



## MultiView 2.0/2.02/2.03/2.04/2.05 - What's New 09-06-2006

### New in Version 2.0 (5-17-2003)

Congratulations on choosing MultiView 2.0 for your SCADA and data acquisition system. Here's what's new in version 2.0:

1. **Upgraded installer:** MultiView 2.0 installer will search the hard disk for previous versions (1.00 to 1.21) of the software before installing version 2.0. Previous versions of the software will be replaced with version 2.0 files. Older versions of data and setup files will remain untouched. Data files from previous versions are compatible with version 2.0. Previous version setup, recipe and tuning files are not compatible with MultiView version 2.0 since all files in version 2.0 are encrypted for tamperproof operation. MultiView will alert the user if a setup file is not compatible with the current version of software.
2. **New communications server:** The new communications server is a threaded server that allows communications speeds of 60ms per controller. Since the server is "Threaded", communications errors will not cause the computer to "hang" or "stick". Since the server is "built in", communications can not be interrupted accidentally by closing a server from the task bar.
3. **New Communications error routines:** Communication error routines have been updated to filter out miscellaneous or nuisance communications errors. Errors will only be reported if the controller sees a continuous problem at the control level.
4. **1/16 DIN profiler support:** MultiView now supports interface with our new 300 series profiler. Profiles can be created, saved, uploaded, downloaded and viewed in a graphical trend format at the click of mouse.
5. **Single Setpoint Recipes:** Single setpoint recipes allow the user to adjust the setpoint of multiple controls on the link with one mouse click. Recipes can be created, saved and downloaded from the software interface.
6. **New Data Save:** Any tag name created by the user can be selected for save to the data file. Process value, Setpoint and percent output for each controller can be selected.
7. **New Controls Setup dialog:** Control tag names can now be assigned to controller process value, controller setpoint and controller percent output.
8. **New Error Logger:** The new MultiView logger allows the user to monitor any type of communication problem the system encounters during normal operation. Logs can be saved to disk for later viewing or trouble shooting.
9. **New Alarm Logger:** The alarm logger now indicates the activation of alarm#1 or alarm#2 for each controller. All alarms can be acknowledge or cleared from the alarm logger toolbar. Alarm silence has been added to alarm logger toolbar.
10. **All Files Are Encrypted:** All MultiView files (data, setup, recipe, tuning, etc..) are encrypted for tamperproof operation.
11. **New buttons and Toolbars:** Dialog boxes and windows include new buttons and toolbars to make the user interface more "intuitive" and easy to use for the user.
12. **New Faceplate Windows:** Control faceplate windows will automatically update when a 300 series profiler is selected at a controller address. Buttons for start, hold and stop profile as well as current segment will be displayed.
13. **New Tuning Dialog:** New tuning dialog can be resize like any "child" window to maximize the view while tuning a controller. All window and user setting are automatically saved when window is closed.

14. **Adjustable Trend Line Widths:** Can now be set for any real time or historical trend. Line width settings make it easier for the user to differentiate between multiple tag names plotted on a trend.
15. **New Historical Plot Functions:** "Shift" clicking has been added to the historical data viewer. Discontinuous cells of data can now be plotted. Max and min times as well as values are automatically calculated when selected by the user even if the number of cells or columns are not the identical. Plotting can also be cancelled when large volumes of data have been selected for plotting rather than waiting until the historical plot is completed.
16. **Sound For Comms Problems and Alarms:** The user has control over the identification of communications problems or alarm indication via a computer beep that can be used as an "alert" at the computer level.

## New in Version 2.0.2 (11-6-2003)

1. **Interface to FDC custom controller:** MultiView now support the FDC customer controller. This is a PLC based controller with up to 14 analog inputs that can be used for control or Data acquisition applications.
- 2.) **New resizable windows for user:** All MultiView windows that are not modal (modal windows require a response from the user before continuation) can be resized based on user preferences. All windows will remember their size and position next time the software is started.

## New in Version 2.0.3 (7-2-2004)

1. **New Faceplate Designs:** New faceplates are larger for user viewing. Auto-tune for each controller is accessible from each controller faceplate rather than tune mode only. New control faceplates provide viewing at a greater distance from the PC monitor and enhanced functionality.
- 2.) **PV and SP faceplate in Tune mode:** Users now have a control faceplate for each controller while in tune mode. SP can be changed during tune response tests.
- 3.) **New controls type for FDC Sterilizer and FDC custom:** Sterilizer support adds faceplate status for sterilizer SP change, status and time remaining. 12 additional temperature sensors can be monitored and data logged per sterilizer.
- 4.) **Tuning support for 300 series profilers:** 300 series profilers can be tuned, plotted and auto-tuned via the tuning window.
- 5.) **Bug Fixes:** Y scale tracking from active trend while entering trend setup will now accurately track the current Y.min and y.max values when trend setup is entered from any trend.

## New in Version 2.0.4 (8-26-2004 Custom version for sterilizers)

- 1.) Colors and widths for all trends are now adjustable during trend setup. In the past only the real time trend was adjustable for width and color. You can now adjust the color of each channel and the width for the tune and history plot. History will plot more than 12 points but Multiview will allow you to adjust the first 12. This is good when you are making the background light for printing and want to make the channels color dark to show up on a white background.
- 2.) FDC sterilizer choice now includes Sterilizer setpoint from PLC. The order of the additional tags are: Tagname 1 = Sterilizer setpoint. Tagnames 2 through 12 = RTD/TC inputs 2 through 11. We can only do 11 sensors extra with this addition.
- 3.) Alpha or numeric character added to batch and lot numbers entries during data log start.
- 4.) Addition of sterilizer trend under the trend menu. This trend will not show up unless you have a sterilizer attached to address 0 (first slot under controller selection under controller setup). If a sterilizer is attached you can access this trend. This trend is good for only one sterilizer per system but you can still add 300 series or profilers to MultiView when using the sterilizer.

- 5.) Sterilizer trend keeps track of sterilizer status. When the sterilizer is started, the heading of the trend will show the current batch#, Lot# and sterilizer setpoint. Start time of sterilizer will be show at the bottom of the trend under the time scale.
- 6.) You can assign any points to this trend like the normal trends. When the sterilizer is stopped or completed, the datalogger will be stopped, the complete time assigned to the bottom of the trend and the batch, lot and sterilizer temp will be assigned again to the top of the trend (in case the data file was not running when the sterilizer was started). The trend will then auto print to the printer.
- 7.) Main MDI window set to maximize always on startup for easy view of all windows
- 8.) PlotHisdData function now checks for null data in file so no empty values will be added to history grid.

**Notes for Sterilizer Trend:** FDC recommends setting the trend bg color to white and the trend colors to darker colors so they print well. The headings for batch, lot, start and finish time will be the same color as the user selects for the Xaxis(min/max reading value) . Size the trend for a large part of the screen so it prints correctly because if you squeeze it down too much the print data cannot fit.

The neat thing about this trend is that you can drag it to cover a large part of the screen, set it up for the sterilize time and colors and then minimize the trend (you dont need to even see it) and it still works properly. Whenever the sterilizer starts a new run, the trend clears it's previous data and start from scratch on the left side of the time scale.

## **New in Version 2.0.5 (09-06-2006)**

1. **Encryption controls update:** Encryption controls updated for WindowsXP SP2 live updates. Newest XP updates created issues with registration of encryption controls. 2.0.5 update corrects problem.
2. **Real time and sterilizer trend update:** Trend widths for real time trends are saved when any real time trend or sterilizer trend window is closed.
3. **Alarm Log update:** Alarm log file is created only if enabled in controller setup. If not enabled in controller setup, alarm log file will not be created (files created on per day basis) and alarms will not be written to log.