

HydroTel™

Incremental Release Notes

NOTE: iBETS refers to the Bug/Enhancement Tracking System available at <http://data.hyquestsolutions.co.nz/iBETS>. Case details can be viewed, comments added and new cases raised by registered iBETS users. If you would like to become a registered iBETS user please email support@hyquestsolutions.co.nz

Important Note: Upgrading from HydroTel™ Version 5.2018.4

If you are upgrading from a HydroTel™ version prior to the most recent previous release, you must incrementally upgrade the database with each of the skipped versions. This can be done by either sequentially running the upgrade installers on the HydroTel™ server machine or else executing each version's upgrade SQL script. The HydroTel™ release upgrade script requires a database that is compliant with the immediately previous version.

IMPORTANT NOTE: The V5.2019.1 database upgrade script recreates a core table (SampleBuf) to ensure full compliance with SQL Server 2016+ timestamping. To avoid any potential loss of unprocessed samples from comms and transfer agents, the HydroTel™ Server service should be the very last component stopped before applying the upgrade. It is recommended this SQL query is executed and the upgrade script not be applied until it returns a count of zero records:

```
SELECT COUNT(*) FROM dbo.SampleBuf
```

Please contact HyQuest Solutions for assistance and installers / scripts before upgrading out-of-date systems.

Version 5.2019.1 – 22nd Mar 2019

General Comments

This release includes new features and bug fixes since the V5.2018.4 release. Enhancements include:

- Optimised samples processing in the server, improving throughput.
- Added support for the expanded features of the iRIS Under Cover and iRIS 270 dataloggers.
- Improved management of logger programs, including a centralized, self-contained check for updated logger firmware/software.

Significant upgrades to the development tool suite and the integrated third-party component libraries, such as charting and reporting have been done. Enhancements include:

- Built in full native SQL Server® support up to SQL Server® 2017.
- Default support for HTML5 charset in the WebServer component.

These release notes also include some iBETS cases resolved in earlier releases, but overlooked for closure.

Client

New Features/Enhancements

- Add support for iRIS 270 and iRIS Under Cover new firmware check to Logger Programs form. iBETS 2295
- Editing support for multiple samples. Also 'send to quarantine' as an alternative option to permanent deletion of samples. iBETS 2111
- Improved options when resubmitting samples to quarantine. iBETS 706

Bug Fixes

- Point statistics lines - text label shows as a solid black rectangle and may overwrite the x-axis. iBETS 2260
- Clone site function not fully completing. iBETS 2248
- Site selection dropdown in Object Configuration does not work. iBETS 1290 and iBETS 2293
- Critical error when adding an object to a new site. iBETS 2283
- Exception or client lockup when invoking the point config form via the object config form. iBETS 2267

- Users config form. The Web Default Group combobox selection is not accepted. iBETS 2278
- Cannot delete a site that has one or more entries in the SiteExports table. iBETS 2297
- WUDMS Config form - changes do not save. iBETS 2188
- Custom plug-in form. Grid is not editable. iBETS 2298
- Adding a new action will clear the modifier field of an existing action of the same type. iBETS 2275
- Quarantining samples using the Samples Editor just deletes the samples. iBETS 2272
- Samples quarantine - optional time offset does not seem to be applied to resubmitted samples. iBETS 2269
- Attributes form did not correctly control the dataset edit mode. iBETS 1966
- Rogue traces appearing on start-up - appears to be a favourite being triggered when client not ready. iBETS 1939
- Help file. Check all F1 linking. E.g. the Points and Objects topics are empty (when invoked from their config forms). iBETS 850
- iRIS 270 configuration files cannot be exchanged with iLink 2012. iBETS 2296
- Lost catchment label display functionality. iBETS 397
- Check all exception dialogs/logging include the actual exception message. iBETS 59
- Data with very small values does not display correctly. iBETS 493

Server

New Features/Enhancements

- Change insertion method for samples into SampleBuf or Samples tables from hard coded SQL queries to centralised stored procedure calls. iBETS 2294

Bug Fixes

- SQL Server 2016+ - Issue with processing sample datetimes with certain odd millisecond values. iBETS 2028

Comms Agents

Bug Fixes

- Upgrading iCE3 FX software remotely may allow attempted activation even if the file image set is not fully validated. iBETS 2271
- FX loggers: A few unloaded samples may be assigned a timestamp a year in the future if the logger has just commenced a new year. iBETS 2270

SMS / HTTPSMS Agents

New Features/Enhancements

- Request an SMS agent restart rather than halting should the modem become unresponsive and a manual intervention of the agent is required. iBETS 2282

Bug Fixes

- Include the GDSP SMS portal socket connector in validation checking. iBETS 1988

Utilities

New Features/Enhancements

- Change registered components source to SystemSettings table to ensure all installed components on other machines are included in the catalogue. iBETS 2285

Database

New Features/Enhancements

- Change insertion method for samples into SampleBuf or Samples tables from hard coded SQL queries to centralised stored procedure calls. iBETS 2294

CGI WebServer

New Features/Enhancements

- Default support for HTML 5 UTF-8 charset. iBETS 2303

HydroTel™

Version 5.2018.4 Release Notes

NOTE: iBETS refers to the Bug/Enhancement Tracking System available at <http://data.hyquestsolutions.co.nz/iBETS>. Case details can be viewed, comments added and new cases raised by registered iBETS users. If you would like to become a registered iBETS user please email support@hyquestsolutions.co.nz

Important Note: Upgrading from HydroTel™ Version 5.2018.3

If you are upgrading from a HydroTel™ version prior to the most recent previous release, you must incrementally upgrade the database with each of the skipped versions. This can be done by either sequentially running the upgrade installers on the HydroTel™ server machine or else executing each version's upgrade SQL script. The HydroTel™ release upgrade script requires a database that is compliant with the immediately previous version.

Please contact HyQuest Solutions for assistance and installers / scripts before upgrading out-of-date systems.

Version 5.2018.4 – 28th November 2018

General Comments

This release includes new features and bug fixes since the V5.2018.3 release, plus routine upgrades to the integrated third-party component libraries such as charting and reporting and the support for the iRIS 270 and iRIS Under Cover loggers has been extended and enhanced. This release note also contains several iBETS cases that were resolved in earlier versions, but were overlooked for closure.

Client

New Features/Enhancements

- Have journal entry content available in the database also as plain text and not truncated in length. iBETS 2234
- Add last audited date/time field to Contacts. iBETS 2232
- Expand Fast Reports® export modes to include JPG image format. iBETS 2241
- Added 5 minute option to plot aggregates. iBETS 2243
- Media enhancements. Add archiving details and also means of directly opening the content. iBETS 2238
- Provide global means of enabling/disabling 'Alert' mode. iBETS 2244
- Add option to export multiple camera images for a particular point to file, in one operation. iBETS 2253
- Report on, or otherwise determine IP call-in rates of loggers not polled by HydroTel. iBETS 712
- Improved configuration synchronisation between HydroTel and devices in the field. iBETS 1979

Bug Fixes

- Auditing only applied to first trace on multiple trace plots. iBETS 1751
- Manual gate object plug-in: Status selection combo box is unpopulated. iBETS 2231
- Abnormal program termination when cloning a site. iBETS 2224
- Link execute string not visible or editable on the point information tab. iBETS case 2223
- Rosters form does not populate properly when accessed through contacts form. iBETS 2175
- Interfaces form - interface parameters configuration always selects the Radio interface type dialog. iBETS 2230
- Invalid auto-logon settings should be handled cleanly, allowing corrections to be made. iBETS 2218
- Communicator not being automatically added to Contact Names when creating new contact methods. iBETS 2172
- Enforce forms and controls size and position to the valid range to prevent them possibly becoming inaccessible. iBETS 1970
- Site images functionality reviewed and completed. iBETS 2215
- Refreshing Site Journal then shows all journal entries, not just the ones for the selected site. iBETS 2229

- Media grid row double-click does not invoke media save to file as expected. iBETS 2237
- Text based object plugin (HydStandardPoint) does not support text font size scaling. iBETS 2239
- A change to the contact method communicator does not seem to be saved. iBETS 1649
- Minimum height of some forms still too large for viewing on stated 1024x768 minimum resolution. iBETS 1756
- Allow editing of multiple entries in Alarm Types config table with a single edit click. iBETS 969
- Catchment map display - exception invoking rainfall total mode with user defined time period. iBETS 2259

Server

Bug Fixes

- Action Manager thread halts if multiple identical entries in the ActionQueue table. iBETS 2255
- Step in derived flow or occasional zero output value generated with particular rating values. iBETS 221
- Lookup ratings - extrapolate above and below curve. Also potential server lockup if multiple zero pairs. iBETS 812
- Rating definition not precise enough. iBETS 1972

Comms Agents

New Features/Enhancements

- Add support for partial firmware/software uploads to be resumed from the last successful block. iBETS 2249
- Add parallel processing of requests to UDP type interface. iBETS case 570

Bug Fixes

- TDS Protocol: Lengthy unloads of multi-column data may fail with "Received packet too large" error. iBETS 2221
- Suppress unnecessary invalid reply events from legacy CSI loggers when only a "*" prompt received. iBETS 1587
- Unidata protocol: Sample timestamps should be independent of daylight savings time. iBETS 2088
- iRIS 350FX configuration send does not include the User Config block. iBETS 2250
- Sending iRIS 350FX lookup tables sends entire configuration? Review configuration management. iBETS 1993

Reporting Agent

New Features/Enhancements

- Expand Fast Reports export modes to include JPG image format. iBETS 2241

Supervisor Agent

Bug Fixes

- Daylight saving mode needs to be catered for. iBETS 2233
- Improved notification of stopped services. iBETS 2017

Utilities / Miscellaneous

Enhancements

- System Status Report – Catalogue to report the number of active sites rather than active loggers. iBETS 2216
- Database - Remove redundant Reports table and also check ReportsQueue table foreign key. iBETS 2226
- HydAvgSum utility does not create a log file in the expected common folder. iBETS 2217
- Server and agents. Include optional status point(s) that can be controlled on fault or condition that is notifiable. iBETS 2054

HydroTel™

Version 5.2018.3 Release Notes

NOTE: iBETS refers to the Bug/Enhancement Tracking System available at <http://data.hyquestsolutions.co.nz/iBETS>. Case details can be viewed, comments added and new cases raised by registered iBETS users. If you would like to become a registered iBETS user please email support@hyquestsolutions.co.nz

Important Note: Upgrading from HydroTel™ Version 5.2018.2

If you are upgrading from a HydroTel™ version prior to the most recent previous release, you must incrementally upgrade the database with each of the skipped versions. This can be done by either sequentially running the upgrade installers on the HydroTel™ server machine or else executing each version's upgrade SQL script. The HydroTel™ release upgrade script requires a database that is compliant with the immediately previous version.

Please contact HyQuest Solutions for assistance and installers / scripts before upgrading out-of-date systems.

Version 5.2018.3 – 4th September 2018

General Comments

This release includes new features and bug fixes since the V5.2018.2 release, plus routine upgrades to the integrated third-party component libraries such as charting and reporting. These release notes also include several historical iBETS cases that were resolved in earlier releases, but were overlooked for closure. They have been reconfirmed as being resolved.

Two significant new features included in this release are:

1. Multiple column site exports via the Transfer Agent. (iBETS 2207)
2. Initial support to manage site visits and "test/calibration" mode, suppressing alarms and exports to prevent false alarms. iBETS 2076

Client

New Features/Enhancements

- Included support for site exports on a multi-point-per file basis. iBETS 2207
- Provide a method for automatically stopping "bad" data created by instrument calibrations / verifications from being exported. iBETS 2076
- Support for printing or exporting catchment dynamic maps. iBETS 968
- Add ability to send message to all rosters associated with a point's alarm(s). iBETS 2182
- Favourites should support the chart's time reference option. iBETS 567
- Introduction of new style, higher performance SVG themes. The first available is 'The Bezier'.
- Include context-linked list of contacts and rosters associated with point alarms. Also an option to send a message to all. iBETS 2075
- Add optional proxy support for the dynamic mapping engine. iBETS 2158
- Provide means of easily determining the SOD pointer for a given date/time, for retrospective unloads. iBETS 2002
- Add ability to easily view/control data export for all points from their site context. iBETS 756
- Quarantine view: Option to filter on time range, fix combobox sorting. Also add option for timestamp correction on resubmit. iBETS 694

Bug Fixes

- iRIS150FX Digital Output Duration is limited to 1440. iBETS 2166
- Clicking "No" to the Point Deletion confirmation attempts to proceed with deletion anyway. iBETS 2179
- Cannot save modified FastReport content. iBETS 2186
- Alarm Configuration - minor cosmetic issues. iBETS 2187

- Views form in both integrated and separate modes should have a form size that fully includes all objects and charts. iBETS 2112
- Users form: Security group membership grid not refreshing if group changes made. iBETS 2183
- Point deletion displays Site Name instead of Point Name. iBETS 2178
- Point selector dialogue doesn't correctly select any point other than the first on an object, if there is more than one point. iBETS 2156
- Site image display disappears when 'Use Cached Images' is enabled. iBETS 2174
- Can't edit/save notes from the District/Catchment/Site/Object Notes tab views. iBETS 2194
- Issues with some forms/controls when larger font size selected. iBETS 1834
- Intermittent "EOutOfResources: Unable to insert an item" exception when refreshing the loggers tree. iBETS 1625
- Quarantine site and point selection is confusing. Also, the point list can be unusably long. iBETS 1187
- Last sample time not updated after multiple sample data deleted. iBETS 2145
- Unable to adjust Y axis range when locked axis feature is turned on. iBETS 1843
- Favourites Y-axis colours follow user profile, not the trace colours defined in the favourite. iBETS 2193
- HydTideView object graphical plug-in. Error "Resource ALERT_24 not found.. iBETS 2210
- Exception deleting data from a time series using the delete Outside Min/Max option. iBETS 2204

Server

New Features/Enhancements

- Provide a method for automatically stopping "bad" data created by instrument calibrations / verifications from being exported. iBETS 2076

Bug Fixes

- Loggers tree: Loggers should be under selected interface which is not always the primary interface. iBETS 2159
- Invalid (Q5) samples should have no effect on alarms at all. iBETS 2850

Archiver Agent

Bug Fixes

- Watchdog may restart the archiver agent part way through an archiving cycle. iBETS 2196
- Include image files in the archiving process. iBETS 2122

Comms Agents

New Features/Enhancements

- Provide a method for automatically stopping "bad" data created by instrument calibrations / verifications from being exported. iBETS 2076
- TCP Client comms agent - provide a 'connectionless' mode to handle HTTP or similar drivers. iBETS 1977

Bug Fixes

- Post processing I/O reads: Digital input points with an identifier index of 15 lock up the interface. iBETS 2161
- iRIS 350FX and iCE3 FX comms scheduler configuration not sent as a separate item. iBETS 2152
- Comms log details for child loggers show the parent logger name although the associated id is correct. iBETS 1548
- Pointers not updated correctly with incomplete unload. iBETS 1647
- Ensure time series points given priority over analogue/digital points when identifiers are identical. iBETS 1875
- iCE3 not being taken out of transparent mode prior to disconnection command if no comms task required for it. iBETS 2015
- Parent iCE3s should only be dealt with once ALL child loggers have been processed. iBETS 1602
- Parent clock sync does not happen for iCE3 in standalone mode. iBETS 1629

FTP Agent

New Features/Enhancements

- Download mode: Option to apply a unique identifier prefix or suffix to file names after download. iBETS 2177

Iridium Agent

New Features/Enhancements

- Added support for post-unload actions to match functionality of other comms agents. iBETS 2063

SMS and HTTP SMS Agents

New Features/Enhancements

- SMS Agent: Enable the number of modem reinitialisation attempts to be configurable. iBETS 2206

Bug Fixes

- Improved handling of possibly invalid SMS numbers to prevent agent blocking. iBETS 2192

Transfer Agent

New Features/Enhancements

- Included support for site exports on a multi-point-per file basis. iBETS 2207
- Include a check to prevent exporting of samples that have erroneous timestamps. iBETS 2049

Utilities / Miscellaneous

Bug Fixes

- System Monitor - Transfer Agent configuration. Exceptions while saving the configuration must not prevent valid settings being saved. iBETS 2118

Voice Agent

New Features/Enhancements

- Additional configuration options to control overdue data announcement and auto-answer. iBETS 2191

HydroTel™

Version 5.2018.2 Release Notes

NOTE: iBETS refers to the Bug/Enhancement Tracking System available at <http://data.hyquestsolutions.co.nz/iBETS>. Case details can be viewed, comments added and new cases raised by registered iBETS users. If you would like to become a registered iBETS user please email support@hyquestsolutions.co.nz

Important Note: Upgrading from HydroTel™ Version 5.2018.1

If you are upgrading from a HydroTel™ version prior to the most recent previous release, you must incrementally upgrade the database with each of the skipped versions. This can be done by either sequentially running the upgrade installers on the HydroTel™ server machine or else executing each version's upgrade SQL script. The HydroTel™ release upgrade script requires a database that is compliant with the immediately previous version.

Please contact HyQuest Solutions for assistance and installers / scripts before upgrading out-of-date systems.

Version 5.2018.2 – 1st June 2018

General Comments

This release includes new features and bug fixes since the initial Version 5 release, plus routine upgrades to the integrated third-party component libraries such as charting and reporting. This release includes a major version 6 Fast Report upgrade.

Client

New Features/Enhancements

- Automatically remove rating pairs with duplicate values during import process. iBETS 2097
- Include logger details in a separate grid, with context based on the interface. iBETS 2125
- Provide user preference option to always start with gap detection enabled/disabled. iBETS 2113
- Display state of inhibited points in the Point Data Transfer Viewer. iBETS 2117
- Provide mapping type selection (static or dynamic) per-catchment when dynamic mapping is installed. iBETS 2124
- Support for unload windows based on manually configured SOD and/or EOD pointers. iBETS 639
- Enhance the cpi_HydWindAverageView plug-in to clearly display active wind average protocol. iBETS 1984

Bug Fixes

- Plot type is not editable in Point Statistics configuration dialogue. iBETS 2100
- Object variants all have id of 1 in grid. Also inserting a new object variant fails with id cannot be NULL. iBETS 2102
- Dynamic map sensor data requires two clicks to display. iBETS 2128
- Quarantined samples not being deleted from database. iBETS 2133
- Control tab order not fully consistent across all forms. iBETS 2103
- Security Group configuration form loses Group Role information when user logs out and back in. iBETS 2135
- Actions configurations for a logger (unload, sync etc) fail to display a list of loggers to select. iBETS 2138

Server

New Features/Enhancements

- Send system catalogue report annually to HyQuest admin staff to aid HydroTel relicensing. iBETS 2115

Comms Agents

New Features/Enhancements

- Support for unload windows based on manually configured SOD and/or EOD pointers. iBETS 639
- Under-resourced TCP Server Comms Agent interfaces should be notified to support staff. iBETS 1881

Bug Fixes

- Legacy CSI array loggers. Unloads may halt with "Final storage location does not match that selected" error. iBETS 2110

SMS and HTTP SMS Agents

Bug Fixes

- HTTP SMS Agent: "Checking for external inbound SMS" message clogs up event log. iBETS 2106

Iridium Agent

New Features/Enhancements

- Removed all dependencies to the defunct IMEIMap.cfg file. All IMEI handling is now done in the database.

Bug Fixes

- Sensor configuration sends only first pair (Sensor 1 and 2). iBETS 2014

Utilities / Miscellaneous

New Features/Enhancements

- Upgrade and include HydCommsScheduleExtractor utility in Version 5 installer. iBETS 2119
- System Status Report Generator now includes a "System Catalogue" section. iBETS 1945

Bug Fixes

- System Status Reporter: Table row counts above ~ 2 billion are incorrect. iBETS 2121

HydroTel™

Version 5.2018.1 Release Notes

NOTE: iBETS refers to the Bug/Enhancement Tracking System available at <http://data.hyquestsolutions.co.nz/iBETS>. Case details can be viewed, comments added and new cases raised by registered iBETS users. If you would like to become a registered iBETS user please email support@hyquestsolutions.co.nz

Important Note: Upgrading from HydroTel™ Version 4

This release is a major upgrade that replaces HydroTel™ Version 4, which must first be fully uninstalled.

If you are upgrading from a HydroTel™ version prior to the most recent previous release, you must incrementally upgrade the database with each of the skipped versions. This can be done by either sequentially running the upgrade installers on the HydroTel™ server machine or else executing each version's upgrade SQL script. The HydroTel™ release upgrade script requires a database that is compliant with the immediately previous version.

Please contact HyQuest Solutions for assistance and installers / scripts before upgrading out-of-date systems.

Version 5.2018.1 – 13th February 2018

New Features and Changes from Version 4

Introduction

This section outlines the main changes from Version 4, including those relating to installation and component location.

Client

Overall, the client experience is very similar to Version 4 and any user familiar with the older version will be able to use the new client with no difficulty. The main menu has been rearranged, otherwise all forms and controls are largely the same.

However, one of the major changes in the Version 5 has been the adoption of a completely new suite of user interface components, which replace most of the user controls, in particular the data grids, which in Version 4 and earlier had become a significant frustration.

This library also includes several other useful components that have been used and more will be added in future releases.

Categories

The District, Catchment and Site categories may be reassigned a custom name to better fit the organisation's use of their HydroTel™ system. E.g. District could be Organisation, Catchment could be Region and Site could be Location. The district/catchment/site name as applied in underlying database tables, views and procedures remain the same.

High DPI (dots per inch) resolution screens

Most Version 5 forms have been updated to include an automatic resizing tool that caters for varying screen resolutions and font sizes. In subsequent updates any remaining forms and controls will be migrated and further improvements made.

Dynamic Mapping

A new licensable server module provides full dynamic mapping at the catchment level. Supported map servers include Open Street Maps (OSM), Bing Maps and still in development is ArcGIS Server. Coordinate formats supported are decimal latitude/longitude or NZTM2000 (easting/northing) as often used for New Zealand government systems. Support for Google Maps is not currently provided for technical reasons and also the licensing model for organisations is potentially expensive.

HydroTel Server

Registration Information

Registered To: HyQuest Solutions

Registration Code: [Unregister]

Database Version: 5.2018.1

Registered Features

Concurrent Users: Unlimited

Loggers: 1000

Alarm Processing

Control Functions

Dynamic Mapping

Media Archive

Web Server

WUDMS

Expiry

Expiry Code: [Submit Code]

(Expires: 28 Dec 2019)

Notifications: Data Processing Mapping Miscellaneous

Map Coordinate Format: NZTM 2000

Map Server: Bing Maps

Map Server User Name: []

Map Server Password: []

Map Server URL: http://[subdomain] tile.openstreetmap.org/[z]/[x]/[y].png

Map Server Key: []

Allow Site Location Capture

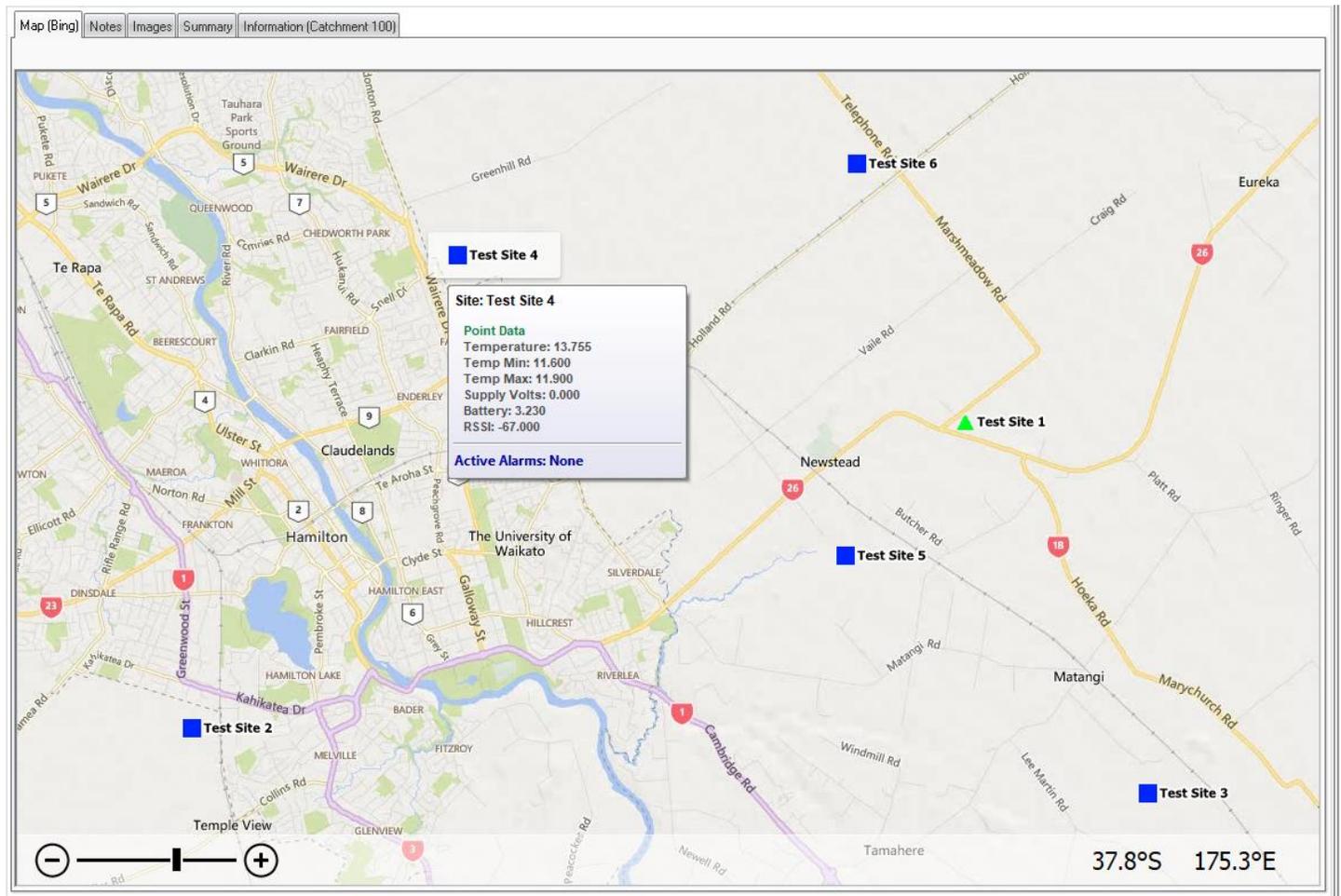
[Accept] [Cancel]

Server - Mapping Configuration

This defines the mapping service and if applicable, log-in credentials, the base coordinate format (as stored in the database Sites table).

Example Bing Maps View

This example show sites with the map type set to "roads". A mouse over pop-up shows alarm status and current point values for the site.



User Themes (Skins)

The HydroTel™ user interface, in particular the client can now be personalized with colours and in some cases, patterned overlays. Although it is largely a cosmetic feature, it does offer a range of decorative schemes that not only appeal to a user's own preferences, but can improve the visibility of controls.

A selection of ten themes are provided from a total available library of fifty. This seemed an appropriate balance of style and also overall file quantities and size which affect, in particular the client start up time. Ongoing optimization in future releases will reduce this effect due to themes.

The default theme when themes are first enabled is "Silver".



NOTE: As the themes involve the painting of controls with the selected overlay, there is a slight speed penalty and in some cases there is more redrawing of controls. Overall, this seems to be quite acceptable. Ongoing optimisation in subsequent versions will reduce these differences.

Disable themes to instead use the faster native Windows® appearance. Disabled is the default state.

Grids

The new grid library offers a range of new features over the previous vendor's library. All grid column ordering, sorting and widths are saved when the relevant form is closed. Use the View->Reset Client Layout menu to reset all form and grid sizes back to their defaults.

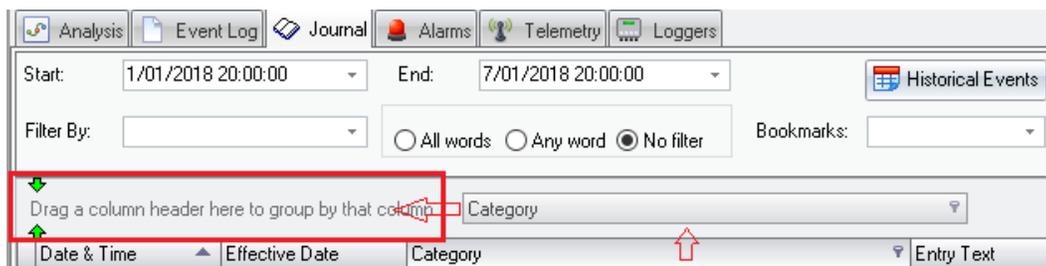
In this first release of HydroTel™ Version 5, the available options are generally as follows (although ongoing standardization will occur in future releases based on items perhaps missed or on user feedback):

All Grids

- **Column Rearrange/Sort.** The grid columns can be reordered and also the default sort column selected by dragging and dropping the column headers.
- **Best Fit menu.** A right-click pop-up menu invokes a "best fit column" action. The grid's column widths will be resized to attempt the best use of horizontal space based on the column header and cell text lengths.

Event Log, Comms Log, Journal, Grids

- **Integrated "Find" panel:** All these grids retain their previous filter tool which is separately coded. As a secondary option, the new grid's integrated find tool can be manually invoked. This is done by Ctrl-F when the grid has focus. It highlights each instance of the search term in the grid.
- **Group By Header:**
This allows the grid view to be condensed to show rows grouped by one or more index columns. In this example, the Journal Category column is being dragged up to become a group header for the grid.



New Site Creation from an FX logger Configuration

The previous site create / clone function is still supported. However, when creating a new site it is now possible to automatically create the objects and points from a logger configuration.

Welcome to the HydroTel Site Creation/Cloning Wizard

This wizard will guide you through the process of creating or cloning a site in HydroTel.

Cloning involves using most of the characteristics of an existing site to create the new one.

Creating a new site automatically can only be done from a valid HyQuest logger configuration
(Supported logger types: IRIS 150FX, IRIS 350FX, ICE3 FX, IRIS 270)

Select New Site Method

Clone from existing site 'IRIS270 Test CE'

Create from a HyQuest logger configuration

Click Next to continue.

Back Next Cancel

Comms Tasks

The loggers form now has all common tasks centralised on a single form instead of a set of separate action buttons on the main loggers form. This allows multiple comms operations to be selected (depending on logger type) and actioned in one go. It also supports a “windowed” retrospective unload over a defined time/date range.

Select Logger Comms Tasks

Unload Options

None

Standard Unload

Fetch Pointers from Device (initialises SOD and EOD)

Unload Recent Data (last 24 hours)

Unload Custom Time Range

Custom SOD/EOD

Start Date/Time: 13/02/2018 12:00:00

Retrieved SOD: 195072

End Date/Time: 14/02/2018 12:00:00

Retrieved EOD: 195568

Calculate SOD/EOD

Read Clock

Sync Clock

Request Configuration

Request Program Status

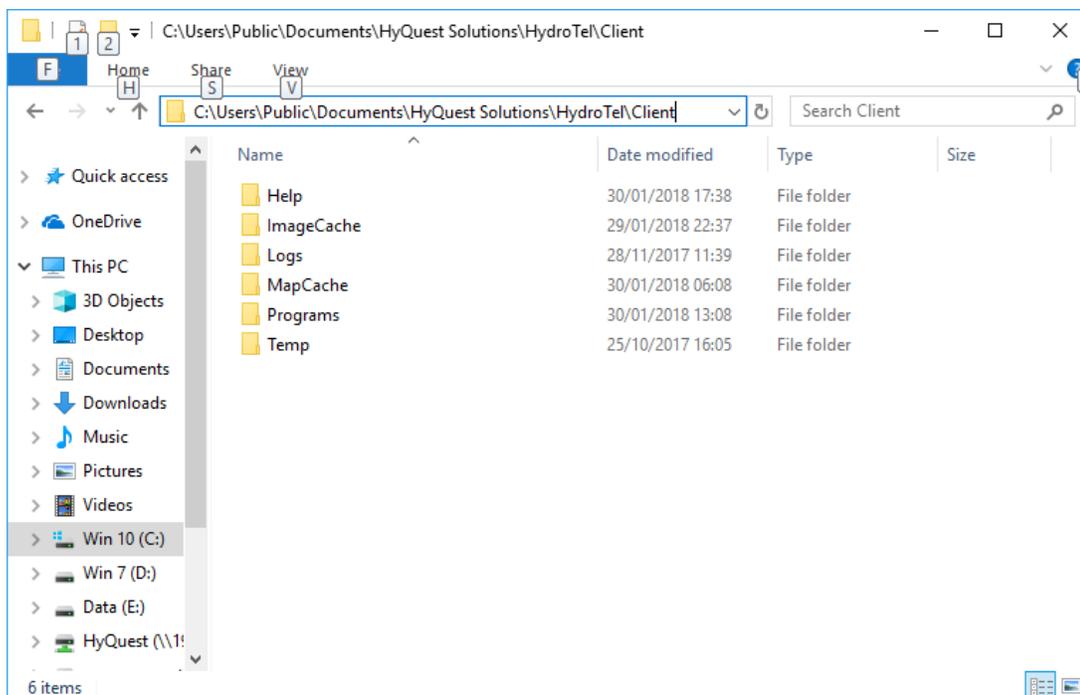
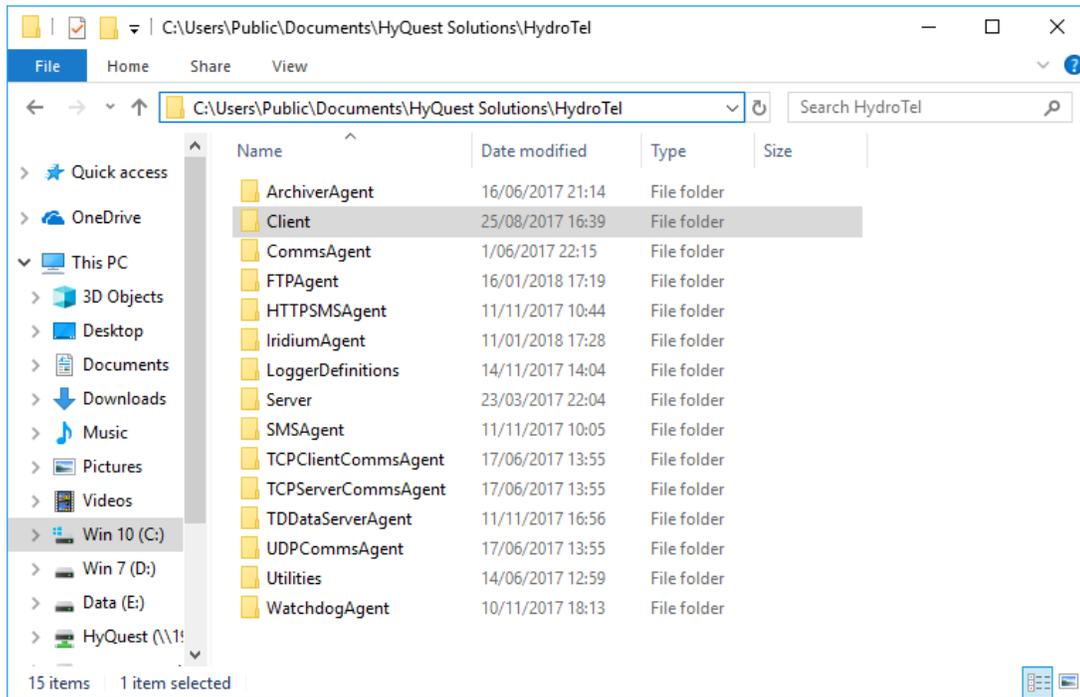
Accept Cancel

System Folders

To eliminate the ongoing issues with file access, Windows UAC and security, all files (log, dump, ini, scheme, table etc) are now located in a set of component specific folders under a common root folder on every machine running one or more HydroTel™ components. The root folder is: *C:\Users\Public\Documents\HyQuest Solutions\HydroTel*

The HydroTel™ V5 installer also adds a new environment variable %HYDROTEL% which maps to this root folder. This is useful in, for example batch files to minimize the length of paths.

The two screenshots show a typical HydroTel™ installation with the upper level sub-folders and then the client specific ones in the second screenshot.



Version 5.2018.1 – 13th February 2018

General Comments

All the changes listed below are enhancements and bug fixes carried over from Version 4.24 as well as Version 5 specific enhancements.

NOTE: This is the first release for the HydroTel™ Version 5 series.

Changes common to all components

- All components that create files (log, cache or temporary) store them in folders under Public Documents.
- New %HYDROTEL% environment variable maps to the root of the folder tree.

Client

New Features/Enhancements

- Allow comms log form to remain visible and allow normal client functionality to continue. iBETS 2025
- Added Last Sample Time column to Loggers->Associated Points grid. iBETS 2019.
- Changes to audit bar datum should be noted in the Change Log. iBETS 2039
- Object graphical plug-ins considerably simplified and enhanced. cpi_HydStandard replaces most of the single point plug-ins.
- Contacts / Rosters: Show rosters and alarms a contact is associated with. Users: Show the security group user is a member of. iBETS 904
- Security Groups – Changes to data access permissions now logged in the change log. iBETS 2074
- Client help file now automatically copied to correct place if newer version available.
- Installation date displayed in the client Help->About form.

Bug Fixes

- Unable to sort journal records (and some other grids) by clicking on the column headers. iBETS 2016
- User name in security users should not be directly editable in grid. iBETS 2001
- iRIS 150FX software size label shows a negative size. iBETS 2012
- Improve redraw and efficiency of large, multi-point objects when new point data is received. iBETS 2031
- SQL Reports grid columns don't auto-size in width to show all content. iBETS 1595
- Client may not start when accessed via a shared folder, but only on certain workstations. iBETS 2047
- Comms and event log queries can take considerable time with large record numbers. iBETS 690
- Some grids do not operate correctly or in compliance with expected Windows behaviour. Also check that search functionality is available where needed. iBETS 478
- Warn user if a schedule outside its valid date window when attempting to enable it. iBETS 2051
- Loggers tree icons don't always update automatically when logger status changes and so requires a manual refresh. iBETS 1593
- Settings "Default Group" and "Web Default Group" are not configurable in the Users form - there are no controls. iBETS 1965
- Security Groups – Prevent potential unexpected security group tree node visibility assignment. Also improved user interaction with the tree. iBETS 2069

Server

Bug Fixes

- Any unhandled exception in the data manager sample processing now treated as fatal. iBETS 2032
- Handle potential errors in custom equations to prevent data manager looping issues. iBETS 2040
- Change log reports logger status changes incorrectly. iBETS 2048

Comms Agents

Bug Fixes

- Unexpected repetitive unloads of parent iCE3 devices can cause excessive IP data traffic volumes and inefficient communications. iBETS 2021
- Standard comms agents should ignore Iridium interface types. iBETS 1932

SMS and HTTP SMS Agents

New Features/Enhancements

- Proxy server support added in HTTP SMS Agent. iBETS 1951

Bug Fixes

- Textback alarm acknowledgement should be allowed for Telemetry User role. iBETS 2062

FTP Agent

New Features/Enhancements

- Change notification from a single email recipient to a roster, in keeping with other agents. iBETS 1946
- Proxy server support added. iBETS 1962

Transfer Agent

New Features/Enhancements

- System Monitor configuration form parameter settings redesigned to make setup much easier. Now has separate import and export tabs with user configurable grids. iBETS xxxx
- Hilltop XML import. Add support for "mowsecs" date/time mode. iBETS 2070

Installer

Bug Fixes

- Dependent WSC32.dll file missing when only SMS Agent is installed. iBETS 1955
- Network client installation does not use remote folder designation. iBETS 19

Utilities / Miscellaneous

New Features/Enhancements

- Expanded System Status Report Generator to include a "System Catalogue" report section in the report. iBETS 1945

Bug Fixes

- HydImport exception if optional bypass flags are not included in command line parameters. iBETS 2092