

Productivity^{3000™}

Software Overview

by Product Manager Jeff Payne
Part 2 of 4

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00:10.00 – Tag Name Database – Customize Screen Columns

01:49.24 – Tag Name Database – Filtering Data Types for Viewing

03:10.26 – Data View Window

05:44.05 – Task Management Panel



Customize Tag Name Database Screen Columns.

- Select columns to view
- Adjust column order
- Adjust column widths

- Auto resize column
- Auto resize all columns
- Sort Ascending
- Sort Descending
- Unsort
- Unsort All
- Choose Columns...
- Name
- Type
- System ID
- Rows
- Cols
- Num Chars
- Retentive
- Init Value
- Wire Label
- Mod Start
- Mod End
- Forceable
- Init Forced
- Init Force Value
- Comment
- Default Format
- In Use

Productivity Suite Programming Software, Version 1.3.0 (13) [Video project1_9.2.2010.adpro]

File Edit Tag Database

Tags to show in the Editor

Show All Invert

Discrete Inputs Analog Inputs Integers System Data Booleans

Discrete Outputs Analog Outputs Floats Strings <center text>

Editor

Name	Type	Retentive	Init Value	Forceable	Init Forced	Init Force Va...	Default Format	In Use	Syste...
2nd Or	Boolean	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input checked="" type="checkbox"/>	C-000...
Third Contact	Boolean	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input checked="" type="checkbox"/>	C-000...
3rd Or	Boolean	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input checked="" type="checkbox"/>	C-000...
3rd Relay	Boolean	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input checked="" type="checkbox"/>	C-000...
Relay #3	Boolean	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input checked="" type="checkbox"/>	C-000...
Furnace #1.Auto	Boolean	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input checked="" type="checkbox"/>	C-000...
Newtag1	Boolean	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input checked="" type="checkbox"/>	C-000...
Newtag2	Boolean	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input checked="" type="checkbox"/>	C-000...
Newtag3	Boolean	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input checked="" type="checkbox"/>	C-000...
Newtag4	Boolean	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input checked="" type="checkbox"/>	C-000...
Newtag5	Boolean	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input checked="" type="checkbox"/>	C-000...
Newtag6	Boolean	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input checked="" type="checkbox"/>	C-000...
Newtag7	Boolean	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input checked="" type="checkbox"/>	C-000...
Newtag8	Boolean	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input checked="" type="checkbox"/>	C-000...
Newtag9	Boolean	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	C-000...
Newtag10	Boolean	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	C-000...
Newtag11	Boolean	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	C-000...
Newtag12	Boolean	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	C-000...
Newtag13	Boolean	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	C-000...
Newtag14	Boolean	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	C-000...

Pro Choose Columns to Display

Name

Type

System ID

Rows

Cols

Num Chars

Retentive

Init Value

Wire Label

Mod Start

OK Cancel

Add Tags Delete Tags Reset Table Help

User No Security Task Main Control Rung 1 Column 1 PAC USB 2.0(AutoTalk... Project File Status Saved PAC Project Status Up to Date Run Time Transfer Available PAC Data Forced



Tag Name Database – Filtering Data Types for Viewing.

- Show individual data types
- Show all data types
- Invert data types shown
- View by tag name(s)

Productivity Suite Programming Software, Version 1.3.0 (13) [Video project1_9.2.2010.adpro]

File Edit Setup PAC Tools Window Help

Offline Online Choose PAC Run Stop Debug

Tag Database

Tags to show in the editor

Show All Invert

Discrete Inputs Analog Inputs Integers System Data Booleans
 Discrete Outputs Analog Outputs Floats Strings

Editor

Name	Type	Retentive	Init Value	Forceable	Init Forced	Init Force V...	Default Format	In Use	Syste...
CT1.cv	Float, 32 Bit	<input checked="" type="checkbox"/>	0.0	<input type="checkbox"/>	<input type="checkbox"/>	0.0		<input checked="" type="checkbox"/>	F32-00...
Wavey1	Float, 32 Bit	<input checked="" type="checkbox"/>	0.0	<input type="checkbox"/>	<input type="checkbox"/>	0.0		<input checked="" type="checkbox"/>	F32-00...
wavey1.90	Float, 32 Bit	<input type="checkbox"/>	0.0	<input type="checkbox"/>	<input type="checkbox"/>	0.0		<input checked="" type="checkbox"/>	F32-00...
wavey1.180	Float, 32 Bit	<input type="checkbox"/>	0.0	<input type="checkbox"/>	<input type="checkbox"/>	0.0		<input checked="" type="checkbox"/>	F32-00...
scale1	Float, 32 Bit	<input type="checkbox"/>	0.0	<input type="checkbox"/>	<input type="checkbox"/>	0.0		<input checked="" type="checkbox"/>	F32-00...
scale1.180	Float, 32 Bit	<input type="checkbox"/>	0.0	<input type="checkbox"/>	<input type="checkbox"/>	0.0		<input type="checkbox"/>	F32-00...
scales1.90	Float, 32 Bit	<input type="checkbox"/>	0.0	<input type="checkbox"/>	<input type="checkbox"/>	0.0		<input type="checkbox"/>	F32-00...
nScale	Float, 32 Bit	<input checked="" type="checkbox"/>	1.2	<input type="checkbox"/>	<input type="checkbox"/>	0.0		<input checked="" type="checkbox"/>	F32-00...
nLength.pre	Float, 32 Bit	<input type="checkbox"/>	0.0	<input type="checkbox"/>	<input type="checkbox"/>	0.0		<input checked="" type="checkbox"/>	F32-00...
appOFF	Float, 32 Bit	<input type="checkbox"/>	0.0	<input type="checkbox"/>	<input type="checkbox"/>	0.0		<input checked="" type="checkbox"/>	F32-00...

Add Tags Delete Tags

Reset Table Help

Disable Task

User No Security Task Main Control Rung 1 Column 1 PAC USB 2.0(AutoTalk... Project File Status Saved PAC Project Status Up to Date Run Time Transfer Available PAC Data Forced

Tag Database

Tags to show in the editor

Show All Invert

Discrete Inputs Analog Inputs Integers System Data Booleans
 Discrete Outputs Analog Outputs Floats Strings

logd

Editor

Name	Type	Retentive	Init Value	Forceable	Init Forced	Init Force V...	Default Format	In Use	Syste...
Logdata	Boolean	<input type="checkbox"/>		<input checked="" type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	C-000...



Data View Window.

- Select 'Data View' under 'Monitor & Debug' in the Application Tools window.
- Used for troubleshooting and commissioning control systems.
- Tool to view and edit any Tag Name.
- Allows Forcing Tag Names.
- Can have multiple tabs to setup different groups of Tag Names.
- Saved with your project for future usage.

The screenshot shows the 'Data View' window in the Productivity Suite Programming Software. The window title is 'Data View' and it contains a table of tag data. The table has the following columns: Tagname, Modbus Address, Value, Edit, Force, Tag Data Type, and View As. The data is as follows:

Tagname	Modbus Address	Value	Edit	Force	Tag Data Type	View As
Wavey1		-8.71557	0.0	<input type="checkbox"/>	Internal (Float)	No Option
wavey1.90		99.6195	0.0	<input type="checkbox"/>	Internal (Float)	No Option
CT1.cv		355.0	359.9	<input type="checkbox"/>	Internal (Float)	No Option
namplitude		120	20	<input type="checkbox"/>	S32 (Integer)	Decimal
call Sine		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Internal (Boolean)	No Option
call scale		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Internal (Boolean)	No Option
scale1		120.0	1.2	<input type="checkbox"/>	Internal (Float)	No Option
nScale		1.2	1.2	<input type="checkbox"/>	Internal (Float)	No Option
nLength.pre		0.5	0.1	<input type="checkbox"/>	Internal (Float)	No Option
Avg Scan Interval [...]		7	0	<input type="checkbox"/>	System 16 (Integer)	Decimal
Logdata		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Internal (Boolean)	No Option

The interface also shows the 'Application Tools' window on the left with 'Monitor & Debug' selected, and the 'Task Management' window at the bottom. The status bar at the bottom indicates 'PAC Data Forced'.



Task Management Panel.

- Five Folders that allow the user to organize their project into various sections and control how each section will be executed.
- Run First Scan Only used to initialize bits and words.
- Run Every Scan normally used for main project.
- Run Every Second used to slow down results for troubleshooting.
- Run When Called for subroutines.

The screenshot displays the 'Productivity Suite Programming Software, Version 1.3.0 (13) [Video project1_9.2.2010.adproj]'. The interface includes a menu bar (File, Edit, Setup, PAC, Tools, Window, Help), a toolbar with icons for Offline, Online, Choose PAC, Run, Stop, and Debug, and a main workspace for editing a 'Main Control' ladder logic program. The workspace shows a rungs ladder with logic involving 'call Sine', 'call scale', 'Always Off Bit', and 'Fumace #1.Auto'. A 'Task Management' panel is open on the left, showing a tree view of tasks: 'Run First Scan Only', 'Run Every Scan', 'Main Control', 'Display', 'Run Every Second', 'Toggle Output', 'Run When Called', 'Sine Wave', 'Scale Amplitude', and 'Disable Task'. A red arrow points to the 'Main Control' task. On the right, there are panels for 'Instructions', 'Contacts', 'Coils', and 'Application Function'.



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Thank you!