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CTL CHANGES IN DEALBOOK 360 VERSION 2.10.927.21

This document highlights many CTL changes in Dealbook 360 version 2.10.927.21 from the previous version, 2.9.923.17

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Chart Studio Japanese Translation

Chart Studio has been translated into Japanese. To change the language from English to Japanese, in Chart Studio click Tools -> Settings, select "Japanese" from the language selection menu, click Apply, and Close and reopen Chart Studio. This changes Output messages, Settings menu, frame titles, and Help guide.

MACD Indicator Line Style Changes

The MACD histogram has been modified to display different colors upon crossover/under of the zero line.

DLL Import Support for Use with Strategies, Indicators, and Functions

In previous versions of Dealbook 360, the DLL import function was only available for Strategies. This can now be used in Indicators and Functions as well.

"MaxLots" Input in Automatic and Manual Modes Historic Signals

"MaxLots" is no longer the consecutive number of buy and sell signals. It is now true to its name. If a strategy is set to "MaxLots" of 4, and the strategy calls buy(2) three times in a row, only 4 lots will be opened.

FPL() and Equity() Function Repairs

The FPL() and Equity() functions have been repaired in Automatic/Manual modes as well as Offline Mode backtesting. In Offline mode backtesting, the profit/loss in FPL() uses the secondary symbol in the cross (e.g., for USD/JPY, profit or loss is in JPY. For EUR/USD, profit/loss is in USD). While in Automatic or Manual modes, the FPL is in your account base currency (JPY for example) or whichever application-wide currency you have set in Dealbook 360's File -> Configure -> Parameters -> Currencies menu.

Alert() Function Improvements

The example below sends an SMS text message on crossup/down of the close price and EMA. The number it sends to is specified in Dealbook 360 (File -> Configure -> Parameters, the "User Details" tab specifies Email and SMS addresses):

```
strategy sample_ema_alerts;
input period = 10, lots = 1;
vars ma(series);
begin
  ma := ema(close, period);
  if crossup (close, ma) then alert("sms","Crossup occurred");
  if crossdown(close, ma) then alert("sms","Crossdown occurred");
end.
```

A few of the other alert types available are "e-mail," "playwav," and "sms." A complete list can be found in the CTL User Guide within Chart Studio.

Offline Mode Backtesting Improvements

Equity (starting balance) is now properly used and tracked in offline mode backtesting.

Position Reversal

It is now possible to create code to reverse a position behind a "begin" statement. For example:

```
strategy sample_ema_reversal;
input period = 10, lots = 1;
vars ma(series);
begin
  ma := ema(close, period);
  if crossup (close, ma) then begin
    exitshort();
    buy(lots);
  end;
  if crossdown(close, ma) then begin
    exitlong();
    sell(lots);
  end;
end.
```

Chart Debug Output

Debug output is now available for strategies. You can apply the below example to a chart, and click View -> Chart Debug Messages:

```
strategy sample_ema_alerts;
input period = 10, lots = 1;
vars ma(series);
begin
  ma := ema(close, period);
  if crossup (close, ma) then print("Buy at: " + numbertostring(ma[back(ma)]));
  if crossdown(close, ma) then print("Sell at: " + numbertostring(ma[back(ma)]));
end.
```

Password Protection for Modules

In Chart Studio click File -> Save With Password to require a password before opening a strategy in Chart Studio.

CTL User Guide Strategy Sample Corrections

The Strategy Sample code has been repaired in the CTL User Guide. All can be copy/pasted and work without modification.

Module Installation Improvements

Reinstalling a strategy will not crash Dealbook if it is applied to a chart during the uninstall or install in this version. The best practice is still to remove the module from your chart before modifying the CTL code or uninstalling a module.

Backtesting Report Improvements

The displayed and calculated times, dates, and prices in Offline Mode backtesting are now accurate, making backtesting results for Profit/Loss more accurate as well.

Encryption for .ctl Files

All CTL files (including .ctl files without password protection) are now encrypted. CTL files can only be read within Chart Studio.

Lot Size and "MaxLots" Input Restriction

MaxLots now works properly on any lot size.

Close File Function

Files are now closed properly when using the `closefile()` function. For example:

```
strategy sample_ema_printfile;
input period = 10, lots = 1;
vars ma(series), myFile(file);
begin
  ma := ema(close, period);
  openfile(myFile, "C:\\testfile.txt",app);
  if crossup (close, ma) then printf(myFile,"crossup occurred");
  if crossdown(close, ma) then printf(myFile,"crossdown occurred");
  closefile(myFile);
end.
```

Rename "Working market" orders in Report of Strategies

When an automated strategy report is requested, it will now properly show "Pending" in the strategy report if an order within the report is waiting to be filled in Dealbook 360.

Chart Studio Text Completion

When you begin typing within a module in Chart Studio, if you type the first two letters of an existing indicator, strategy, or function, you will notice an "autocomplete" window appear. If you press tab, space, or enter, it will place in the selected text.