IBC USER GUIDE

IMPORTANT NOTES REGARDING AUTo-RESTART IN TWS/GATEWAY 1018 and later versions.

IBC now has the ability to allow TWS/Gateway to use the autorestart mechanism originally introduced in version 974/975.

This means that you can now set TWS/Gateway to run all week with a single login at the start of the week, under the control of IBC.

To configure this behaviour use the AutoRestart setting in the Lock and Exit section of the TWS/Gateway configuration dialog. Alternatively use the AutoRestartTime setting in config.ini.

IMPORTANT

If you have previously been using IBController and are switching over to IBC, there are some differences that you need to be aware of: there is more information about this in the **Changes from IBController** section at the end of this document.

Make sure you read the information in the Scope of this User Guide section.

Note that in the remainder of this document, 'Unix' is used to refer to all Unix-derived operating systems, including Linux and macOS.

Introduction

Overview of IBC

IBC enables Interactive Brokers' Trader Workstation (TWS) and Gateway to be run in 'hands-free' mode, so that a user need not be present. This makes possible the deployment of unattended automated trading systems.

IBC loads TWS or the Gateway and then 'listens' for various events (such as the display of dialogs) that would normally require user intervention. It can then automatically take appropriate action on the user's behalf. For example, it automates the TWS and Gateway login by filling the login dialog with your credentials and 'clicking' the login button.

Here are some of the things IBC does for you:

- · starts TWS or the Gateway
- · logs you into TWS or Gateway
- · clicks the YES button if the "Accept incoming connection?" dialog is displayed
- allows TWS or Gateway to automatically restart each day without need for repeated authentication: authentication is only required the first time during the week that TWS or Gateway run after 01:00 ET on Sunday
- allows two-factor authentication using the IBKR Mobile app, including repeated alerts until the user acknowledges

IBC also responds to certain commands sent to it by another program, for example to tell TWS/Gateway to shut itself down cleanly.

Scope of this User Guide

This User Guide is intended to help you get started with IBC. It does not cover every feature in depth.

Note that the configuration file config.ini that governs IBC's behaviour contains extensive notes that provide more information on the various settings.

Acknowledgement

This User Guide has been produced using the Pandoc document conversion system to produce the PDF from the markdown source.

Getting Started

Checklist

Here is a summary of the steps you need to perform to get IBC up and running properly.

1. Install the offline version of Interactive Brokers Trader Workstation (see *Interactive Brokers Trader Workstation* in the *Prerequisites* section), and make sure that it uses the English language setting.

Please note that you MUST download the OFFLINE version of TWS, not the self-updating version: IBC DOES NOT WORK with the self-updating version of TWS.

- 2. Download the appropriate IBC distribution ZIP file for your operating system (see the Where to get IBC section).
- 3. Install IBC (see the *Installing IBC* section). Please note that if you already have an existing IBC installation, it's wise to rename its folder before installing the new version in case you need to revert to it later.
- 4. Create an encrypted folder called ibc in your personal filestore (see *Protecting the Password* in the *Password* Security section).
- 5. Copy the configuration file (called config.ini) from the IBC installation folder to the encrypted folder created in step 4.
- 6. Edit the config.ini file,using a text editor such as Notepad, to set your username and password in the IbLoginId and IbPassword settings. It's advisable to use your paper-trading credentials at first to check things out, and for this you'll also need to set the TradingMode setting.
- 7. Check that the correct major version number for TWS is set in the shell script files in the IBC installation folder: these files are StartTWS.bat and StartGateway.bat on Windows, twsstart.sh and gatewaystart.sh on Unix, twsstartmacos.sh and gatewaystartmacos.sh on macOS.

To find the TWS major version number, first run TWS or the Gateway manually using the IBKR-provided icon, then click Help > About Trader Workstation or Help > About IB Gateway. In the displayed information you'll see a line similar to this:

```
`Build 10.19.1f, Oct 28, 2022 3:03:08 PM`
```

Here the major version number is 1019 (ie ignore the period after the first part of the version number).

Now open the script files with a text editor and ensure that the TWS MAJOR VRSN variable is set correctly.

- 8. At this stage, everything is set up to run IBC with its default settings, which will start TWS and attempt to log it into your paper-trading user. It is worthwhile doing this to check that everything works before further customising it to suit your needs. To do this, run the relevant shell script (StartTWS.bat on Windows, twsstart.sh on Unix, twsstartmacos.sh on macOS) from the IBC installation folder. If everything is satisfactory, shut down IBC by closing TWS in the usual way.
 - Note that when you start IBC, information about the startup process is logged to a file to aid diagnosing any faults that may occur. You will be notified of the log file name during the startup sequence. Please include this file when reporting problems with IBC.
- 9. Now you can edit the configuration file config.ini to make any further customisations you need. See *Configuring IBC* for further information.
- 10. If you did not install TWS and IBC in their default locations, and store the configuration file in the recommended location, you will have to edit the shell scripts in the IBC installation folder accordingly. They contain comments that will help you do this correctly.
- 11. If you intend to run API programs to connect with TWS, you will need to manually edit the API settings in TWS's Global Configuration Dialog.
- 12. If you want TWS to automatically restart every day during the week without you having to re-authenticate, you'll need to ensure the AutoRestart time is set appropriately in the Lock and Exit section of the Global Configuration dialog. Note that the only alternative to auto-restart is auto-logoff: this shuts down TWS completely at the specified time, and it's then up to you to restart it and re-authenticate.

Prerequisites

This section details the other software that is needed to run IBC.

Java Runtime

Both IBC and TWS/Gateway are Java programs, and therefore the Java Runtime needs to be accessible, but you don't have to do anything to ensure this.

The TWS and Gateway installers include a hidden version of Java that Interactive Brokers have used for developing and testing TWS. This version also runs IBC perfectly, and the IBC scripts ensure that it is used.

This means that it is not necessary to ensure that Java is installed on your computer. It doesn't matter if it is already installed, but the IBC scripts won't use it. However the scripts do make provision for declaring specifically which Java installation is to be used in exceptional situations where necessary.

If you had previously installed Java for use with old versions of TWS, but do not need it for any other programs, then you might want to consider uninstalling it once you have finished setting up IBC.

Interactive Brokers Trader Workstation

Before running IBC, you will need to download and install the **offline** version of Trader Workstation from the Interactive Brokers website.

The location of the TWS dowloads page on IBKR's website varies from time to time, and from country to country. At the time of writing, on IBKR's US website (linked above) you need to click the Trading menu near the top of the page,

then select Platforms, and then click Download Software under the Trader Workstation panel. Currently a valid direct link is TWS Software.

IBKR provides two modes of operation for TWS:

- an online, or self-updating TWS that automatically receives updates as IBKR enhances it and fixes bugs. IBC does not work with the self-updating TWS, so do not install the self-updating version for use with IBC
- an offline or standalone TWS that, after download and installation, never changes (until you download and install another version): you **must** download and install this offline version for use with IBC.

Note that the TWS installation includes the code for both TWS and the Gateway: there is no need to do another download for the Gateway.

However, there are Gateway-specific downloads on IBKR's website. They contain the same code as the TWS downloads, but they install in a different place. You can install one of these, as well as or instead of the TWS installer. You can find these via the LOGIN dropdown in the title bar of IBKR's website.

When you run the script to load TWS, it will use the TWS installation if there is one, and if not it will use the Gateway installation if there is one. Similarly when you run the script to load the Gateway, it will use the Gateway installation if there is one, and if not it will use the TWS installation if there is one. (Needless to say, if neither a TWS download nor a Gateway download has been installed, the scripts will fail!)

It is safest to use the 'stable' offline version of TWS rather than the 'latest' version for live trading: the latter is more likely to have bugs.

IBC needs TWS to operate in English so that it can recognise the various dialogues that it interacts with. You can set TWS's language by starting it manually (ie without using IBC) and selecting the language on the initial login dialog. TWS will remember this language setting when you subsequently start it using IBC.

Note that you do not need an IBKR account to try out IBC, as you can use IBKR's Free Trial offer, for which there is a link at the top of the homepage on the website.

Where to get IBC

IBC is officially distributed as a ZIP file containing the compiled program and some additional files, detailed below. There are separate ZIP files for Windows, Linux and macOS.

The ZIP file for the latest version should be downloaded from Github. Earlier versions can also be downloaded from the same place if need be.

The distribution ZIP file contains:

- · License text
- · A compiled JAR (named similar to IBC . jar), containing the compiled Java code for the IBC program
- A sample configuration file (named similar to config.ini)
- Top-level script files that run IBC to start TWS or the Gateway. These files are specific to the platform (ie Windows, Linux or macOS) to which the ZIP file relates
- · A script file that can be used to tidily shut down TWS or Gateway from the same or another computer.
- A sample Windows Task Scheduler file (named similar to Start TWS Live (daily).xml), which can be used to automate starting TWS or Gateway on Windows systems (not present in the Linux and macOS ZIPs)
- A Scripts sub-folder containing sub-scripts used by the top-level scripts mentioned above
- A text file called version containing the IBC version number

Source code and build scripts are not included in the distribution ZIPs, as they are freely available from the IBC project page on Github.

Installing IBC

Installing IBC is just a matter of extracting the contents of the downloaded ZIP file to wherever you want to install it. You will make things easiest for yourself if you use the locations described in 'Default Paths' below, because that will minimise customising the configuration file and the shell scripts.

If you already have a previous IBC installation, it's wise to rename its folder (eg to IBC.old) so that you can easily refer back to any customisations you did for that version.

On Windows:

- create the folder where you want to install IBC, if it doesn't already exist. As noted above (see Default Paths) this is normally C:\IBC but it can be anywhere you like
- locate the downloaded ZIP file using File Explorer (Windows Explorer on Windows 7 and earlier). Windows treats ZIP files like an ordinary folder, so you can see its contents the same way as any other folder
- · select all the files and folders and drag them into your installation folder

On Unix:

· unpack the ZIP file using a command similar to this:

```
sudo unzip ~/Downloads/IBCLinux-3.6.0.zip -d \
/opt/ibc
```

· now make sure all the script files are executable:

```
cd /opt/ibc
sudo chmod o+x *.sh */*.sh
```

Default Paths

Several script files are included in each IBC release. These script files (and these instructions) assume the default paths shown in the table below (where <username> represents your operating system user name, not your IBKR login id).

If you store any of these items in other locations, you will need to edit these script files to reflect this.

| Platform | Item | Path |
|----------|------------------------|---|
| Windows | IBKR TWS program files | C:\Jts |
| | IBC program files | C:\IBC |
| | config.ini | %USERPROFILE%\Documents\IBC |
| Unix | IBKR TWS program files | /home/ <username>/Jts</username> |
| | IBC program files | /opt/ibc |
| | config.ini | /home/ <username>/ibc</username> |
| macOS | IBKR TWS program files | /home/ <username>/Applications</username> |

| Platform | Item | Path |
|----------|------------------------------|--|
| | IBC program files config.ini | /opt/ibc /home/ <username>/ibc</username> |

Note that you may be able to find third-party Linux packages that allow IBC and/or TWS to be installed using a Linux package manager such as apt: they may not use these paths. Consult your Linux package instructions for file locations.

Password Security

To login to TWS or IB Gateway, IBC needs to know your Interactive Brokers username and password. You should very carefully secure your IBKR account username and password to prevent unauthorised use by third parties. This section gives you guidance on how to achieve this.

The username and password are given to IBC in one of two ways:

- via the configuration .ini file: this is the preferred method because the configuration file can be protected by the operating system
- via the command line parameters when IBC is started: this method is strongly deprecated because command line information associated with a process is easily available outside the process (for example via Task Manager on Windows)

Protecting the Configuration File

To protect this sensitive information, the configuration file needs to be stored in a location where it will not be accessible to other users of the computer. The simplest way to achieve this is to store it within your personal filestore:

• on Windows this is your Documents folder (which is normally actually located at:

C:\Users\<username>\Documents).

Note that this folder may also be addressed using environment variables like this:

%USERPROFILE%\Documents

• on Unix it is the /home/<username> directory.

You are advised to place the file in its own ibc folder within this location.

You should also consider encrypting the folder containing the configuration file. This will prevent another user with administrator privileges gaining access to the contents: even if they use their administrator privileges to give themselves access to the file, its contents will not be decrypted because they are not the user that encrypted it.

To encrypt the folder on Windows (note that this requires a Professional or higher edition of Windows - the home edition does not provide this facility):

- right click the folder and select Properties
- · click the Advanced button on the General tab
- set the checkbox labelled Encrypt contents to secure data

· finally, click the OK buttons to apply the changes.

Encrypting a folder on Unix is more involved, and you should refer to the documentation for your distribution.

Configuring IBC

IBC must be supplied with a configuration file. A specimen file called config.ini is included in the distribution ZIPs. You will need to edit this file to include your IBKR username and password, and to ensure that IBC behaves in the way that best suits your needs.

You should copy the supplied file from the IBC installation folder into the secure location described above before editing it, so that you have a clean copy to revert to if need be.

The sample config.ini file contains detailed comments on the meaning of each configuration property. Many of these have sensible defaults, or are only needed in special situations, so to help you get started quickly, here is a list of the settings that you are most likely to need to change:

| Setting | Notes |
|--------------------------------|--|
| IbLoginID | You must set this to your IBKR username |
| Password | You must set this to your IBKR password |
| TradingMode | For TWS 955 and later, you must set this to |
| | paper if you have supplied the username |
| | and password for your live account but |
| | actually want to use your paper account. |
| | Otherwise you can omit the setting entirely |
| | or set it to live. |
| IbDir | You can set this if you want TWS |
| | to store its settings in a different folder |
| | from the one it's installed in. However this |
| | usage is now deprecated because auto-restart |
| | does not work when you do this. Instead, |
| | you should specify the settings folder in |
| | the TWS_SETTINGS_PATH variable in the |
| | relevant start script. |
| AcceptIncomingConnectionAction | It is safest to set this to reject and to |
| | explicitly configure TWS to specify which |
| | IP addresses are allowed to connnect to the |
| | API, by means of the API settings in the |
| | TWS/Gateway configuration dialog. |

There are two ways that IBC can locate your edited config.ini file.

- the simplest way is to tell it where to find the file in the script that starts IBC. In this way, you can give the configuration file any name you like. This is the recommended approach, and the supplied scripts follow this approach. If you want to change the filename from config.ini, or if you store it somewhere other than the default location, you'll have to edit the start script to declare its new name and location.
- if you do not specify a configuration file name, IBC will expect to find a file named config.ini in the current computer user's private filestore. For Windows users, the location is %USERPROFILE%\Documents\IBC. For

Unix users, it is ~/ibc.

Starting IBC

The normal way to start IBC is by use of a shell script. These can be identified by the .bat (Windows) or .sh (Unix) extensions. Scripts to start TWS and Gateway are included in the distribution ZIPs, and due to their complexity you are strongly advised to use them, rather than try to create your own.

Windows users can execute a shell script in a number of ways, including:

- · Double-click the filename in Windows Explorer
- Create a shortcut to it on your Start menu, desktop or taskbar
- Create a scheduled task to run it automatically at the required times (see below for more information about using scheduled tasks)

If you used the default locations to install IBC and TWS, and to store your config.ini file, you should not need to edit the shell scripts. If you do need to change them, they are commented to help you.

Other Topics

Second Factor Authentication

You can use your mobile phone or tablet running Android or IOS to provide second factor authentication for your TWS login. To do this you'll need to install the IBKR Mobile app on your device, which you can download from the relevant app store. Once you've installed it, you can register it for second factor authentication via the button that it prominently displays.

Once it's registered, every time you login to TWS or Gateway (including when IBC does it for you) you'll receive an alert on your device. When you then acknowledge the alert, your login will complete.

Note that IBC cannot itself assist in the process, so you'll have to actually perform the necessary actions on your device yourself, but it's fairly convenient because you don't need to be anywhere near your computer running TWS, which is helpful if you've used some automated mechanism to start TWS.

However, if you fail to respond to the alert within a fixed period (currently 3 minutes), you will not then be able to complete your login without manual intervention at TWS, and this is where IBC *can* help. You can canfigure IBC to detect such timeouts and re-initiate the login process when this happens. To enable this behaviour you need this setting in your config.ini file:

ReloginAfterSecondFactorAuthenticationTimeout=yes

This timeout/relogin mechanism can repeat any number of times until you acknowledge the alert to enable login to succeed.

In some circumstances, even though you acknowledge the alert, login doesn't complete successfully. IBC can deal with this situation automatically by shutting down and restarting. This repeats the normal login sequence and thus gives you another chance to receive the second factor authentication alert on your device.

This behaviour is controlled by the SecondFactorAuthenticationExitInterval setting, which is the number of seconds IBC waits for login to complete when the user has acknowledged the alert, after which IBC closes down.

For automatic restart, you must also set the TWOFA_TIMEOUT_ACTION variable in your start script file to restart (see the notes for this variable in the relevant start script).

If you have another automatic means of restarting IBC after it closes (for example Task Scheduler on Windows), then you should consider setting the TWOFA_TIMEOUT_ACTION variable in your start script to exit, to avoid the situation where both mechanisms react at the same time.

Scheduled Tasks (Windows only)

On Windows you can start IBC automatically using the Task Scheduler to run StartTWS.bat or StartGateway.bat.

When you define your task, make sure that the option to 'Run only when user is logged on' is selected. Doing this will ensure that you can see and interact with TWS.

You will then need to log on before the task runs.

Note that you can set up Windows to log on automatically at startup: this might be useful, for example, if your system's BIOS allows you to configure the system to power on at a particular time. Information on how to do this is freely available on the internet. But bear in mind that doing this can negatively impact your system's security.

Task Scheduler does actually allow you to specify that your task should run whether or not the user is logged in. However if you do this, the task is always started in a separate user session which you cannot see and interact with, even if you are already logged on when the task starts, or if you subsequently log on. Therefore you are strongly advised NOT to use the option for 'Run whether user is logged on or not'.

Remember also to change the task settings to prevent Windows automatically ending it after a certain time.

You can set the AutoRestart time in the Lock and Exit section of the configuration dialog: this causes TWS/Gateway to automatically shut down and restart without requiring re-authentication at the specified time. When the restart time is reached, TWS will shut down (and IBC with it, thus ending the task as far as Task Scheduler is concerned). IBC will then be reloaded and it will reload TWS with the relevant information needed for it to recover its previous session without re-authentication. This will then be repeated each day at the same time. Thus TWS can be kept running all week, with automated startup and a single authentication at the start of the week.

Note that TWS's auto-restart mechanism does not work if TWS is shut down abruptly, for example due to power failure or a program bug. This situation can be handled by configuring the task to run periodically (say every 10 minutes) during the week so that if TWS crashes or is manually shut down, the task will be automatically restarted. However if you do this, then you must not set the AutoRestart time: this is because, as indicated above, when TWS auto-restarts for the first time, the original task is ended, so after that point the next periodic task start will actually load another instance of IBC and TWS, which will interfere with the auto-restarted TWS with unpredictable results. So instead you must set the autologoff time appropriately instead. The next periodic task start will then load a new instance of IBC/TWS which will require normal full authentication. So while this approach can deal with some rare situations where TWS ends unexpectedly, it's at the cost of having to authenticate daily.

Note also that if you set up the task to run at user logon, and you configure your computer's BIOS to power on when power is restored after failure, and to then log on automatically, this will ensure TWS is restarted after a power outage. (Information about how to make your computer log on automatically is easily available on the internet: but make sure you understand the security implications of autologon to Windows).

IMPORTANT Make sure you use the /INLINE argument to StartTWS.bat or StartGateway.bat when starting IBC from Task Scheduler. Otherwise IBC will start and run correctly, but Task Scheduler will not be aware of it: in particular Task Scheduler will not show the task as running. This prevents correct operation of Task Scheduler features

such as killing the task after a specified elapsed time. The reason for this is that as far as Task Scheduler is concerned, the task is simply the command processor process that it creates to run the .bat file, and does not include processes created by it.

A sample scheduled task is included in the IBC distribution ZIP, called Start TWS Live (daily).xml. You can import this into your Task Scheduler if you are running Windows. After importing it, you will need to enable it and change the user account it runs under. This task starts TWS daily from Sunday to Thursday at 22:15, and assumes that TWS is set to autologoff shortly before this. It restarts the task every 10 minutes. You can adjust these times to suit your needs.

Running with crontab (Linux only)

On Linux you can use crontab to run twsstart.sh or gatewaystart.sh automatically.

For example, to run gatewaystart.sh at 08:00 on Mondays, include a line like this in your personal crontab:

```
* 8 * * 1 export DISPLAY=:10 && /bin/bash /opt/ibc/gatewaystart.sh
```

The value you need for the DISPLAY variable will depend on how your system is configured.

Starting with IBC 3.8.1, the twsstart.sh and gatewaystart.sh scripts include a check to see if IBC is already running with the same config.ini file: if it is, a new instance is not started.

This enables a more sophisticated crontab entry that will periodically attempt to start IBC, but only succeed if it is not already running. For example:

```
0,15,30,45 * * * 1-5 export DISPLAY=:10 && /bin/bash /opt/ibc/gatewaystart.sh
```

will try to run gatewaystart.sh every 15 minutes from Monday to Friday. This can be useful to restart TWS/Gateway after an unexpected shutdown, or, in conjunction with the use of the ExistingSessionDetectedAction=primaryoverride setting in config.ini, to automatically restart it if using the IBKR Mobile app or the Client Portal on the IBKR Account Management page causes your TWS/Gateway session to be shut down.

Multiple IBC Instances

You may want to run more than one instance of TWS or the Gateway on the same computer, perhaps simultaneously. Here are some reasons you might want to do this:

- you want to run both your live and paper-trading IBKR accounts. This is especially true if you want to get market
 data from both accounts, as IBKR will only allow this if both TWS instances are on the same computer (unless
 you don't try to run them at the same time)
- · you have multiple logins for your live IBKR account, and want to run TWS for both, perhaps at the same time
- you trade on behalf of others, perhaps your family, friends or clients, who each have their own accounts, but you want to run TWS instances for all these accounts on one powerful computer
- · you want to trade in different regions at different times
- you want to test a new version of TWS in your paper trading account at the same time as using your live account in a previous version

When TWS runs, it stores a large number of settings in a folder structure (these settings may also be stored in IBKR's servers, but this may not be a useful option if you want to use multiple TWS instances). By default, TWS stores this settings folder structure in the TWS installation folder. For each username, it creates a separate folder structure. Note however that there are some files that TWS creates while running that are not separated by username in this way, and only one instance of TWS can access them at a time. So you can run multiple TWS instances with no problem provided each instance is logged in to a different username, AND you don't try to run them at the same time.

However, by using the TWS_SETTINGS_PATH setting in the TWS and Gateway start scripts, you can tell TWS to store its settings whereever you like. So to have multiple IBC instances operating simultaneously, you need to create a separate start script for each instance with a different setting for TWS_SETTINGS_PATH. Note that you do not need to copy the TWS jar files themselves - you can load TWS from the same installation folder for each instance.

As an alternative to having different scripts to run each instance. you could have a single script and pass the value for the TWS_SETTINGS_PATH variable as a parameter).

You need to ensure that the different instances don't try to write their log files to the same folder (because otherwise they might try to log to the same file, and one instance would fail).

As a concrete example, let's take the first scenario described above: you want to run both your live and paper trading accounts without them interfering with each other in any way. But before describing the steps to achieve this, here's something to bear in mind: if you have already been running either or both the live and paper TWSs, you may have already spent quite some time configuring them, and you won't want to have to repeat this work. TWS provides a means of saving and subsequently restoring settings (the Save Settings As... and Settings Recovery... commands on the File menu, and you can use these to keep your current settings in a temporary location, and then restore them once you've finished setting up the two instances.

So:

- install TWS into the default location (C:\Jts on Windows)
- create two new folders C:\JtsLive and C:\JtsPaper to store the settings
- create two IBC configuration files called configLive.ini and configPaper.ini
- set the lbDir option in them to point to the relevant folder, ie IbDir=C:\\JtsLive and IbDir=C:\\JtsPaper, and set the IbLoginId and IbPassword to the live or paper account values as appropriate
- create two start scripts (by copying StartTWS.bat) called StartTWSLive.bat and StartTWSPaper.bat
- · change the set CONFIG=... line in each script file to refer to the relevant configuration file
- change the set LOG_PATH=... line in each script file to refer to different folders, for example set LOG_PATH=%IBC_PATH%\LiveLogs and set LOG_PATH=%IBC_PATH%\PaperLogs
- now you can run the new scripts, and each will start a separate instance of TWS connected to a different account, with its settings stored in separate folders.

Using different TWS versions simultaneously

To use more than one version of TWS (for example for testing a new version with your paper-trading account while also using a previous version for your live account), you just need to install the required versions in the normal way. Version 952 and later of TWS have installers that automatically place the relevant files in separate folders named according to the version number.

Then follow the advice in the previous section and ensure that each script file has the correct value for the TWS_MAJOR_VRSN variable.

Any Questions?

If you need assistance with running IBC, or have any queries or suggestions for improvement, you should join the IBC User Group at:

https://groups.io/g/ibcalpha

If you're convinced you've found a bug in IBC, please report it via either the IBC User Group or the GitHub Issue Tracker at:

https://github.com/lbcAlpha/IBC/issues

Please provide as much evidence as you can, especially the versions of IBC and TWS/Gateway you're using and a full description of the incorrect behaviour you're seeing. The IBC logile contains a lot of information that can often be used to rapidly diagnose the source of a problem, so attaching it to your report is always a good idea.

Changes from IBController

Although IBC has been forked from the original IBController project, it is not identical and there are several important differences that you'll need to take account of if you're switching from IBController to IBC.

Here are the main differences between IBC and IBController:

- 1. The program file is now called IBC.jar.
- 2. Changes to the settings file:
 - in IBController, the configuration settings were held in a file called IBController.ini by default, whereas the equivalent file in IBC is called config.ini
 - the setting previously called ForceTwsApiPort has been renamed OverrideTwsApiPort
 - the AcceptIncomingConnectionAction setting previously had a default of accept. This default has now changed to manual, which means that the user must now explicitly configure IBC to automatically accept API connections from unknown computers.
 - the settings PasswordEncrypted and FIXPasswordEncrypted have been removed, as has the facility to 'encrypt' these passwords.
 - the IbControllerPort setting has been renamed to CommandServerPort, and its default value is 0 (zero), which is taken to mean 'do not start the command server'
 - the IbControlFrom setting has been renamed to ControlFrom
 - the IbBindAddress setting has been renamed to BindAddress
- 3. Changes to top-level script names:

On Windows:

IBControllerStart.bat

IBControllerGatewayStart.bat

IBControllerStop.bat

-> StartTWS.bat -> StartGateway.bat

-> Stop.bat

On Linux:

IBControllerStart.sh

IBControllerGatewayStart.bat

-> twsstart.sh

-> gatewaystart.sh

On macOS:

IBControllerStart-OSX.sh

IBControllerGatewayStart-OSX.bat -> gatewaystartmacos.sh

-> twsstartmacos.sh