

KISTERS Australia News

March 2017

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From The GM's Desk

By Bill Steen, General Manager, KISTERS Pty Ltd

Welcome to the first newsletter for 2017. 2017 marks another major milestone in KISTERS history as we celebrate 30 years in the water industry providing software solutions and services to a global client base.

From the HYDSYS [HYDSTRA] perspective, the actual development commenced in 1985, however the company wasn't incorporated as HYDSYS Pty Ltd until 1987. I was fortunate that I worked for the department that contracted Peter Heweston to commence the development of a time series manager to meet the department's needs.

A similar development path occurred in parallel for the WISKI product. WISKI also commenced its development in 1987 for the Federal Institution of Hydrology and the Water and Navigation Administration in Germany. The Federal Institution of Hydrology also had a need for a hydrological information system with database-based time series management.

Over the last 30 years KISTERS solutions expanded into a product portfolio that no other service provider can offer. KISTERS leads the way with fully integrated solutions such as Time Series, Groundwater, Water Quality, Biological, Web Portal, Big Data, and the list goes on. More recently KISTERS has expanded its portfolio providing software support for the German Aerospace Centre. The Aerospace Centre is responsible for the development of a production process of fuel tanks on the base of carbon fibre for Ariane 6 rocket. KISTERS big data solution [KiBiD] was chosen to assist the Aerospace Centre in monitoring and analysing every aspect of the production of the fuel tanks.

When you combine KISTERS subsidiary products from HyQuest Solutions with KISTERS Portal technology you have a complete solution from field sensors through to the web.

KISTERS wishes to thank you for your continued support. As I always say, KISTERS solutions are the sum of your requirements, as you drive the development into the future.

Bill Steen
General Manager
KISTERS Pty Ltd



KISTERS User Group Meetings

KISTERS Australia User Conference 2017 in Canberra

The Australian KISTERS User Group meeting will be held this year in Canberra on September 13 and 14, at the Hellenic Club in Canberra City where we have held it before. The address is 13 Moore St, Canberra ACT 2601. We will post more details closer to the event.

The theme of this year's conference will be 'Hitting The Target'. Every agency puts together their monitoring program in response to a mix of requirements from government and other interested parties. How do you put the targets together, and how do you measure against them? We would be keen to receive presentations on network management, contract management and reporting, limit setting, data auditing, data validation and correction, etc. Please contact Damian Skinner on 02 6154 5211 or Peter Heweston on 02 6154 5218 to discuss your ideas for a presentation.

KISTERS North America User Conference 2017 in Sacramento

The KISTERS North America User Group meeting will be held in Sacramento on August 28 and 29 at the Embassy Suites, Sacramento Riverfront. Please download your copy of the [Invitation](#) and [Registration Form](#). Contact Becca Fong for more details (Becca.Fong@kisters.net).

WISKI User Conference 2017 in Bonn, Germany

The international WISKI User Conference will be held in Bonn this year on 27 and 28 June. The conference will be held at the "Wissenschaftszentrum" (Science Centre) in Bonn, Ahrstraße 45, D-53175 Bonn. www.kisters.eu/wuc2017

In 2017 the event will have an international focus. Presentations and workshops will be translated simultaneously from German to English and vice versa.

Keynote Address

Copernicus - the European program for the establishment of a European capacity of earth observation - offers a series of distinct services and applications based on the combination of earth observation satellite information and in-situ data. Data products and services are generated and provided continuously in order to support the focal points of climate change, environmental protection, agriculture, management of urban areas and management of emergencies.

Godela Roßner (Lead EO Applications Group of the German Aerospace Center) will give us an up-to-date overview on data products and services with relevance to the monitoring of water quantities and qualities.

Do you work on an interesting project or a new application in the area of "earth observation and in-situ measurements"? We would be pleased if you presented your project at the user conference. For details, please get in contact with Michael Natschke (Michael.Natschke@Kisters.de, +49 2408 9385 158).

Discover the modern, vivid and cosmopolitan city of Bonn on the river Rhine: a history of more than two thousand years, place of birth of Ludwig van Beethoven and a former German federal capital and seat of government.

More information about the WISKI User Conference will be published soon on our homepage www.kisters.eu/wuc2017.

KISTERS Experience in Vietnam

By Chris Michl

At the end of 2016 KISTERS delivered successfully a World Bank project in Vietnam. The consulting work and the installation of a WISKI time series and water quality system was done together with a local partner HarmonySoft. The company HarmonySoft belongs to the Harmony Group in Vietnam whose core business is to develop application software for construction, planning and the environment. With the expertise of local knowledge of the environment, governmental requirements and pollution management practises in Vietnam and KISTERS' strong data management expertise linking telemetry, time series analysis and sample data processing, the joint venture of the two companies built a strong alliance to deliver the project.

The project was integrated in a larger initiative from the government of Vietnam and the World Bank to:

- strengthen the institutional and regulatory environment;
- improve monitoring and enforcement;
- improve central environmental treatment plants (CETP) construction and operation for proper waste water treatment; and
- promote information disclosure and public participation in the project provinces of Nam Dinh, Ha Nam, Dong Nai, and Ba Ria-Vung Tau.



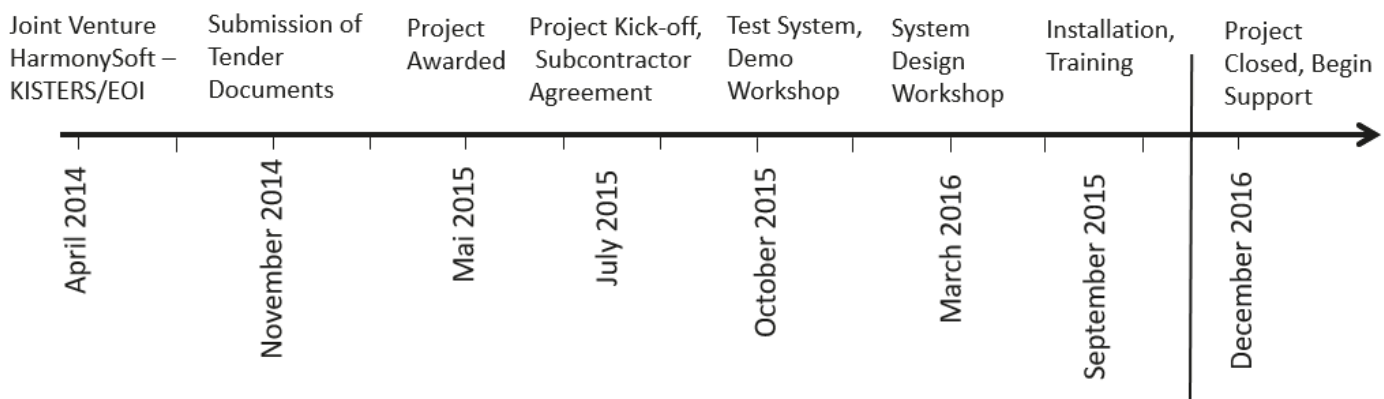
There was one week-end for pleasure – PM team went to Ha Long Bay

Within this objective the key mission of the project part done by HarmonySoft and KISTERS was to develop an information system for integrated management of industrial pollution in the two river basins of Nhue-Day and Dong Nai which are part of the four provinces.

In the project the partners had to demonstrate that the implemented system would enable VEA-MONRE (Vietnam Environmental Administration within the Ministry of Environment and Natural Resources) and the regional provinces (DONREs) to:

- receive monitoring data directly from data loggers of automatic monitoring stations (AMS);
- allow manual inputs of monitoring results from routine inspection and enforcement monitoring activities; and
- provide proper analysis and summary of monitoring data, so that reliable and accurate monitoring results would be provided for information disclosure.

To fulfil the preceeding, KISTERS and HarmonySoft started a journey from April 2014 onwards (see time line below) to get the project awarded and finally delivered end of 2016.



Project time line (the journey): Starting with the JV of HarmonySoft and KISTERS, then the EOI, the tender, several workshops and reports until the delivery of the project in December 2016



Impressions of the system design workshop: left (project banner), top (Chris talking Vietnamese, translators are helping), bottom middle (PM team – Vicky, Chris and Cường), bottom right (Director Center for Environmental Monitoring – Mr. Thùy, President of HarmonySoft– Mr. Tùng)

As the project involved several local stakeholder of the central government, the provinces and the industrial zones, the local presence and knowledge of policies in Vietnam was a very important part. Additionally, it would have not been possible to develop such a system from scratch without KISTERS' long term experience in surface water management.

This joined effort guaranteed to manage the requested project tasks to:

- analyse current practices in water quality monitoring including legal requirements and to compare to best practices in Australia;
- assess existing monitoring strategies (periodic and automatic/continuous surface water monitoring programs);
- analyse current regulations and the collection methods in the provinces and industrial zones;
- improve data distribution and the link to surface water monitoring across all stakeholders;
- analyse the IT Infrastructure, data transfer practices and water quality management systems which are used at the moment;
- analyse existing IT infrastructure, internet connections and software applications; and

- improve frequency and quality of water quality data reporting on local and national level.

The tasks above were evaluated with the stakeholders and resulted in a system design including the KISTERS software solutions HydroTel, WISKI, KiWQM and KISTERS Web. The designed and delivered solution included:

- a central system operated by VEA/MONRE (with potential to integrate existing time series data and water quality samples, enhanced analysis and reporting);
- regional telemetry system (HydroTel) to connect to the project AMS (including additional driver development) and with potential to integrate existing AMS stations;
- offline field data entry using FieldVisit as web application and customised forms in Vietnamese;
- expert users from provinces (DONREs) with data access to central system (recently over WISKI client directly as application servers are not implemented); and
- access from DONREs and the public over KISTERS' web portal technology.

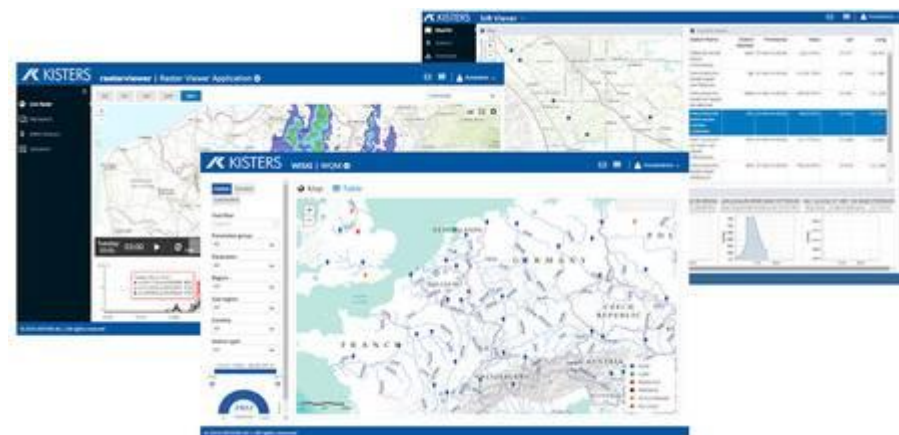


What a learning experience – food, drinks and meetings: top left (Jared from HyQuest, Chris and Cường from HarmonySoft-corporate shirt design), top right (staff from VEA and DONREs-introducing us to local food), bottom left (Vicky and Chris celebrating a successful project), bottom right (Klaus and Chris with the management from HarmonySoft-a promising JV)

The project helped to establish a local presence in Vietnam and KISTERS is very thankful for the partnership which was established with HarmonySoft.

KISTERS Water-Portal – Fast, Easy Web Applications

KISTERS is developing the next generation of water data management: easy to use web applications that are designed for end users who use WISKI or Hydstra . These apps are deployed through the Water Portal Framework which provides secure data access and operation according to the proven user roles and permission principles.



Information & individual dashboards straight to the point of the end users

Fewer clicks, intuitive language and reduced information density on the screen are among the core aspects that we considered in the design of the water viewer apps (for hydrology, meteorology, water quality, amongst others).

Interactive maps with geo-location

Optional real time data filters enable stakeholders to find their data of interest within a couple of seconds. The user can access current data - whether in a raw state or validated - in station detail apps launched from the map.

In order to save navigation time, each user can create their own dashboards, e.g. with maps and map extends, simple and advanced time series charts and graphics, derived data products, and statistical results.

Interactive workflows and routines designed for the browser

The KISTERS Water Portal offers a secure framework for accessing daily routines in the browser, e.g. validating hourly data consistency, determining the percentage of missing data, identifying time series with long gaps, or checking the consistency of the last time series value.

We expect over the next few years to offer more and more KISTERS functionality via web applications from both WISKI and Hydstra. Watch this space!

Hydstra Product News

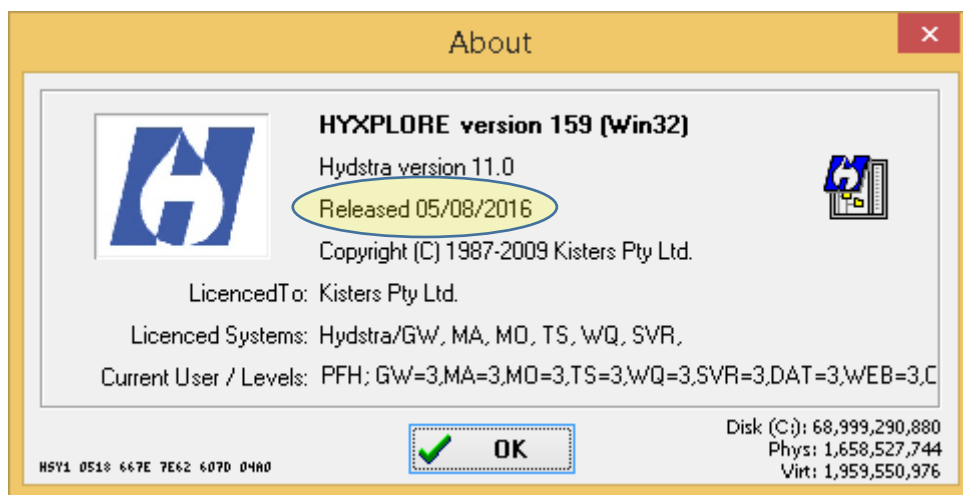
Hydstra V11 Release

Hydstra Version 11 is the current supported stable version of Hydstra, and is available for download from <http://kisters.com.au/downloads.html> . You will need to contact us at support@kisters.com.au for a V11 HYACCESS.INI before you upgrade to it.

A new patch is released every Friday, subject to release procedures completing successfully. An increasing amount of new development is now patched back to the current release, and is explicitly marked in the Change Log as having been patched.

As we slightly relax the rules about what we can and cannot patch, it has become increasingly important that you run HYPATCHUP after installing a new patch. HYPATCHUP is configured to do whatever is necessary, but it may include restructuring and reindexing databases, and without running HYPATCHUP your system may be broken in some areas.

You can find out the date of your current patch by running Help/About from HYXPLORE:



The Released date is the date the system was compiled, prior to being tested and packaged up into a patch.

HYXPLORE will check if you have run HYPATCHUP and nag you about it if you haven't.

We recommend that you patch your system at least once every few months, as many new features are being continuously released through patches now.

Hydstra V12 Proposed Release

We have been working on the development of the next release of Hydstra for quite some time. The new version will be compiled with a more recent compiler which brings significant performance improvements, particularly for SQL Server users, as well as a myriad of program enhancements that could not be patched due to changes in database structure or module interfaces.

Hydstra V12 has extended the width of a SITE id to 20 characters, up from 15. The increased width will allow California users to use a map grid reference as a site ID for groundwater sites.

We plan to release Hydstra V12 before the US User Group meeting in late August. At that stage Hydstra V10 will become unsupported. One of the findings we have already observed from responses to the Hydstra User Survey is that a few of you are still running Hydstra V10. Hydstra 10.04 was released in August 2012, some four years ago, and 10.3 was released in September 2010, some six years ago.

We strongly encourage you to plan an upgrade to V11 or V12 in the next 12 months or you risk being left behind. Note that V10 users will need to do an interim upgrade to V11 anyway before upgrading in turn to V12. You can't jump two versions in one upgrade.

C0000006 Exception in Hydstra Programs

Occasionally users encounter C0000006 exceptions in Hydstra Delphi programs (and other software too) running over a network share. This often happens when the program going back to RUNPATH to load more of the program, and RUNPATH is temporarily unavailable. The problem is usually caused by file system or network problems and is beyond our ability to prevent or recover from. If you suffer from this problem please contact your IT group for support.

In one instance a huge DBFLOG table was causing a file system timeout during program startup, and trimming DBFLOG solved the problem.

In another instance the file server was running 100% CPU and unable to service file requests in a timely manner.

Note to IT personnel: another cause is when network shares are set up using "group policy update". In this case the solution is to use "update" rather than "replace" for the policy for the network share. See

<http://www.stonefieldsoftware.com/helpdesk/knowledgebase.php?article=36>

In Hydstra V12 we are compiling all Delphi programs with a flag that forces the EXE to be completely loaded at startup time, which might slow startup but which could reduce the frequency of such errors.

One thing worth noting is that most software products install themselves on a local hard drive rather than a network drive, which means that Hydstra is somewhat more prone to network problems.

If you suspect network problems we have cooked up a little batch job that you can leave running in a command box to see if it shows anything. In the following batch job edit the highlighted path to be a path (with trailing slash) on a network drive that you want to test for, and in red the name of a local log file.

```
@echo off

@REM define network folder to check
@REM please include trailing slash!!!
set testdir=M:\temp\ajr\temp\

:top
@REM a short delay
timeout /t 1 > nul

@REM display message without scrolling console
echo %time% %date% Checking network connection to %testdir%

@REM check the existence of the folder, skip to top if all good
if exist %testdir%NUL goto top

@REM display a message, we get here if the folder does not exist
echo %time% %date% Unexpected missing folder: %testdir% >> testdir.txt

goto top
```

Don't Run Hydstra on a NAS or SAN

Further to the discussion above about C0000006 exceptions, we are forming the view that Network Attached Storage (NAS) and Storage Area Network (SAN) appliances are not recommended as the primary Hydstra storage medium. Over the years we have encountered many cases where Hydstra became unstable running over a NAS or SAN and in all cases the problem went away when the Hydstra files were moved to a standard Windows Server. Hydstra does a lot of record and file locking, particularly when running over Foxpro, and we believe that SAN and NAS devices don't always correctly implement the locking protocols under heavy load. This can lead to C0000006 exceptions, or Foxpro database table corruptions. In one case we proved with debug that a process which wrote something to a file got something different (and older) back on read.

Improving Hydstra Performance

In terms of improving Hydstra performance the best thing you can do is run it on a local disk, and even better if the disk is an SSD. Next best is run across a fast (1GB) local area network. Users who have implemented Hydstra in the cloud, such as Amazon and other similar providers usually see blindingly fast performance with no problems. This is probably because cloud providers usually have very fast reliable network links between servers.

We do not recommend running Hydstra across a network that spans buildings or offices unless you have very high speed links - usually performance is not adequate, and Citrix or Terminal Services are a better solution for geographically distributed offices.

If you are running SVRRUN with a heavy workload, ensure you point the TEMPPATH folders to a local hard drive on the same server as SVRRUN is running, and for extra throughput, replace the TEMPPATH drive with an SSD - you will notice a significant improvement in throughput for a very small cost (that is if you have control over your own servers, which becomes difficult in these days of IT outsourcing).

HYXPLORE has an option under Options/Test network performance which tests your network speeds, and if you see slow performance there, it is out of our hands: you have a network problem. As a guide you should see many hundreds

of Mbytes/sec to a local drive, a well configured server, or a cloud system, and 3-10 Mbytes/sec for a system running on a decent local area network. Anything less than 3Mbytes/sec is marginal, and less than 1Mbytes/sec is hopeless.

Preventing Invalid Sites, Subvars and Quality Codes in Time Series Files

In a well-run Hydstra system you should never write time-series files for an unregistered SITE, SUBVARIABLE or QUALITY code. There are a number of HYCONFIG variables which control this behaviour, and by default the system is fairly loose. To tighten up the controls amend your settings as follows:

```
ABRTNOSITE = ABORTWORK, ABORTARCHIVE
ABRTNOSUBV = ABORTWORK, ABORTARCHIVE
ABRTNOQUAL = ABORTARCHIVE, WARNWORK
```

However be careful, as your whole system may grind to a halt fairly quickly! We would encourage you to move towards this state carefully and perhaps in a test system first.

You should also run HYGIENE across your archive to ensure that no existing data suffers from such invalid codes.

HYGIENE.SUMREP – Summarise HYGIENE Output by Site List

HYGIENE reports many different types of error in your Hydstra system. Some of those errors are site related, and HYGIENE.SUMREP extracts those errors and summarises them by site list. A system administrator could run HYGIENE.SUMREP and report the results by region, or hydrographer or office, and forward the results to the relevant group for attention. The system administrator can even report on sites not in any site list, for example stray TS files not in SITE.

You will need a V11 patch after March 10 which will include a modified HYGIENE as well as HYGIENE.SUMREP.

Kisters Pty Ltd.

HYGIENE.SUMREP.HSC V1
Run on 2017/03/07 13:23:56

HYGIENE.SUMREP - Check System Hygiene

Excluding Site List=HYDSYS01

Test	Result
Test 03 - Ratings Integrity	Fail
Test 04 - Stale Work Files	Fail
Test 05 - Too Many Work Files	Fail
Test 16 - Undefined Subvars	Fail
Test 19 - Sites Registered	Fail
Test 25 - Site Parent Check	Fail
Test 27 - Sections Integrity	Fail

HYSITREP in HTML and PDF

We have embarked on a project to look at producing some Hydstra reports in HTML and PDF, which look much better when placed on a web site or presented to users.

The first program we have tackled is HYSITREP, which by default produces a rather uninspiring text report:

HYSITREP - Site Summary Report
HYDSYS01 - Hydstra Test Station - Composite data

SITE DESCRIPTION

Site: HYDSYS01 Hydstra Test Station
Site Name: Hydstra Test Station - Composite data
Commence: 14/03/1929
Cease:
Map: 8727
Local Map Reference: 103871
Grid Ref: Zone: 55 Easting: 710309.7 Northing: 6087256
Grid Datum: MGA94 Map Grid of Australia 1994
Latitude: -35.33527778 35°20'07.0"S
Longitude: 149.31388889 149°18'50.0"E
Lat/Long Datum: GDA94 Geodetic Datum of Australia 1994
Elevation: 682
Comment:

STATION DESCRIPTION

Zero Gauge: 682.26
Datum: AHD Australian Height Datum
Control: Conc. weir, s/steel edge, rect. low flow
CTF Level: 0.017
Max Gauged Stage: 10.15
Max Gauge Date: 22/06/1994
Records at this site may be affected by upstream dams or backwater effects.
Min Peak Discharge: 30
Time between Peaks: 15840 Mins
Bed Slope: 0.01

STATION HISTORY

14/03/1929 00:00 REMARK Federal Capital Commission commenced records with a Bristol recorder of Range 0-5ft. Poor records were produced and daily records were processed rather than the charts.

...etc

We have enhanced HYSITREP so it leaves a 'secret' JSON file behind in JUNKPATH called HYSITREP.JSON. We have also developed a Perl post-processor *listdev.hysitrep.postpro.pl* that turns the JSON into a much more presentable HTML report:

HYSITREP - Site Summary Report
HYDSYS01 - Hydstra Test Station - Composite data

SITE DESCRIPTION

Site: HYDSYS01 Hydstra Test Station
Site Name: Hydstra Test Station - Composite data
Commence: 03/14/1929
Cease:
Map: 8727
Local Map: 103871
Reference:
Grid Ref: Zone: 55 Easting: 710300.4 Northing: 6087318.1
Grid Datum: MGA94 Map Grid of Australia 1994
Latitude: -35.33527781 35°20'07.0"S
Longitude: 149.31388892 149°18'50.0"E
Lat/Long Datum: GDA94 Geodetic Datum of Australia 1994
Elevation: 682
Comment: Here is a comment that is quite long, designed to test wordwrap. The quick brown fox jumped over the lazy dog. The quick brown fox jumped over another lazy dog.

Here is another comment that is quite long, designed to test line breaks

STATION DESCRIPTION

Zero Gauge: 682.26
Datum: AHD Australian Height Datum
Control: Conc. weir, s/steel edge, rect. low flow
CTF Level: 0.017
Max Gauged Stage: 2.95
Max Gauge Date: 08/29/1974
Records at this site may be affected by upstream dams or backwater effects.
Min Peak Discharge: 30
Time between Peaks: 15840 Mins
Bed Slope: 0.05
Catchment Area: 505.000

In V11 you will have to run the post-processor manually to produce the .HTM or .PDF version:

List Output Device

☒ S - Screen
☐ SCREEN - Screen
☐ P - Printer
☐ X - Open in Excel
☐ HS - Add header/footer and show
☐ HP - Add header/footer and print
☐ PDF - Convert to TEXT PDF and Displ
☐ FT - Save TXT under PTMP
☐ FTS - Display & Save TXT under PTM
☐ FH - Save HTM under PTMP
☐ FHS - Display & Save HTM under PTM

☐ File

File name: ☐ Append

Perl filter: ?

Extra params:

Output action:

Expression:

In V12 you will simply ask for HTM or PDF output to see it in HYXPLORE or specify a file name ending in .HTM or .PDF to send it to a file:

HYSITREP - Site Summary Report

Program Options Help

Site List: ?

Start Date: (Start = End for

End Date: Period of record)

Output Listing:

HYSITREP complete

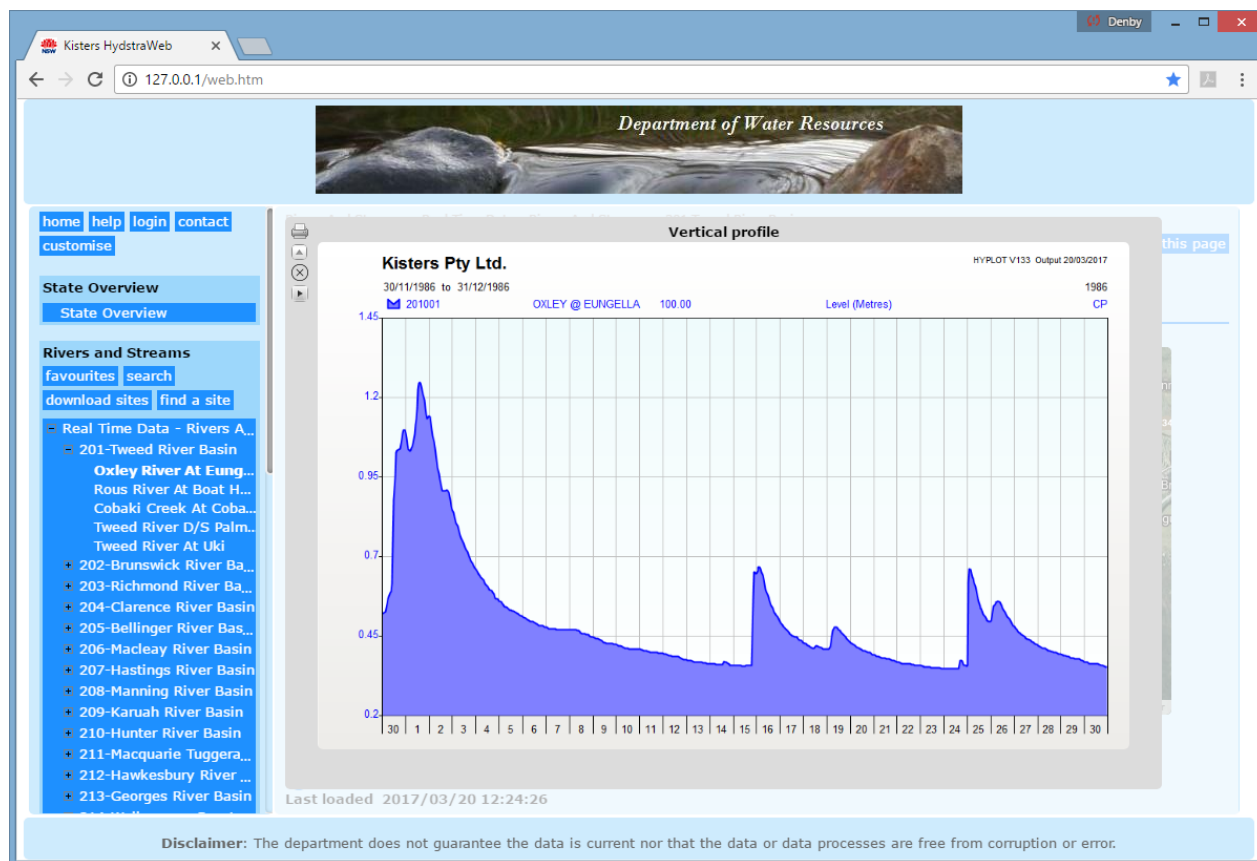
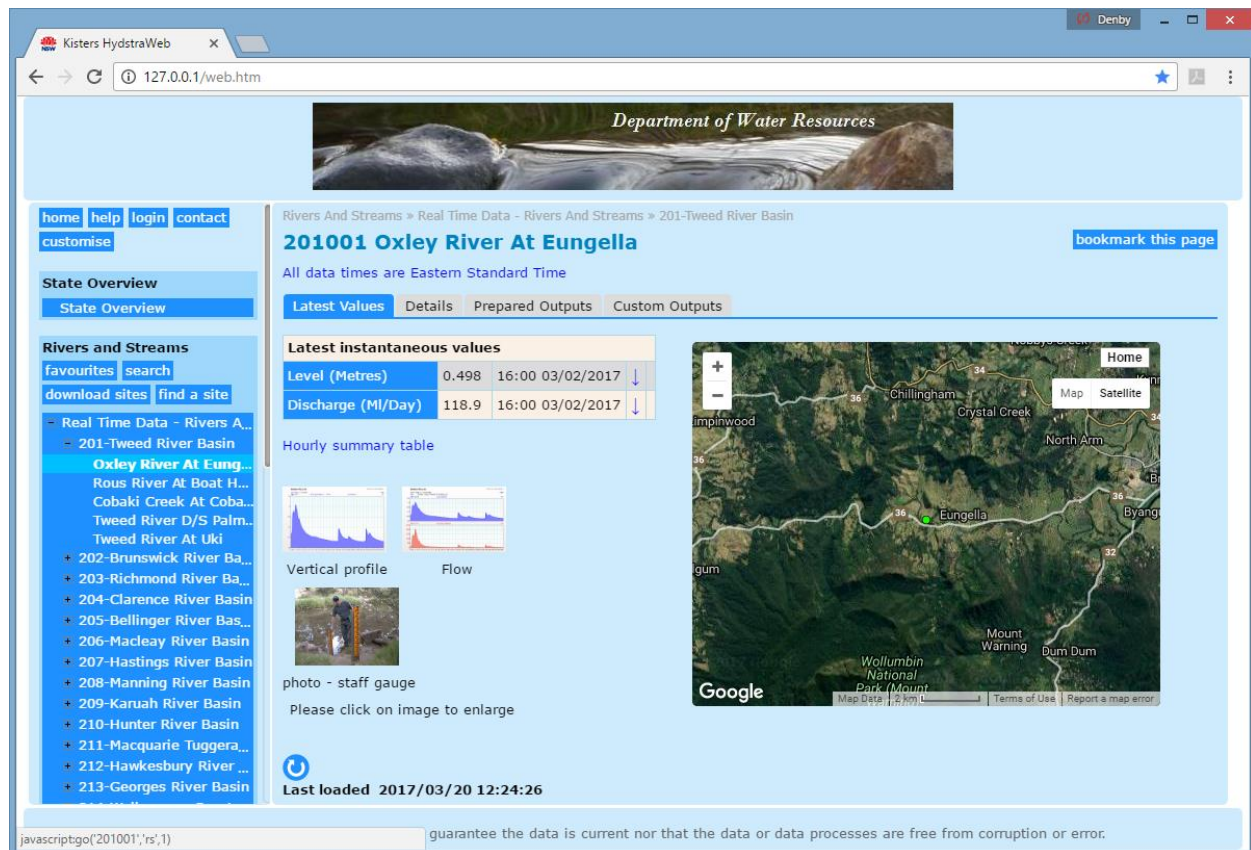
Once we have bedded down the mechanisms we propose to gradually redevelop many of the major Hydstra reports to produce HTM in this way as part of V12. Stay tuned, and please contact us if you have suggestions as to the order in which we should do this work. HYDAY will probably be next cab off the rank.

The new HYSITREP and the postprocessor are available in V11 patches after 24/03/2017.

V12 Hydstra Web Portal Change to Flat Design

In Hydstra version 12, the Hydstra Web Portal is changing its appearance. We are implementing a flat design look and feel which is epitomised by borderless elements, plain colours and more intuitive navigation. These changes are so significant that we cannot patch them back to v11 and they will be mandatory in V12. However you will always be able to alter fonts and background and text colours via the new WINIPATH style sheet file **webhyd.ini.css**.

Here are some example screenshots to give you a taste of the changes. We are looking for feedback since these changes can be modified now (and to some degree after the release of v12). We will be launching a demonstration web portal for public evaluation soon. The colours are definitely up for negotiation!



WISKI Product News

Release Management and Client Base

The KISTERS team is presently in consultation with all WISKI and KiWQM customers in Australia and NZ to update their systems to the 7.4.5 SR8 or SR9 versions. Both versions have been tested by KISTERS over the last year. Development work for clients in Australia and NZ is happening for SR10 and SR11 which will be available later this year as WISKI Vintage.

Additionally KISTERS is migrating many former Ecobase customers in NZ to KiECO. The main future developments for KiECO are happening in version 7.4.7. Later this year, KISTERS will discuss the best update pathway with customers using KiECO in combination with WISKI.

Support Email, Help Desk and Bugzilla

Contacts for the WISKI team at KISTERS in Australia:

- Vicky, Chris, Markus and Callum (web developments) for specialised support for the KISTERS products WISKI, KiWQM, KiECO, KiDSM, KiALM, WISKI Web and KiWIS.
- Phone number for support is +61 2 6154-5200, and the email address is wiski-support@kisters.com.au.

If you are engaging in a particular dialog with Chris, Vicky, Markus or Callum please cc the support box so a central register of issues can be maintained.

Access download portal:

- Download portal can be found under <http://kisters.com.au/downloadswiski.html> , or can be accessed by navigating through to the support page from <http://kisters.com.au> .
- To acquire a username and password to access the download portal please contact the KISTERS support team over the phone at (02) 6154 5200 or email at Wiski-Support@kisters.com.au.

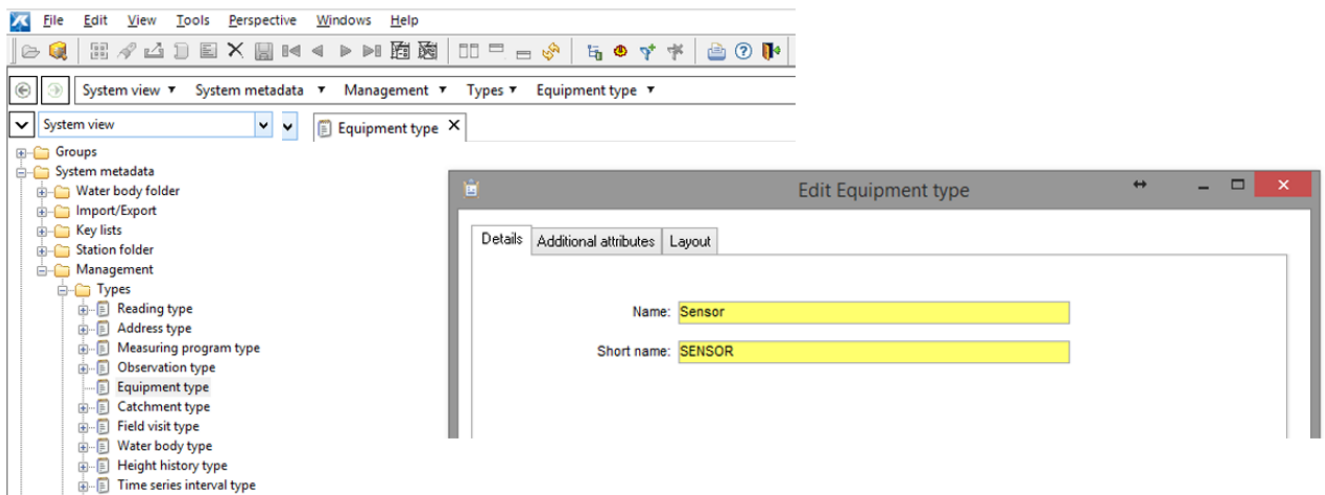
Equipment Management in WISKI

In WISKI 7.4.5 KISTERS introduced several enhancements to the equipment model. Traditionally the KISTERS equipment model was part of the flow measurement management in BIBER. Based on the Hydstra instrument system many tables and function were added to WISKI. The core development was done for the German customer of the Bavarian Federal State Authority for the Environment and is integrated in WISKI 7.4.5.

The equipment management is set-up as follows:

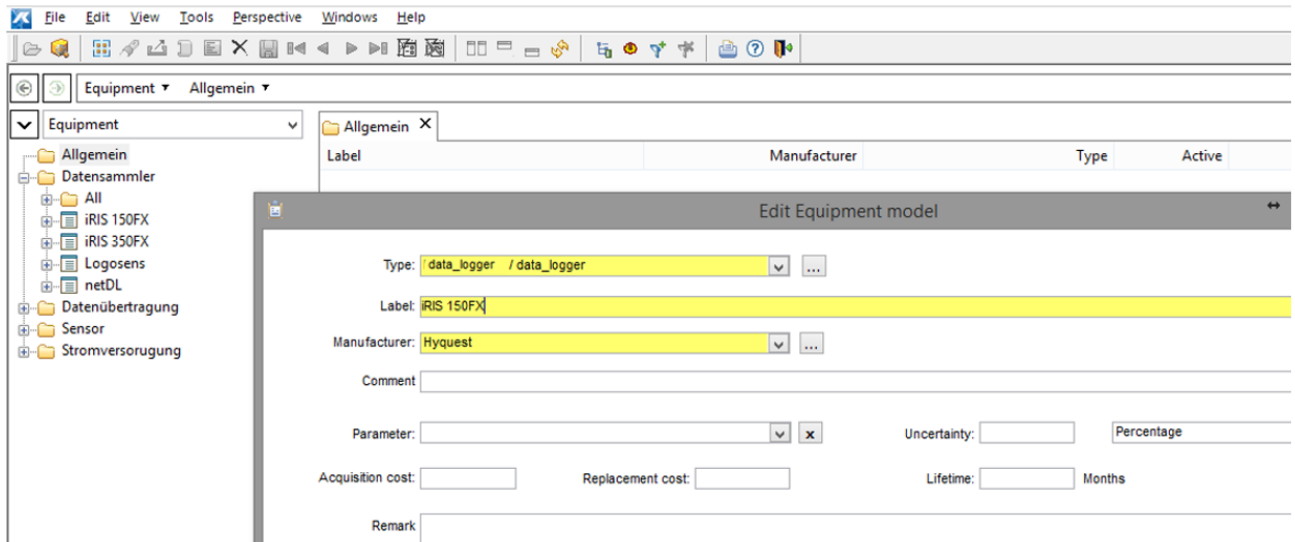
Management of equipment types

In the management section of the system view the type “Equipment type” can be set-up (see below). Here the specific types like a data logger or a sensor are defined. For each type specific additional attributes can be defined and layouts configured.



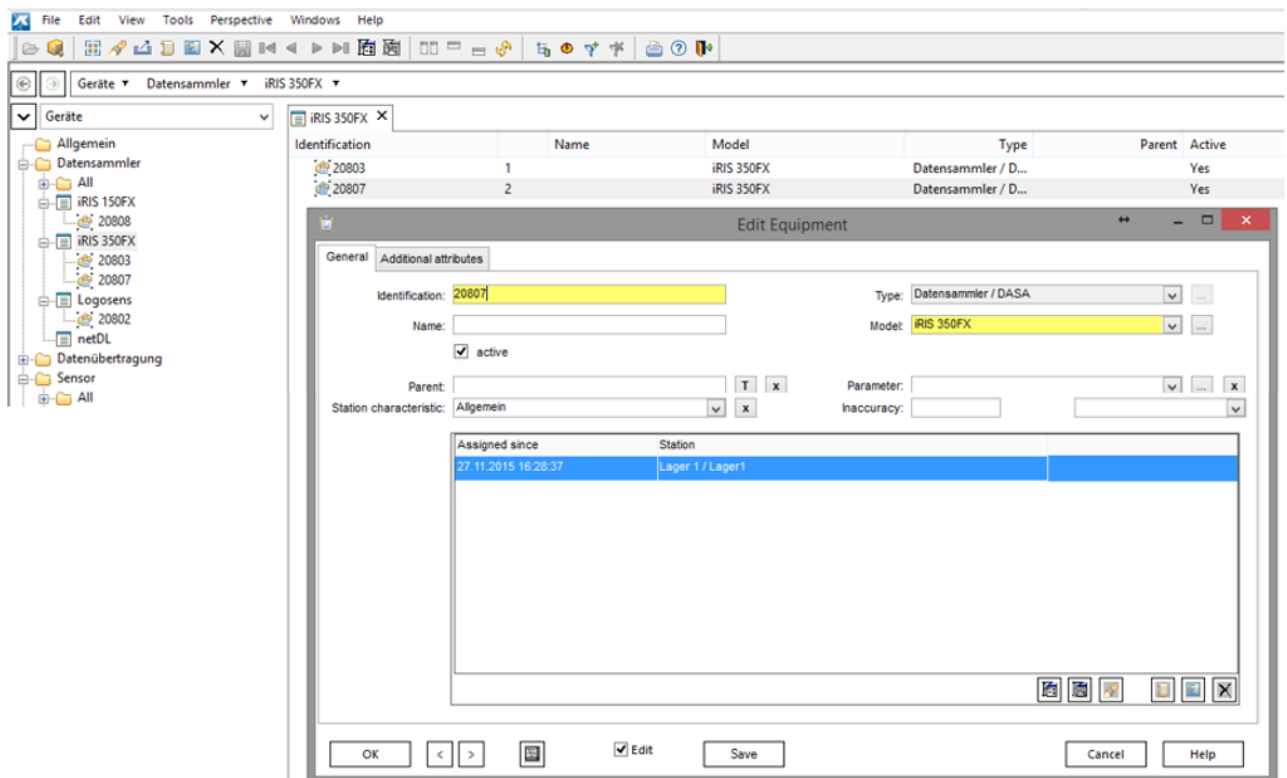
Management of equipment

For each equipment type like a data logger several different models can be created, maintained and managed. Each model comes with mandatory attributes like a manufacturer or a label and has several other customised attributes like the measured parameter, information about uncertainty, costs for acquisition and replacement or a lifetime (see example).



Handling different equipment models

For each specified equipment model like a data logger “iRIS150FX” several loggers can be existing. They are differentiated by identification and are linked to the type and model. The specific logger can be added to specific station characteristics or parameters. Each equipment like the logger can also be assigned to a station and grouped by a parent (see example below).



Additionally, an equipment wizard integrated into the station metadata management allows the user to stock stations, supports the creation of new equipment directly under the station node and supports the assignment from stock to a station or from station to station.

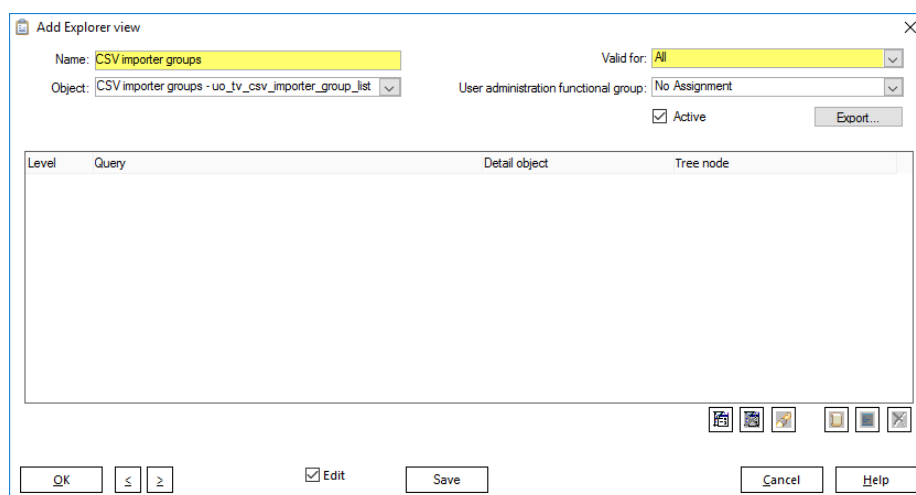
WISKI Import Dashboards and Import Groups

New in 7.4.5 SR4 was the introduction of an IO dashboard to help provide an overview of metadata importing, both automatic and manual. It applies to metadata importing within all WISKI modules. To add this explorer view go to:

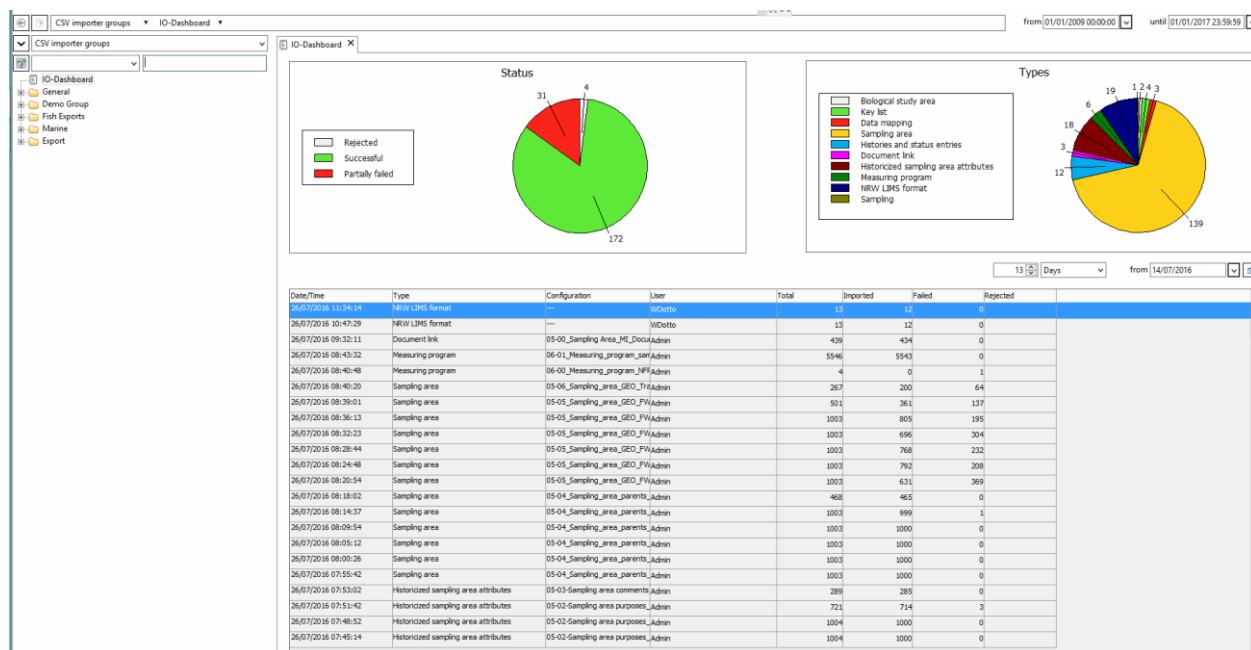
System view > System metadata > Explorer navigation > Explorer view

Right click in the details area, select Add and select

Object: CSV importer groups - uo_tv_csv_importer_group_list



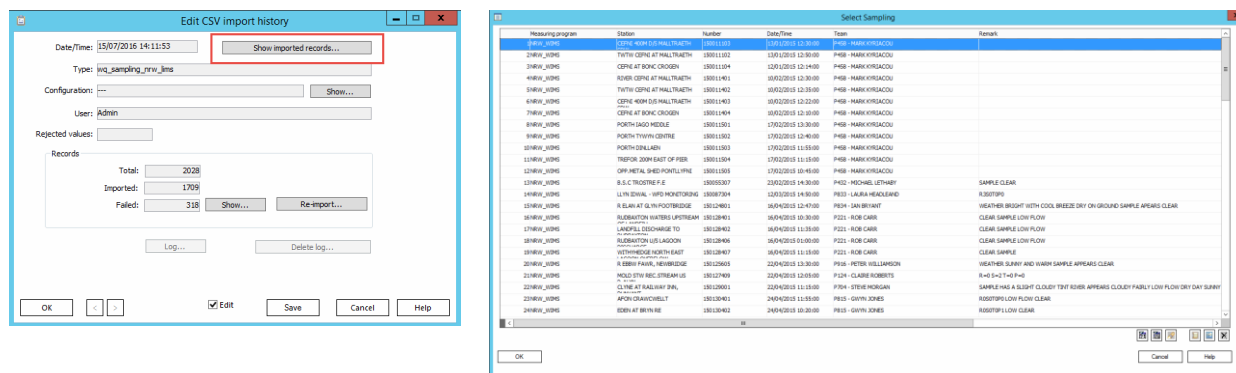
Change the name, assign a perspective and a user administration functional group if required. Click on OK and your new explorer view will appear as shown below.



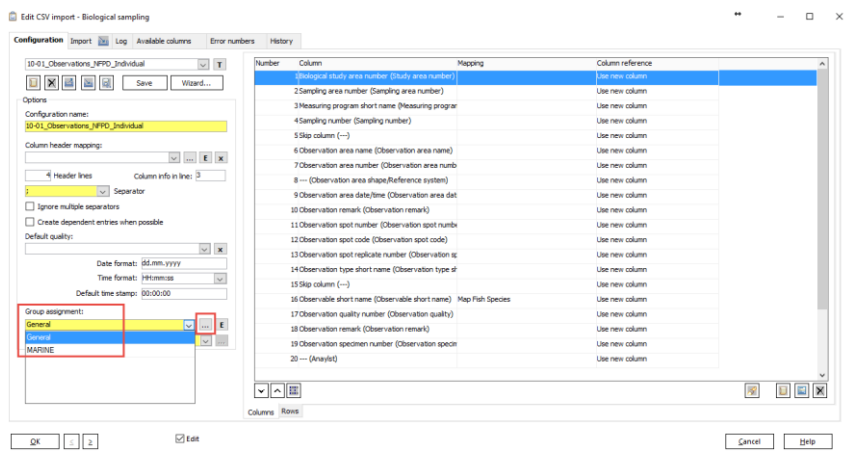
The initial IO dashboard view provides two pie charts. The one on the left shows imports by import status i.e. Successful, Partially failed or Rejected. The one on the right shows imports by importer type e.g. Stations, Key lists, WQ Samplings etc. Below the pie charts is a list of the history of individual imports showing when data was imported, the type of importer, the configuration, the user and a count of the Total, Imported, Failed and Rejected records.

The amount of data shown is controlled by the date range selector just under the right hand pie chart. In the case above it is displaying imports from 13 days from the 14/7/2016. You could, for example, display records from the last 5 days only. You can further filter the results by clicking directly on a slice of the pie chart e.g. to show Rejected imports only.

You can then drill down into one of these individual imports. From here you can then drill further into the imported records themselves, check the configuration that was used for the import, check the log or even attempt to reimport failed records.



Under the IO dashboards are a list of importer/exporter configuration groups. These are simply groups that you can define to help organise your saved import/export configurations. These groups are listed within an import/export configuration as shown below. Simply click on the build button to the right of the group drop down to add a new group. These groups are extremely useful when WISKI is being used across multiple disciplines and business units as a means of delineation and organisation of import and export configurations.



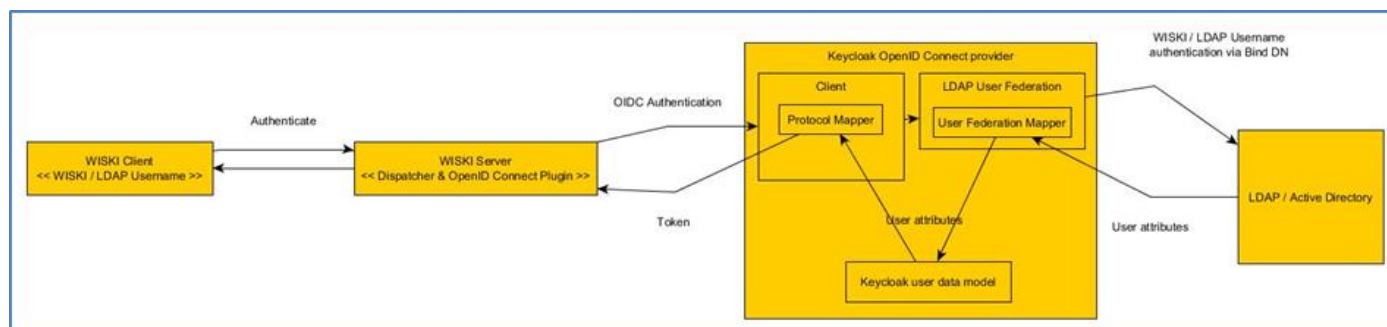
WISKI Tech News

WISKI is offering from the 7.4.5 version onwards the OpenID Connect Standard for authentication with an external authentication back-end like LDAP/Active directory. For the connection an OpenID Connect-Provider is needed. WISKI is using the open source provider KeyCloak. KeyCloak is part of every recent WISKI distribution and is installed automatically with the WISKI Server Manager. The KeyCloak service can be installed as a Windows Service using the program NSSM. For additional information see the links:

KeyCloak Tutorial: <http://keycloak.jboss.org/docs>

Download NSSM: <http://nssm.cc/download>

The connection mechanism using LDAP over a WISKI client and WISKI server is shown in the diagram below.



Integration of KeyCloak in WISKI for OpenID Connect authentication

KISTERS can supply example configurations and assist with consulting services in the process of configuring the KeyCloak client.

The implementation of OpenID Connect has several general advantages (single-sign-on, minimise password security risks, accelerate login process and others) but also allows in the WISKI environment that all registered users in the active directory of an institution may use WISKI. All users are allowed to login to WISKI, even though they are not yet registered in WISKI as a user. At first login, a new user is added to the WISKI user administration as a guest user. This means much less configuration effort for WISKI administrators and the access of WISKI or WISKI products to a greater part of LOU organisation. The WISKI Web Portal is also using OpenID Connect.

Worldwide KISTERS News

You can keep up to date with all the news from KISTERS worldwide through the following links:

<http://www.kisters.eu/news.html>

<http://www.kisters.net/NA/news-and-events>

KISTERS On the Web

KISTERS technology is at the heart of an increasing number of customer web sites, whether they be based on Hydstra or WISKI web technology or their own web developers. You can visit a selection of client web sites via the link page at <http://kisters.com.au/webpublishing.html>.

If your web site uses KISTERS software please contact us with the URL and we'll add it to the list.

KISTERS Training

Training Courses

We are happy to provide training courses on any aspect of KISTERS software provided there are sufficient people interested in attending. Please contact us at support@kisters.com.au with expressions of interest for any training requirements you have. We can provide training at your office or here in Canberra. Training in Canberra is based on a per-person per-day cost, provided we have sufficient people attending (typically six), alternatively we charge our consulting rate divided by the number of attendees, allowing for preparation time and meal costs. Training at your office will be charged at our standard consulting rates per day for the trainer, plus preparation days, travel and accommodation at cost. Courses we can offer include:

- Basic Hydstra
- Basic WISKI
- Advanced Hydstra
- Advanced WISKI
- Hydstra Administration
- WISKI Administration
- Administering Hydstra/WEB
- Hydstra Modelling with MODSYN
- Hydstra/SVR Server
- Ratings and Gaugings with Hydstra
- Exporting data to the BOM using HYWDTF_OUT
- Using Perl with Hydstra
- Groundwater Data Management with Hydstra
- Water Quality Data Management with Hydstra
- KiWQM (WISKI Water Quality Module)
- KiECO (WISKI Biology Module)

Please contact us via support@kisters.com.au if you wish to attend. We will register your interest and notify you when the next course is planned.

Training Schedule for 2017

Upcoming training courses are now published on the KISTERS website at <http://kisters.com.au/training.html>.

The following training courses are currently scheduled for 2017:

Course	Duration	Dates
Basic Hydstra	2 days	2 - 3 May, 2017
Advanced Hydstra	2 days	19 - 20 July, 2017
Basic Hydstra	2 days	17 - 18 October, 2017
Administering Hydstra	2 days	21 - 22 November, 2017

If you are interested in other training or other dates, please email your interest to support@kisters.com.au.

Courses will be held at the KISTERS Canberra office. If you are interested in attending a course please contact us via support@kisters.com.au

KISTERS Canberra Phone Numbers

We have been using a VOIP-based phone system based on open source Asterisk software in Canberra for some years now, and we have cancelled most of our analogue phone lines. Please use the following phone numbers if you wish to contact someone in Canberra directly:

02 6154-5200 KISTERS Support
02 6154-5210 Bill Steen
02 6154-5211 Damian Skinner
02 6154-5212 Markus Bauerle
02 6154-5213 Denby Angus
02 6154-5214 Rob Smith
02 6154-5215 Alain Remont
02 6154-5216 Chris Michl
02 6154-5217 Debbie Cockburn
02 6154-5218 Peter Heweston
02 6154-5219 Song Guo

The only analogue phone number that remains is the alternate support number 02 6288 2302, which we prefer you do not use as most people don't have an old handset to accept calls from this number.

Information

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