- Condition
- Cycle
- Connection Items

NPrinting GUI:
Graphical User Interface



NPrinting Reports: Two Types

- Based on NPrinting Templates
 - Microsoft Office Templates
 - HTML templates
 - PixelPerfect
- QlikView Entity reports
- QlikView Objects
- QlikView Reports
- Entire Sheets from a QVW

NPrinting Reports
Common Concepts



Template Based Reporting

- Microsoft Office files:
 - Excel
 - Word
 - PowerPoint
 - Compatible with Office 2003, 2007, 2010 and 2013 32 or 64 bit
 - Templates can be HTML files
 - PixelPerfect templates .npx extension

NPrinting Template Reports:
Templates Based



Concepts common to all template based reports:

- Templates are Files
- Create new or cloning existing reports
- Leverage the features of
 - HTML
 - MS Office applications
 - PixelPerfect

NPrinting Template Reports:
Templates Based



Report Preview

- Show results of your report editing
- Allows developers to see report layout without having to execute a Task
- Executes Pages and Levels if present
- Applies filters
- Does not execute cycles
- Can preview in various formats

NPrinting Template Reports:
Preview 1



Pages Feature

- Create a different worksheet or slide for every value of the selected field
- Available only in Excel and PowerPoint reports
- One field per worksheet in Excel
- Pages Report

NPrinting Template Reports:
Template Editor Pages 1



Levels

- Use tags to create levels: everything between tags gets “cycled”
- Create a separate section within a worksheet or a page
- Each section contains data associated with the value of a dimension.
 - ie: each row of a chart or table

NPrinting Template Reports:
Template Editor Levels



Levels

- Levels can be nested
- Right click to add
 - a field
 - an object to the selected sheet as a level

NPrinting Template Reports:
Template Editor Levels



Images

- Export any QlikView object to images
- PNG Snapshot
- QlikView formatting maintained
- What you see in QlikView is what you get
- Resize:
 - Set output dimensions in Excel
 - Drag to resize in Word and PowerPoint

NPrinting Template Reports:
Template Editor Images



Tables

- Export data from QlikView objects to tables
- Can keep QlikView formats
- Can apply Office or HTML formats
- Can apply custom formats
- Office, HTML and custom formatting can be applied to entire table or single columns

NPrinting Template Reports:
Template Editor Tables 1



Use QV Formulas & Variables in NPrinting Reports

- Right click on Formulas node and add `year(now())` for example
- Drag and drop the formula onto report area
- You cannot use formulas as levels

NPrinting Template Reports:
Formulas



Word Reports

- Word templates do not support Pages
- **Tip:** Use levels with page breaks to emulate pages

NPrinting Template Reports:
Word Reports



HTML templates:

- Generate reports usable in e-mail body
- Support custom HTML Editor coding

NPrinting Reports:
HTML Templates



- To do: Create your first Excel Report
- Tutorial: «How to Create Excel Reports”
<http://community.vizubi.com/knowledgebase/articles/260262-how-to-create-excel-reports>
- Preview Images

Classroom Exercise:
Create Your First Excel Report



- Add a Table to the Excel Report
- Tutorial: «How to Create Excel Reports”
<http://community.vizubi.com/knowledgebase/articles/260262-how-to-create-excel-reports>
Table report preview

Classroom Exercise:
Add a Table to Your Excel Report



- Add Pages to the Excel Report
- Tutorial: «How to Create Excel Reports”
<http://community.vizubi.com/knowledgebase/articles/260262-how-to-create-excel-reports>.
From «Multi-Page Publishing” to the end of the tutorial.

Classroom Exercise: Add Pages to Your Excel Report



- Create a complete PowerPoint report
- Tutorial: «How to Create PowerPoint Reports”
<http://community.vizubi.com/knowledgebase/articles/260281-how-to-create-powerpoint-reports>

Classroom Exercise:
Create a PowerPoint Report



- Create a complete Word report
- Tutorial: «How to Create Word Reports”
<http://community.vizubi.com/knowledgebase/articles/260296-how-to-create-word-reports>

Classroom Exercise:
Create a Word Report



- Create a complete HTML report
- Tutorial: «How to Create HTML Reports”
<http://community.vizubi.com/knowledgebase/articles/260275-how-to-create-html-reports>

Classroom Exercise:
Create an HTML Report



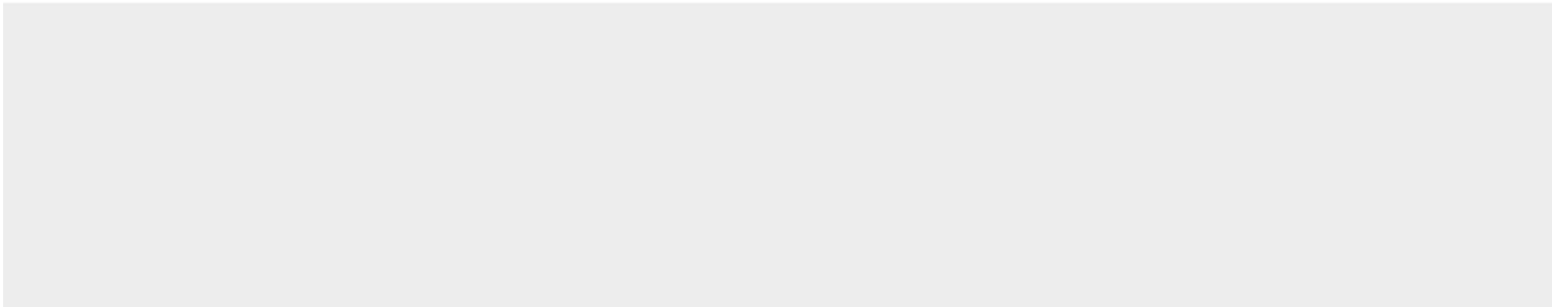
Report with Levels

- Tutorial: How to create a report with one or more levels
- <http://community.vizubi.com/knowledgebase/articles/260333-how-to-create-one-or-more-levels-in-excel-reports>

NPrinting Template Reports:
Template Editor Levels



QlikView Entities





QV Entity Based Reporting:

- Build Entity reports using existing
 - QV Report, Sheet & Chart Objects
- Fast deployment
 - “As Is” export of QV objects
- Output Options:
 - PDF, images or CSV files only

NPrinting Reports:
QlikView Entity Report 1



NPrinting Entity Reporting and Distribution

- Enables distribution of Existing QlikView reports and objects
- Filters, cycles and conditions applicable as in HTML and Office Reports
- Export the entire QlikView sheet of your dashboards

NPrinting Reports:
QlikView Entities Report 2



- Todo: Create an image from a QlikView Entity
- Tutorial: «How to Create QlikView Entity Reports”
<http://community.vizubi.com/knowledgebase/articles/341572-how-to-create-qlikview-entity-reports>

Classroom Exercise:
Create a QlikView Entity Report



PixelPerfect Reporting

NPrinting Reports:
PixelPerfect Introduction



Pixel Perfect: Banded reporting editor

- No additional download or add on is required
- Available within NPrinting Client 15.0.0.0 or higher
- Works as an additional template editor alongside the existing HTML and Microsoft Office editors

NPrinting Reports:
PixelPerfect Introduction



PixelPerfect - Provides granular control over layout and appearance including:

- Object positioning and dimensions
- Fonts and colors
- Customized charts
- Many other customizable properties

NPrinting Reports:
PixelPerfect Benefits



Pixel Perfect Features

- NPrinting 'Levels'
- QlikView Formulas
- QlikView Variables
- QlikView Cells
- QlikView Images
- QlikView Tables as data sources
- PixelPerfect Charts
- PixelPerfect Sparkline Charts

NPrinting Reports:
PixelPerfect Template Editor Supports

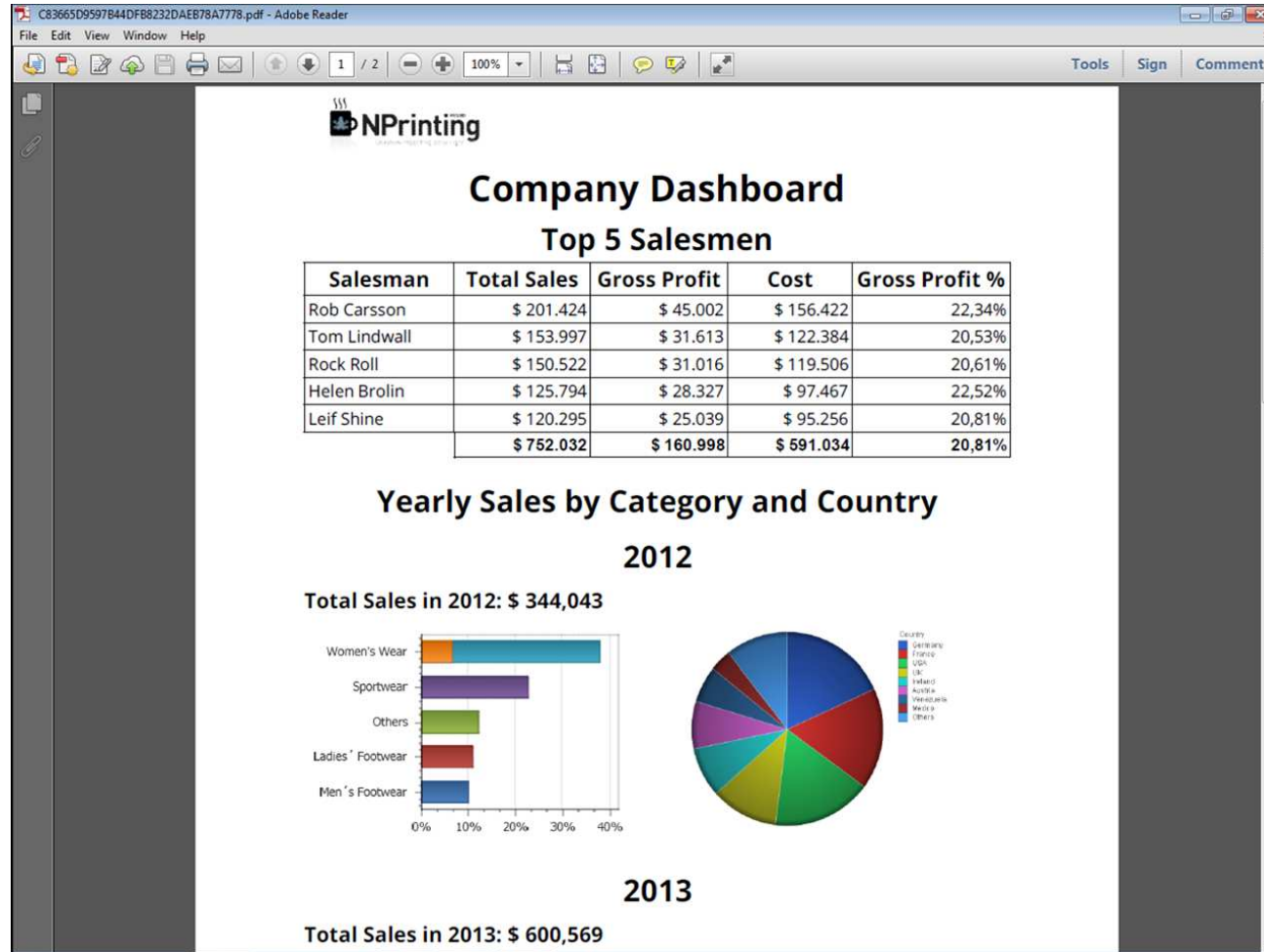


The screenshot displays the NPrinting Report Designer interface. The main workspace shows a report template titled "Company Dashboard". The report is divided into several sections:

- Top 5 Salesmen:** A table with columns for Salesman, Total Sales, Gross Profit, Cost, and Gross Profit %.
- Yearly Sales by Category and Country:** A bar chart showing sales data for categories C, E, A, B, and D across different years.

The interface includes a menu bar (File, Report Designer), a toolbar with various editing tools, a Field List on the left, a Property Grid for the "XtraReportEx Report", and a Tool Box on the right. The status bar at the bottom indicates "All scripts are valid."

NPrinting Reports: PixelPerfect Template Editor



NPrinting Reports: PixelPerfect Output Report



Pixel Perfect

- Each PixelPerfect object has a rich set of properties which can be customized using the **Properties Grid**

NPrinting Reports:
Property Options & Features



Pixel Perfect

- As a banded reporting tool, to create a table in PixelPerfect, you need to use 'Levels'
- Differs from Excel or Word reports because each row of a table is a value of a level
- Tutorial:

<http://community.vizubi.com/knowledgebase/articles/308418-how-to-create-a-simple-pixelperfect-report>

PixelPerfect Tutorial:
Create a Simple Table



PixelPerfect

- Lets you export QlikView object as images
- Images are also allowed in a 'Level'
- PixelPerfect also supports 'MultiDoc'

Tutorial:

<http://community.vizubi.com/knowledgebase/articles/308423-how-to-create-pixelperfect-reports-with-a-level>

PixelPerfect Tutorial:
Export a QlikView Chart as Image



Filters

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Filters

- Determines what data will be presented in reports
- Three Types:
 - Fields with Values/Formulas
 - QlikView Variables with Values/Formulas
 - Bookmarks
- Filters can be multi-connection

NPrinting Filters:
Definition and Type



Filters: Fields and field values

- As many as needed
- Multiple values in the same field is like an OR
- Add field values that are not in the database (slowly changing fields like Country)
- Use QlikView formulas and these will be evaluated and applied to that field (year(now))

NPrinting Filters:
Definition and Type



Filtering Priority/Order

- Multiple filters, same field on multiple objects
- Only one will be applied
- As Of NP 15.4 the filtering hierarchy is:

Chart>Level/Page>Report>Cycle>
Recipient>Task

Chart filters have the **highest priority**
and Task filters have the lowest priority

NPrinting Filters:
Filter Priority



For each field, you can set parameters:

- **Locked:** lock the field and other selections will not be applied to that field
- **Verify Filter:** suppress the report if the filter produces a null data set
- **Select Excluded:** select for the complement of the values that you have selected. Not available on Linked Fields based filters
- **Drop Field in Reduce:** the reduced .qvw file will not contain the field
- **Unlock if Locked:** unlock fields that are locked in the .QVW

NPrinting Filters: Parameters



For each field, you can set parameters:

- **Clear Selections:** when a filter with this flag activated is applied, the selections of the field are cleared. The selections are cleared only for the specific fields with the clear selections option activated. The selections on other fields remain active.

NPrinting Filters:
Parameters



- To do: Create a filter based on a field
- Tutorial: «How to Create Static and Dynamic Filters Based on Fields”
<http://community.vizubi.com/knowledgebase/articles/260269-how-to-create-static-and-dynamic-filters-based-on->

Classroom Exercise:

Create a Filter and Link it with the Recipient



To do: Associate the filter with the recipient

- Tutorial:
- «How to Add Filters to Recipients”
<http://community.vizubi.com/knowledgebase/articles/261119-how-to-add-filters-to-recipients>

Classroom Exercise:
Create a Filter and Link it with the
Recipient



NPrinting Filter Options:

- Locked
- Verify Filter
- Drop Field in Reduce
- Unlock if Locked
- Clear Selections

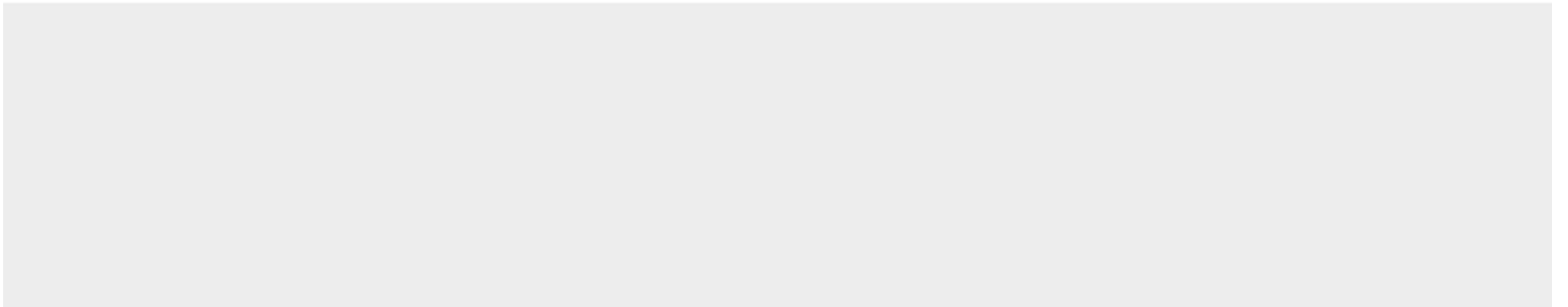
Tutorial: “Filter Syntax, Parameters, and Options for Importing Recipients”

<http://community.vizubi.com/knowledgebase/articles/295953-filter-syntax-parameters-and-options-for-importi>

NPrinting Filters



Recipients





- Recipients are report destinations
 - People
 - Organizations
 - Internal
 - External

NPrinting Recipients: Definition



Create a Recipient:

- ID: If used during an import, it works as a primary key and lets you manage more than one recipient with the same Fullname
- Name: the only mandatory information: primary key when importing recipients if ID is empty
- E-mail address: if you want to send reports via e-mail

NPrinting Recipients:

Manual Creation 1



Create a Recipient:

- Folder & Subfolder: for creating dynamic save paths
- QlikView and/or Report Security
- PGP Encryption: send encrypted reports
- Filters: select which data the recipient can view
- Notification: CC's every message sent to the recipient to the e-mail addresses listed

NPrinting Recipients:
Manual Creation 2



- Manually create one simple recipient

Tutorial: «How to Create and Import Recipients with Filters and Distribution Groups»

<http://community.vizubi.com/knowledgebase/articles/265155-how-to-create-and-import-recipients-with-filters-a>

Classroom Exercise:
Create One Recipient



- Add filters to the recipients
- Tutorial: «How to Add Filters to Recipients”
<http://community.vizubi.com/knowledgebase/articles/261119-how-to-add-filters-to-recipients>

Classroom Exercise:
Add a Filter to the Recipient



Recipient Import Process

- Automate Recipient Import
 - Build Recipient Import
 - Build Recipient Import Task
 - Schedule Recipient Import Task

Tutorial: Recipients Import

- <http://community.vizubi.com/knowledgebase/articles/265155-how-to-create-and-import-recipients-with-filters-a>

NPrinting Advanced Training



Tasks

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NPrinting supports several types of **Tasks**:

1. Report Tasks
2. Reload Tasks
3. Partial Reload Tasks
4. Reduce Tasks
5. Run QlikView Macro Tasks
6. Import Recipients Tasks

NPrinting Tasks:
Six Types



Tasks: Four main options for the output folder

- Task output folder
- Task folder with recipient subfolder
- Recipient Folder
- Custom Folder:
 - Dynamically generated
 - Sequence of fields
 - Use QlikView variables and NPrinting parameters
 - FTP destinations

NPrinting Report Tasks



Tasks - Run tasks manually for:

- Debugging or previewing
- Use it when you need a specific report but you cannot wait till the next scheduled execution
- Detailed logs on screen and saved in file

NPrinting Tasks:
Manual Task Run



- To do: Create your first Task
- Tutorial: «How to Create Tasks”
<http://community.vizubi.com/knowledgebase/articles/260323-how-to-create-tasks> without message configuration
- Save and close
- Run

Classroom Exercise:
Create Your First Task



- Add recipients to a task
- Tutorial: “How to Distribute User Specific QlikView Reports by E-mail”
<http://community.vizubi.com/knowledgebase/articles/261084-how-to-distribute-user-specific-qlikview-reports-b>

Classroom Exercise:
Add a Filter to the Recipient



Jobs

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Jobs: are sequence of Tasks

- Executed in series (one task at a time).
 - This ensures that a report cannot be sent until data loading has been completed
- Are the only entity that can be executed by a schedule
- Order of execution can be modified

NPrinting Jobs 1



- Create your first Job
- Tutorial: «How to Create Jobs”
<http://community.vizubi.com/knowledgebase/articles/261184-how-to-create-jobs>

Classroom Exercise:
Create Your First Job



Schedules: Date and time when a specific operation is to be executed

- **NP Client:** Press the Start button to activate schedules from NPrinting Client - this disables all other NPrinting features
- **NP Server:** Schedules are **Automated** on the NPrinting Server. Load NSQ

NPrinting Schedules 1



Schedules

- Advanced scheduling functions
 - Start and end date
 - Number of executions
 - One shot, daily, weekly, monthly or yearly
- Schedule a sequence of jobs
- Multiple Schedules

NPrinting Schedules 2



- Create your first Schedule
- Tutorial: «How to Schedule Jobs”
<http://community.vizubi.com/knowledgebase/articles/261185-how-to-schedule-jobs>

Classroom Exercise:
Create Your First Schedule



Questions

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For additional support

<http://www.qlik.com/us/services/support>

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Thanks!

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