

Advanced reports creation for ION Enterprise

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Agenda

- Report technology
- Evolutions from Reporter (ION E < 6.0)
- Default reports in ION Enterprise
- Schneider Electric's offer
 - On-demand customization
 - Multi-level training
- “User Centric”
- Example
 - BC Hydro

Report Technology

- Based on **Microsoft SQL Server Reporting Services 2005**
 - SQL Express 2005 or SQL Server 2005 necessary
- Reports are distributed in **Report Packs**
 - ION Enterprise 6.0 comes with **“Default Reports 6.0”**
 - More Report Packs can be added in the future to extend product functionality
- **Microsoft Business Intelligence Development Studio and SQL Server Management Studio** are the tools to create and customize reports
- **Microsoft SQL Server Reporting Services**
 - Used and recognized in all industry sectors
 - Well accepted and supported by IT departments
 - Competencies already in house
 - Standard development and test procedures
 - more robust
 - less bugs...

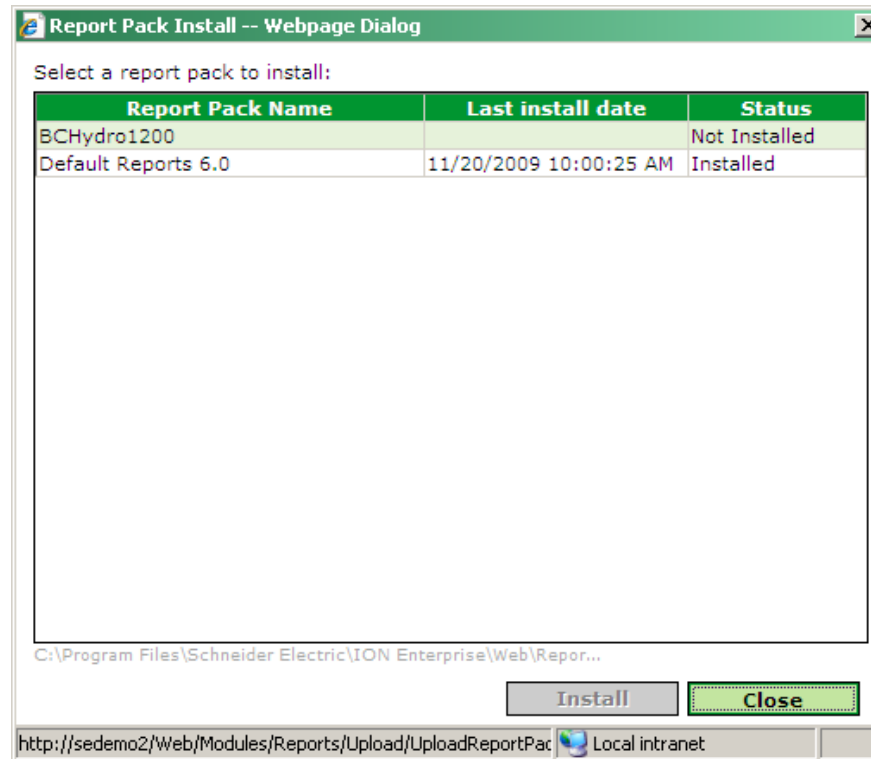
Microsoft®
SQL Server® 2005

ION Enterprise 6.0: comparison with Reporter

	Reporter	New Platform
Technology	Visual Basic	SQL Reporting Services
Output format	Excel	Excel, pdf, XML, Tiff...
Centralized report management	No	Yes
Online access	No	Yes
Report sharing between users	No	Yes
E-mail subscription	No	Yes
File Management	No	Yes
Installation necessary	Yes	No

Strong user control

- Report Packs bring flexibility
 - Easy install through the web portal



- Developed by Schneider or by the end-user
 - The report meets the users' specific needs
 - The user is no longer limited by the existing reports
- "Need" defines the report, not the other way around

Schneider Electric's offer

- Schneider Electric Canada has competency to develop custom reports
 - Local resources, in the language of the user
 - Easier interaction, as the developer already knows the site and the problematic that the reports are supposed to solve
- User is encouraged to develop his own custom reports
 - Report Developer Kit (RDK) can be downloaded for free
 - Technical assistance
- Report development training
 - Several levels: From formatting (colors, logos...) to development of advanced functions
 - Intensive and experienced users
 - Training provided by the R&D software team
 - On-demand registration

Components of a Report Pack

SQL Management Studio

The screenshot shows the Microsoft SQL Server Management Studio interface. The Object Explorer on the left shows a server instance with a database named 'ION_Data'. The main window displays a SQL query window titled '(LOCAL)\ION.IO... SQLQuery3.sql' containing the following code:

```
USE [ION_Data]
GO
/***** Object: Store
SET ANSI_NULLS ON
GO
SET QUOTED_IDENTIFIER
GO
--*****
PROCEDURE- GETTIME
```

A green arrow points from the query window to a file icon labeled 'Stored Procedure.sql'.

Business Intelligence Development Studio

The screenshot shows the Microsoft Visual Studio interface for a 'SampleReport Project'. The Solution Explorer on the left shows the project structure, including 'Shared Data Sources', 'LocalDataSource.rds', 'Reports', and 'SampleReport.rdl'. The main window displays the 'SampleReport.rdl [Design]' view, showing a report body with a table structure:

Node Name	Timestamp
=Parameters!ReportTitle.Value	
=Fields!NodeName.Value	=Fields!Timestamp.V
	Bottom

A green arrow points from the design view to three file icons: 'Report.rdl', 'Custom Control.aspx', and 'Report Data Extension.cs'.

Logos

Report Pack Builder

Report Pack.zip

Workflow for customizing reports or creating new reports

- Identify what data is required for the report
- Define the report parameters
- Build custom **Stored Procedures** to retrieve the raw data
- Create the **Report Data Extension**
- Design the **Report Definition Layout**
- Generate the **Report Pack**
- Distribute and upload Report Pack to ION Enterprise

