



SWS

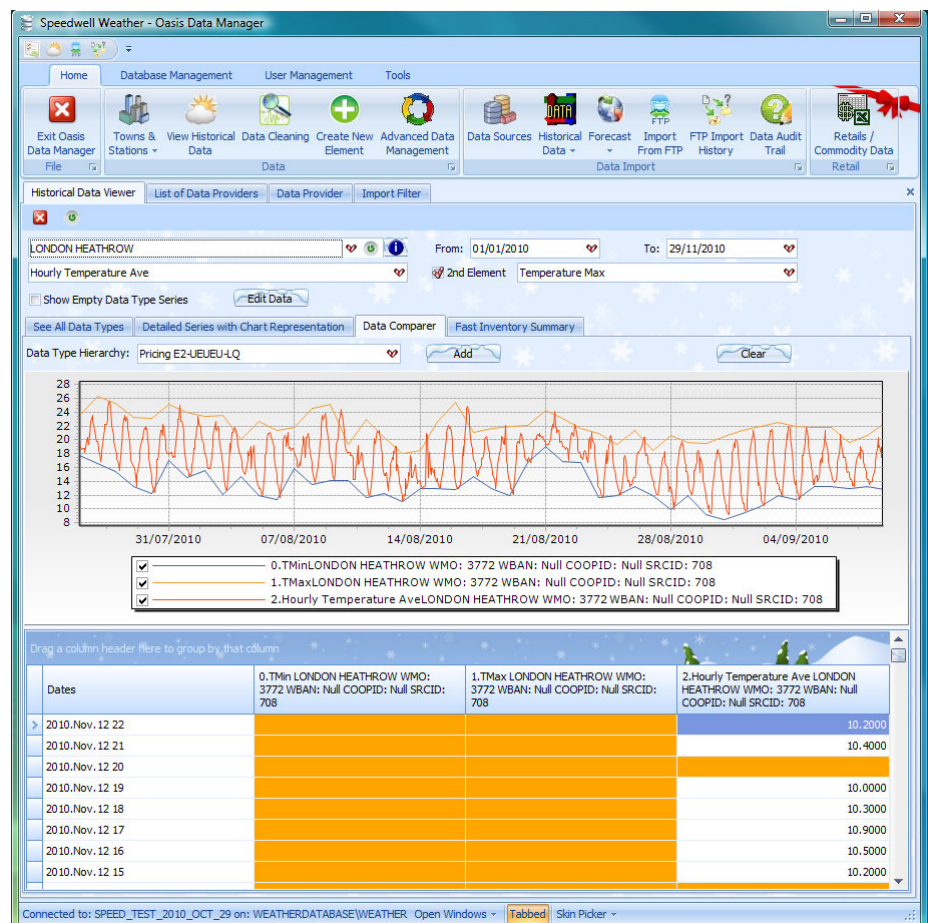
The enterprise weather derivative pricing system ..an update on recent developments

Over its ten years' of development we have made frequent releases of SWS roughly every 6 months leading us to the current version, SWS 6.6. As we have not made a release for a while we would like to let our users know that progress has not stopped.

The development team supporting SWS and the infrastructure behind products that integrate with SWS such as the SuperPack data product and SWD forecasts- has grown. At any one time we now have up to six developers working on SWS or SWS related projects.

First of all the all-important SWS Oasis Data Manager which manages the import of weather data and forecast has been entirely rewritten in .Net. The user's interface has been significantly upgraded, with *MS Office-like Ribbons, a tabbed interface, skins and many improved controls. New interesting functions have been added such as:

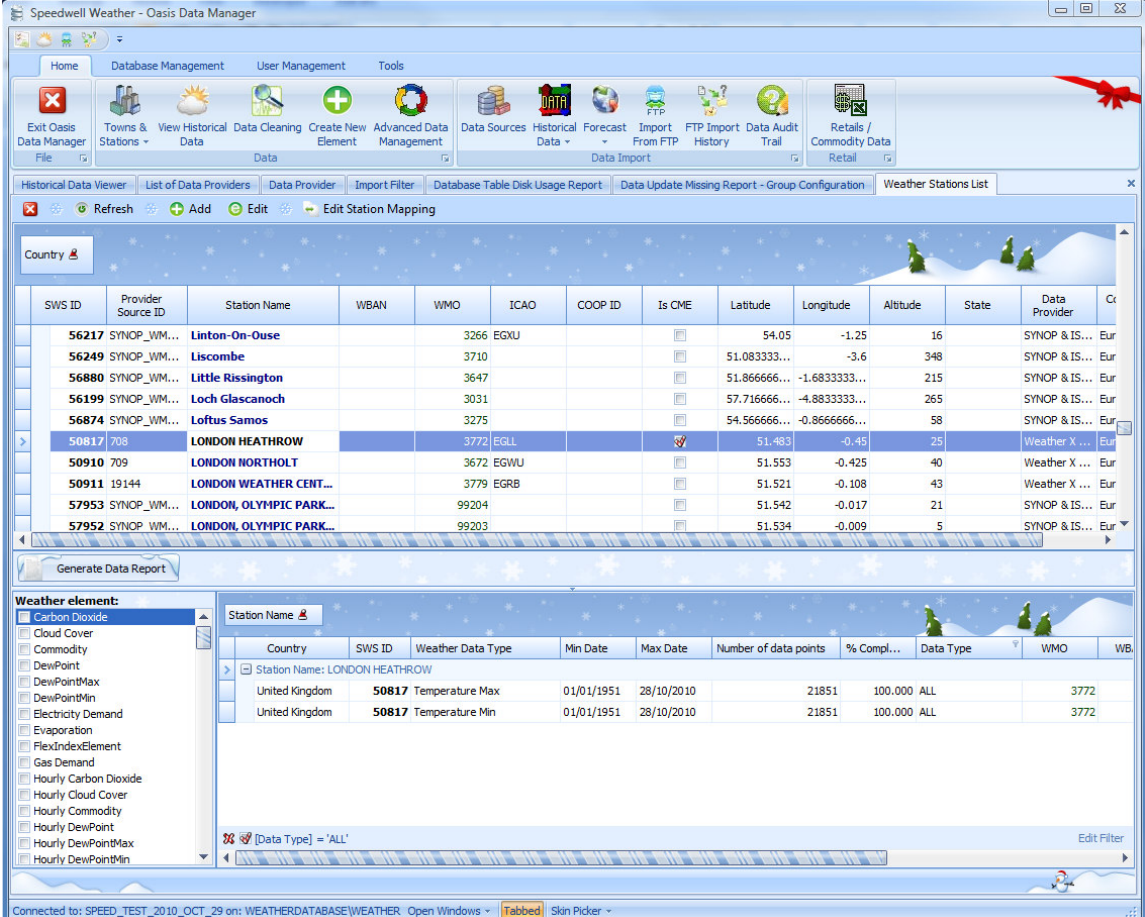
- Plotting of daily and hourly data
- Editing CSV filters
- Automatic import of FX rate files
- Support for the Speedwell Weather Forecast (including monthly and seasonal)
- Configurable automatic emails notifying when files have been imported into the database



SWS Data Manager

It is now easier and faster than ever to run a data inventory. The data manager now supports sub hourly data.

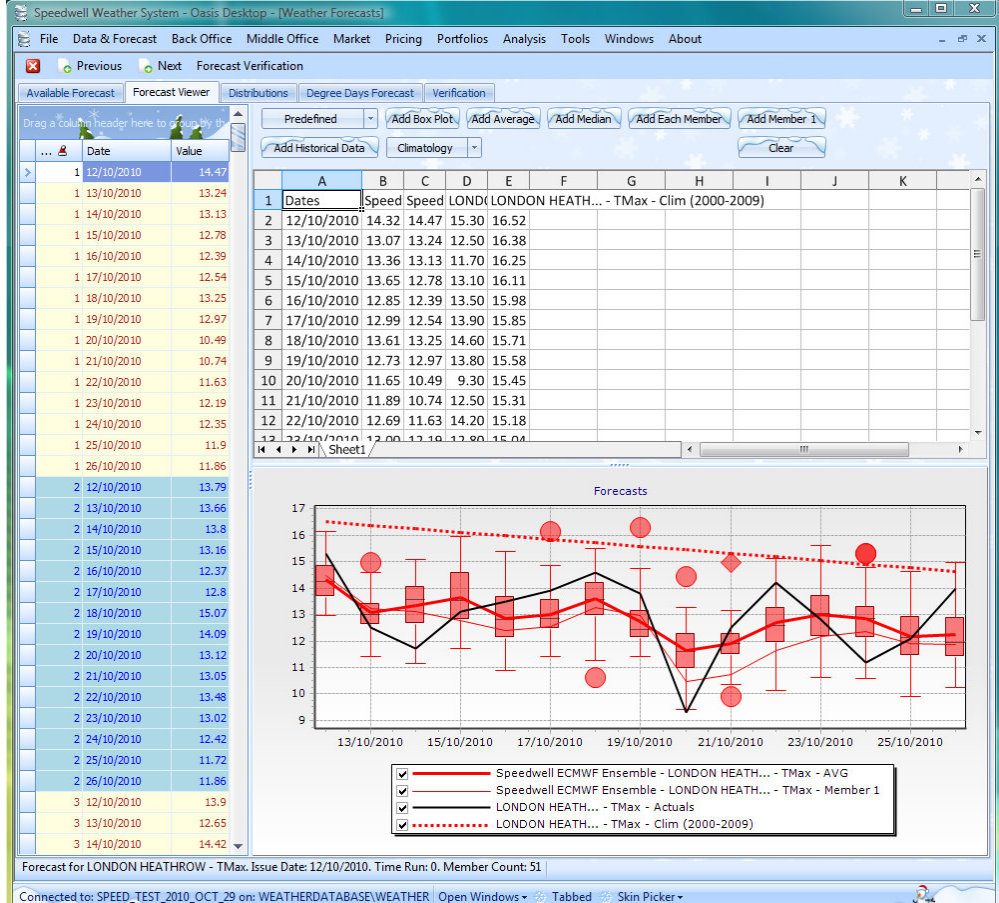
We are planning to release this new version to all our clients early next year



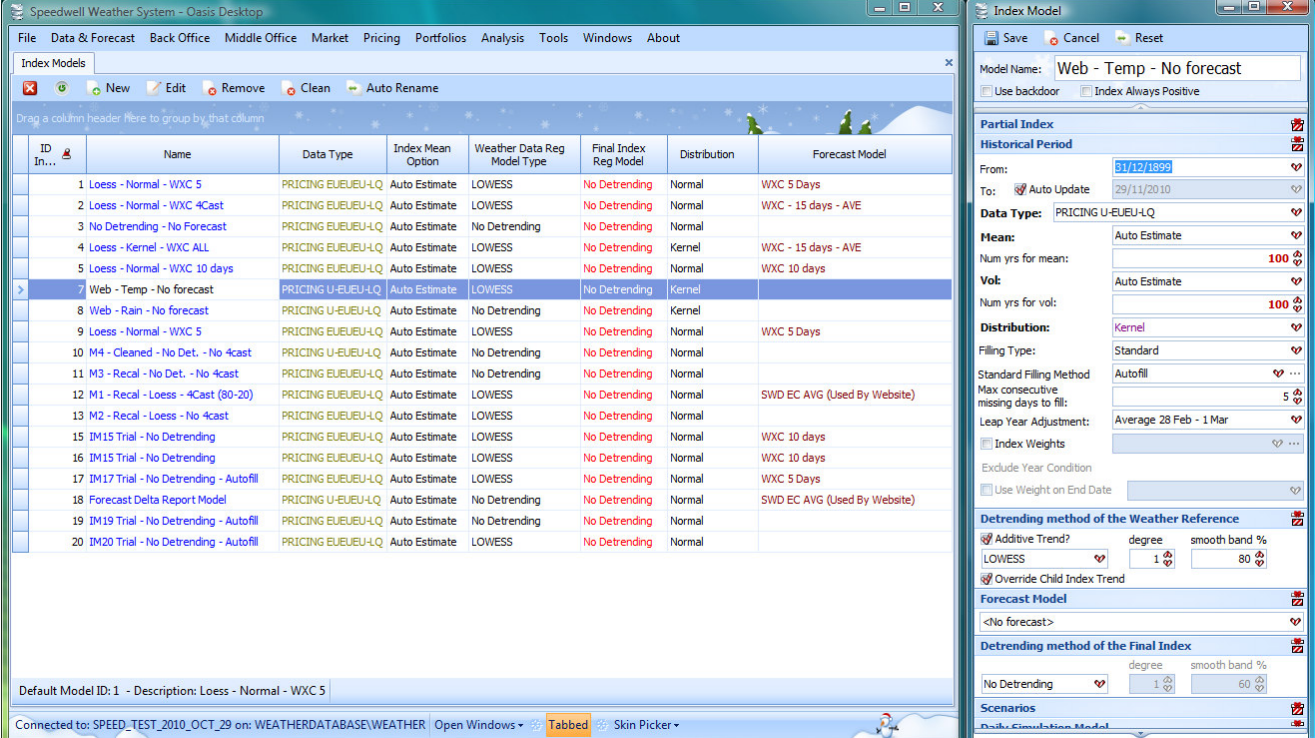
SWS Desktop

The main SWS Oasis Desktop is still under significant development and the approach is very similar to the Data Manager: simplify the screens, improve the look and feel and make it faster.

Particular attention is being paid on the core SWS screens such as the forecast viewer, the pricing screen, the portfolio screens or the market grids.



SWS..the new Index Model interface

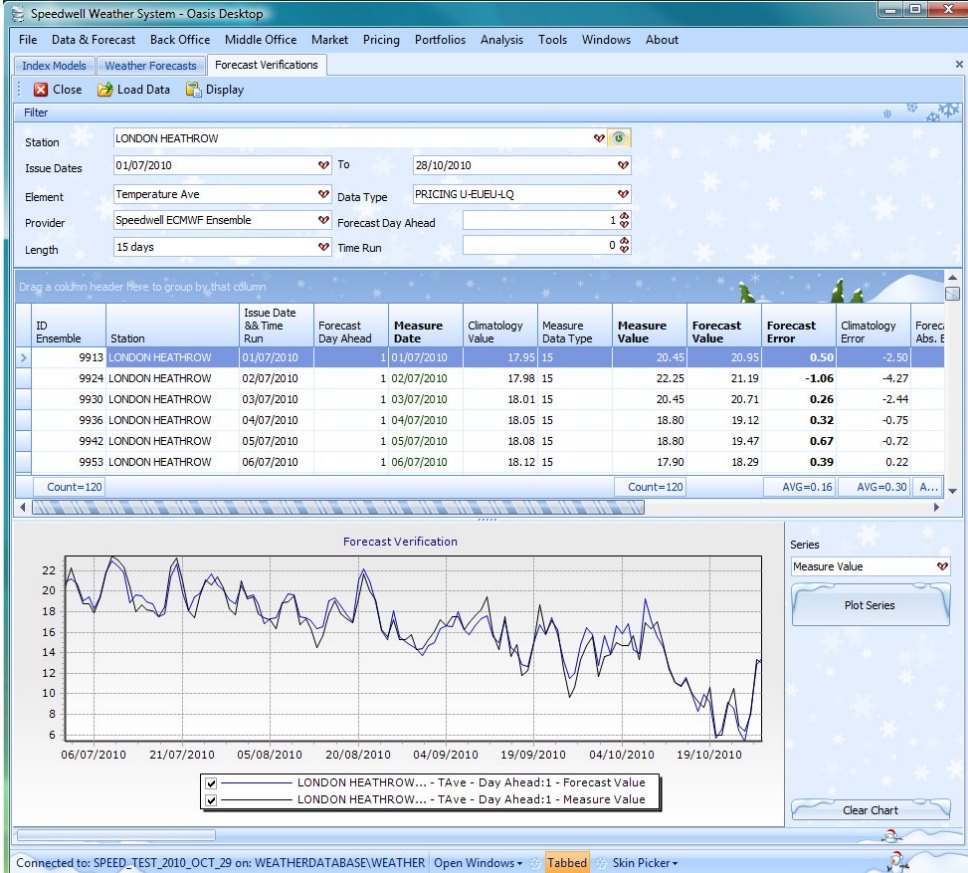


The screenshot displays two windows from the Speedwell Weather System - Oasis Desktop. The main window, 'Index Models', shows a list of 20 models. The selected model is 'Web - Temp - No forecast' (ID 7). The right-hand window, 'Index Model', shows the configuration for this model, including historical period settings (From: 31/12/1899, To: 29/11/2010), data type (PRICING U-EUEU-LQ), mean (Auto Estimate), volatility (100), distribution (Kernel), and detrending methods for both the weather reference and the final index.

ID In...	Name	Data Type	Index Mean Option	Weather Data Reg Model Type	Final Index Reg Model	Distribution	Forecast Model
1	Loess - Normal - WXC 5	PRICING EUEUEU-LQ	Auto Estimate	LOWESS	No Detrending	Normal	WXC 5 Days
2	Loess - Normal - WXC 4Cast	PRICING EUEUEU-LQ	Auto Estimate	LOWESS	No Detrending	Normal	WXC - 15 days - AVE
3	No Detrending - No Forecast	PRICING EUEUEU-LQ	Auto Estimate	No Detrending	No Detrending	Normal	
4	Loess - Kernel - WXC ALL	PRICING EUEUEU-LQ	Auto Estimate	LOWESS	No Detrending	Kernel	WXC - 15 days - AVE
5	Loess - Normal - WXC 10 days	PRICING EUEUEU-LQ	Auto Estimate	LOWESS	No Detrending	Normal	WXC 10 days
7	Web - Temp - No forecast	PRICING U-EUEU-LQ	Auto Estimate	LOWESS	No Detrending	Kernel	
8	Web - Rain - No forecast	PRICING U-EUEU-LQ	Auto Estimate	No Detrending	No Detrending	Kernel	
9	Loess - Normal - WXC 5	PRICING EUEUEU-LQ	Auto Estimate	LOWESS	No Detrending	Normal	WXC 5 Days
10	M4 - Cleaned - No Det. - No 4cast	PRICING U-EUEU-LQ	Auto Estimate	No Detrending	No Detrending	Normal	
11	M3 - Recal - No Det. - No 4cast	PRICING EUEUEU-LQ	Auto Estimate	No Detrending	No Detrending	Normal	
12	M1 - Recal - Loess - 4Cast (80-20)	PRICING EUEUEU-LQ	Auto Estimate	LOWESS	No Detrending	Normal	SWD EC AVG (Used By Website)
13	M2 - Recal - Loess - No 4cast	PRICING EUEUEU-LQ	Auto Estimate	LOWESS	No Detrending	Normal	
15	IM15 Trial - No Detrending	PRICING EUEUEU-LQ	Auto Estimate	LOWESS	No Detrending	Normal	WXC 10 days
16	IM15 Trial - No Detrending	PRICING EUEUEU-LQ	Auto Estimate	LOWESS	No Detrending	Normal	WXC 10 days
17	IM17 Trial - No Detrending - Autofill	PRICING EUEUEU-LQ	Auto Estimate	LOWESS	No Detrending	Normal	WXC 5 Days
18	Forecast Delta Report Model	PRICING U-EUEU-LQ	Auto Estimate	No Detrending	No Detrending	Normal	SWD EC AVG (Used By Website)
19	IM19 Trial - No Detrending - Autofill	PRICING EUEUEU-LQ	Auto Estimate	No Detrending	No Detrending	Normal	
20	IM20 Trial - No Detrending - Autofill	PRICING EUEUEU-LQ	Auto Estimate	LOWESS	No Detrending	Normal	

SWS

This screen shows the new forecast verification tool



The screenshot displays the 'Forecast Verifications' window in the Speedwell Weather System - Oasis Desktop. It shows a table of forecast verification data for LONDON HEATHROW, comparing forecast values against actual measure values over a period from 01/07/2010 to 28/10/2010. Below the table is a line chart titled 'Forecast Verification' showing the 'Forecast Value' (blue line) and 'Measure Value' (black line) over time. The chart shows a strong correlation between the two values, with the forecast value generally following the measure value.

ID Ensemble	Station	Issue Date & Time Run	Forecast Day Ahead	Measure Date	Climatology Value	Measure Data Type	Measure Value	Forecast Value	Forecast Error	Climatology Error	Forec Abs. E
9913	LONDON HEATHROW	01/07/2010	1	01/07/2010	17.95	15	20.45	20.95	0.50		-2.50
9924	LONDON HEATHROW	02/07/2010	1	02/07/2010	17.98	15	22.25	21.19	-1.06		-4.27
9930	LONDON HEATHROW	03/07/2010	1	03/07/2010	18.01	15	20.45	20.71	0.26		-2.44
9936	LONDON HEATHROW	04/07/2010	1	04/07/2010	18.05	15	18.80	19.12	0.32		-0.75
9942	LONDON HEATHROW	05/07/2010	1	05/07/2010	18.08	15	18.80	19.47	0.67		-0.72
9953	LONDON HEATHROW	06/07/2010	1	06/07/2010	18.12	15	17.90	18.29	0.39		0.22

Summary statistics: Count=120, AVG=0.16, AVG=0.30

Timescale

With some 2 million lines of code rewriting the SWS Oasis Desktop and Data Manger is a significant task. It will take our team about one year to take this process to completion. There will be an intermediate release of important new tools before the journey is completed.

As we do so we would be delighted to hear your suggestions as to which parts of SWS or specific screens you would like to see being improved

We are grateful for your business.

Best Regards,

The Speedwell Dev Team

About the Speedwell Weather System, SWS

- SWS Enterprise is a full client-server application offering portfolio risk management and back office tools.
- SWS is an open system supporting multiple data and forecast providers.
- SWS database and components can be called from other systems
- SWS can also be remotely hosted by us for our users.

Contact Us

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