Appendix: StateView/CWRAT Release Notes

Version 4.02.02, 2013-04-16

This appendix provides information about changes that have occurred in StateView/CWRAT versions.

StateView/CWRAT Version History

The following table summarizes the StateView/CWRAT release history. See the following section for more detailed information about each version. Recent release note items are categorized as follows:

Bug Fix – A bug has been fixed. Users should evaluate whether their work is impacted.

Known Limitation – A known limitation has been documented and may impact the user. The limitation may be addressed in a future release.

Change – An existing feature has been changed.

Remove – A feature has been removed.

New Feature – A new feature has been added, with functionality that was not previously available.

StateView/CWRAT Version History Summary (most current at top)

StateView/ CWRAT Version	Version Information	Release Date
04.02.02	Rebuild with current code libraries. Update to Java 1.6 release 33.	2013-04-16
04.02.01	Update to new version of installer software to support Vista and Windows 7 installs, maintenance updates.	2011-09-19
04.01.00	Update to Java 1.6, maintenance updates.	2010-01-20
04.00.00	Implement new software installer, support new SFUT(G) conventions in HydroBase.	2007-03-02
03.08.01	Carry forward daily diversions according to standard procedure. Fix sort order for WIS.	2006-04-27
03.08.00	Allow structures to be queried for bypass calls in CWRAT.	2006-01-23
03.07.00	Add water division to many tabular displays and allow queries for the entire database (entire state).	2005-11-15
03.06.07	Maintenance release.	2005-09-30
03.06.06	Maintenance release.	2005-08-16
03.06.05	Release that uses stored procedures; includes updates from previous review.	2005-08-04
03.06.04	Development releases for internal review…	2005-07-28
03.06.03		2005-07-20
03.06.02 BETA		2005-07-08
03.06.01 BETA		2005-06-28
03.06.00 BETA		2005-06-02
03.05.01		2004-12-01
03.05.00		2004-08-08
03.04.00		2004-07-28

StateView/ CWRAT Version	Version Information	Release Date
03.03.00	Begin supporting stored procedures.	2004-07-12
03.02.00		2004-06-09
03.01.00		2004-05-17
03.00.00 BETA		2004-01-11
02.09.00	First official release of CWRAT with diversion coding in Water Information Sheets, several other minor changes.	2003-04-17
02.08.00	Several updates to make map interface more intuitive, other corrections.	2002-08-19
02.07.00	Call graph uses now uses new plotting package.	2001-11-01
02.06.00	Implement new map interface.	2001-10-19
02.05.00	Finalize SQL Server support. Correct problem in synchronization to handle different versions of the database. Implement new plotting package.	2001-06-14
02.04.00	Internal release. Add support for SQL Server.	2001-04-05
02.03.00	First official release of the *View Data…Ground Water* menu displays. Make compatible with the new StateView application.	2000-07-24
02.02.00	Add diversion comments to structure summary. Update date queries to be compatible with INFORMIX update on server. Add preliminary support for well displays and make code compatible with View Data application.	2000-05-15
02.01.00	First major release using the new HydroBase 1999 design and Java 1.1.8. A number of enhancements and maintenance fixes have been implemented.	1999-09-08
02.00.00	Initial version using Java 2 technology.	1999-04-01
01.07.02	Add ability to select ODBC data source if using a local database.	1999-02-15
01.07.01	Add irrigation summary display for structures. Features have been updated to be compatible with recent database changes. Make a number of updates based on user feedback. Next planned release will be for Java 2.	1999-02-09
01.06.00	Minor enhancements to handle database changes for Special Project features. Other minor changes based on user feedback.	1998-10-16
01.05.00	Includes division query, `-login` option, maintenance fixes, and minor enhancements.	1998-08-31
01.04.00	Update before final training session.	1998-08-17
01.03.00	Internal release.	1998-08-01
01.02.00	Minor update – bug fixes and addition of user registration, *View Data…Other Data* display.	1998-06-08
01.01.00	Minor update created before first training session.	1998-05-18
01.00.00	First official release on web site.	1998-05-11
00.04.01b	Limited beta release with station and structure views.	1998-04-02
00.02.00b	First beta release to field.	1997-12-14
00.01.00b	Limited beta release.	1997-10-01
-	Start of development.	1997-06-01

Changes in 04.02.02 Release

- Change [4.02.02] Update Java version distributed with software to 1.6 release 33.
- Change [4.02.01] Maintenance update to use current code libraries.

Changes in 04.02.01 Release

- Change [4.02.01] Update installer to support Windows 7.
- Change [4.02.01] Maintenance release to use current code libraries.

Changes in 04.02.00 Release

- Bug Fix [4.02.01] Fixed problem where station view query parameters reset to defaults after each query.
- Change [4.02.00] Update the installer to support Vista and Windows 7. Separate installers are available for CWRAT and StateView.
- Change [4.02.00] A number of enhancements have occurred in other CDSS software that also benefit CWRAT/StateView. For example, performance of software related to irregular time series (e.g., infrequent reservoir and well data) has been improved.
- Remove [4.02.01] Remove Microsoft Access as a database connection choice since HydroBase has not been offered in Access format for years.
- New Feature [4.02.00] System information is now available from the help menu to facilitate troubleshooting.
- New Feature [4.02.00] Self-paced training materials for StateView now are included in the software installer and can be accessed from the help menu.

Changes in 04.01.00 Release

- Bug Fix [4.01.00] Fixed problem where structure irrigated parcels view was not displaying.
- Change [4.01.00] The Java Runtime Environment (JRE) was updated from version 1.4.2 to version 1.6 release 26, providing significant performance increases.
- New Feature [4.01.00] The PDF documentation can be viewed from the help menu.

Changes in 04.00.00 Release

- First release using the new software installer, to facilitate providing software to users.
- Support new HydroBase SFUT convention, where a *G:* field has been added and the *F:* includes the WD and ID (previously just the structure ID within the water district).
- Implemented some performance enhancements in the mapping component.
- Remove ***Use Stored Procedures*** checkbox from HydroBase login – it is the default.

Changes in 03.08.01 Release

- Enable carry forward logic for daily diversions, to match the results shown in standard reports. The data are still not by default supplemented with diversion comments or infrequent data – use TSTool if this processing is required.
- Fix bug in water information sheets where sheets were not being listed in the correct order by date.
- Other minor maintenance.

Changes in 03.08.00 Release

- Updated CWRAT to allow structure query for bypass calls.

Changes in 03.07.00 Release

- Added the "Div" column to many displays to allow data to be sorted on water division.
- Added the ability to query the entire state for major displays.

Changes in 03.06.07 Release

- Fix bug where daily diversion coding time series would by default be displayed through day 1 of the last month. The day was defaulting to 1 instead of the number of days in the month.
- The adjudication type in the transaction rights section of the structure summary now displays a concatenated list of multiple fields, as per traditional reports. The documentation has been updated to describe this.

Changes in 03.06.06 Release

- Fix minor problem in CWRAT copy call feature.

Changes in 03.06.05 Release

- Fix bug where editing the WIS would cause the subsequent opening to have all zeros for data. The data now carry forward from the previous sheet.
- Edits to time series products were not being saved to HydroBase.

Changes in 03.06.01 BETA through 03.06.04 Releases

- Many changes to support stored procedures and to reflect review comments.

Changes in 03.06.00 Release

- Implement input filters in main screens, with drop-down choices.

Changes in 03.05.01 Release

- Fix problem where HydroBase connections were not closing properly.
- Fix bug in diversion coding display where period was not being computed properly.

Changes in 03.05.00 Release

- Add map display for current streamflow conditions.

- Add summary map layer display.
- Enable selecting temperature and precipitation time series on the map, if the layers are enabled.

Changes in 03.04.00 Release

- Make minor corrections and synchronize documentation with software.

Changes in 03.03.00 Release

- Use stored procedures by default.

Changes in 03.02.00 Release

- Make an official release with updated features.

Changes in 03.02.00 Release

- Add the -usesp command line option to enable stored procedures for testing.
- Make an official release.

Changes in 03.01.00 Release

- Internal release to reflect review feedback.

Changes in 03.00.00 BETA Release

- Handle startup errors more gracefully.
- Add application name to title bar of all windows.
- Remove the **Administration** submenus: **Synchronize Data**, **Register User**, **HydroBase Administrator**.

Changes in 02.09.00 Release

- The legal location query builder used in some query windows listed Q10, Q40, Q160. This order was reversed and has been corrected.
- Fix so that well permit information, when exported to delimited format, contains location data.
- On-line documentation now refers to the PDF document.
- Fix bug where a well permit with a long comment was causing the well permit detail window to appear very wide.
- The progress bar on threaded queries had been mistakenly disabled in the previous release – it is not active again.

Changes in 02.08.00 Release

- If performing a map select in a query window and the map is not displayed – display it.
- Require that a box is used on the map to perform a select – a point select is not allowed.
- Add the water source for the net amounts water right display.
- Fix bug where the county was not being displayed correctly in the net amounts water right detail.

Changes in 02.07.00 Release

- The call graph now uses the same graphing package as other graphs. Fix a bug where some calls where not being plotted because administration numbers were not whole numbers.
- If the map interface is disabled, the main window size now returns to the original size.

Changes in 02.06.00 Release

- A new map-based interface has been implemented and will be phased in as GIS data are made available. The map interface is activated by selecting a GeoView Project (.*gvp*) file in the **Map** tab of the preferences window.
- A number of enhancements have been made to increase performance.

Changes in 02.05.00 Release

- Finish adding support for SQL Server for WIS, real-time data synchronization, and calls.
- Fix limitation where local and remote databases needed to be the same version. Synchronization will now work between different database versions (for the versions that are in common use today).
- A new time series plotting tool has been implemented where appropriate. This is the same tool used in **TSTool**. This tool allows graph, tabular, and summary report views of one or more time series, with zoom capabilities. More descriptive legends and plot titles have also been added. The tool has not been implemented for the call chronology but has been implemented for all other plots. Performance should also be faster.
- Features that were not implemented due to technical or budget limitations have been eliminated from the interface rather than remaining as disabled menus and buttons.
- The **File…DataBase Information** dialog has been rearranged to show all database revision information.
- Where lists are used, effort has been made to enable multiple selects using standard Windows conventions (**click** selects one item, **Ctrl-click** selects additional, **Shift-click** selects all since previous selection.
- The **Communications…Synchronize Data…Synchronize Satellite Data** features have been updated to work with SQL Server. Multiple stations can be added to the synchronize preferences in one step and any stations that are duplicates are ignored. Multiple stations can now be deleted from the synchronization list. The list of stations to be synchronized is now shown with station identifier and name.
- The **Communications…Synchronize Data…Synchronize WIS** features have been updated to work with SQL Server.
- The **Communications…Synchronize Data…Synchronize Special Projects** features have been updated to work with SQL Server.
- The **Communications…Synchronize Data…Synchronize Calls** features have been updated to work with SQL Server.
- The **Communications…Synchronize Data…User Preferences** features have been updated to work with SQL Server.
- The **View Data…Ground Water…** well measurement list now includes the datum elevation and the datum is included in graph legends.
- The **View Data…Other Data…** crop characteristics report has been expanded to include new database information.
- The **View Data…Other Data…** crop growth characteristics report has been renamed **Consumptive Use Method Data** and provides output specific to each CU method.

- The **View Data…Stations** display now refreshes the list when a query criteria changes. A number of data types were previously listed with incorrect data types (e.g., daily precipitation was changed from average to total). A warning has been added for the table view for cases where the display may be slow.
- The **View Data…Structures** display has been updated. Previously a **Time Series** view was available for diversions and reservoirs. This has been renamed **Structure Source/From/Use/Type** to recognize that the time series are mainly diversion records. The dialog used to select time series has been changed from check boxes to a list and the limitation of 15 time series displayed has been removed. Time series are displayed using the new tool previously mentioned. There have been some minor changes to the appearance of some displays.
- The **Tools** menu has been enabled for both **CWRAT** and **StateView**, with StateView having the **Administration Number Calculator** and **Time Series Plot** available.
- The **Tools…Administration Number Calculator** tool now has a graph button to graph whole administration numbers versus appropriation date. The minimum (0) and maximum (99999) values are plotted as end points. This is useful as a general reference.
- The **Tools…Time Series Plot** tool now uses the new graphing package previously described. The **Delete** keyboard key has been enabled to delete rows from the template. The **Delete** keyboard key has also been enabled to the template load dialog to delete templates completely. The wizards to add rows now clearly indicate that multiple time series from a list can be selected. The advanced plotting method has been updated to have clearer instructions to help guide the setup of the information.
- The **Preferences…Options…Water District Filter** tab now provides Windows-like shift/ctrl/click capabilities for the district list. The districts are also labeled with the division number.

Changes in 02.04.00 Release

- The majority of the application was updated to be compatible with the new SQL Server central database. Only data synchronization and WIS were not updated.

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