# Synergi System version x.x.x.x – Technical Document

## Server-side Requirements

* SQL Server 2008 R2 + Reporting Services
* Microsoft .Net Framework 4

## Licensing

* Telerik Controls (Xn)
* Synergi License
* SMS contract with MessageMedia. (temporary is Rockford)
* Microsoft Bing service? (Waiting for office audit for group licensing details)
* Wotif for Competitor data. (checking with Volker, Online Systems)

## Client-side Requirements

* Microsoft Internet Explorer 8.0 or above
* Silverlight 4

## Pre-installation Requirements

* Default package:
  + Default empty Synergi database.
    - With Tables/Schemas /Views /Stored Procedures/User defined functions.
    - Look-up data.
      * Department/Roster Centre/Centre/Sub Centre/Micro Centre structure
      * …
  + Reports (.rdl files).
  + SSIS packages.
  + Default empty Competition database.
  + WebSite published code with dummy authentication information.
  + GeoCode Service
  + Synergi Background service installer.
  + In discussions:
    - Security problem of web services.
* Contract decisions:
  + Number of sites allowed.
  + What modules to be available.
* Create a Synergi license number.
* Database Limitations / Customizations. (Energy, Competition, SMS, …)
  + Which are separate importing scripts just for setup in Agent Jobs. These scripts should be included in the database whenever they have a license. (Need prepare a list that indicate which scripts tie to which module)
  + Which are scripts related to Schema and tied to code behind (without them, the website will throw errors). These should be kept in this database. And then alter for licensing purpose.
* Environmental - First Technical Meeting: networks, logins, servers
  + VPN connection or the way to connect to Database Server and Web Server to do installation.
  + Internal /External machine and domain name for Synergi site.
  + Technical contact number from client.
  + Synergi login account mapped to Protel, TimeClock and Competition database.
  + Accounting System information.
  + Protel connection (username, password, data source).
    - Do we worry about the performance? Make a test connection for example?
  + Mailing information.
    - Smtp server.
    - No-reply account.
  + Is there possible to have mailing support for DBMS to send email to Synergi Support whenever the importing steps are going wrong.
* Installation:
  + Background / supporting
  + Website
  + Database – logins

## Synergi System Installation

### Environment Checking

* Try to connect to web server, database server.
* Copy InstallationPackage\WebSite to the Web server folder.
* Copy InstallationPackage\(others) to the Database server folder.
* Make sure asp.net 4.0 is installed correctly (ISAPI filters, MINE types). If not, run “framework\_4\_0\_...\aspnet\_regiis –i” to install.

### Database Installation (with Protel connection)

* Review database collation.
* Restore the empty Synergi database.
  + Restore db from empty db backup.
  + \_00\_Synergi\_Structure.sql
  + \_01\_Synergi\_Jobs.sql
* Install GeoCodeService.
  + Run Installer.
  + Change connection string in .config file.
* Run custom scripts for PROTEL connections
  + PROTEL\\_01\_Protel\_customCkit.sql (if Protel doesn’t use custom ckit)
  + \_02\_Protel\_LinkedServers.sql
  + \_03\_Protel\_Jobs.sql
  + Re-write stored procedures, views of ProtelSchema if needed. (for licensed one only)
    - Data source changed. (We need to know what are dynamic data from Protel and what are fixed data)
* Run custom scripts for EMS connections (optional)
  + \_04\_EmsServer\_structure.sql
  + \_05\_EmsServer\_LinkedServers.sql
  + \_06\_Ems\_Jobs.sql
* Run custom scripts for CHARTS connections (optional)
  + \_07\_Charts\_structure.sql
* Run custom scripts for MYOB connections (optional)
  + \_08\_MYOB\_Jobs.sql
* Restore the empty SynergiComp database.
  + Restore from the Empty SynergiComp database.
  + \_09\_SynergiComp\_Structure.sql
* Install SSRS Reports.
* Data Setup
  + SSIS packages suitable for accounting package.

### Background Services Installation

* Install SynergiBackgroundServices.
  + Stop and unregister the current service by using uninstall.bat.
  + Run Installer.
  + Change connection string in .config file.
  + Register and start the new service by using install.bat

### Website Installation

* Website installation.
  + Change Service.ClientConfig urls.
  + Change web.config.
  + Deploy to server as an asp.net 4.0 application (set application pool is in Integrated mode).
  + Make sure Default.aspx is in the list of default start pages.
* Get license number and put in settings to activate:
  + Go to website, log in as PortalAdmin.
  + Input license number.
  + Go to PortalAdmin page, change organization information and create OrgAdmin user.
* Login as OrgAdmin:
  + Create sitegroup
  + Create a new site
    - Input needed information for site.
    - \_09\_Synergi\_Empty\_LinkSite.sql
    - Create a GM for the site:
      * Create new employe (FirstName, LastName, Account info).
      * Assign GM and Security Admin roles (and with the default “Roster Member” role ).
* Setup External System data (using template).
* Run “Run-Once” scripts.
* Run Jobs as first time in order. (check the file Synergi Modules.xlsx)
* Configure security of web service.

## After Installation

* Training sections/documents.
* Support Centre / method.

Syn3rg1@w3b