KISTERS Australia News

August 2011

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From The GM's Desk

By Bill Steen, General Manager, Kisters Pty Ltd

Welcome to this edition of the Kisters Australia Newsletter. The newsletter title is deceptive as the newsletter is circulated to our community around the world including New Zealand, USA, multiple countries within the African continent, throughout Asia, Europe, and the UK.

We are fast approaching the annual 2 day Kisters User Group to be held in Canberra on Wednesday 24th and Thursday the 25th August. This year will be a first with two parallel meetings running, one for HYDSTRA users and the second for WISKI users. However ¾ of the first day will be combined with both user and product presentations that are relevant to both products

These combined presentations include;

- The latest information on the Bureau of Meteorology's [BOM] Water Data Transfer Format [WDTF] presented by BOM staff.
- A presentation on the interoperability between HYDSTRA & WISKI presented by BOM and Kisters staff.
- Kisters Water Quality module running over TSM and interfacing with HYDSTRA.
- MDBA Ovens River Flow Forecasting Model presented by Hydro Tasmania using Kisters modelling software
- The latest information on AWRIS presented by BOM staff.

The second day will be run in parallel to cover topics specific to the particular product providing user presentations and product updates and future directions.

On the completion of the first day [Wednesday] the Australian Hydrographers Association will hold their AGM. Following the AGM the Kisters dinner will be held at University House, The Australian National University.

From Kisters perspective it would be good if you could notify us of your intentions to attend the user group and dinner so we can finalise the catering. At this point we simply need to know if you are hoping to attend.

We look forward to seeing you all at this year's user group meeting. By the way for those of you who feel Canberra is cold in August we have some "special" corporate gifts to warm you up this year.

Bill Steen

DSE Tender

Kisters was successful in winning a tender to provide the Victoria Department of Sustainability and Environment [DSE], Office of Water, a solution to replace and enhance the water measurement data, metadata and other ancillary information currently collected, processed, stored and made available to users through the Groundwater Management System (GMS), the State Observation Bore Network (SOBN) Database and the Victorian Water Resources Data Warehouse.

It is anticipated the Kisters HYDSTRA solution will be available to authorised users both within DSE and external to DSE, such as RWCs, DPI, MDBA, CMAs, other RWMP partners, Contracted Field Service Providers (e.g. Thiess, Australian Laboratory Services), and to members of the public.

The solution proposed by Kisters included HYDSTRA Time Series, Groundwater, Water Quality, Server and Web modules.

The implementation phase of the tender has commenced, and completion is scheduled for mid 2012.

WDTF Ingest Schedule

By Todd Lovell, Bureau of Meteorology

As mentioned in the last newsletter, the Bureau of Meteorology have been working closely with Kisters on a project to receive data from Hydstra in the Water Data Transfer Format (WDTF) directly into the Australian Water Resources Information System (AWRIS). The Bureau will be ingesting data from organisations delivering data using the Hydstra HYWDTF_OUT program. Tests have been carried out with Kisters and the Bureau and this work has identified updates to the Bureau online WDTF validator, WDTF web page documentation and the Hydstra HYWDTF_OUT program. These all have required updates to keep them aligned.

In March, key staff from Lead Water Agencies (as identified in the Water Regulations) received training and configured the HYWDTF_OUT program on a copy of their Hydstra database. The plan is for the Bureau to receive, ingest and verify the data from these agencies over the next 12 months. The Bureau will work with each agency over 6 week periods to confirm that the data is being ingested and interpreted correctly. The planned schedule is as follows:

Schedule

Organisation	Start Date
NSW Office of Water	1-Aug-11
Department of Environment and Resource Management	12-Sep-11
South Australia Department for Water	24-Oct-11
Australian Capital Department of the Environment, Climate Change, Energy and Territory Water	5-Dec-11
Northern Territory Department of Natural Resources, Environment, the Arts and Sport	16-Jan-12
Victorian Department of Sustainability	27-Feb-12
Murray Darling Basin Authority	9-Apr-12
Western Australia Department of Water	21-May-12

A number of WDTF_OUT training courses to assist Hydstra users and prepare them to transfer data using the HYWDTF_OUT program are being organised for the 2011/12 financial year. NSW Office of Water, Victorian Department of Sustainability and Western Australia Department of Water are all in the process of organising courses with the assistance of Modernisation and Extension program funding. In the last newsletter, the Bureau requested agencies to notify them by sending an email to waterdata@bom.gov.au with details of people that would benefit by attending the course. It is still possible that we might be able to get people on a course if required.

Note: The Bureau is still requesting that organisations do not change to the new Hydstra HYWDTF_OUT program without notifying the Bureau first as they would like to plan and stage the transition from the current HYBOMEXP data delivery to the new HYWDTF_OUT data delivery for each organisation and work directly

with them during the transition.

Kisters footnote: The specifications for HYWDTF_OUT is still being hammered out in conjunction with the BOM, and it will probably only be available in final form just before you need to go live, as instructed by BOM. At that time please ensure you have installed the most recent build rollup from the FTP site (see below).

KISTERS receives the OpenMI Award 2010

OpenMI stands for Open Modeling Interface. It is both an association and a software solution to progress towards integrated modelling across the web. The OpenMI standard allows model to exchange data with each other on a time step by time step basis as they run.

In 2010 the KISTERS Time Series Server (KiTSM) became OpenMI compliant. Raw and processed time series data for any water resource related observation is now accessible for OpenMI compliant models. See http://www.kistersnews.com/eu/news/water/open-MI.html for more details.

At the end of 2010 KISTERS and HydroInform went a step further and successfully linked a model in Denmark with the KISTERS TSM Server located in Germany across the internet. This was proof of concept for a vision of data hubs serving freely accessible and qualified time series data through a standardised interface.

In May 2011, on behalf of the OpenMI Association Executive Committee, Quillon Harpham informed Klaus Kisters of the good news that KISTERS had received the OpenMI Award 2010.

OpenMI Awards 2010 WINNER

Additional information about OpenMI
What is OpenMI? [by the OpenMI Association]
KISTERS OpenMI Interface [by KISTERS News]

2011 KISTERS User Group Meetings

Canberra - August 24/25

The 2011 Australian User Group meeting will be held in Canberra on August 24 and 25 at the Marque Hotel, 102 Northbourne Avenue, Canberra, www.marquehotels.com, ph: 02 62491411, fx: 02 62496878

Special conference rates will be available for User Group attendees however Parliament will be sitting that week so accommodation in Canberra will be tight. You are advised to book early if you plan to attend. You should mention that you will be attending the Kisters User Group Conference to get the best rates.

The cost of the Canberra conference will be $580 per person, inc GST. Please contact Debbie Cockburn to register if you have not yet received a registration form.

The meeting will be for both Hydstra and Wiski users, Wiski users will break out into a separate room after Peter Heweston's technology talk on the afternoon of day 1. We have some interesting presentations planned from the Bureau of Meteorology which we are sure will be of interest the everyone.

Sacramento - September 12/13

The 2011 US User Group meeting will be held in Sacramento on September 12 and 13 at the Sacramento Hotel, 100 Capitol Mall, Sacramento. Please contact Kisters North America for more details.

KISTERS Water Quality Solution Live In Australia

In December 2009 the New South Wales Office of Water (NOW) contracted KISTERS to implement a new organisation-wide advanced sampling data management system. The system was required to replace their 15 year old in-house water quality system with a modern commercial package.

The KISTERS Water Quality Module KiWQM (colloquially pronounced '*kwickem*' in Australia) is designed for the efficient and effective management, analysis, and reporting of sampling data, which comprises water quality, ecological analysis and air quality. KiWQMs capabilities cover a wide range of functions and calculations used for the analysis, interpretation and comparison of sampling data. Furthermore, through the implementation of ESRI's ArcGIS Engine users are also able to manage, access and analyse data from a spatial perspective. KiWQM is integrated into Hydstra via the WW warehouse datasource, which means KiWQM data can be used by all Hydstra processes including plotting, reporting, HYBATCH, HYAUDIT, Hydstra/WEB etc.

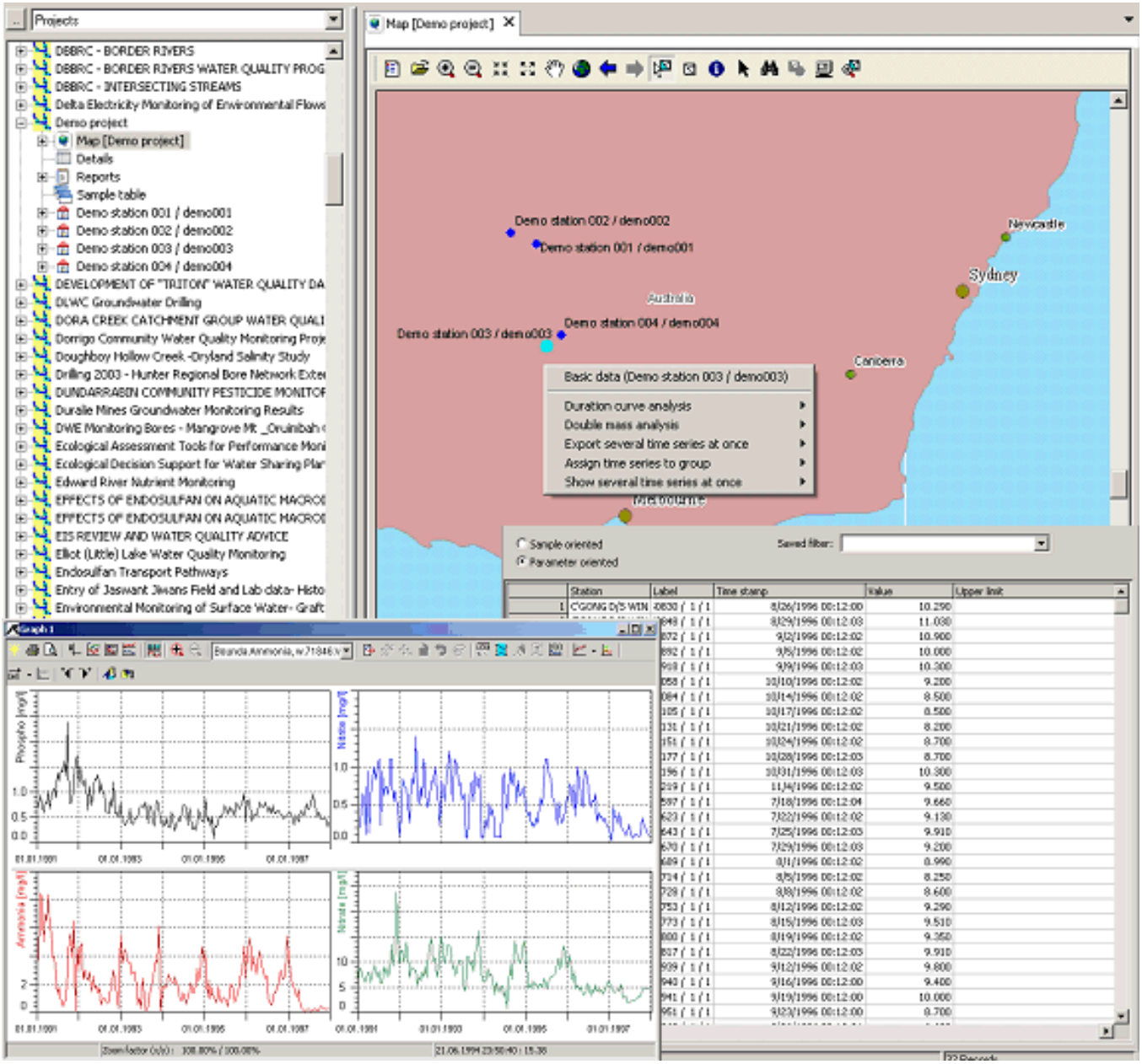
KiWQM is based on the KISTERS WISKI 7 technology and functionality. This technology comprises a 3-tier architecture, with a database layer, which is MSSQL 2008 @ NOW, the KiTSM business logic layer and the KiWQM application layer. Through the application of KiTSM, sample data is processed as soon as data has entered the system. This means data validation and correction as well as analysis are carried out automatically. Examples here include calculation of annual percentiles, long-term statistics or specific routines such as ion balancing. In terms of standard functionality, KiWQM comprises the flexible WISKI 7 meta-data framework, the agent and operation frameworks, the KiScript scripting language and the user administration.

The KiWQM system at NOW also comprises the distributed service manager KiDSM and the alarm manager KiAM. KiDSM allows lab results, which are sent to a hot folder, to be automatically imported into the system - on a predefined schedule or event triggered. KiAM informs project managers about potential water quality or algae issues by email or text message as soon as they are reported.

A main focus of the implementation of the new system for managing water quality samples was the seamless integration with the existing NOW systems, in particular Hydstra, which is applied for handling all time series data. The KiWQM client will be accessible for users through Hydstra within the Hydstra application menu. This will allow users to work on water quality meta and sample data (KiWQM) and time series data (Hydstra) starting from the same platform. In addition KiWQM data can be exported directly to the Hydstra WQ warehouse where it can then be treated as any other data sources and exposed to Hydstra functionality. It can also potentially be published to Hydstra/Web or exported to the BOM in WDTF format.

A major part of the implementation of the new system was the migration of legacy data into the KiWQM database structure. This included more than 20,000 sampling stations. 500,000 samples and 3.5 million analysis results. This was achieved using the newly built KiWQM batch import framework, a flexible and scalable tool used to import bulk data seamlessly into the data structure.

The data migration is now complete and as of June 2011, KiWQM is now available to staff from a variety of NSW government departments that deal with water quality data.



Hydstra Product News

Hydstra Patch Regime Changing

We have been considering the issues of ad-hoc patches to the current Hydstra release for a while now. As the number of patches increases it has become tricky to know what dependencies patches have on other patches. This raises for us the spectre of possibly sending out a patch that won't work with other EXEs or libraries. To simplify the process for us and to make it safer for you we have implemented some changes.

Hydstra builds have a four-component name, along the line of 10.03.02.20110708. This means *version* 10, *release* 03, *patch* 02, *build* 20110708. Systems sharing the same version and release are guaranteed to be database compatible, systems sharing the same patch are guaranteed to be binary exe compatible.

We hope to rebuild the system every week, which means the build date will change. As part of a new build the entire test harness is run across the new build to ensure that the system is still healthy.

As a general rule any patches made during the week will be consolidated into the weekly build. Only in exceptional circumstances will patches be sent immediately to users, the usual procedure will be for them to

wait for the next build.

You can access the patches in one of two ways:

- From the FTP site ftp.kisters.net/hydstra/releases
- From the web site http://kna.kisters.net/hydstra/

In either case you will need to contact us for the user login and password. Please include your HYACCESS.INI in your email.

You will see two files, one labelled *install* which is a zip of a full system image suitable for upgrading from earlier versions of Hydstra, and one labelled *update* which is a collection of all the files that have changed in any way since the initial release.

The procedure for applying the patches from a build is manual at the moment:

- Shut down Hydstra and ensure that everyone is logged off
- Ensure you have a backup of the system (HYCLONE can be helpful)
- Unzip the build file somewhere (it may get large - it is presently 83MB zipped)
- Copy \hyd\sys from the build tree and drop it on \hyd\sys of the production tree, and say yes to overwriting files. Alternatively use Beyond Compare to compare files and push across the new ones.
- Re-apply read-only flags and appropriate permissions if necessary.

We are working on a HYPATCH.HSC job to apply the patches automatically, we'll let you know when it's released.

The full build system is rebuilt at the same time, incorporating all the patches. If you need to upgrade from V9 to V10 you should download the latest full build from the FTP site., It will have a name like *hydstra.10.03.02.20110708.install.zip*. We have changed the content of the install zip to be a zip of a Hydstra directory tree, rather than a zip of an ISO that contains a directory tree. This allows you to unzip to a USB drive or a CD or wherever you wish. However take note that you must run SETUP.EXE from the root of a drive. If you haven't unzipped the zip file to its own drive you can use SUBST to make a new temporary drive. For example if you unzipped the install files to *c:\temp\hydstrav10\hyd\sys\run* etc you can run

```
subst e: c:\temp\hydstrav10
e:
setup
```

HYBOMEXP Duplicate Sections

A few users have reported problems with HYBOMEXP not sending all the computed data requested to BOM. After chasing down the problem with assistance from several users we finally got to understand that there was a subtle interaction between the HYBOMEXP cache and the cache that HYXMLOUT keeps. The bottom line is that you must not refer to the same TSCOMP specification in more than one section, for example if you have something like

```
operational~flow~1~point~inst=   100.00,   140, second,  1, 0, point
```

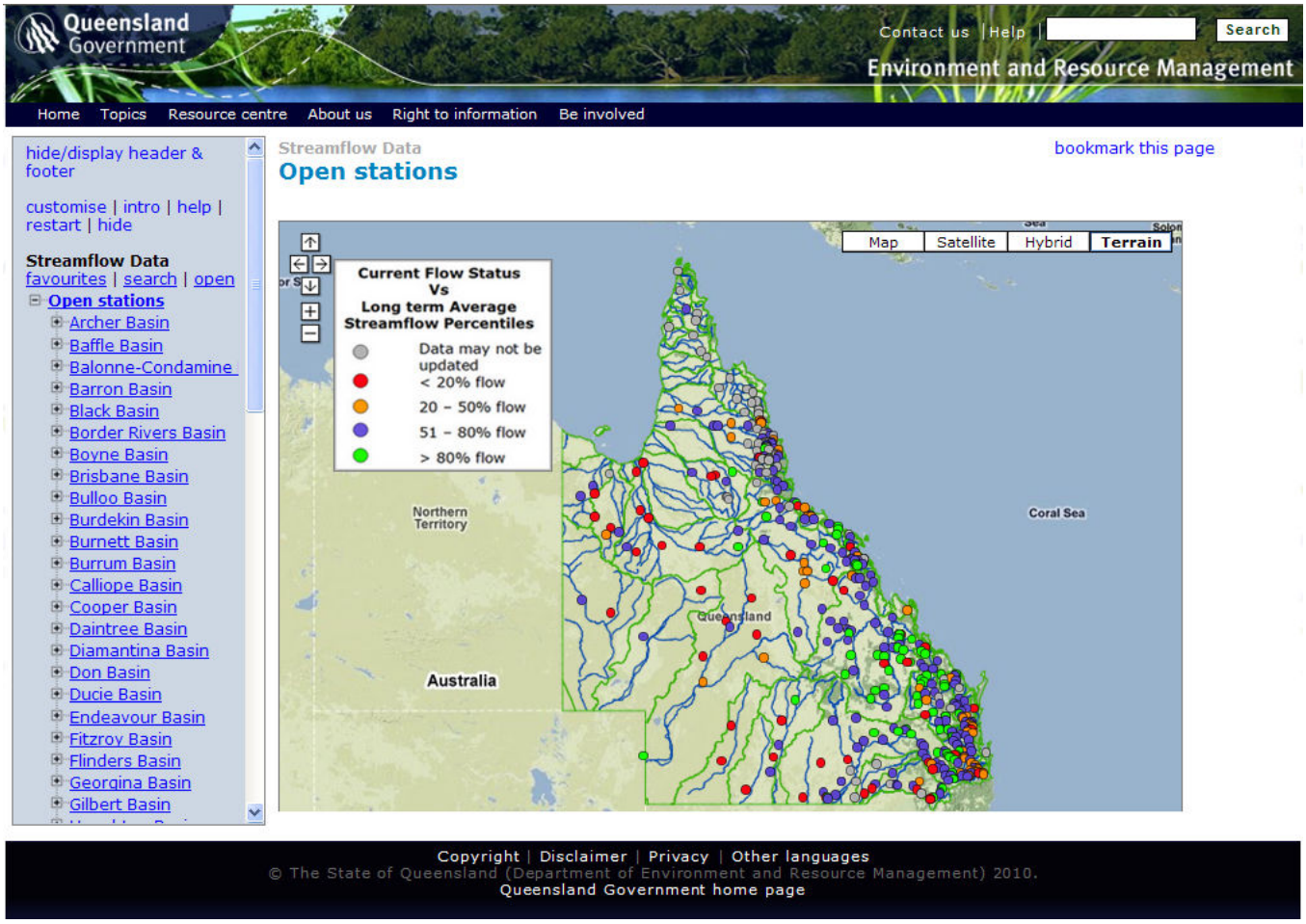
in one section of your INI file, you must not use the same specification *operational~flow~1~point~inst* anywhere else. We suggest instead of generic terms like 'operational' you use the section name to ensure uniqueness, hence

```
bom_inst~flow~1~point~inst=   100.00,   140, second,  1, 0, point
```

HYBOMEXP users who have not received patches from us in recent months should download and install the latest Hydstra 10.02.03 patch dated 20110708 or later.

QWR Web portal

The Queensland Dept. of Environment & Resource Management have gone live with Hydstra/WEB. Their web site is visible at http://watermonitoring.derm.qld.gov.au/host.htm.



Hydstra/WEB at DERM

Three Hydstra Truths

Over many long sessions on the support phone line we have come to a number of important realisations about modern computing. While the laws enumerated below may be slight exaggerations, they reflect deep truths about our ever changing environment:

1 - Permissions Are the Problem

Many of the problems users encounter running Hydstra (or indeed anything) come down to file permissions. Windows 7 and Server 2008 exacerbate the problem. Active Directory muddies the water even further.

2 - VPN Virtually Never Works

We have VPN access to many clients now, which helps us provide a higher level of support. However we find that any VPN system we use probably won't work if it hasn't been accessed for few weeks - something will change, the password will have timed out, the protocols will have changed, there are no free sessions .. whatever.

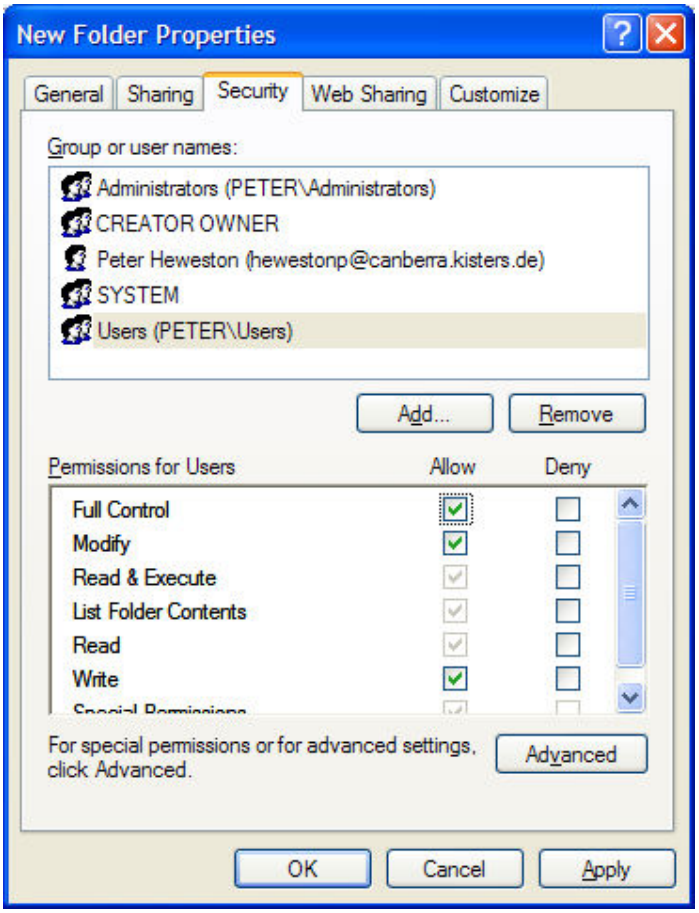
3 - Browsers Never Browse

Why won't my favourite browser *xxx version yyy* render correctly, print page breaks, use tabs, look good on my iPhone, or whatever? Because all browsers are different and it's hard work or impossible to support all features on all browsers.

File Permissions in Windows 7

Any directory made under the root of a modern XP or Windows 7 computer does not have full permissions by default. Even though you made the directory and you put some files in it, you do not by default have full

permission to the files in that directory. You need to right click on the directory and give yourself and all users Full Control:



This is particularly important if you are running a local Hydstra system on drive C:.

See Hydstra Truth #1 above.

HYMULTI and HYXPLORE under Windows 7 and Server 2008 and 64 bit.

Some users running under Windows 7 need to run different versions of Hydstra from time to time, and each of those versions may need to register a different version of HYDLL (if you have Excel or other language users who haven't yet updated their code to use HYDLLP instead).

We recommend that where possible you redevelop all your applications to use HYDLLP, and HYDDLLP.PM, which then removes the need for registration. No delivered 10.03 application requires HYDLL, they have all been migrated to use HYDLLP.

If you can run with just HYDLLP then can start HYXPLORE with

```
HYXPLORE /NOREGDLL
```

and it wont even attempt to register the DLL.

Hydstra 10.4 will reverse the defaults about DLL registration, and will automatically start with no DLL registered, and you will require a /REGDLL flag to even try to register the DLL.

Users running 64 bit Windows 7 may see HYXPLORE fail very early during startup because of registration problems with the DLL. We recommend that all 64 bit users start HYXPLORE with /NOREGDLL.

However you may have users that still need the old HYDLL registered, and under these circumstances your best bet is to run HYMULTI or HYXPLORE as Administrator (if you're allowed to). If necessary get IT to run Hydstra once as administrator, you can then run with /NOREGDLL after that knowing that the DLL has already been registered.

A few words about Administrator mode under Windows 7 are appropriate here. Just because you are registered on your PC as a Windows 7 Administrator, it doesn't mean that everything you run is run in Administrator mode. You normally run applications in User mode, and only when you specifically request Run

As Administrator does your permission become elevated.

There are several ways of running in Administrator mode:

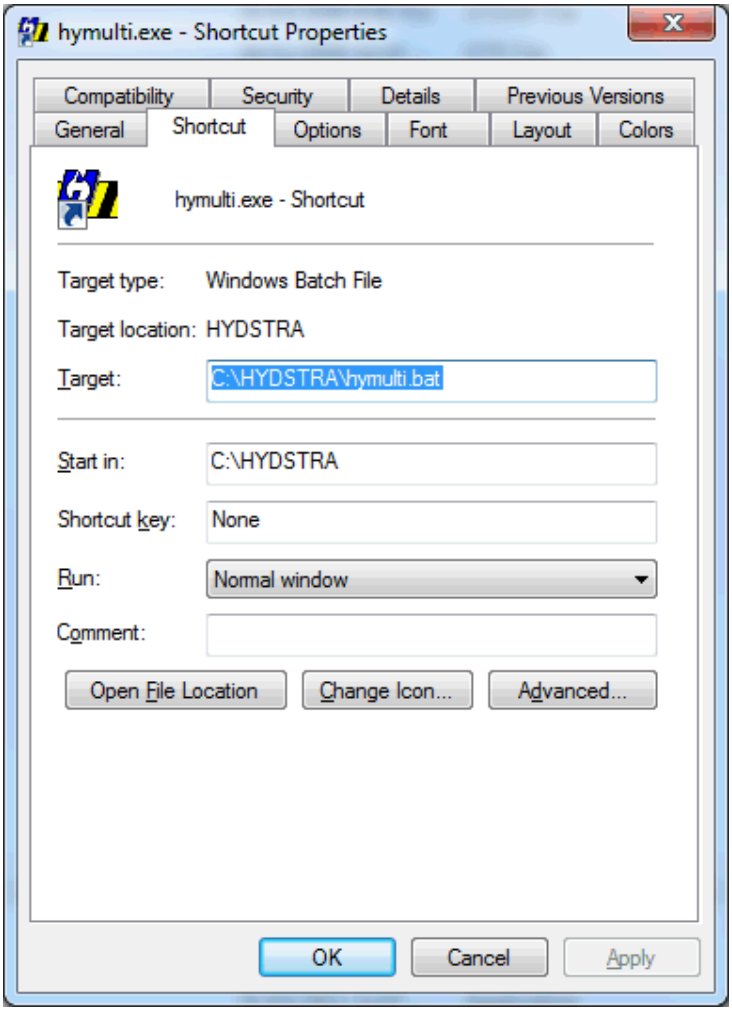
1. Right click on the shortcut and choose Run as Administrator. You need to remember to do this every time.
2. Right click on the shortcut, Select the Advanced button, and check the Run As Administrator box. The job will then always run in Administrator mode.
3. Certain programs are automatically run as administrator mode in Windows 7, based on the internal program description having strings like 'SETUP' or 'INSTALL' in them.

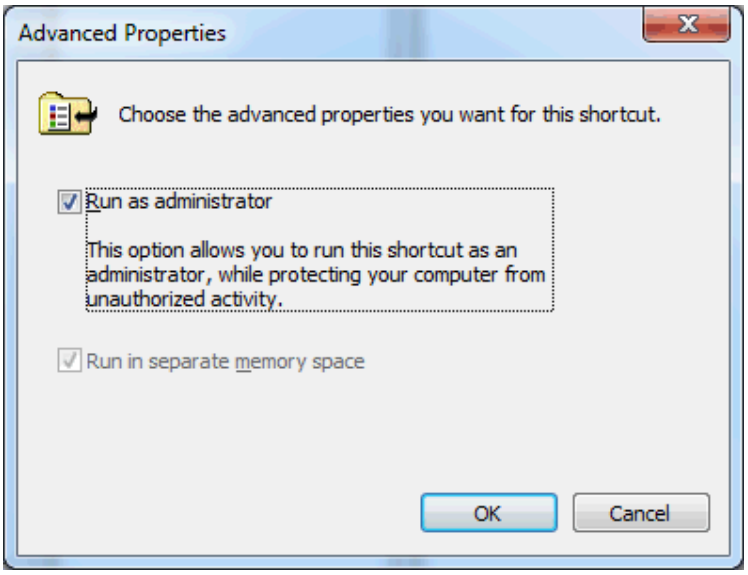
Whichever way the program starts you will need to enter the administrator password if you are not already an administrator.

A further problem of running in Administrator mode is that basically the Administrator runs as a different user, and may not have the drives mounted that you need to run Hydstra. For example your normal user startup may automatically attach drive H: as the Hydstra drive, but when you Run as Administrator, there is no drive H: visible.

The solution to this problem is to start HYXPLORE or HYMULTI from a tiny batch job that first mounts the appropriate resources. The following example HYMULTI.BAT should do the trick:

```
net use h: /d
net use h: \\server-hyd\Hydstra
start C:\HYDSTRA\hymulti.exe C:\HYDSTRA\hymulti.ini
```





Under no circumstances do we suggest you disable the User Account Control (UAC) protection that Windows 7 offers, you are much better off understanding how to work with UAC.

In summary

- Use HYDLLP if at all possible, and plan to phase out all usage of HYDLL.
- Start HYXPLORE with /NOREGDLL
- Run as Administrator only when you really need to
- Ensure the Administrator job first mounts whatever drives it needs
- See Rule #1 above.

Calling HYDLLP from C#, VBA etc

We have developed a better example of how to call HYDLLP from C#. Please contact us if you need examples on how to access HYDLLP from C#, VBA, Delphi or other languages.

We recommend that if you are developing new interfaces or redeveloping old ones you use the JSoncall series of calls in HYDLLP. We strongly encourage you to start thinking about phasing out usage of the older HYDLL technology which uses COM, as this will give you grief in Windows 7. As a bonus, HYDLLP performs very much better.

HYDLLP Enhancements on 10.03 02

We have added a number of enhancements to HYDLLP, particularly in the area of the JSonCall suite of calls, and they are available in the latest build rollup available on the FTP site:

A new *get_latest_values* call allows you to easily get the latest values from a series of time-series files. The parameters are something like

```
{
     'function' => 'get_latest_ts_values',
     'version' => 1,
     'params' => {
       'site_list' => 'hydsys01,hydsys02',
       'datasource' =>'A',
       'trace_list' => [
          {'varfrom'=>'100.00','varto'=>'100','lookback'=>'60'},
          {'varfrom'=>'10.00','varto'=>'10','now'=>'19910524050000'},
          {'varfrom'=>'100.00','varto'=>'100','anyqual'=>1},
          {'varfrom'=>'10.00','varto'=>'10','accum_period'=>'60'},
        ]
      }
    }
```

And the return looks something like

```
{  "buff_required" : 263,
   "buff_supplied" : 1000,
   "error_num" : 0,
   "return" : {
      "HYDSYS01" : [
         {q" : 151,
          "varfrom" : " 100.00",
          "v" : "0.0",
          "varto" : " 100.00",
          "trend" : "?",
          "t" : "20110513150431"},
         {q" : 151,
          "varfrom" : " 100.00",
          "v" : "0.0",
          "varto" : " 100.00",
          "trend" : "?",
          "t" : "20110513150431"}
      ]
   }
}
```

Note that you get the trend (+, - or ?). You also have control over how far back to look, and whether to exclude bad data and look back until you find good data.

There are new filtering options in the *get_db_info* call that provide spatial filtering, for example:

```
'geo_filter' => {
     'circle'=>['-34','148.75', 0.02],
     'rectangle'=>[['-33','148.7'],['-33.05','148.76']],
     'region'=>[['-34','148.75'],['-34.1','148.75'],['-33','148.76']],
}
```

There is also an additional complex filter system that allows you to filter tables in *get_db_info* on arbitrary complex expressions, with brackets, AND, OR, and NOT:

```
'complex_filter'=>
{
  'combine'=>'OR',
  'not'=>'NOT',
  'left'=>'(',
  'fieldname'=>'station',
  'operator'=>'NE',
  'value'=>'HYDSYS04',
  'right'=>')',
}
```

Because these new capabilities aren't in the 10.3 help file they are documented in HYDLLP.PDF in the same directory as the patches on the FTP site.

Backups Backups Backups

Despite our best endeavours to spread the word we still find some people are not doing their own backups of Hydstra. We have over the years encountered a number of situations where faulty equipment or software (routers, server farms, virus infections etc) have caused corruption inside Hydstra data files which remained undetected for quite some time. The most recent one we heard about involved a RAID server farm that was incorrectly configured, and which seemed to cause occasional file corruptions.

It is our recommended policy that regardless of what your IT group provides in the way of backups you should adopt a policy of making a DVD of your core Hydstra data at least once a month, and preferably once a week. You should label the DVD and keep it forever, Other HYCLONE backups to USB drives, local C: drives etc also serve a useful purpose in recovering from those occasional *'oops I shouldn't have done that*' moments, but permanent unchanging DVDs are your best protection against file loss or corruption that may remain undetected for a long time. They are also helpful in allocating blame when the witch hunt starts.

Fun with HYDBSQL

Want to know what users are registered in the Hydstra PASSWD table that haven't been active lately? The USERLOG table keeps the date and time of the last login for each user in PASSWD - once they log in. Let's start with a HYDBSQL script like this:

```
select p.user,p.firstname,p.lastname,u.logindate
from passwd as p,userlog as u
where p.user=u.user
and u.logindate<{03/01/2011}
order by u.logindate
```

The date should be in the form {MM/DD/YYYY}, which is the American date format. Choose a date some time back, say three months, and this script will report all the users who haven't logged in since then:

```
USER    | FIRSTNAME | LASTNAME | LOGINDATE  |
----    | --------- | -------- | ---------  |
USER2   |           |          | 2010/05/07 |
SLA     | Sanette   | Latsky   | 2010/07/08 |
AJR     | Alain     | Remont   | 2010/07/29 |
SHOLTOM | Sholto    | Maud     | 2010/08/09 |
DCS     | Damian    | Skinner  | 2010/08/13 |
DANGUS  | Denby     | Angus    | 2010/09/03 |
DJE     | Dylan     | Evans    | 2010/09/08 |
HY1639  |           |          | 2010/09/08 |
HY0608  |           |          | 2010/11/23 |
TGM     |           |          | 2010/12/02 |
```

The problem with this script is that it joins PASSWD to USERLOG. What about users who don't have an entry in USERLOG at all? Quite simply, they don't appear in the joined list. But the Foxpro SQL driver supports the more sophisticated LEFT OUTER JOIN construct whereby if there is no matching record in USERLOG you get nulls instead. This allows us to include the users who have never logged in:

```
select passwd.user,passwd.firstname,passwd.lastname,userlog.logindate
from passwd
left outer join userlog on passwd.user=userlog.user
where userlog.logindate<{03/01/2011}
```

to give

```
USER     | FIRSTNAME | LASTNAME | LOGINDATE  |
----     | --------- | -------- | ---------  |
AJR      | Alain     | Remont   | 2010/07/29 |
COCKBURN | Debbie    | Cockburn |            |
DANGUS   | Denby     | Angus    | 2010/09/03 |
DCS      | Damian    | Skinner  | 2010/08/13 |
DJE      | Dylan     | Evans    | 2010/09/08 |
HBTDAILY |           |          |            |
HSY      |           |          |            |
HY0608   |           |          | 2010/11/23 |
HY1609   |           |          |            |
HY1638   |           |          |            |
HY1639   |           |          | 2010/09/08 |
HY1755   |           |          |            |
PROMOTE  |           |          |            |
SHOLTOM  | Sholto    | Maud     | 2010/08/09 |
SLA      | Sanette   | Latsky   | 2010/07/08 |
SNTPTST1 |           |          |            |
SUPPORT  |           |          |            |
TGM      |           |          | 2010/12/02 |
USER2    |           |          | 2010/05/07 |
WEBUSER  |           |          |            |
WJS      |           |          |            |
XXX      | Unknown   | User     |            |
```

The SQL driver delivered with Foxpro is quite powerful once you get the hang of it. Unfortunately its error reporting is abysmal, and you tend to see errors like:

```
OLE exception from "Microsoft OLE DB Provider for ODBC Drivers":
ODBC driver does not support the requested properties.
```

whenever you do something wrong. There's nothing to do but look carefully over your statement looking for typos, or for the use of unsupported SQL.

The following links will be useful if you want to explore SQL over Foxpro further:

http://msdn.microsoft.com/en-us/library/aa978304(VS.71).aspx

http://fox.wikis.com/wc.dll?Wiki~SelectSQL

http://www.sql-tutorial.com/

Kisters does not offer SQL training or support - you're on your own I'm afraid.

Footnote - in the development of these scripts we found a problem in HYDBSQL dealing with null dates, and had to patch it. The patched version of HYDBSQL.HSC is on the FTP site and will be incorporated into the next rollup.

Training Courses

Using Perl with Hydstra

On 24-28 October 2011 we will be running an intensive five day training course on 'Using Perl with Hydstra' at our office in Canberra. The course will cover all aspects of integrating Perl into Hydstra, and will cost $3850 per person. It is aimed at Hydstra administrators who wish to raise their skill levels in working with Hydstra. The topic list will include:

- Hydstra Perl libraries
- CMD Scripting
- Perl batch jobs
- Perl preprocessors
- Perl postprocessors
- Perl datasources
- HYSCRIPT
- HYDLLP and JSonCall
- Dealing with databases in Perl
- Dealing with time series in Perl
- Perl and XML
- Perl and MODSYN
- HYXPLORE dynamic menus
- OLE Automation

The course material is available in the Hydstra Help file under 'Using Perl with Hydstra', though it will be updated before the next course.

The prerequisites for attending this course are:

- Experience in programming another language, such as VBA, Fortran or C. We cannot teach you to become a programmer in a week, and if you have not programmed already this course will be beyond you.
- Completion of the four-day Programming Perl course run by Perl Training Australia. Perl Training Australia can be found by Googling, and they regularly run basic Perl courses in Sydney, Melbourne and Canberra.
- Familiarity with Hydstra at the advanced user or system administrator level.

What we hope to teach you is how Perl can be hooked into Hydstra to extend its power and reach. What we will ***not*** be teaching in this course, except incidentally, is how to use Hydstra, how to program, or how to program in Perl.

Please contact support@kisters.com.au to secure a place on this course.

Basic Hydstra Training

On 15-16 November 2011 we will be running a 2 day training course on 'Basic Hydstra Training' at our office in Canberra. The course will cost $1500 per person including GST. It is aimed at new Hydstra users.

The course content is available in the Hydstra Help file under 'Learning Hydstra – Hydstra Training Course Outline – Basic Hydstra'.

There are no prerequisites for attending this course.

Please contact debbie.cockburn@kisters.com.au to secure a place on this course.

Information

KISTERS Australia News

August 2011

This newsletter is published by Kisters Pty Ltd and edited by Peter Heweston

Homepage: http://www.kisters.com.au

All support and accounts questions should be directed to support@hydstra.com.

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