

KISTERS Australia News

December 2019

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From The GM's Desk

By Paul Sheahan, General Manager, KISTERS Pty Ltd

Christmas greeting to all! I sincerely wish that Christmas, however you celebrate the period, is a relaxing, contemplative and energising time with those that matter to you.

This newsletter we welcome a new staff member into the Hydstra support team member, Justin. Among many other things, Justin is a parkour instructor, so I'm thinking I might give Pete a years worth of parkour lessons as a company Christmas present 😊. It's great to have the change in dynamic that our graduates Justin and David bring to the office.

On behalf of the KISTERS Australia team, thanks for the opportunity to work with you this year. We strive to be client focused and value your feed back.

Paul Sheahan.

Paul Sheahan
General Manager
KISTERS Pty Ltd



Holiday Arrangements

The KISTERS office will be lightly staffed over the holiday season, and we hope there will be no floods, cyclones or other natural disasters during the period. Justin Millstead, our newest staff member, will be holding the fort and will be able to contact other staff in case of emergency.

A number of staff will be extending their holiday leave through January, and a few will end up in Aachen at Water Week starting in late January, and hence won't be back in the office until early February.

You should direct non-urgent matters to the relevant email address - support@kisters.com.au for Hydstra issues, and wiski-support@kisters.com.au for WISKI, KiWQM and KiEco related issues. For all urgent matters please phone the office on 02 6154 5200. Many staff members have access to email on their phone, and some of the more enthusiastic (or perhaps foolish) take a laptop with them on leave.

Please don't plan any major upgrades or infrastructure changes over the holiday season!

Analogue Fax and Phone Lines Going

As of 14 February 2020 we will be losing our old analogue phone lines in Canberra, as we moved our internet connection to the NBN a while ago.

We will lose the fax number 02 6288 9061 and the old support number 6288 2302. KISTERS will not be able to receive or send faxes after then. Please remove both these numbers from your phone directory.

The main support number for KISTERS in Canberra is 02 6154 5200. The number for accounts queries is 02 6154 5217. The main support email address is support@kisters.com.au, or wiski-support@kisters.com.au for WISKI related issues .

KISTERS Information Security Management System

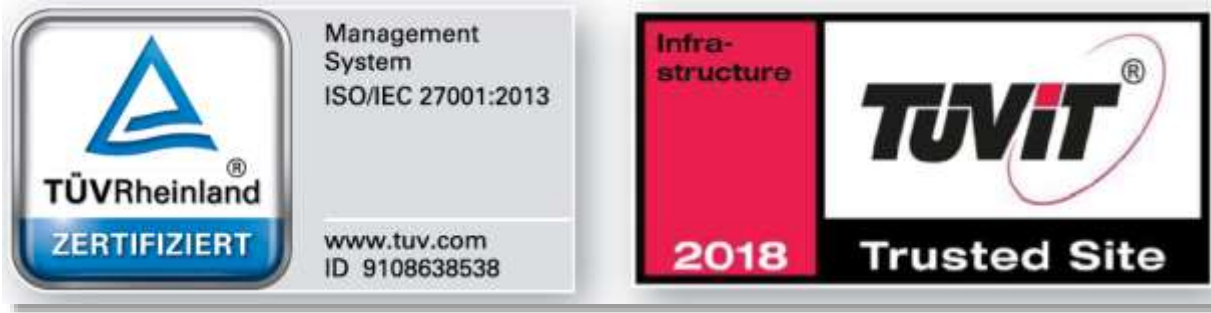
Recertification According to ISO/IEC 27001 and Extension of Scope

Given the increasing influence of IT on business and administrative processes, secure information processing has become a key to corporate success. Consequently KISTERS provides secure products to our customers and partners, realizes safe operation of SaaS solutions (software as a service) in the certified KiCloud and protects the data of customers and partners to the highest possible degree.

KISTERS' information security management system in Germany has been certified to ISO/IEC 27001 since 2017. With the second surveillance audit in October 2019, the scope has now been extended to our software development process. Certifications now include:

- ISO/IEC 27001 for information security management systems for
 - the complete business unit „KiCloud Services“ (all aspects of KiCloud Services, from the technical infrastructure, through the operational processes to the employees)
 - the support of the business units Water, Energy, Air, EHS
 - the software development process (business unit Energy)
- TÜV TSI certification for the KISTERS Data Center in our headquarter in Aachen (Germany)
- BSI TR-03109-6 of the German Federal Office for Information Security for the SaaS solution for smart meter gateway administration

These certifications prove that we are on a very high level of security. We achieve this through organizational and technical measures, as well as the constant monitoring of infrastructure, processes, products and employees from the perspective of information security. Certification entails the requirement for us to continuously improve our information security.



Hydstra Product News

Hydstra V12 Released August 2017

Hydstra V12 was released over a year and a half ago, and is available on the web site. Please plan to upgrade to V12 soon if you haven't already, as V13 is already waiting to spread its wings.

Please contact support for a V12 HYACCESS file, and plan to do an offline test upgrade first if at all possible. The upgrade from V11 to V12 is quite routine now, but can be time consuming as all time-series files need to be upgraded.

Hydstra V13 Beta Release

We have released a Beta version of Hydstra V13, and you can download it from the KISTERS web site at the usual place. You will need to request new HYACCESS files using <http://kisters.com.au/hyaccess.html> and then download the software from <http://kisters.com.au/downloads.html>. Contact KISTERS Support for a login to the downloads page.

Under no circumstances should you go into production with the V13 beta - it is strictly for testing and evaluation purposes only.

Notepad++ Backups

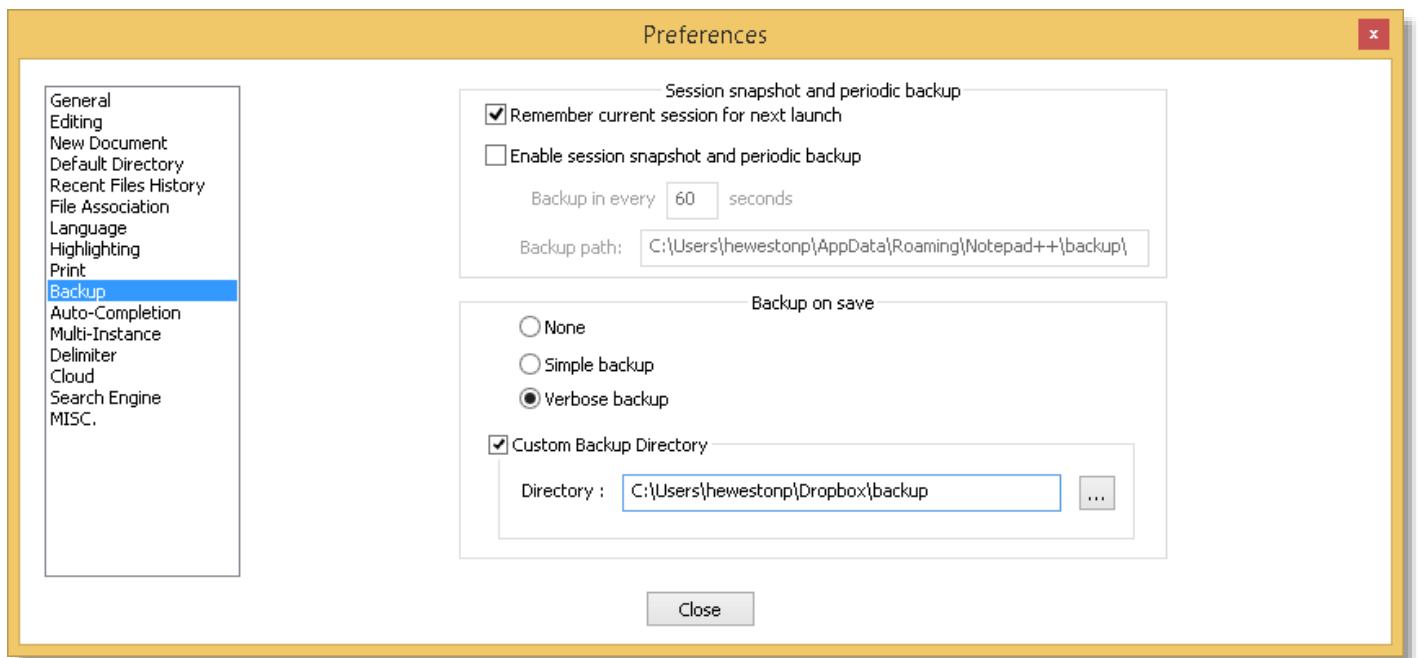
We recommend Notepad++ for all your text editing needs. It has so many advantages over the default Notepad that comes with Windows it's hard to see why anyone persists with Notepad. A few of its many benefits include:

- Syntax highlighting for most languages
- Bracket matching
- Line numbering
- Automatic backup facilities

In particular we recommend that you set up Verbose Backup, which keeps a full copy of every version you ever made of a file. In an organisation you should further ensure that everyone uses the same backup folder - this way it acts as a kind of poor man's source code control - you can always go back to an older version to see what changed.

As a further enhancement, if you have Dropbox you can put your backups there and access them from anywhere.

Under *Tools/Preferences* you can set up the backup location, and as we suggest, choose Dropbox or a network location shared by all users:



With *Verbose Backup* you end up with file names like:

```
hygiene.hsc.2016-07-12_165317.bak
hygiene.hsc.2015-09-30_175811.bak
hygiene.hsc.2015-10-01_194006.bak
hygiene.hsc.2015-10-02_184100.bak
```

showing every time the file was modified. If you want to thin out the backups, the following script, when suitably adjusted, will keep every backup for the last 10 days, and then only one a day before that:

```
@rem = ' clean up backup directory to keep only one per day after a few days
call hyrunpl cleanup_backup.bat %1 %2
goto :eof
';
undef @rem; # ensure we don't get a compilation warning
require 'hydlib.pl';
require 'hydtim.pl';
use strict;
my (@files,$file,%seen,$filestub,$filedate);
main: {
    OpenFile(*hREPORT, 'c:\temp\temp\cleanup_backup.txt','>');
    @files=DOSFileList('c:\users\hewestonp\dropbox\backup\*.*',0);
    #sort list in reverse order
    @files=sort {$b cmp $a} @files;
    Prt('-T',join("\n",@files));
    my $today=NowRel();
    foreach $file (@files){
        if($file=~m{^(.*)\.(\d\d\d\d)-(\d\d)-(\d\d)\_\\d\d\d\d\d\d\d\d}{
            $filedate="$2$3$4";
            $filestub=$1;
            Prt('-T',"Testing $file stub=[$filestub] date=[$filedate]\n");
            my $filerel=StrtoRel("${filedate}000000");
            Prt('-T',"Today=$today Filerel=$filerel File age=", $today-$filerel, "\n");
            next if(($today-$filerel)<14400);
            if(defined($seen{$filestub}{$filedate})) {
                Prt('-RS',"***Del $file stub=[$filestub] date=[$filedate]\n");
                unlink $file;
            }
            $seen{$filestub}{$filedate}++;
        }
    }
}
close hREPORT
}
```

Delphi Web Server

Recent release of Hydstra V12 include `webservice.exe`, which is a compiled Delphi version of `webservice.pl`. Our initial indications are that it is several times faster than `webservice.pl`, and hence is probably to be preferred when serving up Hydstra data. The only issue is that you will need to publish a different URL, unless it is already mapped by higher level web infrastructure.

You need patch dated later than 30/10/2019 to have access to the current version of `webservice.exe` that includes CSV support and hence is completely compatible with *webservice.pl*.

Because it's a new feature we suggest you establish a test server first and ensure it behaves as expected.

Searching All Text Fields in HYMANAGE

The list of columns in the HYMANAGE filter dialog now includes a special pseudo-column called [ALL_TEXT_FIELDS]. If you choose this, it means the searching will be done on all text-type fields in the table (the row will appear in the filtered output if your condition matches any of those fields).

Perl and Python Modules to Simplify Creating Automation Files

We have introduced modules *hyautomation.pm* and *hydaut.py* to assist in the creation of .AUT automation files from scripts. Automation files allow you to specify program parameters, INI file overrides, HYCONFIG overrides and command line flags in a single .AUT file. To learn more about the Perl version, run *hypod hyautomation* from a command box.

HYRSTORM Enhancements

The Australian Bureau of Meteorology has changed its preferred way of delivering AEP data. Previously you would enter a series of coefficients into HYARITAB, which would save the data in special rating tables. The new process is to download a series of CSV files from <http://www.bom.gov.au/water/designRainfalls/revised-iff/> and process them with HYBOMAEP, which loads them into your STNINI table in XML format.

You should issue the request to BOM in the form of an uploaded CSV file which includes the latitude, longitude and site ID for a list of sites - this request file can be easily extracted from the SITE table.

Design Rainfall Data System (2016)

[Conditions of Use](#) | [Help](#) | [New IFD feedback](#)

New Search

Single Point

Multiple Points

Upload CSV file

Decimal Degrees | Template

Degrees, Minutes, Seconds | Template

Easting, Northing, Zone | Template

Choose File

No file chosen

Extent

Select from Map

Analysis - Multiple Points >

Download all CSV (.zip)

Download all PNG (.zip)

Location

Label: Not provided

Latitude: -35.3135 [Nearest grid cell: 35.3125 (S)]

Longitude: 149.1485 [Nearest grid cell: 149.1375 (E)]

©2019 MapData Services Pty Ltd (MDS), PSMA

IFD Design Rainfall Depth (mm)

Issued: 26 November 2019

Rainfall depth for Durations, Exceedance per Year (EY), and Annual Exceedance Probabilities (AEP). [FAQ for New ARR probability terminology](#)

Table

Chart

Unit: mm

| | Annual Exceedance Probability (AEP) | | | | | | |
|----------|-------------------------------------|------|------|------|------|------|------|
| Duration | 63.2% | 50%# | 20%* | 10% | 5% | 2% | 1% |
| 1 min | 1.62 | 1.84 | 2.58 | 3.10 | 3.63 | 4.36 | 4.94 |
| 2 min | 2.71 | 3.09 | 4.31 | 5.16 | 6.02 | 7.16 | 8.05 |
| 3 min | 3.71 | 4.23 | 5.90 | 7.08 | 8.26 | 9.86 | 11.1 |
| 4 min | 4.61 | 5.24 | 7.31 | 8.78 | 10.3 | 12.3 | 13.9 |

HYRSTORM has been enhanced to read this information from STNINI if it is there. It will still use the legacy rating table system if you don't have any HYBOMAEP data in your STNINI table (e.g. you aren't in Australia and don't even know what we are talking about).

HYRSTORM has been enhanced to include a "Return" column in the text report if AEP or frequency rating curve data is available, so you can see the return period of each duration analysed.

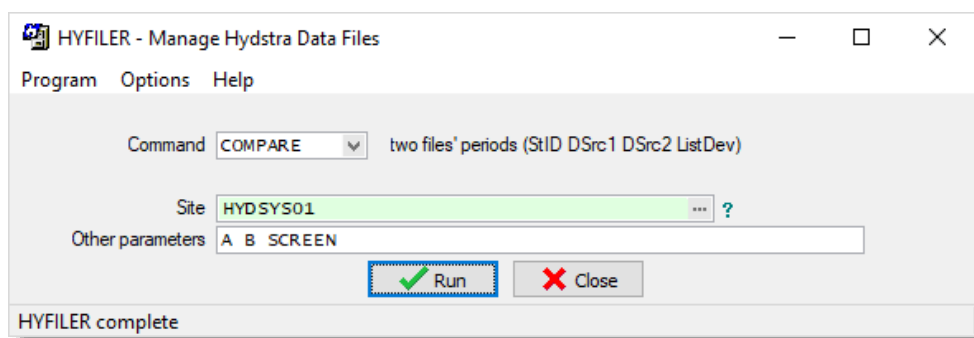
Comparing Hydstra Time-Series Files

Occasionally you may have a situation where you have two timeseries files and you're not sure how they differ, and which one to keep. There are a few ways you can compare files using Hydstra tools and Beyond Compare.

1. You can use beyond compare to comparing the binary of two files to see if they are different or not, this will only show that the files are not the same, it won't show you useful information about how they are different.



2. You can use HYFILER to compare changes between periods of data between two files. This is done entirely within Hydstra using the COMPARE command. It shows you on a block by block basis which file has which periods of data missing:



```
HYFILER COMPARE [HYDSYS01 A B] Run 15:29_27/11/2019

The following periods of data in HYDSYS01.A are missing from the .B file
Var    Start                      End
100.00 17:40:00_10/12/1959 13:00:00_05/02/1960
100.00 13:00:00_05/02/1960 13:20:00_02/05/1960
100.00 13:20:00_02/05/1960 13:30:00_14/07/1960
```

However HYFILER COMPARE doesn't look inside the blocks to see if the data values are different.

3. You can use HYREP CRC to compute the CRC of every block and compare them with Beyond Compare, but you may need to replace datasource names in order to see relevant differences. Otherwise the output may have all entries on one file with say HYDSYS01.A and all entries on the other file with HYDSYS01.B and view all entries as different based on the datasource name. This output will also show variable codes, dates of when variables were entered, when the data was last edited and by whom.

HYREP - Report Hydstra Files

Program Options Help

Report Type: **CRC** (CRC of Hydstra Data (for comparing files))

Site List: **HYDSYS01** ?

Data Source List: **A** (comma-separate list, ranges OK within collection-type datasource)

Page Breaks? ☒ (Between Sites, some reports)

Start Date: **01/01/1900** (Leave Start = End to Process all blocks in files)

End Date: **01/01/1900**

Output File: **hydsys01a.crc**

Run **Close**

HYREP complete

```
Block HYDSYS01.A 00C70012 170.00 10:20 15/05/1900 00:00 32/05/1900 15:10 24/02/1988 HYDIT
Block HYDSYS01.A 002002C3 170.00 02:50 22/05/1900 00:22 35/05/1900 15:10 24/02/1988 HYDIT
Block HYDSYS01.A 002002C3 170.00 02:50 22/05/1900 00:22 35/05/1900 15:10 27/11/2018 HYDPAW/SAP
```

4. You can then use HYCSV to extract each variables into a text file. This should be run once separately for each variable in each file and compare them with Beyond Compare, which will get right down to the point level and show differences. Be aware that the files may get very large. You could also use HYEXTR or HYEXPORT to do a similar task.

HYCSV - Extract Comma Separated Data

Program Options Help

| Code | Site | Data Source | VarFrom | VarTo | Data Type |
|------|-------------------|-------------|---------------|---------------|--------------|
| DATA | HYDSYS01 ? | A | 100.00 | 140.00 | POINT |
| DATA | 0 | A | 100.00 | 140.00 | MEAN |
| DATA | 0 | A | 100.00 | 140.00 | MEAN |
| DATA | 0 | A | 100.00 | 140.00 | MEAN |
| DATA | 0 | A | 100.00 | 140.00 | MEAN |
| DATA | 0 | A | 100.00 | 140.00 | MEAN |
| DATA | 0 | A | 100.00 | 140.00 | MEAN |
| DATA | 0 | A | 100.00 | 140.00 | MEAN |
| DATA | 0 | A | 100.00 | 140.00 | MEAN |
| DATA | 0 | A | 100.00 | 140.00 | MEAN |

TIME Interval, Multiplier: **DAY** **1.0000**

Negative Time Offset: **0.00** (Hours)

Start of First Interval: **00:00_01/01/1980** (Start = End for combined period of record - superset)

Start of Last Interval: **00:00_01/01/1980**

Output Time of Interval: **END** (if Data Type <> POINT)

Output File: **hydsys01.txt**

Time in days? ☐ (NO if template or std time format)

Output Quality Codes? ☐

Output Comments? **NO**

Time format template: **HH:II:EE DD/MM/YYYY**

Run **Close**

```
13:04:17 09/08/1982, 0.602
13:46:36 09/08/1982, 0.553
13:04:17 09/08/1982, 0.599
13:46:36 09/08/1982, 0.598
```


WISKI Product News

Release Management and Client Base

The current software version is WISKI 7.4.9, which has many further functional developments for the ecology package KiEco and performance improvements for WISKI server. WISKI 7.4.9 uses the Open JDK Java release which removes the dependency on Oracle Java, with all its consequent [licencing issues](#).

WISKI 7.4.11 Update

We will be looking to roll out updates to what will shortly be the latest version – WISKI 7.4.11 – beginning early 2020, from which point it will be the recommended WISKI release. Since many customers are still currently using WISKI 7.4.7 or earlier, they should look to organise an upgrade directly to 7.4.11 in the new year.

WISKI Support Email and Help Desk

Contacts for the WISKI team at KISTERS in Australia:

Vicky, Chris, Markus, David and Callum (web developments) offer specialised support for the KISTERS products WISKI, KiWQM, KiEco, KiDSM, KiALM, Water Portal, WDO and KiWIS in Australia and New Zealand.

The 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, Callum or David, please cc the support box so a central register of issues can be maintained.

The latest WISKI releases can be found on our download portal at <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

News from KISTERS Overseas

You can keep up with news from other KISTERS offices via the following links:

<https://water.kisters.de/en/press-room/>

<https://water.kisters.de/en/news/>

<https://www.kisters.net/NA/news/>

Staff News

Welcome to Justin Millsteed

We welcome Justin Millsteed to the Hydstra support team. Justin completed a Bachelor of Environmental Science (Conservation and GIS) from Charles Sturt University, and has also completed a Diploma of Information Technology Networking from the South West Sydney Institute. Justin has volunteered at the Soil Conservation service in Albury which involved monitoring water data along the Murray River, worked as research assistant monitoring frogs and ecosystem variables in the Hay area for CSU and was part way through an Internship at the North East Catchment Management Authority in Wodonga working on GIS and biodiversity projects before accepting a role at KISTERS.



Justin Millstead

Information

This newsletter is published by KISTERS Pty Ltd and edited by Peter Heweston. It is distributed using MailChimp (www.mailchimp.com)

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