Reports site: from Underwriter **Reports** -> **Reports site**

Report configuration is stored in **ReportScheduler** table. Fields are:

* Id, just an auto-increment field
* Type: unique report name
* Title: email subject
* StoredProcedure: the name of the SP to run. Stored procedure receives two arguments: start date **named @DateStart** and end date **named @DateEnd** (time part is unreliable and should not be used). Actual date values passed as parameters are determined based on IsDaily/IsMonthly/IsWeekly fields (see below), so condition on dates should be: greater than or equal to the first parameter and less than the second parameter (i.e. including the first and excluding the second).
* IsDaily: report is sent every day (including weekends). Arguments for stored procedure are current day (first) and the next day (second).
* IsWeekly: report is sent every Sunday. Arguments for stored procedure are previous Sunday and current day.
* IsMonthly: report is sent every 1st of the month. Arguments for stored procedure are 1st of the previous month and current day.
* IsMonthToDate: report is sent every day (including weekends). Arguments for stored procedure are the first day of the month (first) and the next day (second).
* Header: table column captions, comma separated list without spaces
* Fields: list of fields returned by SP, see below
* ToEmail: list of recipient email, comma separated without spaces

If report is IsDaily and IsWeekly it is sent twice on Sundays (with different parameters).

**ReportUsers** table: users that can login to reports site.

**ReportsUsersMap** table: every user has access only to reports that were explicitly granted to him. Grant permission is done in this table (which actually connects **ReportScheduler** with **ReportUsers**).

**List of Fields Definition**

List of fields returned by SP is specified in **Fields** fields of **ReportScheduler** table. Field names should be separated by a comma and no spaces allowed. Numeric fields are align right, other fields are aligned left. Numeric fields by default are formatted with thousands separator and 0 (for integers) or 2 (for non-integers) decimal digits. Every field name can have a one character prefix which affects formatting as follows:

* **!**  
  Field value should not be formatted. Applied for numeric fields only.
* **%**  
  Field value is multiplied by 100 and is displayed with a percent sign and two decimal digits. Applied for numeric fields only.
* **$**  
  Field value is formatted with thousands separator, currency sign and two decimal digits. Applied for numeric fields only.
* **{**  
  This column is not displayed. If field value is not empty it is added as an HTML class to all the cells in that row.

**Adding new report to the system**

1. Create a stored procedure that generates report.
2. Add an entry to ReportScheduler table.
3. For each user that should be able to see this report add an entry to ReportsUsersMap.
4. Enjoy.

**Source code**

Location: [c:\bbezbob\EzReporting](file:///c:\bbezbob\EzReporting)\EzRreporting.sln

Projects:

* **Reports**  
  Base project. Creates HTML from stored procedure. This HTML is sent via email or displayed on reports site.
* **EzReportToEmail**  
  Sends emails.
* **EzReportsWeb**  
  Reports site code.
* **ReportAuthenticationLib**  
  Helper for the web authentication.

**Deploying code changes**

Production report scheduler runs on UAT machine.

User: auto\_exec / QzWx2013$

* Email sender  
  Put DLLs and executables into [C:\Reports\EzReportToEmail](file:///C:\Reports\EzReportToEmail) on that machine.
* Web site  
  Perform local publish and copy files to [C:\inetpub\wwwroot\EzbobReports](file:///C:\inetpub\wwwroot\EzbobReports) on that machine.

**Scheduler**

Email sender: runs via Windows scheduler daily at 23:55.