# LIST OF SOFTWARE and ACCESS AUTHORIZATION NEEDED

## Software to be installed

* Through Provision ( <http://provision.agl.int/> )
  + Microsoft Visio Viewer (AUTO)
  + SQL Server Management Studio 2012 (AUTO) (client for SQL Server)
* Via request to Service Desk (will need the explicit approval and justification from your manager)
  + hdbstudio (client for SAP Hana)
* This software can be installed on your local machine only if you have admin rights:
  + Anaconda package manager (for Python + Jupyter + Spyder)
  + Matlab
  + Git client (example: SourceTree, GitExtensions, etc.) 🡪because of issues with the AGL proxy, GitExtensions is preferred respect to SourceTree

## Authorisations needed

* To be asked to Service Desk
  + Access to vivid database: GBLWI868
  + Remote desktop access to VIVID server (MATLAB PC): glbvd103
  + Access to ST Foresight: <https://glbwi1060/STLF>
  + Ask for the access rights (read/write) to the Wholesale markets wiki: <https://grid.agl.com.au/sites/Spaces02/LFP/Wiki/Home.aspx>
  + Make sure you can access Monocle: <http://glbwi1247/Monocle>
* You will need admin rights to install on your local machine Python, Matlab (needed?) and to setup properly the ODBC administrator in order to connect to the various databases. Write to Service desk for getting these admin rights.
* If you plan to run the Medium Term Load Forecast with VIVID, you will have to connect to the VIVID server and run the Matlab code as admin. In this case, request to Service Desk admin rights on glbvd103 as well.
* Through Provision -> ‘Request Access Exception’
  + Access to ‘NOSTRADAMUS INFOSERVER’
  + HANA MERCHANT POWER USERS
  + Read-only access to Goliath/Infoserver
* Make sure that your account is added to the following mailing lists:
  + Mail sent by vivid\_dataload
* Github:
  + Create a new Github account using you’re a number as username
  + Send an email to [DSTDEVOPS@agl.com.au](mailto:DSTDEVOPS@agl.com.au) and ask to add the new github username to the ‘AGL Energy Org’ and to ‘Load Forecasting team’

# Key Documentation

* Forecasting wikis: <https://grid.agl.com.au/sites/spaces02/LFP/Pages/default.aspx>
* Medium Term Load Forecast (Electricity):
  + [\\glbwi024:\Forecasting\2. Load Forecast Operations\1. Electricity Medium Term\1. Documentation\](file:///\\glbwi024:\Forecasting\2.%20Load%20Forecast%20Operations\1.%20Electricity%20Medium%20Term\1.%20Documentation\)
  + In particular, go through the following documents:
    - J:\Forecasting\2. Load Forecast Operations\1. Electricity Medium Term\1. Documentation\3. Forecast\1. Electricity Load Forecasting Methodology.doc
  + Note: the PC glbwi024 has also the alias ‘J:\’
* Medium Term Load Forecast (Gas):
  + \\glbwi024\Common\Forecasting\2. Load Forecast Operations\2. Gas Medium Term\7. Operational forecasts
  + Two main documents:
    - Gas MTLF Procedures (by Greg).docx
    - Gas MTLF Procedures (by Yien).docx
* Short Term Forecast:
  + J:\Forecasting\2. Load Forecast Operations\3. Short Term\1. Documentation\2. ST Foresight\ST Foresight User Manual.docx

# HOW-TOs

**How to setup the connection to SAP Hana:**

1. Install the SAP client hdbstudio on your machine
2. Configure your ODBC channel, add Hana
   1. Start ODBC Administrator (only 32-bit!)
   2. Settings as per section ‘HANA’ in Appendix A (must be admin!)

**Connect to VIVID SQL Server database**

1. Contact Service Desk and ask for access authorization to

VIVID database GBLWI868

1. Request the installation of SQL Server Management Studio (via Provision)
2. …

**Connect to VIVID server for MTLF**

1. Contact Service Desk and ask for auth to remote desktop connection to the MATLAB PC glbvd103

See section ‘Virtual Machines’ in Appendix A

1. Remote Connect to glbvd103, using your windows credentials

**Location of Matlab Vivid code**

* C:\myWork

C:\myWork\MainCode

* Depending on your setup, you can see this location from either your machine or the vivid matlapb pc (glbvd103)
* You must run Matlab (r2015a) as admin. Otherwise you will get a ton of warning and error messages at startup and nothing will work.
* As very first thing, after Matlab is started in admin mode, type in the matlab console the following to move to the myWork directory
  + Cd C:\myWork\
* If Matlab does not start on the vivid pc and issues an error ‘License Manager Error: -39’, one must add you’re a number to a list in a file on the license server and restart the corresponding demon (ask Neil for more details):
  + License server: \\GLBWI407\matlab\_license
  + File name: mlm.opt
  + In order to restart Matlab license server: click Run -> services.msc  -> restart "MATLAB License Server"
  + Users that can do that: Neil O’Leary, IT (Krishi)

**How to setup your git and access Github repos through AGL proxy**

* Main painpoint is the AGL proxy: no SSH is passing through. The following procedure will take this into account
* Activate an account on Github (see above under ‘Authorisations needed’)
* Download and install Git
* Follow all the instructions at <http://glbwi1247/docs-agatha/setup/installation.html>
  + this is the doc that explains how to set up the access to Github through the proxy
  + in practice, we connect to the Github server not via ssh but via https. It implies you must authenticate with your Github password every time you push or pull.
  + notice that this operation must be repeated every time you change your computer or your AGL password!!!
* Download and install GitExtensions
  + this is a Git Client with a graphic user interface, it might make your life easier. Alternatively you can just use the bare git via the git bash shell that comes together with the Git download at the previous point.
  + set it up. Select OpenSSH authentication, just to make GitExtensions happy, albeit we won’t use it. For the rest, the default settings are all quite ok. Don’t bother about kdiff3 for the moment.
* From GitExtensions -> Dashboard -> Clone repository (see menu on the left)
  + - Notice that if it is the first time you run GitExtensions, you will start already from the dashboard
  + “Repository to clone”: the https web URL of the repo on Github.
    - Example: <https://github.com/AGLEnergy/Agatha.git>
  + “Destination”: the local directory where to keep the repository
    - Recommended to choose a directory on the C: drive!
    - Example: C:\Users\a138824\AGL
  + “Subdirectory to create”: the code of the repository will go in this subdir
    - Typically is the name of the package
    - Example: Agatha
  + Click “Clone”. A new window will pop up, you will have to type your Github username (example: a138824) and the Github password for that username.

**APPENDIX A: server details**

**Weather data**

mapp\merchantapp

login: nostra\_temp

pw: nostra

**Forecasting**

loadfc

mdw\merchantdw

Login: gstread

password: gstread

**LoadFC Dev**

Server name: glbwi077

Login: gstread

password: gstread

**STForesight**

<https://glbwi1060/STLF>

sqlfarm1pr7\sql07

(Windows  Authentication)

**INFOSERVER (SQL SOUTHERN HYDRO)**

Goliath\infoserver

(Windows  Authentication)

SQL Server database, contains system demand, access via SSMS

**HANA**

Host Name: hananode1

Instance Number: 00

dns: HANA32

port: hananode1:30015

**VIVID**

Server name: glbwi868

svc\_vivid

**Wholesale Gas MIBB reports**

mapp\merchantapp

Login: prmpro

password: agl123

**Virtual Machines**

MATLAB PC (connect from remote to run Vivid MTLF): glbvd103

restoredefaultpath; matlabrc if error

>> cd MyWork

>> cd UserConfigurableFiles\

>> LoadDataItems\_Stream2\_speedup\_v3\_1\_PD\_BHP

**Database: SQL Server 2014**

Server Name: FRAMEAGLISTENER.AGL.INT

Database Name: Volta

Schema: STTM

**Monocle**

Server name: glbwi1247

<http://glbwi1247/Monocle/forecasting>

**STALKER**

<https://agl.serraview.com/locator/#/?redirect=desks>

**STLF**

<https://glbwi1060/STLF/>

**STLF task scheduler**

PC number: glbwi894

Login via Windows credentials

**STTM market data**

Database: SQL Server 2014

Server Name: FRAMEAGLISTENER.AGL.INT

Database Name: Volta

Schema: STTM

**MasterUI**

<http://10.216.24.36/MASTERUI/MASTERDATA/RetailContractException.aspx>