Instructions	
Product:	TradeAssistant Pro
Date:	January 4, 2017
Purpose:	TradeAssistant Pro is for fast and flexible order placements. Setup custom triggers. Put orders in OCO groups to leverage buying power, and more. Manage your orders and positions with ease. Going Pro means you have the WATS application to access and automatically trade advisor signals.
Contact:	!QCL Solutions, LLC
Notes:	*(Tips & Tricks are italicized and in parentheses)*
Disclaimer:	This software should not be construed as providing trading or investment recommendations. Any decisions you make using this software are done solely at your own risk. The risk of loss in trading can be substantial. Leveraged trading such as through options, futures, and forex exposes traders to heightened risk. Furthermore, traders may sustain losses greater than their investments, regardless of which asset classes are traded. Before trading, carefully consider inherent risks given your financial condition.

Prerequisite Installation
1. TradeStation 9.1 (Update 29), version 12880, or later.
2. A RadarScreen subscription. TradeAssistant is available to run in Charts but to quickly trade and monitor multiple symbols, RadarScreen is preferred.
3. TradeStation real-time data subscriptions for symbols to be traded.

For demonstration use of the WATS application, use WATS_Docker running in the central chart of the default "Launch" workspace. Then download this WATS demo file. This file is also accessible by clicking on the Web button in the WATS application here:
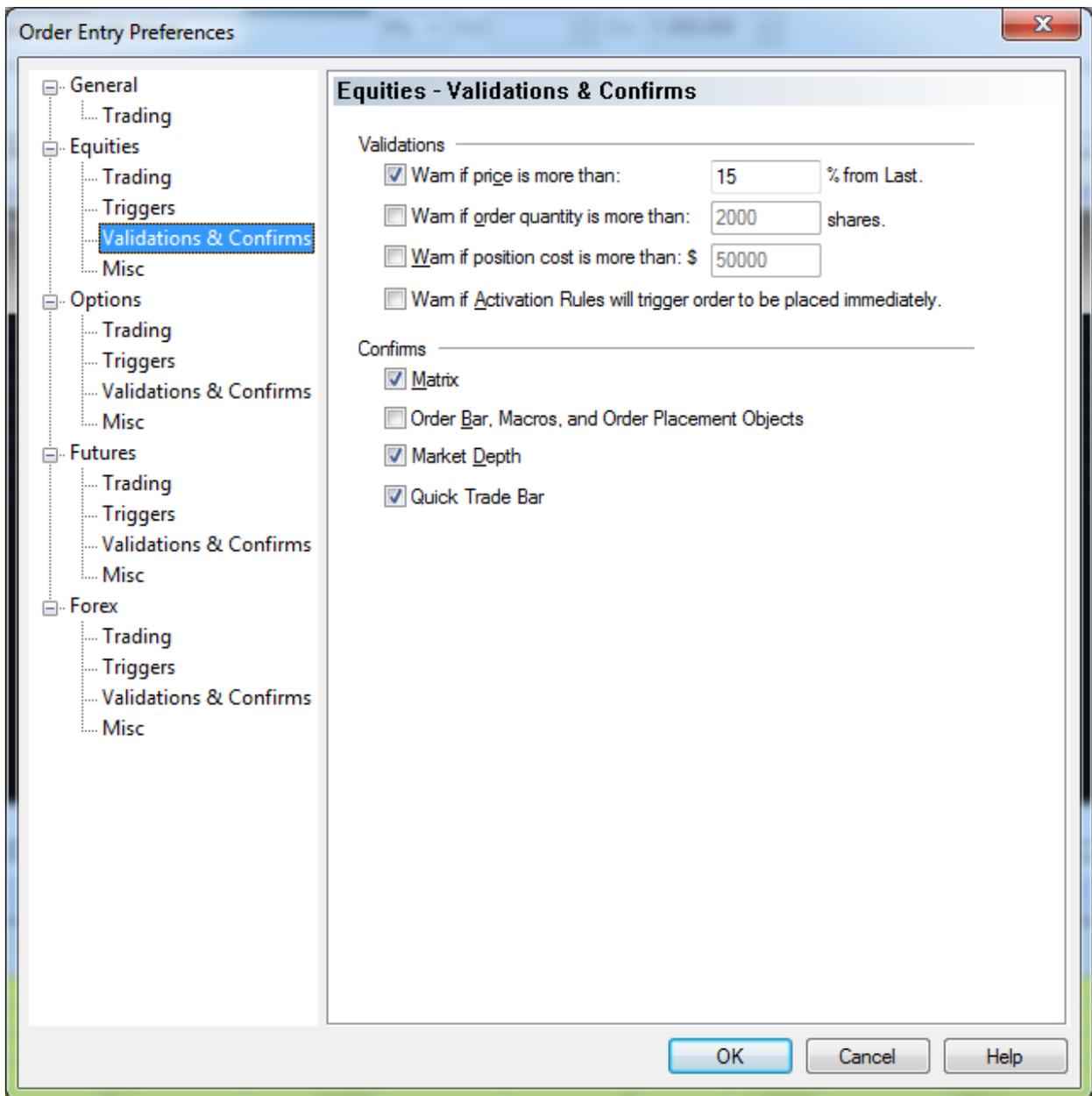
(Note that WATS_Docker is the same application as the WATS TradingApp, but hosted in a Chart as an indicator. For placing potentially large lists of interrelated orders, as with the WATS application, Chart and RadarScreen windows offer the best environments. The TradingApp window environment is to be improved in a coming release of TradeStation (expected to be in 9.5). Until then, use WATS_Docker for trading.)

Launching from a TradingApp Store Updates prompt
1. **For initial testing, log into your Trading <u>Simulation</u> accounts.**
2. Click the Launch button for TradeAssistant Pro from the TradeStation TradingApp Store Dashboard.
3. When the "Open Workspace Warning" dialog is raised, as long as you are in simulation accounts, click to "Open Windows with Items Enabled".
4. Opening the demonstration workspace with items enabled, allows the workspace to open with RunCommand and Order placement objects enabled. If you chose to disable items, when you are ready to enable items, go to
    a. Format 'TradeAssistant' for All Symbols… => General tab
    b. Check "Enable RunCommand EasyLanguage Keyword" (with confirmation OFF is best to avoid often unwanted confirmation dialogs)
    c. Check "Enable order placement objects"
    d. *(Note: The reason both RunCommand and Order placement objects are used, is to take advantage of both technologies, as is best given your TradeAssistant order properties. So generally you want to enable both. For the specific technology required for your particular order configurations in TradeAssistant, see the* <u>TSTech Req'd</u> *plot.)*
5. Enable "OE MACROS". The quickest way to do this is to click on "OE MACROS" in your status bar at the bottom of platform. Make sure it is green as in the following image:

6. Further to avoid numerous possible order confirmation and validation messages that can be burdensome and interfere with your trading, check you preferences.
    a. File => Preferences => TradeStation Order Entry…
    b. Under Equities, Options, Futures and Forex there are Validations & Confirms. Go to each section.

Order Entry Preferences

Equities - Validations & Confirms

Validations
- ☑ Warn if price is more than: [15] % from Last.
- ☐ Warn if order quantity is more than: [2000] shares.
- ☐ Warn if position cost is more than: $ [50000]
- ☐ Warn if Activation Rules will trigger order to be placed immediately.

Confirms
- ☑ Matrix
- ☐ Order Bar, Macros, and Order Placement Objects
- ☑ Market Depth
- ☑ Quick Trade Bar

[OK]   [Cancel]   [Help]

Tree navigation (left panel):
- General
  - Trading
- Equities
  - Trading
  - Triggers
  - Validations & Confirms
  - Misc
- Options
  - Trading
  - Triggers
  - Validations & Confirms
  - Misc
- Futures
  - Trading
  - Triggers
  - Validations & Confirms
  - Misc
- Forex
  - Trading
  - Triggers
  - Validations & Confirms
  - Misc

    c. At a minimum, it is recommended to uncheck the Confirms for "Order Bar, Macros, and Order Placement Objects".

    d. Review Validations. Uncheck them or set them to levels that you feel will not interfere with your trading.

7. Now to test the application during market hours, go to the topmost RadarScreen window (with the "Entries" page). Simply change the first input:

    a. Right-click in the left plot column of TradeAssistant, in a symbol row.

    b. Format 'TradeAssistant' for All Symbols… => Inputs tab

    c. Set TradingOn_if_1 = 1, and click OK.

8. Multiple orders should be placed and appear in the TradeManager window at the bottom of the workspace.

9. After orders are filled, go to the second RadarScreen window (with the "Exits" page) to see how you can quickly place exit orders for the new positions in your simulation account. Repeat step 7 above, for the second window. For symbols with long positions, exits orders should be placed. Symbols without long positions will result in rejected exit orders (note that this is correct behavior).

10. Finally, note that there is a minimized chart in the demonstration workspace. It is setup to place a trade for the Data1 symbol, based on Data2 having a current price greater than the session open price. The output normally seen in plot columns of RadarScreen appears in the chart status line (i.e. top line text). Double-click on the fat purple plot line in the sub-graph, or right-click to format the TradeAssistant indicator, set TradingOn_if_1 = 1, and click OK to test.

11. **Important!** After placing orders by setting TradingOn_if_1 = 1 and having your OrderCondition(s) trigger, be sure to change the input(s) back to 0, so that accidental or TradeStation forced data recalculations do not lead to potentially unwanted repeat orders.

How to insert the indicator yourself
1. Open a RadarScreen window or Chart (if you don't have RadarScreen).
2. Insert the TradeAssistant indicator.
3. Enable RunCommand as explained above.
4. Enable Order placement objects as explained above.
5. Setup inputs for an order or orders that you want placed upon satisfying the OrderCondition.

TradeAssistant

Inputs	Demo Values	Notes
TradingOn_if_1	0	**1 to enable automated issuing of orders.** (After applying the indicator, go to the General tab and check "Enable order placement objects".)
OrderCondition	930<CurrentTime	Conditional logic that triggers the placement of your orders. The logic could be a simple time trigger as in the default, a custom function, etc.
TradeSymbol	Symbol	The symbol to be traded. Use the **Symbol** keyword to use the symbol of the chart or grid application window.
AccountIdEquities	""	The account number for Equities trades. "" causes TradeAssistant to auto-detect a valid Equities Account.
AccountIdFutures	""	The account number for Futures trades. "" causes TradeAssistant to auto-detect a valid Futures Account.
AccountIdForex	""	The account number for Forex trades. "" causes TradeAssistant to auto-detect a

		valid Forex Account.
OverrideAccountID	""	"" will enable using one of the above accounts. Specifying a different account number will override anything entered above.
Action	"Buy"	Order Action of the single order to be placed.
TypeOrder	"Limit"	Order Type property.
Quantity	0	Quantity order property, which should be positive. 0 or less disables.
TypeQuantity	""	"Shares" or "Currency" inputs are accepted as quantity types. "" defaults to "Shares". *(Note if "Currency" is set, then the exact quantity is determined by TradeStation servers. Thus the settings EqOp_QtyReducForExit and EqOp_QtyReducForBkt are disabled.)*
AllOrNone	FALSE	AllOrNone order property.
ShowOnly	0	A show-only quantity to use with each order if applicable depending on symbol type, order type and order quantity. Set to 0 or less to disable.
Route	""	Order routing instructions, like can be seen in the order bar Route drop-down menu.
LimitPrice	0	Limit price order property used with limit or stop-limit order types. 0 disables.
LimitPriceType	""	"hitortake", "hitortakeplus", "iftouchplus", "improve", "join", "parentplus", "shave", "split", or "stopplus" auto-limit pricing. "" disables.
StopPrice	0	Stop price order property used with stop-market or stop-limit order types. 0 disables.
StopPriceType	""	"hitortake", "hitortakeplus", "iftouchplus", "improve", "join", "parentplus", "shave", "split", or "stopplus" auto-limit pricing. "" disables.
TrailingAmount	0	TrailingAmount order property for stop orders when the TypeTrailing input is set. 0 disables.
TypeTrailing	""	"pts" for trailing points, "pct" for a trailing percentage, or "minmove" for trailing minimum moves (via macro technology). "" disables.

Duration	"Day"	The duration setting for orders, like used in the TradeStation Order Bar.
GTDdate	""	To specify date as a string for "GTD" or "GTD+" durations. Date format is m/d/yy *(or yyyy, yyyy/m/d, and other formats are possible within limitations)*.
OrderName	""	A name given to orders as an Alias. The name can be seen in the TradeManager Advanced column. (Maximum name length is 15.)
OCOGroupName	""	The name of an OCO group that the order is to join. If the group name does not already exist and is valid, it is created. See the OCOGroupName in the TradeManager Group Name column. (Maximum name length is 15.)
BracketName	""	The name of an OCO Bracket that the TradeAssistant order can join, if it is the first order for the bracket or can pair with an existing stop or limit order with the BracketName. See the BracketName in the TradeManager Group Name column, with Brk prefix. (Maximum name length is 15.)
OSOTriggerBy	""	The OrderName of an existing order, that when filled, triggers the placement of the TradeAssistant order being placed.
ActivationStartTime	""	An activation rule for the order. The order can sit on TradeStation conditional servers, and goes to market when activation time is reached. Time is specified in the format: "hh:mm:ss AM/PM"
ActivationEndTime	""	A deactivation rule for the order. The order can sit on TradeStation conditional servers. Whether still held or in the market, if unfilled, when the deactivation time has been reached, the order is cancelled. Time is specified in the format: "hh:mm:ss AM/PM"
ActivationPrices	""	Activation rules for the order. The order can sit on TradeStation conditional servers, and goes to market when activation prices are satisfied. For example, activation prices can be: "IBM<180&MSFT>33|CSCO<25"

OrderNameOnceOnly	FALSE	When set to TRUE, TradeStation will accept an order with the OrderName, only once for the day. This helps avoid accidental order duplications.
ExitChldTrailStopAmt	0	OSO child orders can be sent upon filling of the primary order constructed according to above parameters. This input is for a trailing stop. It is the trailing amount in points, as a percentage, or in minimum moves. If ExitChildTargetLimit is also specified, a bracket relationship should result. 0 disables.
ExitChldTrailStpType	""	"pts" for trailing points, "pct" for a trailing percentage, or "minmove" for trailing minimum moves (via macro technology). "" disables.
ExitChildTargetLimit	0	OSO child order input specifying a profit target limit order, if applicable, upon filling of the primary order when it was an entry. 0 disables.
ExitChldTargtLmtType	""	"hitortake", "hitortakeplus", "iftouchplus", "improve", "join", "parentplus", "shave", "split", or "stopplus" auto-limit pricing. "" disables.
BarData_Required	FALSE	If TRUE then TradeSymbol time stamped prices (bar data) must be available before OrderCondition triggers.
OrderNameEnfMatch4ID	FALSE	If TRUE the order identification system for setting parent-child and sibling relationships definitively requires each order be identified by its order name. If the user has a TradeStation connection of questionable latency, this setting should be FALSE.
NoRejectStopMktToMkt	FALSE	TRUE to have stop prices that are already exceeded by market conditions, to immediately trigger, instead of being rejected by TradeStation.
NoPlaceIfNoOSOTrigBy	FALSE	TRUE to avoid placing an order that should be rejected because it uses an OSOTriggerBy identification that is not available.
EqOp_NoBoxingPostns	FALSE	TRUE to avoid placing an active equity or equity option entry order that should be rejected because it could box an open position (as with a buy entry order when

		there is an open short position).
EqOp_NoBoxingOrders	FALSE	TRUE to avoid placing an active equity or equity option entry order that should be rejected because it could box an open order (as with a buy entry order when there is an open short entry order).
EqOp_FixBoxingOSOpOA	FALSE	TRUE to modify an equity or equity option entry order that should be rejected when triggered, because it could box the position created by its parent order. It is modified to exit only.
EqOp_QtyReducForExit	FALSE	TRUE to modify an active equity or equity option exit order that should be rejected because it exceeds the available position quantity. It is modified to exit no more than what is available. *(Disabled if TypeQuantity = "Currency".)*
EqOp_QtyReducForBkt	FALSE	TRUE to modify an equity or equity option OCO Bracket order for a quantity that exceeds that of its bracket pair. It is modified for no more than that the targeted quantity of its bracket pair. *(Disabled if TypeQuantity = "Currency".)*
ColorEnabled	DarkGreen	Color to signify enabled in TradingOn, OrderConditn, and Triggered plots.
GridForeColorEnabled	Black	Foreground color in RadarScreen signify enabled in TradingOn, OrderConditn, and Triggered plots.
ColorDisabled	DarkRed	Color to signify disabled in TradingOn, OrderConditn, and Triggered plots.
GridForeColrDisabled	Black	Foreground color in RadarScreen signify disabled in TradingOn, OrderConditn, and Triggered plots.
ChangeToRecalculate	0	Change this input to force an indicator re-initialization without reloading data.

6. Set the TradingOn_if_1 input to 1 and click OK.
7. Visit us at QCLsolutions.com. An easy way to visit our posts for TradeStation products like TradeAssistant Pro is to use the TradeStation Analysis Commentary pointer. Click on the TradeAssistant indicator where applied and then click the "See us at QCLsolutions.com" button in the opened commentary window.

WATS Trading Application

Inputs	Demo Values	Notes
DockLocation_0to12	0	For WATS_Docker only, an indicator that displays the WATS application in a chart. Input 0 or 12 to specify docking on the top, 3 for right, 6 for bottom, and 9 for left (i.e. clock positions).
DefaultExcelFile	""	A default Excel file name for loading if one has not been loaded before.
DefaultWATSurl	"http://www.wats.us.com"	A default web address for the web browser, accessible via the Web button, if one has not been loaded before.
Status_FileFolderOvr	""	A folder for saving orders states files. If "", then the default TradeAssistant_Pro folder within your TradeStation MyWork folder is used.
Status_FileNameOvrrd	"WATS_Status"	The orders states file name to be used. If "", then the name of the writing function is used.
Status_DaysToKeep	5	The number of days to keep order records, by entered time, in the orders states file.
Status_StatesToKeep	""	The order states to keep in the orders states file. If "", then all order states are maintained in the file. For minimal file sizes, one may only want to keep the following states: "filled, partiallyfilled, partiallyfilledurout, queued, received, sending, sent, unsent".
Status_KeepAll1stDay	TRUE	If TRUE and Status_DaysToKeep > 0, then no orders are filtered from the created status file, according to Status_StatesToKeep, until they are more than a day old. This avoids filtering orders in the same day, where status may temporarily exist in a state that could be filtered from the status file.
Status_AllPositions	FALSE	If TRUE, the WATS orders and positions tracking system is enabled to record to file all user positions, and is not limited to positions associated with WATS generated orders.
OrderRouting	""	Order routing instructions, like can be seen in the order bar Route drop-down menu.

OrderNameEnfMatch4ID	FALSE	If TRUE the WATS order identification system for setting parent-child and sibling relationships definitively requires each order be identified by its order name. If the user has a TradeStation connection of questionable latency, this setting should be FALSE.
NoPlaceIfNoOSOTrigBy	FALSE	If TRUE, this order placement protection avoids order issuance any time there is an expected rejection due to the absence of a specified parent.
EqOp_NoBoxingPostns	FALSE	If TRUE, this order placement protection avoids equity or option order issuance any time there is an expected rejection for boxing an open position.
EqOp_NoBoxingOrders	FALSE	If TRUE, this order placement protection avoids equity or option order issuance any time there is an expected rejection for boxing an active order.
EqOp_FixBoxingOSOpOA	FALSE	If TRUE, this order placement protection can modify an equity or option order that would box the triggering parent, leading to rejection when activated. The modification is to change the boxing child orders to an exit order.
EqOp_QtyReducForExit	FALSE	If TRUE, this order placement protection can modify an equity or option order that would be rejected for attempting to exit more shares/contracts than are available. The modification is to reduce the exit quantity.
EqOp_QtyReducForBkt	FALSE	If TRUE, this order placement protection can modify an equity or option order entering an OCO bracket relationship. If the order quantity is greater than that of the bracketed sibling, the order quantity is reduced to avoid imbalance.

Note, with respect to the optional order protection inputs of the WATS Trading Application (starting with OrderNameEnfMatch4ID in the table above), that stop order protection is standard. Namely, stop orders that would be immediately activated due to market conditions are typically rejected by TradeStation. For protection with WATS, such orders are automatically converted to the appropriate market or limit order.