



## ASX Clear (Futures) Margin Simulator

### User Manual



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## **1. Introduction**

### **1.1. Purpose of ASX Clear (Futures) Margin Simulator**

ASX Clear (Futures) Margin Simulator is a web based system that provides cross-margin simulation capabilities across cleared and custom Over the Counter (OTC) and Exchange Traded interest rate derivative (ETD) portfolios.

### **1.2. Purpose of ASX Margin Optimisation Service**

The ASX Margin Optimisation Service will enable automated selection and allocation of ASX 24 Interest Rate Futures positions into a customer's OTC portfolio for Cross-Product margin offsets to be applied.

#### **1.2.1. Optimisation Process**

The Optimisation process utilises a Differential Evolution Algorithm to determine the most optimal allocation of ASX Interest Rate Futures contracts for cross-margining. This algorithm factors in SPAN Inter and Intra commodity concessions that are available for customer's Futures portfolios and ensures that automated cross-margining allocations are only made where both:

- The customer's total Initial Margin for ASX Clear (Futures) overall is reduced.
- The customer's OTC Initial Margin for ASX Clear (Futures) is reduced.

### **1.3. Audience for this Manual**

ASX Clear (Futures) Margin Simulator User Manual has been written for ASX Clear (Futures) Clearing Participants (CPs). The users of the ASX Clear (Futures) Margin Simulator include:

- CP Firm Administrator User
- CP Firm Simulator User
- CP Firm Allocator User
- Client Firm Simulator User.

### **1.4. Contacting Support**

#### **1.4.1. ASX Online Helpdesk Support**

ASX Online Helpdesk can be contacted on:

Phone: 1800 682 484

Email: [participants.online@asx.com.au](mailto:participants.online@asx.com.au)

#### **1.4.2. ASX Service Desk**

ASX Service Desk can be contacted on:

Email: [service.desk@asx.com.au](mailto:service.desk@asx.com.au)

## 2. Setup and Access

### 2.1. System Setup

The following are required to access ASX Clear (Futures) Margin Simulator:

- Internet Explorer 7, 8 or 9
- JavaScript enabled browser
- ActiveX Controls set to "Enabled"
- Onsite Microsoft Installer (MSI) package installed for Windows XP Operating System.

### 2.2. CP Administrator User Setup

To create a CP Administrator User:

1. Ensure that the ASX Online profile is active: [Contact ASX Online Help Desk](#).
2. Complete, scan and email the following registration form to:  
[participants.online@asx.com.au](mailto:participants.online@asx.com.au).  
ASX Online will send an account confirmation email.
3. Receive CP Administration User account confirmation (with credentials if applicable) from the ASX Online Help Desk by email.
4. Enrol a [Client Side Digital Certificate \(CSDC\)](#).  
This is required only if the user does not have a valid Single Sign On certificate already installed for ASX provided secure web applications.
5. Sign in using the following link: <https://asxmos.connect.asxonline.com>.

### 2.3. CP/Client Simulator User Setup

To create a CP Simulator User:

1. Ensure that the ASX Online profile is active: [Contact ASX Online Help Desk](#).
2. Request a CP User profile and request a CSDC from the CP Administrator.
3. Receive Participant User credentials if applicable from the ASX Online Help Desk by email.
4. Enrol a [CSDC](#).
5. Sign in using the following link: <https://asxmos.connect.asxonline.com>.

### 2.4. CP Allocator User Setup

To create a CP Allocator User

1. Ensure that the ASX Online profile is active: [Contact ASX Online Help Desk](#).
2. Request a CP User profile and request a CSDC from CP Administrator.
3. Receive CP User credentials if applicable from the ASX Online Help Desk by email.  
This is Required for a newly created ASX Online account only. Existing accounts to use the same login credentials.
4. Enrol a [CSDC](#).
5. Sign in using the following link: <https://asxmos.connect.asxonline.com>.

### 2.5. Accessing ASX Clear (Futures) Margin Simulator

To access ASX Clear (Futures) Margin Simulator:

1. Open a browser and navigate to <https://asxmos.connect.asxonline.com>.

2. Enter ASX Online login details.
3. Select the Single Sign On certificate to proceed.
4. If authentication is successful, the application selection page will appear.
5. Click Margin Simulator to access the ASX Clear (Futures) Margin Simulator.

**Note:**

If the user's setup by the CP administrators are unable to access the ASX Clear (Futures) Margin Simulator, they can refer to the [Appendix 3: Troubleshooting](#) which highlights the most common areas that can prevent users from accessing ASX Clear (Futures) Margin Simulator. This includes:

- Browser Related Issues
- Client Side Digital Certificate Issues
- Margin Simulator Access Issues.

## 2.6. Operating Hours

ASX Clear (Futures) Margin Simulator is available to users from Monday to Friday (excluding Public Holidays), from 7:30 am to 9pm AEST (Sydney) Time.

**Note:**

Cleared Future positions retrieved for simulation after 7pm AEST are only correct as at a 7pm snapshot.

The ASX Margin Optimisation Service will perform calculations at 6.15pm AEST (Sydney) Time Monday to Friday (excluding Public Holidays). Cleared Future positions and Cleared OTC trades will be retrieved from relevant clearing systems as at that point in time.

## 2.7. Session Timeout

Session timeout and disconnection occurs after 60 minutes of inactivity. The user will be informed of this when attempting to perform a function in ASX Clear (Futures) Margin Simulator and asked to log in again.

Be aware that when a session times out, any unsaved or work in progress information will be lost.

## 2.8. Changing Passwords

Passwords to use the ASX Clear (Futures) service are the same as the password used to access the ASX Online service. If a user is given an ASX Online password for the first time, the user will need to change that password initially in ASX Online before trying to login to the ASX Clear (Futures) Margin Simulator.

Each password expires every 45 days and the user will be prompted by the ASX Clear (Futures) Margin Simulator to create a new password. The user will not be able to log on until the password has been changed. All password changes are conducted through ASX Online.

Be aware that the following standards apply to passwords:

- Passwords must contain characters from at least three of the following four classes:
- English upper case letters, e.g. A-Z
- English lower case letters, e.g. a-z
- Numeric values, e.g. 0-9
- Special characters e.g. \$ (dollar sign) or \_ (underscore).
- Passwords may not contain the user name or any part of the user's full name.
- Passwords must be at least 8 characters long.

- New passwords must not be the same as the previous password.

### 3. Administration Functionalities

Administrators can perform the following functions for CPs user accounts:

- Create a new user
- Edit user details.
- Enable and disable Firms

#### 3.1. Entity and User Roles Matrices

The below matrix outlines the user roles that can be assigned to a given entity.

Entity / User Role	Administrator	Allocator	Simulator	Application Support
CP	Y	Y	Y	
Client	Y		Y	
ASX	Y	Y	Y	Y

The below matrix outlines the functionality that each user role is provisioned with.

User Role	Administrative Screens*	Margin Simulation Screen	Allocation Screens**
Administrator	Y		
Allocator		Y	Y
Simulator		Y	
Application Support	Y	Y	Y



**Note:**

\*Administrative screens include Manage Users, Manage Firms Create New User

\*\*Allocation screens include Allocation, Allocation History.



### 3.2. Create a New User

To create a new user:

1. Click **Create New User** in the navigation panel.

When Create New User has been clicked, the Create New User screen is displayed.

2. Search for usernames that have already been set up in ASX Online.

ASX Online usernames are case sensitive.

3. If the username is not found then user has to be setup in ASX Online prior to granting them access in ASX Clear (Futures) Margin Simulator.

If a match is found, the following details will be populated:

ASX Online User Name

First Name

Last Name

Email Address

Firm Code

Ensure all details are correct and enter a relevant Contact Number for the CP User.

4. Nominate the user role. User roles include:

Administrator

Simulator

Allocator

5. CPs have the ability to manage their own Users and User privileges. Request a digital certificate on the user's behalf, by checking 'Request Certificate' and click "Create User" to apply changes. This will send a request to ASX Online Help Desk for a VeriSign digital certificate.

6. Click 'Close' to end the user creation process.

### 3.3. Edit User Details

To edit user details:

1. Click Manage User in the navigation panel.
2. Once Manage User has been selected, the Manage Users screen is displayed.

Username	First Name	Last Name	Firm	Email Address	Contact Number	Enabled	Role	
dba_sub	Phillip	Pharlap	DBA	ppaarlap@asx.com.au		True	CP Administrator	
dba_subapp	Pania	Tilley	DBA	tilleytest@asx.com.au		True	CP Administrator	

3. Enter user details in the Firm Code and Username fields, and click Search.

4. The user can also be searched for by entering part of the username in the Username field, and clicking Search.
5. Click the magnifying glass icon for the required user.
6. The following user details can be edited
  - Roles – Simulator / Administrator / Allocator
  - Revoke Certificate – Sends requests to ASX Online Help Desk.
  - Disable access to ASX Clear (Futures) Margin Simulator.
7. Click **Close** to end the user creation process.

### 3.4. Managing Firms

The Manage Firms screen allows ASX Application Support Users and CP Administrator users to enable and disable CP Firms or Client Firms as required. As Client Firms will not be provisioned with Administrator user roles CP Firms will manage this feature on behalf of their Client Firms.

#### 3.4.1. Application Support Users

Application Support users will be able to view, enable and disable any CP Firm and/or Client Firm.



**Note:**

Changes made by Application Support users will take precedence over changes implemented by Administration users. Further detail provided in table below.

#### 3.4.2. Administration Users

CP Administration users will be able to view and enable and disable any Client entities that sit underneath the CP's structure.

#### 3.4.3. Simulator / Allocator Users

As per user roles defined in the Entity and User Role Matrices Simulator or/ Allocator Users will not have access to the Manage Firms screen. The table below outlines the potential scenarios for enabling and disabling of Firms -

Scenario	Impact
Application Support disables a CP Firm	<ul style="list-style-type: none"> <li>CP Allocator / Simulator / Administrator unable to log into Margin Simulator, will be presented with a System Error.</li> <li>Client Simulator for associated Client Firm unable to access Margin Simulator, will be presented with a System Error (if Client Firm is only associated with one CP Firm). Client Simulator will be able to select alternative CP Firm (if associated with multiple CP Firms) and can access Margin Simulator screen.</li> </ul>
Application Support enables a CP Firm	<ul style="list-style-type: none"> <li>CP Allocator for enabled CP Firm able to select Client and House and access Allocation screen</li> <li>CP Simulator for enabled CP Firm able to select Client and House and access Margin Simulation screen</li> <li>Client Simulator for associated Client Firm user able to access Margin Simulator</li> </ul>
Application Support disables a Client Firm	<ul style="list-style-type: none"> <li>CP Allocator for associated Client Firm unable to select Client and access Allocation screen</li> <li>CP Simulator for associated Client Firm unable to select Client and access Margin Simulation screen</li> </ul>

Scenario	Impact
	<ul style="list-style-type: none"> <li>Client Simulator for disabled CP Firm unable to access Margin Simulator screen, will be presented with a System Error.</li> </ul>
ASX Application Support enables a Client Firm	<ul style="list-style-type: none"> <li>CP Allocator for associated CP Firm able to select Client and access Allocation screen</li> <li>CP Simulator for associated CP Firm able to select Client and access Margin Simulation screen</li> <li>Client Simulator for enabled Client Firm able to access Margin Simulator screen</li> </ul>
CP Administrator disables an associated Client Firm	<ul style="list-style-type: none"> <li>CP Allocator for associated CP Firm able to select Client and access Allocation screen</li> <li>CP Simulator for associated CP Firm able to select Client and access Margin Simulation screen</li> <li>Client Simulator for disabled Client Firm unable to access Margin Simulator screen, will be presented with a System Error.</li> </ul>
CP Administrator enables an associated Client Firm	<ul style="list-style-type: none"> <li>CP Allocator for enabled Firm able to select Client and access Allocation screen</li> <li>CP Simulator for enabled Firm able to select Client and access Margin Simulation screen</li> <li>Client Simulator user for associated Client Firm able to access Margin Simulator screen.</li> </ul>

## 4. Managing Allocations

### 4.1. Allocations Screen

#### 4.1.1. Overall Summary

The Allocations Screen allows the user to retrieve all Cross Margin eligible ETD positions for a given portfolio and submit modified Allocations for approval by an Administrator or approve any Allocation Instructions submitted by an Allocator. Only users with Allocator or Application Support user access will be able to access the Allocations or Allocation History Screens.



**Note:**

When a user navigates away from the Allocation screen and back via the Allocation icon in the navigation pane the data in the screen will be automatically refreshed.

If there is no Approved Allocation Instruction per instrument this will be considered as a 0 allocation.



**Note:**

A user can return to landing page at any time by clicking **Previous**.

A user can click on the instrument code and be directed to the Allocation History screen which will show allocation history data for that instrument.

#### 4.1.2. Instrument Eligibility

The following will guide the screen behaviour with regards to instrument eligibility



**Note:**

Instruments not eligible for cross margining will not be shown in the Allocations screen.

Cross margin eligible instruments with 0 Net Positions (but an equal long and short) will be shown but greyed out with 0 allocation – user cannot amend allocations

Cross margin eligible instruments with less than five days before expiry will be shown but greyed out 0 allocation – user cannot amend allocations

The Allocations Screen allows the user to retrieve all Cross Margin eligible ETD positions for a given portfolio and submit modified Allocations for approval by an Administrator or approve any Allocation Instructions submitted by an Allocator. Only users with Allocator or Application Support user access will be able to access the Allocations or Allocation History Screens.

### 4.1.3. Account Eligibility

If an account is enabled for the ASX Margin Optimisation Service then the functionality to modify, approve, reject and upload allocations will be disabled in the Allocations Screen. However the user will be able to retrieve and view the allocations derived from the ASX Margin Optimisation Service and download these allocations. Relevant buttons will be disabled and the following prompt will be provided to guide the user through the screen –

INSERT SCREEN HERE

#### 4.1.4. Retrieve Allocations

To access the Allocations Screen:

1. Click **Allocation** in the navigation panel, select the CP and Account and click **Next**.

Account Selection

Next

CP:

JPM

Account:

HOUSE



**Note:**

- If the Allocator / Administrator user belongs to ASX, they should be able to select from a dropdown list of active and enabled CPs and a drop down list of House and Client ICA accounts enabled for cross margining.
- If the Allocator / Administrator user belongs to CP, drop down list for CP codes should contain only the CP corresponding to the user. On selection of a CP a second dropdown list should be populated by selected CPs House and Client ICA accounts that are enabled for cross-margining.

- 
2. This will bring up the Allocation screen and display the Cleared ETD portfolio and any Approved Allocations for that portfolio:





[illegible]





#### 4.1.5. Modify Allocations

In order to modify allocations:





1. Click on the window pane icon for that Allocation.

Alloc Instr	Edit
0	 
0	
0	

2. Once clicked the user can enter the Allocation amount in the Allocation Instruction column. To confirm the user clicks on the green tick in the **Edit** column to confirm the entry, the record is now in a status of **Modified**.

Alloc Instr	Edit	Action	Status	Last Updated On	Last Updated By
50		  	Modified	25/06/2014 16:39:57 +10:00	ASX.osbourn_d

3. To submit the modified Allocation for approval the user must select the Allocation(s) and click on **Submit**, a prompt will ask the user to confirm the submission.

<input checked="" type="checkbox"/> Select	 Undo	 Submit	 Reject	 Approve
--	--	--	--	---

4. Once confirmed the status of the record is now **Submitted**.
5. To undo an Instruction modification click **Undo**, either under the Action column or in the header banner. The Allocation will now reflect the previous approved Allocation.



**Note:**

When an Allocator is modifying the Allocation amount it must be within the valid range (0 - <Net Position>), whether that be long (i.e. range is 0 – 3056 in example below) or short (i.e. range is -1212 – 0 in example below) per Instrument, else an error message will be displayed and erroneous rows will be highlighted.

#### 4.1.6. Approve Allocations

In order to approve allocations:

1. Select the required Allocations  
Individually select the rows or click **Select** to select all Allocations.



2. The allocations will be shown in a **Submitted** state.

Alloc Instr	Edit	Action	Status	Last Updated On	Last Updated By
50		<input type="checkbox"/>	Submitted	25/06/2014 16:46:13 +10:00	ASX.osbourn_d

3. Once the required Allocation(s) have been selected click **Approve**, or click on the green Approve symbol in the Action column.
4. The selected allocations will move to a status of **Approved** and the Last Updated On and Last Updated By values will be updated.



**Note:**

Allocator users are unable to approve their own modified Allocations, another Allocator user must approve.

If an Allocation is not approved on the same calendar day then the Modified Allocation will roll back to its last approved Allocation at 00.00 (AEST) on that calendar day.

#### 4.1.7. Reject Allocations

In order to reject allocations:

1. Select the required Allocations  
Individually select the rows or click **Select** to select all Allocations.



2. Once the required Allocation(s) have been selected click **Reject**.
3. The selected allocations will now reflect the last approved Allocation, and roll back to a status of Approved.



#### 4.1.8. Download Allocations

If the user wishes to download the current Allocation Instructions into a “.csv” file this can be downloaded by clicking **Download**.

On exporting the Allocation Instructions the user is presented with an option to save the Allocation Instructions “.csv” file to the desired location.

##### Allocation



The screenshot shows a horizontal bar with a blue background. On the left is a 'Reload' button. Next to it is a white file input field with a 'Browse...' button. To the right of the input field are two buttons: 'Upload' and 'Download'.



##### Note:

The downloaded Allocation Instructions in the CSV file will reflect the data displayed in the Allocations screen.

The CSV file containing the allocations is in the same format used to upload allocation instructions; hence a user can **Download** the CSV file with existing allocations, make amendments and **Upload** the amended CSV file.

#### 4.1.9. Upload Allocations

If the user wishes to upload modified Allocations from the .csv file template (downloaded from Allocation screen using **Download**) this can be uploaded by clicking on **Upload** and selecting the correct file.

##### Allocation



The screenshot shows a horizontal bar with a blue background. On the left is a 'Reload' button. Next to it is a white file input field with a 'Browse...' button. To the right of the input field are two buttons: 'Upload' and 'Download'.



##### Note:

The file must be in a CSV file format, else an error message will be displayed

If the AllocatedPositions value entered into the CSV file outside of the valid range (0 – NetPosition) that row will fail to be uploaded.

#### 4.1.9.1. Allocation Instructions CSV File Format

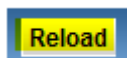
The CSV file that is used to upload Allocations Instructions contains the following fields:

Table Header	Table Header	Table Header	Data Type	Instruction to populate the field values														
1	InstrumentCode	Mandatory	String(10)	<div>Unique ASX identifier for an instrument. For example: IRH14</div> <div>Naming convention Future instrument code. Only cross margin eligible futures will be displayed:</div> <table><tr><th>Component</th><th>Field Size</th><th>Sample</th></tr><tr><td>Instrument Code</td><td>2</td><td>IR</td></tr><tr><td>Expiry Month Code</td><td>1</td><td>H</td></tr><tr><td>Expiry Year</td><td>2</td><td>14</td></tr></table>			Component	Field Size	Sample	Instrument Code	2	IR	Expiry Month Code	1	H	Expiry Year	2	14
Component	Field Size	Sample																
Instrument Code	2	IR																
Expiry Month Code	1	H																
Expiry Year	2	14																
2	InstrumentDescription	Not Mandatory	String(40)	Type of Instrument														
3	Expiry	Not Mandatory	Date mm/yyyy	Expiry Month of the contract <b>For example:</b> 03/2013														
4	LongPosition	Not Mandatory	Number	Long position of the contract <b>For example:</b> 100														
5	ShortPosition	Not Mandatory	Number	Long position of the contract <b>For example:</b> 100														
6	NetPosition	Not Mandatory	Number	Long Position – Short Position <b>For Example:</b> - 60														

Table Header	Table Header	Table Header	Data Type	Instruction to populate the field values
7	ApprovedAllocation	Not Mandatory	Number	Allocations that have been approved for the contract <b>For example:</b> 100
8	AllocatedPositions	Mandatory	Number	Allocations that have been not yet been approved for the contract. Field is editable <b>For example:</b> 100
9	Status	Not Mandatory	Character	Status of allocation instruction <b>For example:</b> SUBMITTED
10	LastUpdatedOn	Not Mandatory	Date Time	Date time the allocation instruction was last updated <b>For example:</b> 2003/2013 15:21:30
11	LastUpdatedBy	Not Mandatory	String(15)	Username of the user who last updated the allocation instruction record. <b>For Example:</b> smith_j  Where the allocation instruction has been updated by the ASX Margin Optimisation Service the following will be displayed – <b>ASX.Optimiser</b>

#### 4.1.10. Reload Allocations Screen

A user can refresh the data in the Allocations screen at any time by clicking **Reload**.



## 4.2. Allocation History Screen

### 4.2.1. Overall Summary

The Allocations History Screen allows the end user to retrieve all applied per ETD Cleared Portfolio. The Allocation History Screen will show the following:

- User Action (modifying / approving / rejecting an allocation instruction)
- System Process
- Margin Run Process.



**Note:**

When a user navigates away from the Allocation History screen and back to the Allocation History screen the data will be automatically refreshed.

Filter the Allocation History screen by the following attributes which will update dynamically (without clicking on **Reload**):

- Instrument
- Updated By
- Change Code
- Change Source.

The user is able to filter the Allocation History screen by the following date attributes which will not update dynamically (user will need to click on **Reload**) –

- Updated From
- Updated To

Filter Allocation History	
Instrument	[All] <input type="text"/>
Updated By	[All] <input type="text"/>
Change Code	[All] <input type="text"/>
Change Source	[All] <input type="text"/>
Updated From	26 / 06 / 2014 10 : 02
Updated To	27 / 06 / 2014 10 : 02



**Note:**

By default when a user logs into the Allocation History Screen Update From and Updated To will reflect the previous business day until the end of the current business day (i.e. 00.00 T-1 – 23.59 T)

Only fields that are relevant to the change code / change source will be displayed with values in the Allocation History screen

#### 4.2.2. Change Code and Change Source Definitions

Below table outlines description of all values in Change Code column –

Change Code	Description
MODIFIED	When an Allocation Instruction has been modified by a user
APPROVED	When an Allocation Instruction has been approved by a user
REJECTED	When an Allocation Instruction has been rejected by a user
DELETE	When an Allocation Instruction has been deleted
MARGIN_RUN	When the log entry is created as a result of the margin run process or as a result of the ASX Margin Optimisation Service process.

Below table outlines description of all values in Change Source column –

Change Source	Description
ASX.OPTIMISER	When an allocation has been automatically updated by the ASX Margin Optimisation Service
USER_UPDATE	When the log entry is created as a result of a user action
CPNOTELIGIBLE	When an Allocation Instruction has been deleted because CP is no longer eligible.
CPNOTELIGIBLEFORXMARG	When an Allocation Instruction has been deleted because CP is no longer eligible for cross margining.
CONTRACTINELIGIBLE	When an Allocation Instruction has been deleted because Contract is no longer eligible for cross margining.
TRADEATELIMIT	When an Allocation Instruction has been removed because the Instrument it refers to is nearing its expiry.
ROLLBACK	When a modified Allocation Instruction has been rolled back to its previous state – i.e. after a rejection or on T+1 if no approval received.
NO_ADJUST	Triggered by Margin Run process. When a positional movement of the Net Position has occurred but no amendment of the Allocation Instruction is required.
ADJUST_LONG	Triggered by Margin Run process. When an Allocation Instruction, which is a long allocation, (i.e. 5) is amended as a result of a positional movement of the Net Position.
ADJUST_LONG_ZERO	Triggered by Margin Run process. When an Allocation Instruction, which is a long allocation, (i.e. 5) is amended to 0 as a result of a positional movement of the Net Position.
ADJUST_SHORT	Triggered by Margin Run process. When an Allocation Instruction, which is a short allocation (i.e. -5), is amended as a result of a positional movement of the Net Position.
ADJUST_SHORT_ZERO	Triggered by Margin Run process. When an Allocation Instruction, which is a short allocation, (i.e. -5) is amended to 0 as a result in a positional movement of the Net Position.

### 4.2.3. Retrieve Allocation History

To access the Allocations History screen click **Allocation History** in the navigation panel, and select the CP and Account and click **Next**.

This displays the Allocation History screen and display any Allocation History for that portfolio.



**Note:**

If the Allocator / Administrator user belongs to ASX, they should be able to select from a dropdown list of active and enabled CPs and a drop down list of House and Client ICA accounts enabled for cross margining.

If the Allocator / Administrator user belongs to CP, drop down list for CP codes should contain only the CP corresponding to the user. On selection of a CP a second dropdown list should be populated by selected CPs House and Client ICA accounts that are enabled for cross-margining.

### 4.2.4. Download Allocation History

If the user wishes to download the Allocation History as displayed in the screen into a “.csv” file this can be downloaded by clicking on **Download**.

#### Allocation History

On exporting the Allocation Instructions the user is presented with an option to save the Allocation Instructions “.csv” file to the desired location. The file format of the exported allocations CSV file is explained below.

### 4.3. Reload Allocations History Screen

To refresh the Allocations screen at any time click **Reload**.

#### Allocation History

### 4.4. Margin Run Process

1. The Margin Simulator will consider the impact of any positional changes that have occurred to cross margin eligible ETD positions as a result of Intraday 1, Intraday 2, EOD or Adhoc Margin Runs.
2. A position allocation instructed for cross-margining may become ineligible as a result of a margin run since the position in the clearing system (Genium) may have changed or been closed out and thus the recorded cross-margin allocation instruction may sit outside of the acceptable range of 0-<Net Position>.
3. To manage this, Margin Simulator will perform a series of validation checks triggered by the aforementioned margin runs and make cross margin allocation adjustments as and when the allocation falls outside of the acceptable range. A full history of any amendments made by the Margin Run process can be found in the Allocation History screen.
4. ASX Reporting will give a full breakdown of the allocation of futures used for cross margining purposes.

## 5. Performing Simulation

### 5.1. Overall Simulation Workflow

On successful login the welcome landing page is presented. The application is designed like a wizard where the user has to click on Next to progress through the process. Previous and Start Again icons are provided to go back to previous step(s) or restart the simulation process. This section of the guide provides an overall summary – further detail on each step can be found later in this guide.

In order to perform simulation:

1. Start – Landing Page. The landing page will be presented upon login.

**ASX Margin Simulator**

Next Start Again

HSVAR is applied on

- Cleared OTC Portfolio
- Additional OTC Portfolio
- Cross Margined Futures

SPAN is applied on

- Residual Cleared Futures
- Residual Additional Futures

**Steps To Use This Tool**

1. Account Selection: Select the CP and account against which the margin simulation is to be run
2. OTC portfolio: Import the cleared OTC portfolio and/or add additional OTC trades
3. Futures Portfolio: Import the cleared futures portfolio and/or add additional futures
4. Futures Portfolio: Allocate futures positions for cross margining
5. Simulation Results: Submit cleared and/or custom portfolios for simulation and receive simulation results

**Disclaimer**

Results calculated by the ASX Margin Simulator may be subject to additional add-ons or other amendments before being called as Clearing Participant margins, and therefore are provided by ASX as indications only of actual margin obligations.

2. Select the CP and Account that contains the positions on which simulation will be performed.

**Account Selection**

Previous Next Start Again

CP:

Account:

3. Create OTC Simulation Portfolio.

**OTC Portfolio**

Download Reset Previous Next Start Again

**Cleared** Import ☒ Include in simulation

AS \$ IRS Sensitivities		AS \$ OIS Sensitivities	
	Total		Total
PV01	-34,512,345.23	PV01	-456,789,123.23

**Custom**  Browse... Upload Download Template ☒ Include in simulation

4. Create Futures Simulation portfolio and mark positions for cross margining, further information on this process can be found

#### Futures Portfolio

Download Reset Previous Next Start Again										
Cleared Import <input checked="" type="checkbox"/> Include in simulation										
Business Date	Instrument	Expiry	Long Position	Short Position	Net Position	Strike Price	Call/Put	Settlement Price	Alloc Position	Edit
03/09/2014	BF15	02/2015	328	0	328	0.000000		97.360000	13	
03/09/2014	BG15	03/2015	1388	0	1388	0.000000		97.360000	0	
03/09/2014	BH15	04/2015	292	0	292	0.000000		97.360000	0	
03/09/2014	BJ15	05/2015	0	100	-100	0.000000		97.360000	0	
03/09/2014	BK15	06/2015	50	0	50	0.000000		97.360000	0	
03/09/2014	BU14	10/2014	0	1311	-1311	0.000000		97.390000	0	
03/09/2014	BV14	11/2014	325	575	-250	0.000000		97.355000	0	
03/09/2014	BV15	11/2015	5	0	5	0.000000		97.360000	0	
03/09/2014	BX14	12/2014	307	1	306	0.000000		97.355000	0	
03/09/2014	BZ14	01/2015	1677	800	877	0.000000		97.355000	0	
03/09/2014	RH15	03/2015	18102	23010	-4908	0.000000		96.600000	-908	
03/09/2014	RH16	03/2016	1485	542	943	0.000000		96.050000	0	
03/09/2014	RH17	03/2017	41	0	41	0.000000		95.850000	0	
03/09/2014	RM15	06/2015	11946	14008	-2062	0.000000		96.300000	0	
03/09/2014	RM16	06/2016	275	188	87	0.000000		96.000000	0	
03/09/2014	RM17	06/2017	20	0	20	0.000000		95.800000	0	
03/09/2014	RU14	09/2014	2309	11313	-9004	0.000000		96.800000	0	
03/09/2014	RU15	09/2015	7028	12473	-5445	0.000000		96.250000	0	
03/09/2014	RU16	09/2016	0	10	-10	0.000000		95.950000	0	
03/09/2014	RZ14	12/2014	20833	13896	7137	0.000000		96.700000	0	
03/09/2014	RZ15	12/2015	3603	2825	978	0.000000		96.100000	0	
03/09/2014	RZ16	12/2016	21	0	21	0.000000		95.900000	0	
03/09/2014	XTU14	09/2014	49629	60802	-11173	0.000000		95.955000	-10000	
03/09/2014	YTU14	09/2014	116113	129029	-12916	0.000000		97.100000	-12000	
03/09/2014	APH15	03/2015	0	333	-333	0.000000		5525.000000	0	
03/09/2014	APH154500P	03/2015	800	0	800	3000.000000	P	61.000000	0	

5. Start the Margin Simulation

Simulation Results	
Previous Start Again	
<div>Start the margin simulation</div>	

6. View Simulation results.



Simulation Results

Previous

Start Again

CP

Account

HOUSE

Market data & cleared trade data as at 06-08-2014 11:43:16

IM

OTC HSVaR

89,701.26

Futures SPAN

5,400.00

Total

95,101.26

OTC NPV

Cleared Portfolio

-12,668,429.01

Simulated Portfolio

0.00

NPV Change

12,668,429.01

Download simulation results

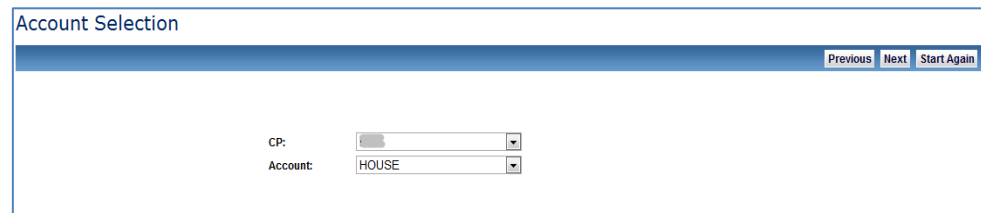
Download OTC hedge report

Download futures hedge report

Clear results

## 5.2. Account Selection

Account selection provides the CPs the functionality to select the account that will be used to retrieve cleared positions to perform simulation on.



Account Selection

Previous Next Start Again

CP:

Account: HOUSE



### Note:

Based on the account selected the ASX Clear (Futures) Margin Simulator will allow the user to perform following types of simulations:

- Cross Margin Simulation (for cross margin enabled accounts)
- OTC Only Simulation (for OTC Only accounts)
- Futures Only Simulation (for ETD Only accounts).

If the user wishes to perform cross-margin simulation, but the users firm does not have a cross margin enabled account, contact the relevant relationship manager at ASX.

### 5.3. OTC Portfolio Screen

#### 5.3.1. Overall Summary

OTC Portfolio Screen provides a provision for the end user to create an OTC simulation portfolio.

The simulation portfolio can be made up on either or both of the following components:

- Existing OTC cleared portfolio
- Custom OTC trade portfolio.

#### 5.3.2. Retrieve Cleared Portfolio

In order to retrieve a cleared portfolio:

Import the cleared OTC portfolio into the ASX Clear (Futures) Margin Simulator by clicking Import on the top- left hand side of the screen.

Clicking the “Import Cleared portfolio” will display the PV01 representation of the cleared OTC portfolio as shown in Figure below:

OTC Portfolio			
Download Reset		Previous Next Start Again	
Cleared Import		<input checked="" type="checkbox"/> Include in simulation	
AS IRS Sensitivities		AS OIS Sensitivities	
PV01 Total		PV01 Total	
-34,512,345.23		-456,789,123.23	



#### Note:

- In case the user does not wish to include the cleared portfolio in the Margin Simulation, one of the solutions is to not import OTC cleared portfolio in the ASX Clear (Futures) Margin Simulator.
- PV01 values do not include cross margined futures positions.
- Cleared Future positions retrieved for simulation after 7pm AEST will only be correct as at a 7pm snapshot. Users have no restriction on performing Margin Simulation by uploading custom futures portfolios out of hours.

#### 5.3.3. Export Cleared Portfolio

In order to export a cleared portfolio:

1. Export the cleared OTC trades into a “.csv” file format by clicking on **Download**.

This will display the details of the trades underlying the PV01 representation of the cleared portfolio.

OTC Portfolio	
Download	Reset

2. On exporting the cleared portfolio the user is presented with an option to save the trade “.csv” file to the desired location.

The file format of the exported cleared portfolio is explained in [Upload Custom Portfolio- CSV File Format](#) section.



#### Note:

- The exported trade file is the same format to upload custom portfolio for simulation. If users wish to do so, they can

manipulate the contents of the file and upload the trades as custom portfolio for simulation.

- Ensure [Include in Simulation](#) checkbox is selected for Cleared portfolio to download the Cleared portfolio in a csv file.

#### 5.3.4. Upload Custom Portfolio

In order to upload a custom portfolio:

1. Upload the cleared OTC trades into a “.csv” file format by clicking on **Upload**.
2. This will display the details of the trades underlying the PV01 representation of the cleared portfolio.

Upload custom portfolio feature enables the user to include custom OTC portfolio positions in the margin simulation run.

The user may choose to run the simulation on a portfolio made up on of custom portfolio only or custom portfolio in combination with the cleared portfolio.

The custom portfolio must only include OTC positions that are eligible to be cleared by ASX. The custom portfolio uploaded is subjected to the trade eligibility checks similar to the production environment. For full details of ASX OTC trade eligibility refer to the [ASX OTC Handbook](#).



**Note:**

- If the custom portfolio provided for simulation contains positions that do not pass ASX's trade eligibility checks, the entire simulation portfolio batch is rejected.
- The file must be in a CSV file format, else an error message will be displayed

##### 5.3.4.1. Download OTC Template

Custom Portfolio is uploaded using a pre-defined CSV file template. This template can be downloaded by clicking on the Download Template link on the bottom half of the screen.

### 5.3.4.2. CSV File Format

The CSV file that is used to upload custom OTC portfolio for Simulation contains the following fields and properties:

Field No	Field Name	Required	Data Type	Instruction to populate the CSV Field Values
1.	TradeType	Mandatory	String(10)	Acceptable Values include : <ul style="list-style-type: none"> <li>• CPPAYSFIX- To be used when CP running the simulation is Paying Fixed Leg of the IRS</li> <li>• CPPAYSFLOAT - To be used when CP running the simulation is Paying Floating leg of the IRS</li> <li>• CPPAYSBASIS – To be used when the IRS trade being simulated is a basis SWAP.</li> </ul>
2.	Notional	Mandatory	Number	Notional Amount of the trade For e.g. : 1000000
3.	Currency	Mandatory	String(3)	Currency code of the SWAP. Note currently only A\$ trades are accepted. For example: AUD
4.	StartDate	Mandatory	Date dd/mm/yyyy	Start date of the SWAP trade For example: 16/03/2013
5.	EndDate	Mandatory	Date dd/mm/yyyy	End date of the SWAP trade For example: 16/03/2015
6.	FixedRate	Conditional Mandatory	Number	Interest rate for the fixed leg of the trade in percent (without the percentage % sign) Condition: Only to be filled in for : <ul style="list-style-type: none"> <li>• CPPAYSFIX</li> <li>• CPPAYSFLOA</li> <li>• Leave Blank for CPPAYSBASIS</li> </ul>

Field No	Field Name	Required	Data Type	Instruction to populate the CSV Field Values
				For example: 2.5
7.	Spread	Conditional Mandatory	Number	<p>Spread to be applied on the Index for the floating leg of the trade in percent (without the percentage % sign)</p> <p>Condition:</p> <p>Only to be filled in for :</p> <ul style="list-style-type: none"> <li>• CPPAYSFIX</li> <li>• CPPAYSFLOAT</li> <li>• Leave Blank for CPPAYSBASIS</li> </ul> <p>For example: 0.01</p>
8.	RateIndex	Conditional Mandatory	String(13)	<p>Index for the floating leg of the trade</p> <p>The field RateIndex is made up of 3 components separated by the # symbol:</p> <ul style="list-style-type: none"> <li>• Currency(3 Chars) : for example AUD</li> <li>• Index name : for example BBSW (Max 6 Char)</li> <li>• Tenor for the Index: For example: 3M (2 Char)</li> </ul> <p>Condition:</p> <p>Only to be filled in for :</p> <ul style="list-style-type: none"> <li>• CPPAYSFIX</li> <li>• CPPAYFSLOAT</li> <li>• Leave Blank for CPPAYSBASIS</li> </ul> <p>For example:</p> <ul style="list-style-type: none"> <li>• AUD#BBSW#3M,</li> <li>• AUD#BBSW#6M</li> <li>• AUD#AONIA#1D</li> </ul>

Field No	Field Name	Required	Data Type	Instruction to populate the CSV Field Values
9.	FixLegCoupon Frequency	Conditional Mandatory	String(4)	<p>Frequency when the fix leg of the trade is paid</p> <p>a) Valid Values for IRS(BBSW) i)QTR, ii)PA, iii)SA, d)ZC, b) Valid Values for OIS(AONIA) ii)PA, b)ZC</p> <p>Condition: Only to be filled in for :</p> <ul style="list-style-type: none"> <li>• CPPAYSFIX</li> <li>• CPPAYSFLOAT</li> <li>• Leave Blank for CPPAYSBASIS</li> </ul>
10.	FloatingLegCoupon Frequency	Conditional Mandatory	String(4)	<p>Frequency when the floating leg of the trade is paid</p> <p>a) Valid Values for IRS(BBSW) i)QTR, ii)SA, b) Valid Values for OIS(AONIA) ii)PA, b)ZC</p> <p>Condition: Only to be filled in for :</p> <ul style="list-style-type: none"> <li>• CPPAYSFIX</li> <li>• CPPAYSFLOAT</li> <li>• Leave Blank for CPPAYSBASIS</li> </ul>
11.	DateRoll	Mandatory	String(10)	<p>Instruction to handle payment, if the payment date falls on a holiday, weekend, and month end.</p> <p>Valid Values are : MOD_FOLLOW</p> <ul style="list-style-type: none"> <li>• FOLLOWING</li> <li>• NO_CHANGE</li> <li>• PRECEDING</li> </ul>

Field No	Field Name	Required	Data Type	Instruction to populate the CSV Field Values
12.	DayCount	Mandatory	String(8)	Interest calculation basis (dependent on currency of the trade) For A\$ trade valid value: ACT_365
13.	PeriodRule	Optional	String(8)	Accrual Method Valid Values: <ul style="list-style-type: none"> <li>ADJUSTED</li> </ul>
14.	CouponStubRule	Optional	String(16)	Describes how stub periods will be handled for a trade note: ASX Clear (Futures) Margin Simulator applies the same Coupon StubRule across both the legs of the trade. Valid Values are: <ul style="list-style-type: none"> <li>NONE</li> <li>SHORT FIRST</li> <li>LONG FIRST</li> <li>SHORT LAST</li> </ul>
15.	PayLegRateIndex	Conditional Mandatory	String(13)	CP Pay leg rate index to be used for basis swap  The field PayLegRateIndex is made up of 3 components separated by the # symbol: Currency(3 Chars) : for example AUD Index name : for example BBSW (Max 6 Char) Tenor for the Index: For example: 3M (2 Char)  Condition: Only to be filled in for : CPPAYSBASIS Leave Blank for <ul style="list-style-type: none"> <li>CPPAYSFIX</li> </ul>



Field No	Field Name	Required	Data Type	Instruction to populate the CSV Field Values
				<ul style="list-style-type: none"> <li>CPPAYSFLOAT</li> </ul> <p>For example:</p> <ul style="list-style-type: none"> <li>AUD#BBSW#3M,</li> <li>AUD#BBSW#6M</li> </ul>
16.	PayLegSpread	Conditional Mandatory	Number	<p>Spread to be applied on the Index when the CP is Paying floating leg of the basis swap in percent (without the percentage % sign)</p> <p>Condition: Only to be filled in for :</p> <ul style="list-style-type: none"> <li>CPPAYSBASIS</li> </ul> <p>Leave Blank for</p> <ul style="list-style-type: none"> <li>CPPAYSFIX</li> <li>CPPAYSFLOAT</li> </ul> <p>For example: 0.01</p>
17.	PayLegCouponFrequency	Conditional Mandatory	String(4)	<p>Payment frequency when the CP is Paying floating leg of the basis swap</p> <p>Valid Values</p> <ul style="list-style-type: none"> <li>)QTR,ii)SA</li> </ul> <p>Condition: Only to be filled in for :</p> <ul style="list-style-type: none"> <li>CPPAYSBASIS</li> </ul> <p>Leave Blank for</p> <ul style="list-style-type: none"> <li>CPPAYSFIX</li> <li>CPPAYSFLOAT</li> </ul>

Field No	Field Name	Required	Data Type	Instruction to populate the CSV Field Values
18.	ReceiveLegRateIndex	Conditional Mandatory	String(13)	<p>CP Receive leg rate index to be used for basis swap in percent</p> <p>The field ReceiveLegRateIndex is made up of 3 components separated by the # symbol:  Currency(3 Chars) : for example AUD  Index name : for example BBSW (Max 6 Char)  Tenor for the Index: For example: 3M (2 Char).</p> <p>Condition:  Only to be filled in for :  <ul style="list-style-type: none"> <li>• CPPAYSBASIS</li> </ul> Leave Blank for  <ul style="list-style-type: none"> <li>• CPPAYSFIX</li> <li>• CPPAYSFLOAT</li> </ul> <p>For example:  AUD#BBSW#3M,  AUD#BBSW#6M.</p> </p>
19.	ReceiveLegSpread	Conditional Mandatory	Number	<p>Spread to be applied on the Index when the CP is Receiving floating leg of the basis swap in percent (without the percentage % sign)</p> <p>Condition:  Only to be filled in for :  <ul style="list-style-type: none"> <li>• CPPAYSBASIS</li> </ul> Leave Blank for  <ul style="list-style-type: none"> <li>• CPPAYSFIX</li> <li>• CPPAYSFLOAT</li> </ul> </p>

Field No	Field Name	Required	Data Type	Instruction to populate the CSV Field Values
				For example: 0.01
20.	ReceiveLegCoupon Frequency	Conditional Mandatory	String(4)	Payment frequency when the CP is Receiving floating leg of the basis swap Valid Values i)QTR,ii)SA Condition: Only to be filled in for : <ul style="list-style-type: none"> <li>• CPPAYSBASIS</li> </ul> Leave Blank for <ul style="list-style-type: none"> <li>• CPPAYSFIX</li> <li>• CPPAYSFLOAT</li> </ul>
21.	TradeIdentifier	Optional	Number	Contains the ASX trade Identifier for the cleared trades. Should be left blank for Custom portfolio being uploaded.

### 5.3.4.3. Upload CSV File Containing Custom OTC Portfolio

The CSV file containing the custom OTC portfolio is uploaded from the user's PC by browsing to the CSV file location and clicking upload.

### 5.3.5. Include in Simulation

In order to include a portfolio in simulation:

Check the **Include in simulation** toggle (checkbox) against the cleared and custom portfolio sections to include the desired portfolio in the simulation run.

The **simulation portfolio** is defined as the combination of cleared and custom portfolio that will be submitted to ASX Clear (Futures) Margin Simulator to calculate the margin requirements.

ASX Clear (Futures) Margin Simulator provides the flexibility to include either or both of custom and cleared OTC portfolios in the simulation run.



Note:

- Include in simulation checkbox also controls the functionality of Download OTC simulation Portfolio. Portfolio section(s) selected to be included in simulation will be downloaded or reset when such a request is made.

### 5.3.6. Download OTC Simulation Portfolio

To export the trades included in the Simulation portfolio, click Download at the top-left corner of the screen.



Note:

- The downloaded OTC simulation portfolio contains the trades in section (cleared or custom) that has **Include in Simulation** checked.
- The CSV file containing the downloaded simulation portfolio is in the same format used to upload custom OTC portfolio for simulation.

### 5.3.7. Reset the OTC Simulation Portfolio

In order to reset the OTC simulation portfolio:

Click on Reset OTC Simulation Portfolio at the top-left corner of the screen.

Clicking Reset will remove the trades that have been included in the OTC simulation portfolio.

## 5.4. Futures Portfolio Screen

### 5.4.1. Overall Summary

Futures Portfolio Screen provides a provision for the end user to create a Futures simulation portfolio.

The simulation portfolio can be made up of either or both of the following components:

- Existing Futures cleared portfolio
- Custom Futures portfolio.

### 5.4.2. Valid ETD Instrument Codes

Following table lists the instrument codes that are allowed in the futures portfolio screen, the Valid ETD instrument set also contains:

- Interest rate future positions eligible for cross margining
- Interest rate and commodity future and option positions that are not enabled for cross-margining. Such positions can contribute to margin offsets but such positions cannot be cross-margined.

Instrument Code	Instrument Name	Eligible for Cross-margining
IB	ASX 30 Day Interbank Cash Rate Futures	Yes
IB	ASX 30 Day Interbank Cash Rate Options	No
IR	ASX 90 Day Bank Accepted Bill Futures	Yes
IR	ASX 90 Day Bank Accepted Bill Options	No
OI	ASX 3 Month Overnight Index Swap Futures	No
YT	ASX 3 Year Treasury Bond Futures	Yes
YT	ASX 3 Year Treasury Bond Options	No
XT	ASX 10 Year Treasury Bond Futures	Yes
XT	ASX 10 Year Treasury Bond Options	No
XS	ASX 10 Year Interest Rate Swap Futures	No
XX	ASX 20 Year Interest Rate Swap Futures	Yes
YS	ASX 3 Year Interest Rate Swap Futures	No
AP	ASX SPI 200 Futures	No
AF	S&P/ASX 200 Financials-x-A-REIT Futures	No
AR	S&P/ASX 200 Resources Index Futures	No
VI	S&P/ASX 200 VIX (A-VIX) Futures	No
WK	ASX WA Wheat Futures	No
VW	ASX NSW Wheat Futures	No
UB	ASX Eastern Australia Feed Barley	No
VC	ASX Eastern Australia Canola	No
US	ASX Australian Sorghum	No
BN	ASX AUS - Quarterly Base Load Electricity Futures – NSW Base Load	No
BV	ASX AUS - Quarterly Base Load Electricity Futures – VIC Base Load	No

BS	ASX AUS - Quarterly Base Load Electricity Futures – SA Base Load	No
BQ	ASX AUS - Quarterly Base Load Electricity Futures – QLD Base Load	No
EN	ASX AUS – Monthly Base Load Electricity Futures – NSW Base Load	No
EV	ASX AUS - Monthly Base Load Electricity Futures – VIC Base Load	No
ES	ASX AUS - Monthly Base Load Electricity Futures – SA Base Load	No
EQ	ASX AUS - Monthly Base Load Electricity Futures – QLD Base Load	No
PN	ASX AUS -Peak Period Electricity Futures – NSW Peak Period	No
PV	ASX AUS -Peak Period Electricity Futures – VIC Peak Period	No
PS	ASX AUS -Peak Period Electricity Futures – SA Peak Period	No
PQ	ASX AUS -Peak Period Electricity Futures – QLD Peak Period	No
GN	ASX AUS - Base \$300 CAP Electricity Futures – NSW Base \$300 CAP	No
GV	ASX AUS - Base \$300 CAP Electricity Futures – VIC Base \$300 CAP	No
GS	ASX AUS - Base \$300 CAP Electricity Futures – SA Base \$300 CAP	No
GQ	ASX AUS - Base \$300 CAP Electricity Futures – QLD Base \$300 CAP	No
HN	ASX AUS - Base Load Electricity Strip Option - NSW Base Load Strip	No
HV	ASX AUS - Base Load Electricity Strip Option - VIC Base Load Strip	No
HS	ASX AUS - Base Load Electricity Strip Option - SA Base Load Strip	No
HQ	ASX AUS - Base Load Electricity Strip Option - QLD Base Load Strip	No
GX	ASX - AUS- ASX Victorian Wholesale Gas & Strip Futures – Gas Futures	No
EO	ASX - AUS- ASX Victorian Wholesale Gas & Strip Futures – Renewable Energy Certificate	No
GY	ASX - AUS- ASX Victorian Wholesale Gas & Strip Futures – Gas Strip Futures	No

#### 5.4.3. Retrieve Cleared Portfolio and Allocations

In order to retrieve cleared portfolio and allocations:

Click on **Import** on the top left hand side of the screen.

Existing cleared future portfolio can be used in ASX Clear (Futures) Margin Simulator by importing the cleared futures portfolio.

All futures and options positions from the cleared portfolio as well as the Allocation Position will be imported, which will reflect the last approved Allocation Instruction. Upon import any ineligible products and ineligible allocations will be highlighted in the screen.

**Cleared**

























On clicking the “Import Cleared portfolio” the user will see the cleared futures/ETD portfolio and Allocation Position as shown in Figure below:

#### Futures Portfolio

DownloadResetPreviousNextStart Again

ClearedImport

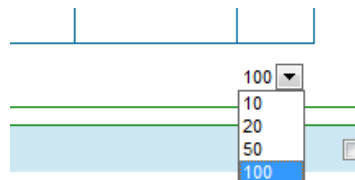
☒ Include in simulation

Business Date	Instrument	Expiry	Long Position	Short Position	Net Position	Strike Price	Call/Put	Settlement Price	Alloc Position	Edit
03/09/2014	IBF15	02/2015	328	0	328	0.0000000		97.3600000	13	
03/09/2014	IBG15	03/2015	1388	0	1388	0.0000000		97.3600000	0	
03/09/2014	IBH15	04/2015	292	0	292	0.0000000		97.3600000	0	
03/09/2014	IBJ15	05/2015	0	100	-100	0.0000000		97.3600000	0	
03/09/2014	IBK15	06/2015	50	0	50	0.0000000		97.3600000	0	
03/09/2014	IBU14	10/2014	0	1311	-1311	0.0000000		97.3900000	0	
03/09/2014	IBV14	11/2014	325	575	-250	0.0000000		97.3550000	0	
03/09/2014	IBV15	11/2015	5	0	5	0.0000000		97.3600000	0	
03/09/2014	IBX14	12/2014	307	1	306	0.0000000		97.3550000	0	
03/09/2014	IBZ14	01/2015	1677	800	877	0.0000000		97.3550000	0	
03/09/2014	IRH15	03/2015	18102	23010	-4908	0.0000000		96.6000000	-908	
03/09/2014	IRH16	03/2016	1485	542	943	0.0000000		96.0500000	0	
03/09/2014	IRH17	03/2017	41	0	41	0.0000000		95.8500000	0	
03/09/2014	IRM15	06/2015	11946	14008	-2062	0.0000000		96.3000000	0	
03/09/2014	IRM16	06/2016	275	188	87	0.0000000		96.0000000	0	
03/09/2014	IRM17	06/2017	20	0	20	0.0000000		95.8000000	0	
03/09/2014	IRU14	09/2014	2309	11313	-9004	0.0000000		96.8000000	0	
03/09/2014	IRU15	09/2015	7028	12473	-5445	0.0000000		96.2500000	0	
03/09/2014	IRU16	09/2016	0	10	-10	0.0000000		95.9500000	0	
03/09/2014	IRZ14	12/2014	20833	13696	7137	0.0000000		96.7000000	0	
03/09/2014	IRZ15	12/2015	3603	2625	978	0.0000000		96.1000000	0	
03/09/2014	IRZ16	12/2016	21	0	21	0.0000000		95.9000000	0	
03/09/2014	XTU14	09/2014	49629	60802	-11173	0.0000000		95.9550000	-10000	
03/09/2014	YTU14	09/2014	116113	129029	-12916	0.0000000		97.1000000	-12000	
03/09/2014	APH15	03/2015	0	333	-333	0.0000000		5525.0000000	0	
03/09/2014	APH1545000P	03/2015	800	0	800	3000.0000000	P	61.0000000	0	



#### Note:

- The imported futures portfolio contains any cleared positions that belong to the [Valid ETD Instrument](#) set.
- Positions that are or have become ineligible should have no allocated positions. If there are any allocations for ineligible positions then these allocation must be removed in the source clearing system.
- Up to 100 cleared futures positions can displayed to a page. The number of positions displayed can be adjusted by clicking the following drop down box located at the bottom of the futures grid. Note that the default number of positions returned is 10:



#### Custom Portfolio Behaviour - Eligibility

- Instruments not eligible for cross margining and simulation will be greyed out and “Invalid Instrument” message shown
- Instruments eligible for simulation only will be shown with allocation box un-editable

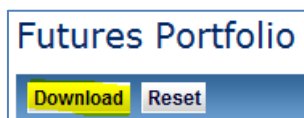
- Cross margin eligible instruments with < 5 days before expiry will be shown but greyed out with 0 allocation – user cannot amend allocations

#### Cleared Portfolio Behaviour - Eligibility

- Instruments not eligible for cross margining and simulation not shown
- Instruments eligible for simulation only will be shown with allocation box un-editable
- Cross margin eligible instruments with 0 Net Positions (100 long, 100 short) will be shown.
- Cross margin eligible instruments with 0 Net Positions (100 long, 100 short) will have 0 allocation positions - user cannot amend allocations.
- Cross margin eligible instruments with < 5 days before expiry will be shown but greyed out 0 allocation – user cannot amend allocations
- The Allocation Positions field will be highlighted red if the amount is outside the acceptable range (0-<Net Position>), whether that be long or short per Instrument, and an error message will be displayed. If user proceeds then the Allocated Position will be sent to Calypso for margining and the difference between the Allocation Instruction and the Net position will be sent to MES SPAN for margining, as a Long / Short Position, to account for difference, dependant on direction of Allocated Positions.
- ASX Clear (Futures) Margin Simulator uses previous End of Day settlement prices to calculate Initial Margin (IM); as a result any new instrument codes created today will not have the prices available for IM calculations. Therefore these positions are not included in simulation. Any simulation to include these instrument codes will have to be performed the next day.

#### 5.4.4. Export Cleared Portfolio

User can export the cleared Futures into a “.csv” file format by clicking the **Download**



On exporting the cleared portfolio the user is presented with an option to save the trade “.csv” file to the desired location.

The file format of the exported cleared portfolio is explained in [Upload Custom Portfolio- CSV File Format](#) section.



#### Note:

- The exported position file is in the same format used to upload custom portfolio for simulation. If users wish to do so, they can manipulate the contents of the exported file and upload the positions as custom portfolio for simulation.
- Ensure [Include in Simulation](#) checkbox is selected for Cleared portfolio to download the Cleared portfolio in a csv file.



### 5.4.5. Upload Custom Portfolio

The upload custom portfolio feature enables the user to include custom futures portfolio positions in the margin simulation run.

The user may choose to run the simulation on a portfolio made up of custom portfolio only or custom portfolio in combination with the cleared portfolio.

The custom portfolio must only include [valid ETD instruments](#) positions only. The custom portfolio uploaded is subjected to the eligibility checks for valid product types.



#### Note

- A user may upload valid Interest rate options positions and Interest rate future positions not enabled for cross-margining; as such positions can contribute to margin offsets; however these positions cannot be cross-margined.
- The file must be in a CSV file format, else an error message will be displayed
- The file will fail to upload if Allocated Positions is greater than Net Positions in the custom portfolio file. If so an error message will advise the user of the failing record.
- The uploaded custom positions having *Allocation Positions* field disabled (greyed out) signify that these positions are ineligible for cross margining. This can be for one of the following reasons:
- Contract is not eligible for cross margining (for example: an Options contract OR a Futures Contract not enabled for cross-margining).
- Contract is eligible but position does not satisfy the eligibility criteria for cross margining (for example: an ASX 30 Day Interbank Cash Rate Futures contract expiring in next 3 days).
- Allocations for these positions must be removed in the CSV file and uploaded again.

#### 5.4.5.1. Download Futures Template

Custom Portfolio is uploaded using a pre-defined CSV file template. This template can be downloaded by clicking on the **Download Template** link on the bottom half of the screen.

### 5.4.5.2. CSV File Format

The CSV file that is used to upload custom futures portfolio for Simulation contains the following fields:


Field No	Field Name	Required	Data Type	Instruction to populate the field values																											
1	BusinessDate	Mandatory	Date dd/mm/yyyy	The date the position was held. For custom portfolio it will be todays date. e.g. : 01/12/2013																											
2	InstrumentCode	Mandatory	String(10)	Unique ASX identifier for an instrument. For example: IRH14 IRH1494500P  Naming convention Future instrument code: <table><tr><th>Component</th><th>Field Size</th><th>Sample</th></tr><tr><td>Instrument Code</td><td>2</td><td>IR</td></tr><tr><td>Expiry Month Code</td><td>1</td><td>H</td></tr><tr><td>Expiry Year</td><td>2</td><td>14</td></tr></table> Naming convention Option instrument code: <table><tr><th>Component</th><th>Field Size</th><th>Sample</th></tr><tr><td>Instrument Code</td><td>2</td><td>IR</td></tr><tr><td>Expiry Month Code</td><td>1</td><td>H</td></tr><tr><td>Expiry Year</td><td>2</td><td>14</td></tr><tr><td>Strike price</td><td>5</td><td>94500</td></tr></table>	Component	Field Size	Sample	Instrument Code	2	IR	Expiry Month Code	1	H	Expiry Year	2	14	Component	Field Size	Sample	Instrument Code	2	IR	Expiry Month Code	1	H	Expiry Year	2	14	Strike price	5	94500
Component	Field Size	Sample																													
Instrument Code	2	IR																													
Expiry Month Code	1	H																													
Expiry Year	2	14																													
Component	Field Size	Sample																													
Instrument Code	2	IR																													
Expiry Month Code	1	H																													
Expiry Year	2	14																													
Strike price	5	94500																													

Field No	Field Name	Required	Data Type	Instruction to populate the field values			
				Call or Put	1	P	
3	InstrumentName	Optional	String(40)	Type of Instrument Refer to <a href="#">Valid ETD instruments</a>			
4	Expiry	Optional	Date mm/yyyy	Expiry Month of the contract <b>For example:</b> 03/2013			
5	LongPosition	Mandatory	Number	Long position of the contract <b>For example:</b> 100			
6	ShortPosition	Mandatory	Number	Short position of the contract <b>For example:</b> 120			
7	NetPositions	Mandatory	Number	Long Position – Short Position <b>For Example:</b> - 60			
8	StrikePrice	Optional	Number	The strike price for the option <b>Condition:</b> To be entered only for an Option Position <b>For example:</b> 97.375			
9	Call/Put	Optional	Character	Call or Put options <b>Valid values:</b> P , C For example : C <b>Condition:</b> To be entered only for an Option Position			
10	SettlementPrice	Optional	Number	The settlement price for the contract.  <b>Note:</b> The Current version of ASX Clear (Future) Margin Simulator does not allow the user to upload the settlement price for Simulation Purpose. Upon custom portfolio upload all settlement prices are replaced by previous day EOD prices.  <b>For example:</b> 96.300 (for futures) , 0.060 (for options)			











Field No	Field Name	Required	Data Type	Instruction to populate the field values
11	AllocatedPositions	Optional	Number	<p>The positions for eligible contracts required to be cross-margined. The allocated positions must be less than or equal to the net positions for the contract.</p> <p><b>For example:</b> 30 (for net long positions) -20 (for net short positions)</p>

### 5.4.6. Allocate for Cross-Margining

In order to nominate eligible contract positions for cross-margining:

- **Allocate Via File upload for custom portfolio:** User can provide the positions allocated for cross margining in the custom portfolio upload.
- **Allocate Via Screen field for custom and cleared portfolio:** User is presented with the Allocated position editable field for eligible contracts. Users may change / edit the value of this field directly within the screen by clicking into the 'Alloc Position' field or by clicking  icon next to the Allocation that needs to be amended.

#### Futures Portfolio

Download Reset <span>Pr</span>										
Cleared Import										
Business Date	Instrument	Expiry	Long Position	Short Position	Net Position	Strike Price	Call/Put	Settlement Price	Alloc Position	Edit
03/09/2014	IBF15	02/2015	328	0	328	0.0000000		97.3600000	13	
03/09/2014	IBG15	03/2015	1388	0	1388	0.0000000		97.3600000	0	
03/09/2014	IBH15	04/2015	292	0	292	0.0000000		97.3600000	0	
03/09/2014	IBJ15	05/2015	0	100	-100	0.0000000		97.3600000	0	
03/09/2014	IBK15	06/2015	50	0	50	0.0000000		97.3600000	0	
03/09/2014	IBU14	10/2014	0	1311	-1311	0.0000000		97.3900000	0	
03/09/2014	IBV14	11/2014	325	575	-250	0.0000000		97.3550000	0	
03/09/2014	IBV15	11/2015	5	0	5	0.0000000		97.3600000	0	
03/09/2014	IBX14	12/2014	307	1	306	0.0000000		97.3550000	0	
03/09/2014	IBZ14	01/2015	1677	800	877	0.0000000		97.3550000	0	

Once the allocated instruction has been changed / edited, the instruction can be either applied or rejected by clicking the green tick box or red cross icons in the adjacent column to the allocation instruction amended.

Alloc Position	Edit
13	 



#### Note

- If the account selected for simulation is not Cross-Margin enabled then the *Allocated Positions* field will be disabled. To try out Cross-Margin simulation contact the relevant ASX Relationship Manager for a demo account.

### 5.4.7. Include in Simulation

The *simulation portfolio* is defined as the combination of cleared and custom portfolio that will be submitted to margin simulator engine to calculate the margin requirements.

The ASX Clear (Futures) Margin Simulator provides the flexibility to include either or both of custom and cleared futures portfolios in the simulation run. The futures portfolio screen provides an **Include in simulation** toggle (checkbox) against the cleared and custom portfolio sections to include the associated portfolio in the simulation run.

Cleared Import <span>Include in simulation</span>										
Custom <span>Browse...</span> <span>Upload</span> <span>Download Template</span> <span>Include in simulation</span>										

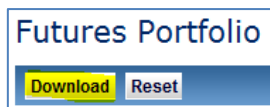


#### Note

- Include in simulation ☐ toggle (checkbox) also controls the functionality of Download Futures simulation Portfolio. Portfolio section(s) selected to be included in simulation will be downloaded when such a request is made.

### 5.4.8. Download Futures Simulation portfolio

To export the trades included in the Simulation portfolio, the user can click on Download.



On clicking the Download, a CSV file gets saved on the user's PC at the chosen location.



#### Note

- The downloaded Futures simulation portfolio contains the positions in section (cleared or custom) that has **Include in Simulation** checked ✓.
- The CSV file containing the downloaded simulation portfolio is in the same format used to upload custom Futures portfolio for simulation.

### 5.4.9. Reset Futures Simulation portfolio

To reset the OTC simulation portfolio, user can click on Reset OTC Simulation Portfolio.

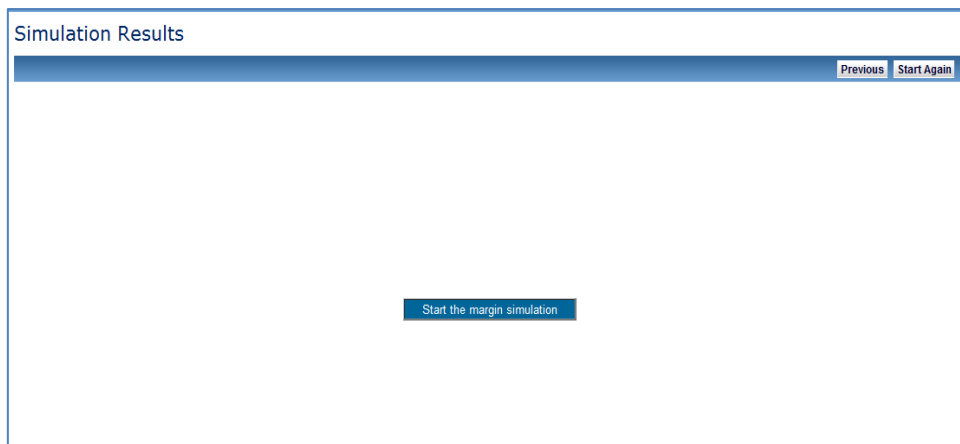


Clicking Reset will remove the trades that have been included in the Futures simulation portfolio.

## 5.5. Simulation Results Screen

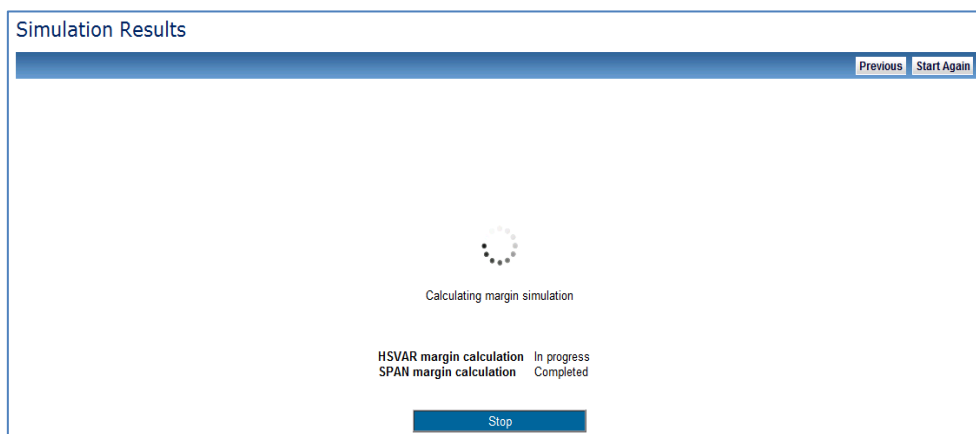
### 5.5.1. Submitting for Simulation

Once the user has prepared the simulation portfolio they can submit a request for Simulation by clicking on the Start the margin simulation.



### 5.5.2. Progress Update

Simulation progress for various components of the results such as HVaR and SPAN (where applicable) is indicated on the screen when the simulation request is submitted.



### 5.5.3. View Simulation Results

The simulation results screen shows the Initial Margin and the Net Present Value (where applicable) of the simulation portfolio. The results clearly indicate the HVaR and SPAN (where applicable) components of the Initial Margin Calculated.

CP  
Account  
Market data & cleared trade data as at
HOUSE  
06-08-2014 11:43:16

IM

OTC HSVaR 89,701.26  
Futures SPAN 5,400.00  
Total 95,101.26

OTC NPV

Cleared Portfolio -12,668,429.01  
Simulated Portfolio 0.00  
NPV Change 12,668,429.01

Download simulation results  
Download OTC hedge report  
Download futures hedge report  
Clear results

**Results explained:**

Initial Margin	
OTC HSVAR	<p>5Day HVaR results for OTC portfolio and cross margined future positions (if any), for House accounts / 7Day HVaR results for OTC portfolio and cross margined future positions (if any), for Client accounts, where appropriate.</p> <p>Margin simulator will select correct VaR holding period dependant on account configuration in clearing system (Calypso)</p>
Futures SPAN	IM results for ETD Portfolio (including non-cross-margined future positions and options)
Total	OTC HSVAR (with appropriate holding period) + Futures SPAN



NPV (Net Present Value)	
Cleared Portfolio	NPV for Cleared OTC portfolio (only) at the time of running the simulation. This result does not include any cross-margined future positions).
Simulated Portfolio	NPV for OTC portfolio submitted for simulation run. Represents all OTC positions (custom and/or cleared) submitted for simulation
NPV Change	Simulated Portfolio – Cleared Portfolio

**Note:**

- An imported cleared portfolio includes any trades already cleared / de-cleared at the start of the day, or cleared / de-cleared on the day of the simulation;
- The underlying curve used in any of the calculations is fixed at 6am on the day of simulation;
- To assist in any associated ASX queries, the user is encouraged to do the following :
  - Download the OTC portfolio used in the simulation
  - Keep a copy of any custom OTC trades uploaded for simulation
  - Download the futures portfolio used in the simulation.
  - Keep a copy of any custom futures trades uploaded for simulation
  - Record the date and time of the simulation
- If the results fields display zero as a result, it may imply that the result component is not relevant to the simulation run. For example if the IM-Futures SPAN is 0.00 , this is because the simulation portfolio submitted was made up of only OTC positions and all future positions we 100%(completely) cross-margined.
- To find out the benefit of cross-margining :
  - Run the simulation without allocating any positions for cross margining
  - Recording the results
  - Run the simulation again with positions allocated for cross-margining
  - Compare the results with previously recorded results.

#### 5.5.4. Simulation Reports

The Simulation Results screen also provides links to three .csv reports that are available for download:

Report Name	Report Description
Simulation Results	Report which outlines the same information as represented I the Simulation Results screen.
OTC Hedge Report	Detailed report which shows the OTC PV01 profile of the portfolio. Will only be shown if there are OTC positions in the portfolio.
Futures Hedge Report	Detailed report which shows the Futures PV01 profile of the portfolio Will only be shown if there are Futures positions in the portfolio.

## 6. Common Error Messages

Error Message	Reason	Screen
<Field> is missing in row <x>	<Field> is a mandatory field while uploading the custom OTC or future portfolio	Margin Simulation – OTC Portfolio / ETD Portfolio
<Field> is not a <Date, number> in row <x>	The value of the <field> is not in correct format	Margin Simulation – OTC Portfolio / ETD Portfolio
Selected account not enabled for <OTC / Exchange traded> Derivatives clearing	The user is trying to perform simulation using OTC portfolio or ETD portfolio when there account is not enabled for a particular product type. The user can request the relevant ASX relationship manager to provision a demo account to try out cross-margin simulation.	Margin Simulation – OTC Portfolio / ETD Portfolio
No cleared futures/trades were retrieved	There are currently no cleared future positions or OTC trades in the account selected for simulation	Margin Simulation – OTC Portfolio / ETD Portfolio
Valid range for Allocated Position is from <0 to netPosition> or <- netPositions to 0>	User is trying to allocate positions for cross-margining more than the net position available for an Instrument	Allocation
The cross margin allocation must be in the range 0 - <Net Positions>  The cross margin allocation instruction is outside of the valid range and an adjusted value will be used in the next margin run.	When an Allocator is modifying the Allocation amount in the screen it must be within the valid range (0 - <Net Position>), whether that be long or short per Instrument, else an error message will be displayed and erroneous rows will be highlighted.	Allocation
Exchange Criteria Failed:<Error Description>	The custom OTC portfolio uploaded for simulation contains trade(s) that does not satisfy ASX's trade eligibility criteria.	Margin Simulation – OTC Portfolio
The cross margin allocation range is from 0 to <Net Position>  The cross margin allocation position is outside of the valid range and an adjusted value will be used in the simulation. amend if necessary	The Allocation Positions field will be highlighted red if the amount is outside the acceptable range (0-<Net Position>), whether that be long or short per Instrument, and an error message will be displayed. If user proceeds then the Allocated Position will be sent to Calypso for margining and the difference between the Allocation Instruction and the Net position will be sent to MES SPAN for margining, as a Long / Short Position, to account for difference, dependant on direction of Allocated Positions.	Margin Simulation – Futures Portfolio
AllocatedPositions <Allocated Positions> is out of range in row <row number>	When uploading cleared ETD portfolio user is trying to allocate more positions for cross-margining than	Margin Simulation – Futures Portfolio

Error Message	Reason	Screen
	the net position available for an Instrument. File upload fails.	

## **7. Business Continuity Solution**

The ASX production solution will have a replicated Business Continuity instance. ASX will have a single representation of the domain name, meaning ASX Customers will not need to make any changes or take any action in an event of an ASX site issue.

Switching to the Business Continuity instance will be managed by load balancing infrastructure, managed by DS Support & Technology Infrastructure.

## 8. Appendices

### 8.1. Appendix 1 – Registration Form

Registration Form for ASX Clear (Futures) Margin Simulation administrator user. print and email a scanned copy of the completed form to [participants.online@asx.com.au](mailto:participants.online@asx.com.au)



Margin Simulator  
Admin Registration Form

### 8.2. Appendix 2 – Digital Certificate Procedure

To obtain a digital certificate, a Participant Administrator user must first create the user in ASX Clear (Futures) Margin Simulator as outlined [above](#).

After the ASX Online Help Desk has pre-registered the certificate, the user will receive an email with details on how to enrol. The email will be sent to the email address that has been registered in ASX Online.

Refer to the Client Side Digital Certificates User Enrolment Guide for further information. This can be found at [ASX Online](#).

### 8.3. Appendix 3 – Troubleshooting

#### 8.3.1. Browser-related Error Messages

##### **8.3.1.1. *This website only supports Internet Explorer 7, 8 and 9 Issue***

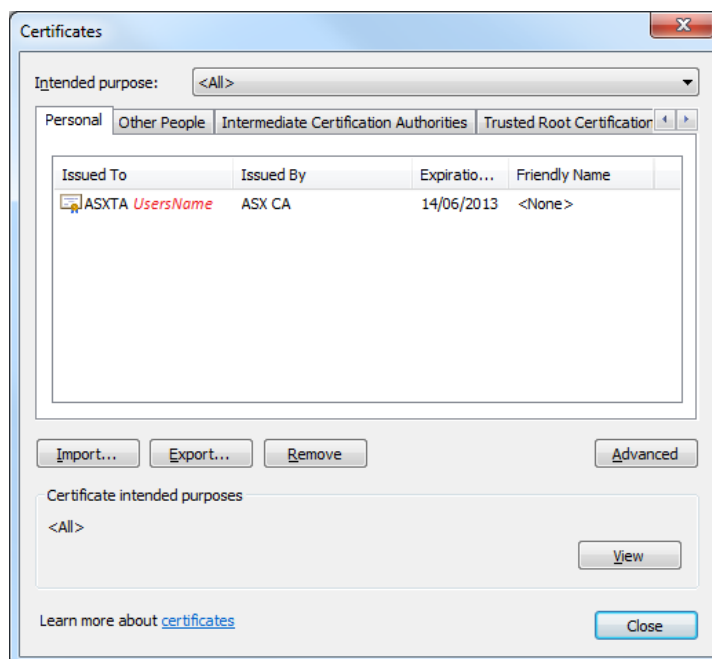
The application will automatically check the user's web browser for compatibility. Try a different browser version if the user receives the following message when trying to access the site.

note that the current implementation does not support Internet Explorer 6.

##### **8.3.1.2. *HTTP 403 Forbidden Issue***

Why do I get the error message, "HTTP 403 Forbidden"?

This can happen if there is not a valid digital certificate stored on the computer. The user can check in Internet Explorer by going to Tools-> Internet Options -> Content -> Certificates>Personal. The certificate issued should match the user's login name.

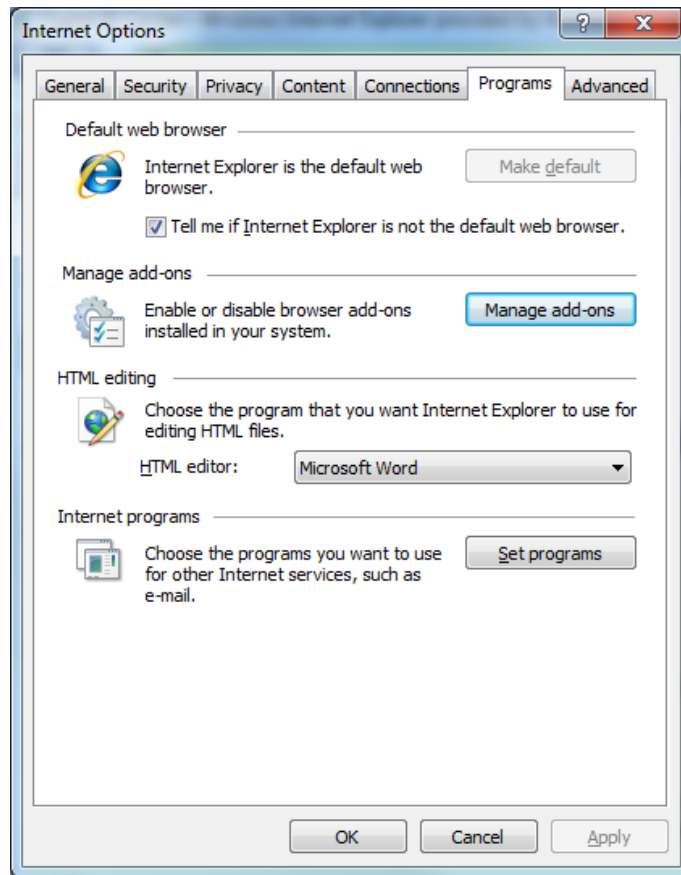


### 8.3.1.3. JavaScript Issue

Why do I get the error message, "JavaScript must be enabled to use this site, enable JavaScript in your browser and try again"?

The application checks to see if JavaScript is enabled before it renders the pages in full. If JavaScript is not enabled, the user will not be able to enter any data.

It should be possible to enable JavaScript through the 'Internet Options>Programs>Manage add-ons>Toolbars and Extensions' section of the user's web browser. Consult Internet Explorer Help for more information on how to do this.



It might be necessary to shut down all instances of Internet Explorer before changes take effect.

## 8.3.2. Margin Simulator Access Issues

### 8.3.2.1. ***Cannot view margin Simulator link on the application Selection Page.***

If the users have valid ASX Online login credentials and valid SSO certificate, they will be able to access the application selection page. However if they have not been enabled for ASX Clear (Futures) Margin Simulator they will not be able to view the access link. For any support regarding Margin Simulator access contact [ASX Service Desk](#).

### 8.3.2.2. ***On Clicking the Margin Simulator link, access denied error is displayed***

If the users can view the Margin Simulator link on the application selection page, they have been enabled for ASX Clear (Futures) Margin Simulator. Access denied message on clicking the Margin Simulator link implies that there is an issue with user's firm access. The user must follow the instructions on the screen.

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