

ModbusTCPtest

FACTORYTALK VIEW APPLICATION DOCUMENTATION

May 14, 2024

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ModbusTCPtest

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1 MODBUSTCPTEST

| <u>Name</u> | <u>Description</u> |
|---------------|--|
| ModbusTCPtest | Test application for MODBUS TCP server |

1.1 MODBUSTCPTEST

| <u>Properties</u> | <u>Value</u> |
|----------------------------|---|
| Name | ModbusTCPtest |
| Description | |
| Project file | C:\Users\Public\Documents\RSView Enterprise\ME\HMI Projects\ModbusTCPtest |
| Number of displays | 4 |
| Licensed maximum | 500 |
| Number of Replace displays | 1 |
| Number of On Top displays | 3 |

1.1.1 SYSTEMS

1.1.1.1 Systems\Project Settings

1.1.1.1.1 General

| <u>Option</u> | <u>Selection</u> |
|-------------------------------------|------------------|
| Project window size | 1280*800 |
| Width | 1280 |
| Height | 800 |
| Compact Machine Edition application | NO |

1.1.1.1.2 Runtime

| <u>Option</u> | <u>Selection</u> | <u>Content</u> |
|-------------------------------|------------------|----------------|
| Title Bar | NO | |
| Border | NO | |
| Control Box | NO | |
| Minimize button | NO | |
| Project window position: Top | 0 | |
| Project window position: Left | 0 | |
| Enable auto logout | NO | |
| Inactivity period (minutes) | 0 | |
| Return to display on logout | NO | |
| Parameter file for graphic | NO | |
| Parameter list for graphic | NO | |

1.1.1.1.3 Inactivity

| <u>Option</u> | <u>Selection</u> | <u>Content</u> |
|---|------------------|----------------|
| Enable advanced inactivity actions | NO | |
| Log out the current user after an inactivity period | NO | |
| Literal value | YES | 0 |
| Controlled by tag | NO | |
| Navigate to a display after an additional delay | NO | |
| Literal value | YES | 0 |
| Controlled by tag | NO | |
| Navigate to display | | |
| Parameter file for graphic | YES | |
| Parameter list for graphic | NO | |
| Inactivity time remaining(secs) | | |
| Inhibit inactivity actions | | |

1.1.1.1.4 Tags used by Component

| <u>Tag Name</u> | <u>Tag Type</u> | <u>Tag Description</u> |
|-----------------|-----------------|------------------------|
|-----------------|-----------------|------------------------|

1.1.1.2 Systems\GlobalConnections

1.1.1.2.1 General

| <u>Option</u> | <u>Selection</u> |
|--|------------------|
| Date and time output interval(seconds) | 60 |
| Maximum update rate | 100 millisecond |

1.1.1.2.2 Connection

| <u>Connection</u> | <u>Tag or Expression</u> |
|----------------------------|--------------------------|
| Replace Display Number | |
| Display Print Active | |
| Year | |
| Day of Week | |
| Month | |
| Day of Month | |
| Hour | |
| Minute | |
| Second | |
| Remote Display Number | |
| Remote Display Print | |
| Remote Date and Time | |
| Remote Year | |
| Remote Month | |
| Remote Day of Month | |
| Remote Hour | |
| Remote Minute | |
| Remote Second | |
| Remote Backlight Intensity | |
| Remote Macro1 | |
| Remote Macro2 | |
| Remote Macro3 | |
| Remote Macro4 | |

Connection

Tag or Expression

Remote Macro5
MERuntime RAM Usage
Total RAM Usage
Available RAM
Remote RAM Usage
Close an On Top Display
Close All On Top Displays
Parameter File
Use Parameter List
Parameter Tag #1:
Parameter Tag #2:
Parameter Tag #3:
Parameter Tag #4:
Parameter Tag #5:
Parameter Tag #6:
Parameter Tag #7:
Parameter Tag #8:
Parameter Tag #9:
Parameter Tag #10:

1.1.1.2.3 Tags used by Component

Tag Name

Tag Type

Tag Description

1.1.1.3 Systems\Startup

1.1.1.3.1 Start when project is run

| Option | Selection | Content |
|--|-----------|---------|
| Alarms | YES | |
| Information messages | YES | |
| Audit trail | NO | |
| Data logging | NO | |
| Startup macro | NO | |
| Shutdown macro | NO | |
| Initial graphic | YES | MAIN |
| Parameter file for the initial graphic | YES | |
| Parameter list for the initial graphic | NO | |

1.1.1.3.2 Tags used by Component

Tag Name

Tag Type

Tag Description

1.1.2 TAG DATABASE

1.1.2.1 Tags\Tag List

1.1.2.1.1 Summary

| Option | Total number |
|---------------------|--------------|
| Tags | 17 |
| Device tags | 0 |
| Device analog tags | 0 |
| Device digital tags | 0 |
| Device string tags | 0 |
| Memory tags | 0 |
| Memory analog tags | 0 |
| Memory digital tags | 0 |
| Memory string tags | 0 |

1.1.2.1.2 Analog Tag List

| Tag Name | Tag Type | Tag Description | Minimum | Maximum | Data Source | Initial Value | Retentive | Address | Scale | Offset | Data Type |
|-------------------------------|-------------|---------------------------------|---------|---------------|-------------|---------------|-----------|---------|-------|--------|------------------|
| system\ DateAndTimeInteger | Analog Tags | System date and time integer | 0.00 | 2147395600.00 | System Tag | -- | -- | -- | 1.00 | 0.00 | Long Integer |
| system\DayOfMonth | Analog Tags | Day of Month | 1.00 | 31.00 | System Tag | -- | -- | -- | 1.00 | 0.00 | Unsigned Integer |
| system\DayOfWeek | Analog Tags | Day of Week (Sunday = 1) | 1.00 | 7.00 | System Tag | -- | -- | -- | 1.00 | 0.00 | Unsigned Integer |
| system\DayOfYear | Analog Tags | Day of Year | 1.00 | 366.00 | System Tag | -- | -- | -- | 1.00 | 0.00 | Unsigned Integer |
| system\Hour | Analog Tags | Hour of day (0 - 23) | 0.00 | 23.00 | System Tag | -- | -- | -- | 1.00 | 0.00 | Unsigned Integer |
| system\Minute | Analog Tags | Minutes (0 - 59) | 0.00 | 59.00 | System Tag | -- | -- | -- | 1.00 | 0.00 | Unsigned Integer |
| system\Month | Analog Tags | Month | 1.00 | 12.00 | System Tag | -- | -- | -- | 1.00 | 0.00 | Unsigned Integer |
| system\Second | Analog Tags | Seconds (0 - 59) | 0.00 | 59.00 | System Tag | -- | -- | -- | 1.00 | 0.00 | Unsigned Integer |
| system\Year | Analog Tags | Year | 0.00 | 32000.00 | System Tag | -- | -- | -- | 1.00 | 0.00 | Unsigned Integer |

1.1.2.1.3 Digital Tag List

| Tag Name | Tag Type | Tag Description | Data Source | Initial Value | Retentive | Address |
|------------------|--------------|----------------------|-------------|---------------|-----------|---------|
| system\BlinkFast | Digital Tags | Changes every 100 ms | System Tag | -- | -- | -- |
| system\BlinkSlow | Digital Tags | Changes every 500 ms | System Tag | -- | -- | -- |

1.1.2.1.4 String Tag List

| Tag Name | Tag Type | Tag Description | Length | Data Source | Initial Value | Retentive | Address |
|--|-------------|---|--------|-------------|---------------|-----------|---------|
| system\ AlarmResetDateAndTimeString | String Tags | Date and time string of last Alarm Status reset | 48 | System Tag | -- | -- | -- |
| system\Date | String Tags | System date string | 48 | System Tag | -- | -- | -- |
| system\DateAndTimeString | String Tags | System date and time string | 48 | System Tag | -- | -- | -- |
| system\MonthString | String Tags | Month as string | 48 | System Tag | -- | -- | -- |
| system\Time | String Tags | System time string | 48 | System Tag | -- | -- | -- |
| system\User | String Tags | Currently logged on User | 82 | System Tag | -- | -- | -- |

1.1.3 GRAPHICS

1.1.3.1 Graphics\Displays

1.1.3.1.1 Graphics\Displays\MAIN



1.1.3.1.1.1 Graphics|MAIN|Display Settings|General

| Option | Selection |
|-----------------------------|--------------|
| Display Type | Replace |
| Display Number | 1 |
| Security Code | * |
| Disable Initial Input Focus | NO |
| Maximum Tag Update Rate | 0.10 seconds |
| Background Color | 0xFFFFFFFF |
| Use Gradient Style | NO |

1.1.3.1.1.2 Graphics|MAIN|Display Settings|Behavior

| Option | Selection |
|---|-----------|
| Startup Command | |
| Shutdown Command | |
| Disable Highlight When Object has Focus | NO |
| Highlight Color of Objects with Input Focus | 0x00FF00 |

1.1.3.1.1.3 Animated Display Objects

| Object Name | Grouping | X | Y | Property | Expression |
|------------------------|----------|------|-----|--|--|
| StringDisplay1 | | 880 | 460 | String Display: Connections: Value | {[ModbusTest]Client_01_Parameters.DestAddress} |
| MomentaryPushButton1 | | 1010 | 620 | Momentary Push Button: Connections: Value | {[ModbusTest]Client_01.Inp_Enable} |
| StringDisplay3 | | 1010 | 560 | String Display: Connections: Value | {[ModbusTest]Client_01.Sts_Connected} |
| StringDisplay2 | | 1010 | 510 | String Display: Connections: Value | {[ModbusTest]Client_01_Parameters.LocalSlot} |
| MaintainedPushButton33 | | 660 | 710 | Maintained Push Button: Connections: Value | {[ModbusTest]Client_01_Data.Coils_0xxx[28]} |
| MaintainedPushButton32 | | 660 | 660 | Maintained Push Button: Connections: Value | {[ModbusTest]OUT_4} |
| MaintainedPushButton31 | | 660 | 610 | Maintained Push Button: Connections: Value | {[ModbusTest]OUT_4} |
| MaintainedPushButton30 | | 660 | 560 | Maintained Push Button: Connections: Value | {[ModbusTest]OUT_4} |
| MaintainedPushButton29 | | 660 | 510 | Maintained Push Button: Connections: Value | {[ModbusTest]OUT_4} |
| MaintainedPushButton28 | | 660 | 460 | Maintained Push Button: Connections: Value | {[ModbusTest]OUT_3} |
| MaintainedPushButton27 | | 660 | 360 | Maintained Push Button: Connections: Value | {[ModbusTest]OUT_1} |
| MaintainedPushButton26 | | 660 | 410 | Maintained Push Button: Connections: Value | {[ModbusTest]OUT_2} |

| Object Name | Grouping | X | Y | Property | Expression |
|------------------------|----------|-----|-----|--|--|
| MaintainedPushButton25 | | 410 | 710 | Maintained Push Button: Connections: Value | {{[ModbusTest]OUT_4}} |
| MaintainedPushButton24 | | 410 | 660 | Maintained Push Button: Connections: Value | {{[ModbusTest]OUT_4}} |
| MaintainedPushButton23 | | 410 | 610 | Maintained Push Button: Connections: Value | {{[ModbusTest]OUT_4}} |
| MaintainedPushButton22 | | 410 | 560 | Maintained Push Button: Connections: Value | {{[ModbusTest]OUT_4}} |
| MaintainedPushButton21 | | 410 | 510 | Maintained Push Button: Connections: Value | {{[ModbusTest]OUT_4}} |
| MaintainedPushButton20 | | 410 | 460 | Maintained Push Button: Connections: Value | {{[ModbusTest]OUT_3}} |
| MaintainedPushButton19 | | 410 | 360 | Maintained Push Button: Connections: Value | {{[ModbusTest]OUT_1}} |
| MaintainedPushButton18 | | 410 | 410 | Maintained Push Button: Connections: Value | {{[ModbusTest]OUT_2}} |
| MaintainedPushButton17 | | 160 | 710 | Maintained Push Button: Connections: Value | {{[ModbusTest]OUT_4}} |
| MaintainedPushButton16 | | 160 | 660 | Maintained Push Button: Connections: Value | {{[ModbusTest]OUT_4}} |
| MaintainedPushButton15 | | 160 | 610 | Maintained Push Button: Connections: Value | {{[ModbusTest]OUT_4}} |
| MaintainedPushButton14 | | 160 | 560 | Maintained Push Button: Connections: Value | {{[ModbusTest]OUT_4}} |
| MaintainedPushButton13 | | 160 | 510 | Maintained Push Button: Connections: Value | {{[ModbusTest]OUT_4}} |
| MaintainedPushButton12 | | 160 | 460 | Maintained Push Button: Connections: Value | {{[ModbusTest]OUT_3}} |
| MaintainedPushButton11 | | 160 | 360 | Maintained Push Button: Connections: Value | {{[ModbusTest]Client_01_Data.Coils_0xxx[5]}} |
| MaintainedPushButton10 | | 160 | 410 | Maintained Push Button: Connections: Value | {{[ModbusTest]OUT_2}} |
| MaintainedPushButton9 | | 160 | 220 | Maintained Push Button: Connections: Value | {{[ModbusTest]OUT_4}} |
| MaintainedPushButton8 | | 160 | 170 | Maintained Push Button: Connections: Value | {{[ModbusTest]OUT_3}} |
| MaintainedPushButton7 | | 160 | 70 | Maintained Push Button: Connections: Value | {{[ModbusTest]OUT_1}} |
| MaintainedPushButton6 | | 160 | 120 | Maintained Push Button: Connections: Value | {{[ModbusTest]OUT_2}} |
| MaintainedPushButton3 | | 910 | 120 | Maintained Push Button: Connections: Value | {{[ModbusTest]LED_2}} |
| MaintainedPushButton2 | | 910 | 220 | Maintained Push Button: Connections: Value | {{[ModbusTest]LED_4}} |
| MaintainedPushButton1 | | 910 | 170 | Maintained Push Button: Connections: Value | {{[ModbusTest]LED_3}} |
| NumericDisplay8 | | 409 | 220 | Numeric Display: Connections: Value | {{[ModbusTest]IN_4}} |
| NumericDisplay7 | | 410 | 170 | Numeric Display: Connections: Value | {{[ModbusTest]IN_3}} |
| NumericDisplay6 | | 409 | 120 | Numeric Display: Connections: Value | {{[ModbusTest]IN_2}} |
| NumericDisplay2 | | 410 | 70 | Numeric Display: Connections: Value | {{[ModbusTest]IN_1}} |
| NumericDisplay5 | | 659 | 220 | Numeric Display: Connections: Value | {{[ModbusTest]AIN_4}} |
| NumericDisplay4 | | 660 | 170 | Numeric Display: Connections: Value | {{[ModbusTest]AIN_3}} |
| NumericDisplay3 | | 659 | 120 | Numeric Display: Connections: Value | {{[ModbusTest]AIN_2}} |
| NumericDisplay1 | | 660 | 70 | Numeric Display: Connections: Value | {{[ModbusTest]AIN_1}} |

1.1.3.1.1.4 Object Properties

| Object Name | Grouping | X | Y |
|-----------------|----------|-----|-----|
| Text52 | | 880 | 600 |
| Text51 | | 880 | 550 |
| Text50 | | 880 | 500 |
| Text49 | | 880 | 440 |
| Text48 | | 880 | 330 |
| Text47 | | 630 | 720 |
| Text46 | | 631 | 670 |
| Text45 | | 630 | 620 |
| Text44 | | 631 | 570 |
| Text43 | | 650 | 320 |
| Text42 | | 630 | 520 |
| Text41 | | 631 | 470 |
| Text40 | | 630 | 420 |
| Text39 | | 631 | 370 |
| Polygon11 | | 610 | 310 |
| Text38 | | 380 | 720 |
| Text37 | | 381 | 670 |
| Text36 | | 380 | 620 |
| Text35 | | 381 | 570 |
| Text34 | | 400 | 320 |
| Text33 | | 380 | 520 |
| Text32 | | 381 | 470 |
| Text31 | | 380 | 420 |
| Text30 | | 381 | 370 |
| Polygon10 | | 360 | 310 |
| Text29 | | 130 | 720 |
| Text28 | | 131 | 670 |
| Text27 | | 130 | 620 |
| Text26 | | 130 | 570 |
| Text25 | | 150 | 320 |
| Text24 | | 130 | 520 |
| Text23 | | 131 | 470 |
| Text22 | | 130 | 420 |
| Text21 | | 131 | 370 |
| Polygon9 | | 110 | 310 |
| Text20 | | 150 | 30 |
| Text19 | | 130 | 230 |
| Text18 | | 131 | 180 |
| Text17 | | 130 | 130 |
| Text16 | | 131 | 80 |
| Polygon5 | | 110 | 20 |
| Polygon4 | | 910 | 70 |
| Text15 | | 900 | 30 |
| Text14 | | 880 | 230 |
| Text13 | | 881 | 180 |
| Text12 | | 880 | 130 |
| Text11 | | 881 | 80 |
| Polygon3 | | 860 | 20 |
| Text10 | | 400 | 30 |
| Text9 | | 380 | 230 |
| Text8 | | 381 | 180 |
| Text7 | | 380 | 130 |
| Text6 | | 381 | 80 |
| Polygon1 | | 360 | 20 |
| Text5 | | 650 | 30 |
| Text4 | | 630 | 230 |
| Text3 | | 631 | 180 |
| Text2 | | 630 | 130 |
| Text1 | | 631 | 80 |
| ShutdownButton1 | | 870 | 680 |

| <u>Object Name</u> | <u>Grouping</u> | <u>X</u> | <u>Y</u> |
|--------------------|-----------------|----------|----------|
| Polygon2 | | 610 | 20 |
| Polygon12 | | 860 | 310 |

1.1.3.1.1.5 Tags used by Component

| <u>Tag Name</u> | <u>Tag Type</u> | <u>Tag Description</u> |
|--|-----------------|------------------------|
| [ModbusTest]AIN_1 | | |
| [ModbusTest]AIN_2 | | |
| [ModbusTest]AIN_3 | | |
| [ModbusTest]AIN_4 | | |
| [ModbusTest]Client_01.Inp_Enable | | |
| [ModbusTest]Client_01.Sts_Connected | | |
| [ModbusTest]Client_01_Data.Coils_0xxx[28] | | |
| [ModbusTest]Client_01_Data.Coils_0xxx[5] | | |
| [ModbusTest]Client_01_Parameters.DestAddresses | | |
| [ModbusTest]Client_01_Parameters.LocalSlot | | |
| [ModbusTest]IN_1 | | |
| [ModbusTest]IN_2 | | |
| [ModbusTest]IN_3 | | |
| [ModbusTest]IN_4 | | |
| [ModbusTest]LED_2 | | |
| [ModbusTest]LED_3 | | |
| [ModbusTest]LED_4 | | |
| [ModbusTest]OUT_1 | | |
| [ModbusTest]OUT_2 | | |
| [ModbusTest]OUT_3 | | |
| [ModbusTest]OUT_4 | | |