



**Genium INET™**  
**PRM User Guide**  
BIST

Version: 4.0.1012

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# Introduction

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## Purpose

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This guide explains how to use the Genium INET PRM application to manage and configure PRM Groups in order to limit the risk exposure for groups of users.

## Audience

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This document is intended for Genium INET PRM application users that need to configure and monitor risk exposure by participants at the exchange.

## References

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None.

## Definitions and Acronyms

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Term	Description
PRM Group	Abbreviation for Pre-Trade Risk Management group. A PRM Group is set up by a Sponsoring Participant in order to monitor and control the risk of a group of users. See the topic <a href="#">PRM Groups Overview</a> for details.
Sponsoring Participant	A market participant who sponsors the access of other traders. Sponsoring participants can view the activity of, and set limits for their sponsored clients.
Sponsored Client	A market participant who's access is sponsored, and monitored by a sponsoring participant.
Monitored User	A user belonging to a Sponsoring Participant, who is used to monitor the trading activities of PRM Groups.
Tradeable	A set of instruments traded at the exchange, which typically share some common characteristic.

## Overview

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The Genium INET PRM system provides an exchange with a way to monitor and control trading risk. PRM also shows at-a-glance risk across the exchange, with a hierarchy of sponsoring, sponsored members, and trading users.

Specifically, PRM allows an exchange to:

- Control the risk exposure by setting exposure limits on groups of users belonging to a Participant (within the same firm or for another firm).
- Monitor real-time risk exposure of PRM Groups.
- Set limits on order rate.
- Set limits on max order size.
- Set limits on group exposure per Tradeable.
- Restrict individual PRM groups to only trade in instruments with established limits.
- Generate email alerts when a Tradeable's exposure crosses a notification threshold, or breaches set limits.
- Block PRM Group users from trading past limits.
- Manually block and unblock a PRM Group so its users cannot enter new orders.
- Mass cancel all open orders for users connected to a PRM Group.

## User Types

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PRM users have one of two roles. participant, or exchange level.

### **Participant Users**

Participants users are restricted to x, and only have the ability to set limits for their domain.

### **Exchange Users**

Exchange users have more capability.

# Getting Started

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## System Requirements

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To run the Genium INET PRM application, you must have Java® 6 installed on your computer. You will also need connectivity to the internet, and a Web browser.

Desktop Browser	Supported Version(s)
Microsoft® Internet Explorer™	7.x – 9.x
Mozilla Firefox	10 or Higher
Google® Chrome™	13.x or Higher

## Launching the Application

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### Launching the Application the First Time

From the RX Web page, you can install Java Web Start technology (if needed), and then log in to the system.

To download and run the application, complete the following steps:

- 1) Open web browser and go to the launch page.
- 2) **Optional:** If you do not have Java installed, click the Java icon, and download it.
- 3) Click the **Launch Genium INET PRM Client** link.



**Genium INET PRM Launch Page**

The application will download, and the login window will display.

**Login Window**

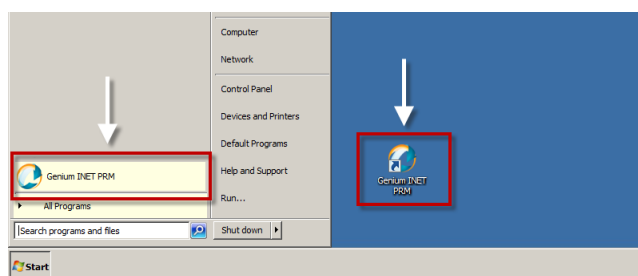
- 4) Select the language to use in the application: English or Turkish.
- 5) Enter your user name and password.
- 6) Click the **Login** button.

The main window of the PRM application will display.

#### **Launching the Application after Installation**

When you install the application, a shortcut is placed in the Start menu as well as on the desktop.





**Start Menu and Desktop Shortcut**

## Window Layout

The Genium INET PRM user interface shows each Sponsoring Participant, Sponsored Participants, and Pre Trade Limit Groups in real-time as well as allowing users to view or edit risk limit parameters.

The Genium INET PRM window is composed of the following parts:

①	<b>Trader Panel:</b> This panel displays a hierarchy of Sponsoring Participants, their Sponsored Clients, and PRM Groups assigned to each Sponsored Client.
②	<b>Current Consumption Tab:</b> The Current Consumption tab shows the usage of all limits set on a PRM Group.
③	<b>Edit Limits Tab:</b> The Edit Limits tab lets you add and edit limits on a PRM Group.
④	<b>Users Tab:</b> The Users tab lets you add, remove, and view which exchange users are assigned to a PRM Group.
⑤	<b>Email Alerts Tab:</b> The Email Alerts tab shows the alert notification list for the PRM Group, and lets you set which kinds of alerts will be sent to that group.
⑥	<b>Intraday Changes:</b> The Intraday Changes pane shows changes that are applied immediately when saved.
⑦	<b>Next Day Changes:</b> The Next Day Changes pane shows changes that when saved in the interface, are sent to the exchange database, and become effective when the system is started the next day.






Genium INET PRM Window

## Window Buttons

Icon	Command
	From left to right: <b>Minimize:</b> Minimizes the application to your taskbar. <b>Maximize:</b> Maximizes the application to fill your entire screen. <b>Close:</b> Closes the application.
	<b>Revert:</b> Undoes any unsaved changes.
	<b>Save:</b> Saves your current changes.
	<b>Stop:</b> Stops updates to the user interface.
	<b>Start:</b> Resumes updates to the user interface.
	<b>Add:</b> Adds a limit, user, or email recipient.
	<b>Remove:</b> Removes a limit, user, or email recipient.


In the Trader, the Same Day Changes, and the Next Day Changes panel, there are several icons that indicate the status of that item.

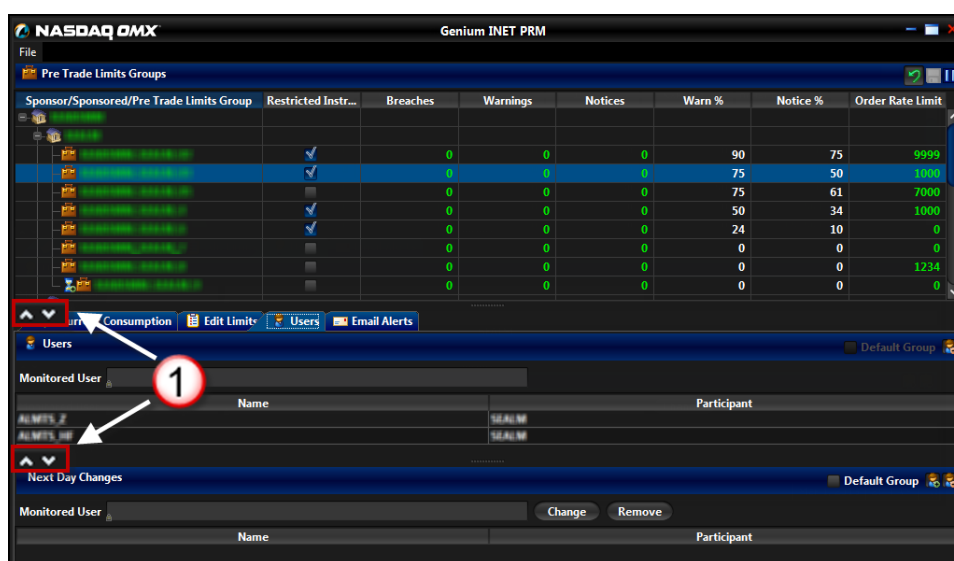
## Window Icons

	<b>Removed:</b> Indicates that this item has been saved and is marked for removal in a next day change.
	<b>Added:</b> Indicates that this item has been saved and is marked to be added in a next day change.
	<b>Unsaved:</b> Indicated that this item has not yet been saved. You must press the save button if you want this item to be saved.

## Expanding and Collapsing Panels

If you do not want to view a particular panel in the Genium INET PRM application, you can hide it using collapse buttons. Alternatively, you can display it using the expand buttons.




	Clicking these buttons will hide and display panels in the application.
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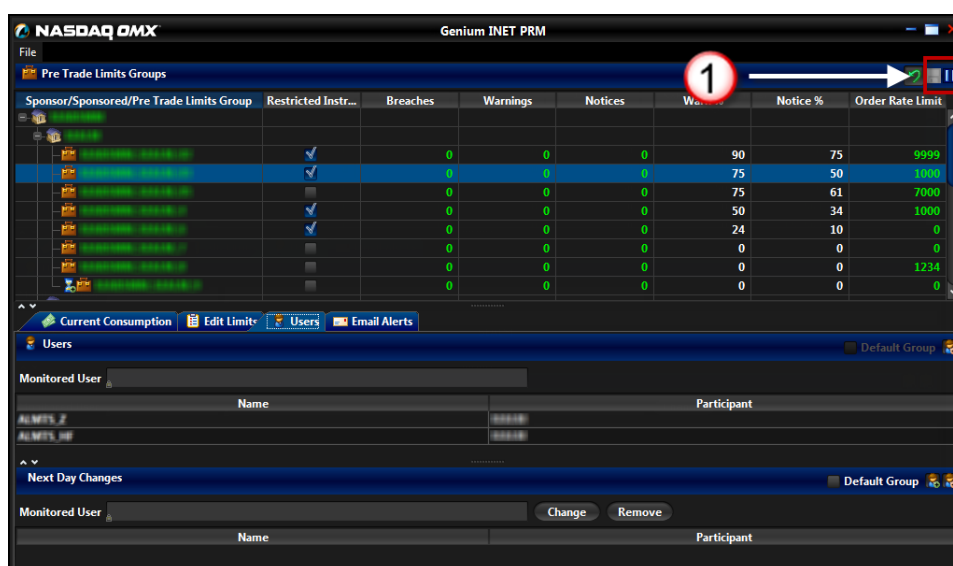


Expand and Collapse Buttons

## Starting and Stopping Updates

Click the Stop Updates button to stop data updates and review details displayed in the application. Stopping data updates does not affect server processing—only updates to the application will be paused. The server will continue monitoring the PRM Groups. To resume updates, click the Start Updates button.

	 	<ul style="list-style-type: none"> <li>To pause updates, click the Stop Updates button in the top right corner of a panel.</li> <li>To resume updates to the user interface with the latest server data, click the Start Updates button in the top right corner of a panel.</li> </ul>
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### Start and Stop Updates Buttons

Click the Stop Updates button to stop data updates and review details on the Current consumption tab. Stopping data updates does not affect server processing—only updates to the Current consumption tab will be paused. The server will continue monitoring trades and risk checks.

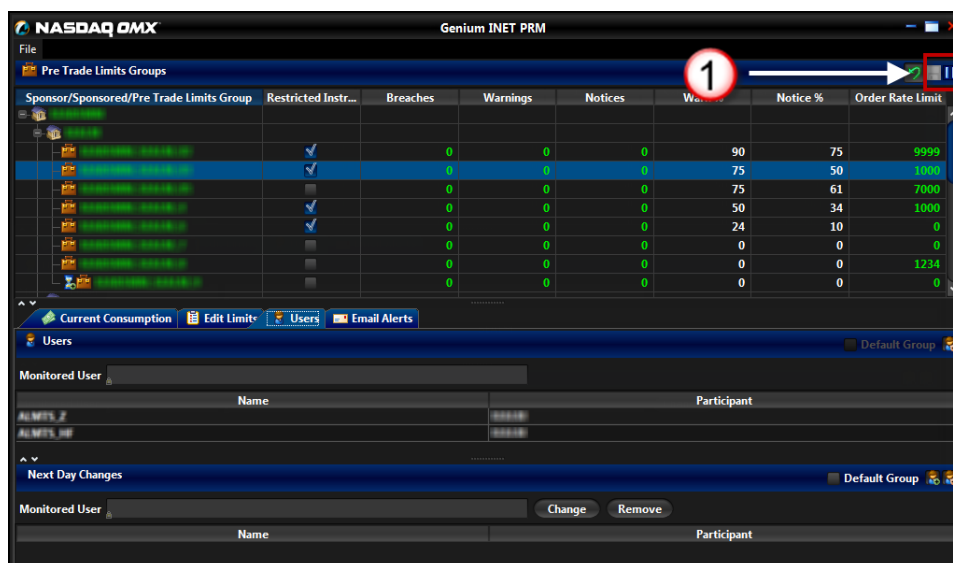
To pause updates to the Current consumption tab, click the **Stop Updates** button in the top right corner.



### Stop Updates Button

Click the Start Updates button to restart data updates to the Genium INET PRM user interface with the latest server data.

To resume updates to the Current consumption tab, click the **Start Updates** button in the top right corner.



### Start Updates Button

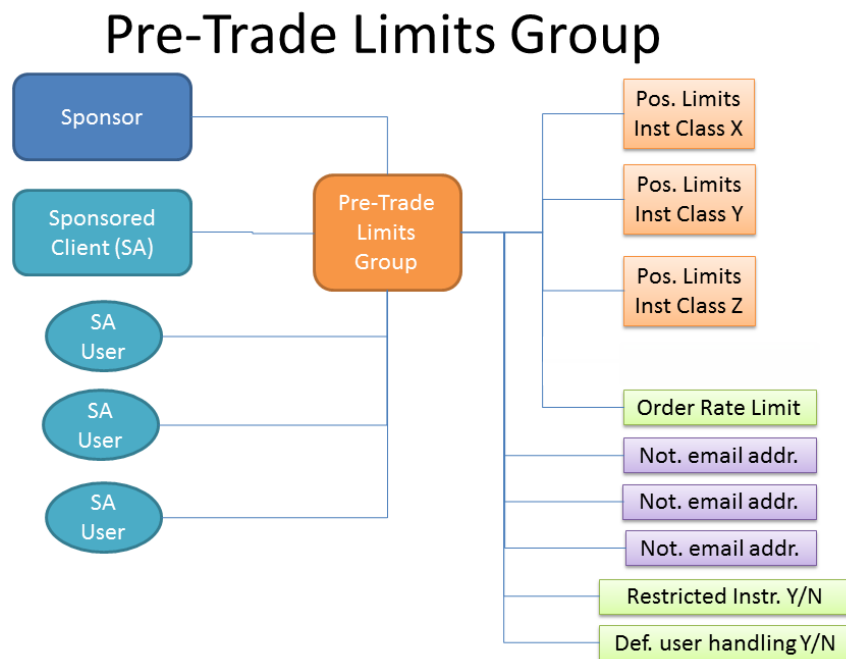
# PRM Groups Overview

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A PRM Group is the central conceptual unit where risk is monitored in the Genium INET PRM application.

A PRM Group is composed of the following parts:

- A Sponsoring Participant.
- A Sponsored Client.
- A group of users associated with the Sponsored Client to be controlled by the PRM Group limits.
- Position limits for Tradeables.
- An order rate limit for the group.
- A list of email addresses which will receive alerts concerning the groups' exposure.
- Control flags that select certain configurable behaviors of the group.



**Components of a PRM Group**

## Understanding Intraday vs Next Day Changes

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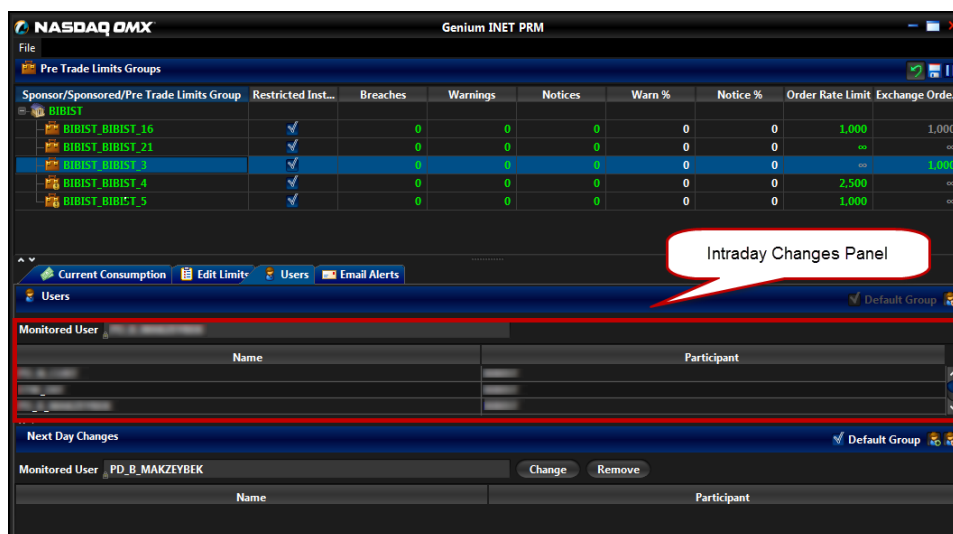
### Intraday Changes

The following changes can be made, and are effective, at any time in the Genium INET PRM application interface:

- [Updating Limit Values](#)
- [Setting Warn and Notice Percentages](#)
- [Setting the Order Rate Limit](#)
- [Setting Email Alerts](#)
- [Adding New Email Alert Recipients](#)
- [Blocking a PRM Group](#)
- [Unblocking a PRM Group](#)

- [Mass Canceling Orders on a PRM Group](#)
- [Unblocking an Order Rate Breach](#)
- [Restricting Instruments for a PRM Group](#)

Unsaved intraday changes are displayed in the Intraday changes panel.



### Intraday Changes Pane

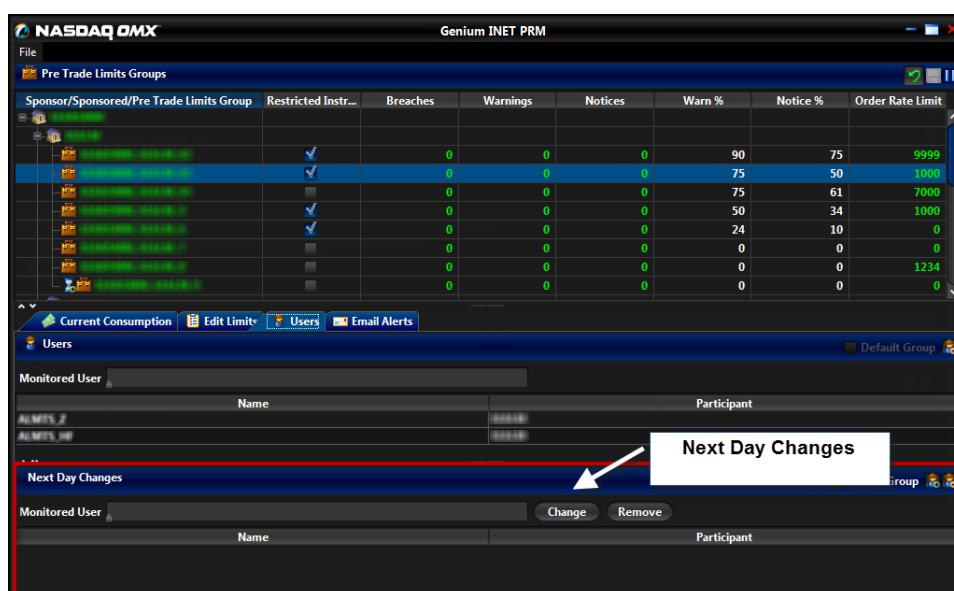
### Next Day Changes

The following changes are 'next day'. When saved in the interface, these changes will be sent to the exchange database, and become effective when the system is started the next day:

- [Adding a New Trade Limit](#)
- [Deleting an Existing Trade Limit](#)
- [Changing Which Thresholds Trigger Email Alerts](#)
- [Removing Email Alert Recipients](#)
- [Adding a User to a PRM Group](#)
- [Adding a PRM Group](#)
- [Deleting a PRM Group](#)
- [Removing a User from a PRM Group](#)
- [Changing a Monitored User](#)
- [Setting the Default User to Contribute to a PRM Group](#)

Next day changes display in a different panel to illustrate that they are pending changes to the system and will not be applied during the current trading day.

If you add a next day change, and you need to modify that next day change before the next day, you must delete that change and then add a new one.



Next Day Changes Pane

## Understanding Breaches versus Blocks

### Breaches

A breach can occur on a tradeable level or a group level.

#### Tradeable Level

Breaches are first checked at the tradeable level. Breaches at the tradeable level are caused when orders on a tradeable surpass one of the defined tradeable limits. When a breach occurs at the tradeable level, no orders in this tradeable are allowed. New orders are rejected for a tradeable breached. See [Unbreaching a PRM Group](#) for more information.

#### Group Level

Secondly, breaches are checked at the group level. Currently the only group level check is the Order Rate check. When a breach occurs at the group level, no orders are allowed for the user who caused the breach.

#### Manual Blocks and Monitored User Disconnect

A manual block can be placed at the group level. No orders will be allowed for the group when this is in effect. See [Blocking a PRM Group](#) and [Unblocking a PRM Group](#) for more information.

Another type of block is a monitored user disconnect block. This block is automatic. If the monitored clearing member disconnects, traders in the PRM Group will be automatically blocked from entering transactions. See [Changing or Removing a Monitored User](#) for more information.

# Trader Panel

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The trader panel shows all Sponsoring Participants, Sponsored Clients, and PRM Groups in a hierarchical tree.

The hierarchy contains the following levels:

- **Top level/Sponsoring Participant:** A trading participant who sponsors one or more participant's direct connection to the market.
- **2nd level/Sponsored Client:** A Participant who is controlled by a Sponsoring Participant. A Sponsored Client is only associated to one Sponsoring Participant.
- **3rd level/PRM Groups:** A logical grouping of traders connected to one Sponsored Participant. The members of a PRM Group are defined by the trading IDs shown on the Users panel.

Risk checks are enforced on each PRM Group in real time as orders and execution messages are sent from the trading engine.

## Columns Displayed

The following columns display on the Trader Panel:

- **Restricted Instruments:** This checkbox shows if the group is restricted to trading only instruments for which they have defined trading limits. If unchecked, the group can trade in any instruments, and only those that have defined limits will be checked for risk breaches.
- **Breaches:** Displays the number of risk check breaches by the participant, or group.
- **Warnings:** Displays the number of risk check warnings made by the participant or group.
- **Notices:** Displays the number of notices generated by the participant or group.
- **Warn %:** When the trader or group reaches this limit percentage, warning email alerts will be generated.
- **Notice %:** When the trader or group reaches this limit percentage, warning email alerts will be generated.
- **Order Rate Limit:** Displays the limit set by the Participant for a PRM Group. The lowest of the member and exchange order rate limits will be enforced. Exceeding the Order Rate limit will only generate Breach emails. Exceeding the Order Rate limit will not generate Warnings or Notices.
- **Exchange Order Rate Limit:** Displays the limit set by the exchange for a PRM Group. The lowest of the member and exchange order rate limits will be enforced. Exceeding the Order Rate limit will only generate Breach emails. Exceeding the Order Rate limit will not generate Warnings or Notices.

## Notice, Warm, and Breach Notices in the Trader Panel

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PRM Groups in the trader panel will display in different colors. The color corresponds to the any notice, warn, and breach events that have occurred for that group.

- **Green:** The exposure of the group is currently below the notice threshold.
- **Yellow:** The group has passed the notice level on a limit.
- **Orange:** The group has passed the warning level on a limit.
- **Red:** The group has breached a limit.



Sponsor/Sponsored/Pre Trade Limits Group	Breaches	Warnings	Notices	Warn %	Notice %	Order Rate Limit
...	0	0	0	0	0	0
...	0	0	0	0	0	1
...	1	1	1	50	50	1000
...	0	0	0	0	0	1564
...	0	0	0	30	23	0

Breaches Displayed in PRM

While the group is breached:

- Members of the group cannot submit any orders for the instruments of the breached limit.
- Members of the group can still cancel open orders.

To unbreach a group, see [Unbreaching a PRM Group](#).

## Setting Warn and Notice Percentages

You can configure warn and notice percentages to monitor a PRM Group thresholds.

The values associated with breaches are further defined by level and are color coded to provide a visual indicator.

- Notice is the lowest level of alert.
- Warning is next highest level of alert.


To set warn and notice percentages on a PRM Group:


- 1) Double click a Warn % or Notice % column in the row of a PRM Group.
- 2) Enter a new value for the Warn % or Notice %.

Sponsor/Sponsored/Pre Trade Limits Group	Restricted Instr...	Breaches	Warnings	Notices	Warn %	Notice %	Order Rate Limit
...	...	0	0	0	90	75	9999
...	...	0	0	0	75	50	1000
...	...	0	0	0	75	61	7000
...	...	0	0	0	0	0	0
...	...	0	0	0	50	34	12345
...	...	0	0	0	24	10	0
...	...	0	0	0	0	0	0
...	...	0	0	0	0	0	1234
...	...	0	0	0	0	0	0

Setting Warn and Notice Percentages

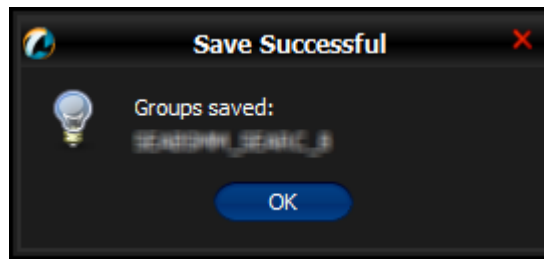
- 3) Click the **Save** button in the trader panel to save your changes.



 **Note:** This is an intraday change. This change takes effect immediately. See [intraday changes](#) for more information about intraday changes.

[illegible]

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A confirmation window displays.

4) Click **OK**.



**Note:** This is an intraday change. This change takes effect immediately. See [intraday changes](#) for more information about intraday changes.

## Setting the Order Rate Limit

The order rate limit is set on a PRM Group from the trader limit panel. This limit measures orders sent to the trading engine from all members in the group.

The Order Rate Limit check is based on new orders inserted into the book. If an order is traded at entry it will also count towards the Order Rate Limit.

The following order types are ignored by the Order Rate Limit check:

- Order Cancel Requests
- Rejected orders
- Order modifications
- Order types that do not stay in the book, such as IOC or FOK.



**Note:**

- These orders will be counted if they trade.
- During auction times these types do stay in the order book.

The order rate limit is checked every 1/10th of a second. This limit breaches if the order rate is higher than one tenth of the set limit within one tenth of a second.

Both the PRM user, and the exchange can set an order rate limit. Both are displayed on the trader panel. The most restrictive of the two limits will be used. Whichever is in effect is displayed in green, and whichever is not in effect is displayed in grey.

See [Unblocking an Order Rate Breach](#) for how to lift this breach condition.

To set an order rate limit on a PRM Group:

- 1) Double click the order rate column in the row of a PRM Group.
- 2) Enter a new value for the order rate.

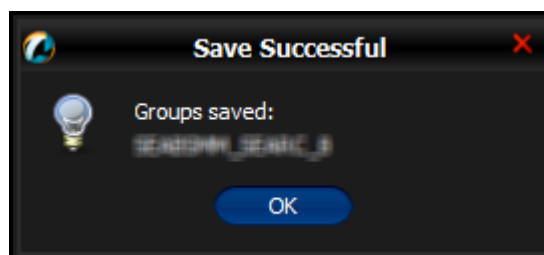
Sponsor/Sponsored/Pre Trade Limits Group	Restricted In...	Breaches	Warnings	Notices	Warn %	Notice %	Order Rate LL	Exchange Or...
BIBIST								
BIBIST_BIBIST_16	✓	0	0	0	0	0	1,000	1,000
BIBIST_BIBIST_21	✓	0	0	0	0	0	∞	∞
BIBIST_BIBIST_3	✓	0	0	0	0	0	1,000	1,000
BIBIST_BIBIST_4	✓	0	0	0	0	0	2500	∞
BIBIST_BIBIST_5	✓	0	0	0	0	0	∞	∞

### Setting the Order Rate Limit

- 3) Click the **Save** button in the trader panel to save your changes.

Sponsor/Sponsored/Pre Trade Limits Group	Restricted Ins...	Breaches	Warnings	Notices	Warn %	Notice %	Order Rate LL	Exchange Or...
BIBIST								
BIBIST_BIBIST_16	✓	0	0	0	90	75	9999	9999
BIBIST_BIBIST_21	✓	0	0	0	75	50	1000	1000
BIBIST_BIBIST_3	✓	0	0	0	75	61	7000	7000
BIBIST_BIBIST_4	✓	0	0	0	50	34	1000	1000
BIBIST_BIBIST_5	✓	0	0	0	24	10	0	0

The Save Successful dialogue box appears confirming your changes for the group or groups you have changed.



### Save Successful Dialogue Box

- 4) Click the **OK** button.

**Note:** This is an intraday change. This change takes effect immediately. See [intraday changes](#) for more information about intraday changes.

# Current Consumption Tab

The Current Consumption tab displays defined limits for the selected PRM Group and the current usage of those limits by trading activity.

Name	Calculation	Open Buy	Open Sell	Traded Bought	Traded Sold	Traded Net	Tot Buy	Tot Sell	Tot Net Buy	Tot Net Sell
SPN EF Trade E	QUANTITY	0	0	0	0	0	0	0	0	0
SINCE 2012	VOLUME	0	0	0	0	0	0	0	0	0

**Current Consumption Tab**

The following columns are shown on the Current Consumption tab:

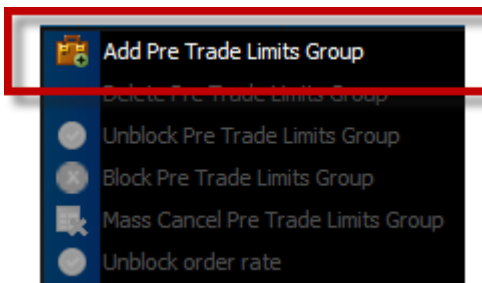
- **Name:** The name of the Tradeable instrument.
- **Calculation:** The calculation method for the limits.
- **Open Buy:** The current value of open buy orders for the Tradeable.
- **Open Sell:** The current value of open sell orders for the Tradeable.
- **Traded Bought:** The current value of executed buy orders for the Tradeable.
- **Traded Sold:** The current value of executed sell orders for the Tradeable.
- **Traded Net:** The absolute value of traded bought minus traded sold for the Tradeable.
- **Total Buy:** The current value of open and executed buy orders for the Tradeable.
- **Total Sell:** The current value of open and executed sell orders for the Tradeable.
- **Total Net Buy:** Traded Bought – Traded Sold + Open Buy for the Tradeable.
- **Total Net Sell:** Traded Sold – Traded Bought + Open Sell for the Tradeable.

# Working With PRM Groups

## Adding a PRM Group

To add a PRM Group, complete the following steps:


- 1) From the Genium INET PRM window, in the Trader Panel, select a Sponsoring Participant, or a Sponsored Client.
- 2) Using the mouse, right-click, and then select Add Pre Trade Limits Group from the right-click menu.



**Add PRM Groups Menu**

The Input window appears.

- 3) Enter the name of the new PRM Group.

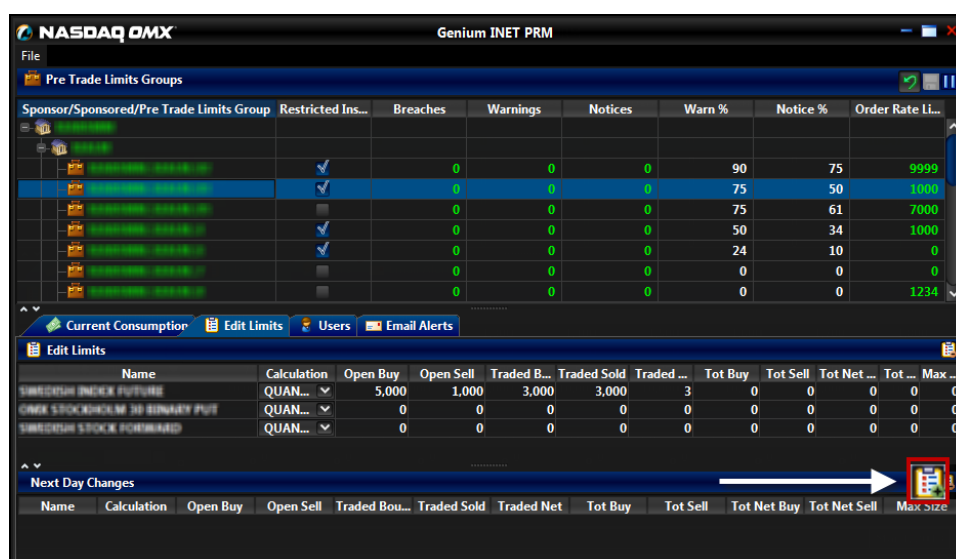
 **Note:** A PRM Group must be given a unique identifier. The identifier should use the following naming convention:  
`[sponsoring participant ID]_[Sponsored Client ID]_[Group Name]`

- 4) Click the **OK** button. (Alternatively, you can click the Cancel button to cancel the action.)



**Create a New PRM Groups**

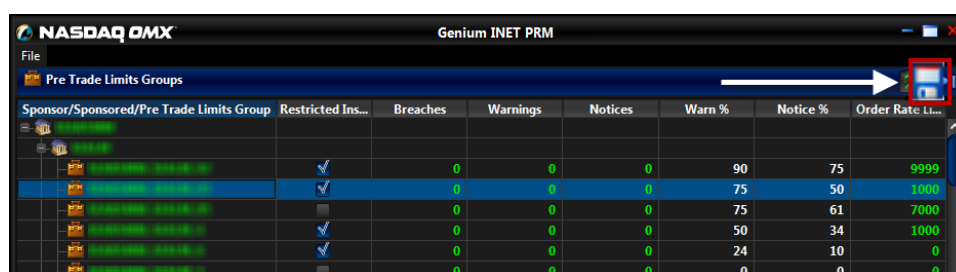
- 5) Assign a single tradeable or multiple tradeables to your new group by clicking the Add new Tradeable button.



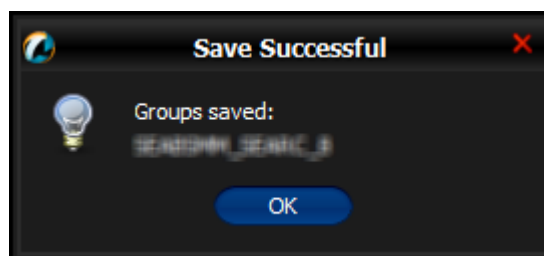
### Add New Tradeable Button

See [Adding a New Trade Limit](#) if need help doing this.

- 6) Click the **Save** button of the trader panel to save your changes.



The Save Successful dialogue box appears confirming your changes for the group or groups you have changed.



### Save Successful Dialogue Box

- 7) Click the **OK** button to confirm your change.

After you add the PRM group and click the Save button, the group will appear in the Next Day Changes pane and become active the next trading day.



#### Note:

This is a next day change. Saving the change sends it to the exchange database and becomes effective when the system is started the next day. See [next day change](#) for more information about next day changes.

Changing an Already Added Next Day Change

If you add a next day change, and you need to modify that next day change before the next day, you must delete that change and then add a new one.

## Blocking a PRM Group

A PRM Group can be blocked manually by the Participant or by exchange personnel. A blocked group's users cannot enter new orders. Nor will they be able to alter existing orders.

Blocked users of a PRM Group are:

- Able to delete existing orders and quotes,
- Allowed to login, and
- Allowed to receive broadcasts, and send queries. Thus they can view the market.

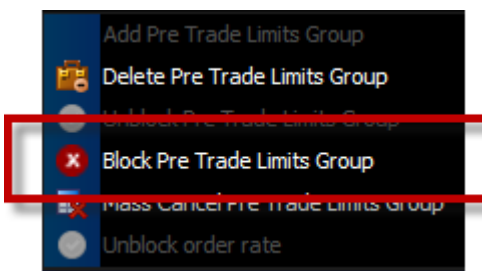
The Participant and the exchange personnel can still act on behalf of a blocked PRM Group (in the same way as before the PRM Group was blocked).

PRM Groups are never unblocked automatically intraday. A blocked PRM Group can be unblocked intraday by the Participant or by the exchange.

If the blocked PRM Group is not unblocked manually during that trading day, the blocked group will be unblocked automatically at the beginning of the next trading day.

To block a PRM Group, complete the following steps:

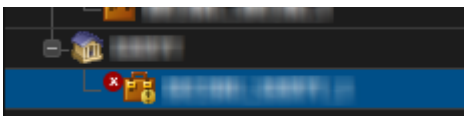
- 1) From the Genium INET PRM window, in the Trader Panel, select a PRM Group.
- 2) Using the mouse, right-click, and then select Block Pre Trade Limits Group from the right-click menu.



**Block PRM Groups Right Click Menu**

- **Block Pre Trade Limits Group:** Select this option and users for the group are allowed neither to enter new orders nor alter existing orders.

The group will be blocked. The icon for the group changes to indicate this condition.



**Blocked PRM Groups**



**Note:**

This is an *intraday change*. This change takes effect immediately.

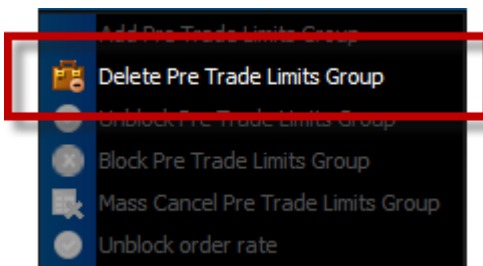
## Deleting a PRM Group

To delete a PRM Group, complete the following steps:

- 1) From the Genium INET PRM window, in the Trader Panel, select a Pre Trade Limits Group.

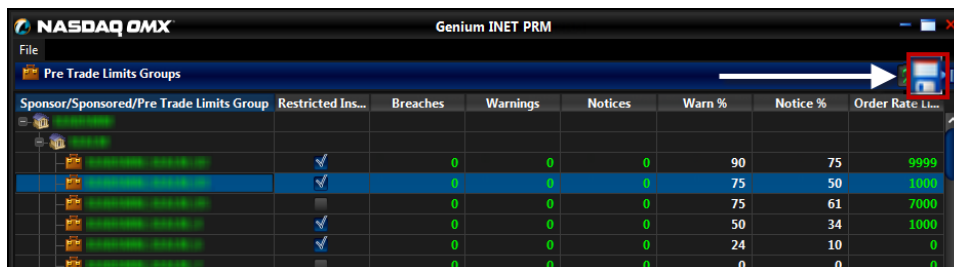


- 2) Using the mouse, right-click, and then select Delete Pre Trade Limits Group from the right-click menu.



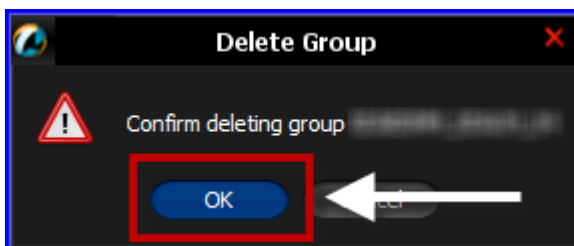
PRM Groups Right Click Menu

- 3) Click the **Save** button.



A confirmation window appears.

- 4) Click the **OK** button to delete the group. (Alternatively, you can click the Cancel button to cancel the action.)



Deleting a PRM Group



**Note:** This is a next day change. Saving the change sends it to the exchange database and becomes effective when the system is started the next day. See [next day change](#) for more information about next day changes.

#### Changing an Already Added Next Day Change

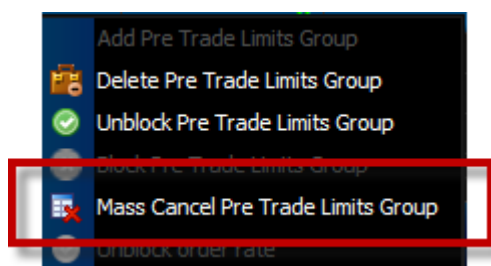
If you add a next day change, and you need to modify that next day change before the next day, you must delete that change and then add a new one.

## Mass Canceling Orders on a PRM Group

Mass canceling allows you to cancel all open orders for users in a particular PRM Group.

To mass cancel orders for a PRM Group, complete the following steps:

- 1) From the Genium INET PRM window, in the Trader Panel, select a PRM Group.
- 2) Using the mouse, right-click, and then select **Mass Cancel Pre Trade Limits Group** from the right-click menu.



**Right Click Menu for PRM Groups**

All open trades for the group are canceled.



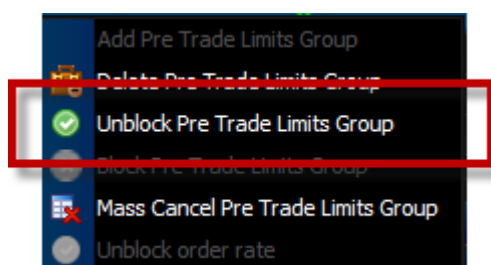
**Note:**

This is an *intraday change*. This change takes effect immediately.

## Unblocking a PRM Group

To unblock a PRM Group, complete the following steps:

- 1) From the Genium INET PRM window, in the Trader Panel, select a PRM Group.
- 2) Using the mouse, right-click, and then select **Unblock Pre Trade Limits Group** from the right-click menu.



**PRM Groups Right Click Menu**

The group will be unblocked. The icon for the group changes to indicate this condition.

After you unblock the PRM group, users in the group are allowed to trade normally.



**Note:**

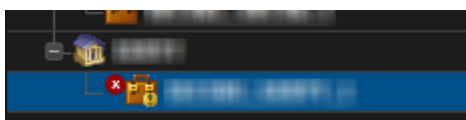
This is an *intraday change*. This change takes effect immediately.

## Unblocking an Order Rate Breach

If a PRM group breaches their order rate limit, they will not be able to submit any orders. A manual unblock is required to lift the breach restriction.

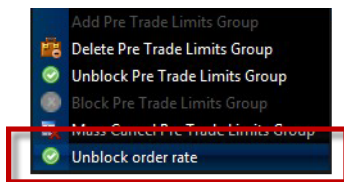
To unblock an order rate breach, complete the following steps:

- 1) From the Genium INET PRM window, in the Trader Panel, select a breached PRM Group.



**Breached Group**

2) Using the mouse, right-click, and then select Unblock order rate from the right-click menu.



### Unblocking an Order Rate Right Click Menu

The breach is lifted. The PRM group will be able to trade normally.



**Note:**

This is an *intraday change*. This change takes effect immediately.

## Unbreaching a PRM Tradeable Limit

---

When a PRM Group is in breach of a Tradeable limit:

Users in that group can:

- Cancel open orders.
- Trade normally in Tradeables that are not breached.

Users in that group cannot:

- Place new orders on the breached Tradeable.
- Modify an order for the breached Tradeable.

If a trader cancels and amends down until their limit is no longer in breach, the breach restriction is lifted and they can trade normally.

A Sponsoring Participant can also raise the breached limit to unbreach a PRM Group.

The sponsoring partner, or exchange personnel can take several courses of action on a breached group:

- 1) Leave the group breached—messages will be rejected.
- 2) Raise the associated limit on the group.

## Editing Tradeable Limits

---

The exposure of all PRM Group users on a set of instruments is calculated together. This combined exposure can be limited according to several calculations.

In the Genium INET PRM application, you configure limits by setting the following parameters:

- 1) An instrument class or instrument type (regular or combination).
- 2) A calculation type for the risk limit. This can be one of the following:
  - **Quantity:** The exposure is calculated by summing the share quantity for each order submitted by a member of the PRM Group.
  - **Volume:** The exposure is calculated by summing the shares times price quotation factor of all orders submitted by members of the PRM Group.
  - **Value:** The exposure will be the price times shares of all applicable orders for users in the PRM Group.
- 3) Each instrument can then have several limits set on the groups exposure to different kind of orders:
  - **Open Buy:** The current value of open buy orders for the Tradeable.
  - **Open Sell:** The current value of open sell orders for the Tradeable.
  - **Traded Bought:** The current value of executed buy orders for the Tradeable.
  - **Traded Sold:** The current value of executed sell orders for the Tradeable.
  - **Traded Net:** The absolute value of traded bought minus traded sold for the Tradeable.
  - **Tot Buy:** The current value of open and executed buy orders for the Tradeable.
  - **Tot Sell:** The current value of open and executed sell orders for the Tradeable.
  - **Tot Net Buy:** Traded Bought – Traded Sold + Open Buy for the Tradeable.
  - **Tot Net Sell:** Traded Sold – Traded Bought + Open Sell for the Tradeable.
  - **Max Size:** The limit to the maximum size of a single order, based on the limit calculation.

### Exchange Limits and Member Limits

Each exposure limit set for a PRM group has two values. One can be set by the exchange, and one is set by the PRM group manager. The exchange value can only be set by operators of the exchange and defines the bare-minimum level of risk that is enforced on all PRM groups. PRM members can then restrict these levels by setting the member limits. A limit from a member can be more restrictive than the exchange limit, but it cannot be less restrictive. The risk engine will enforce the most restrictive of the two limits. Therefore, members can tighten risk limits, but they cannot loosen the levels set by the exchange.

### Breached Limits

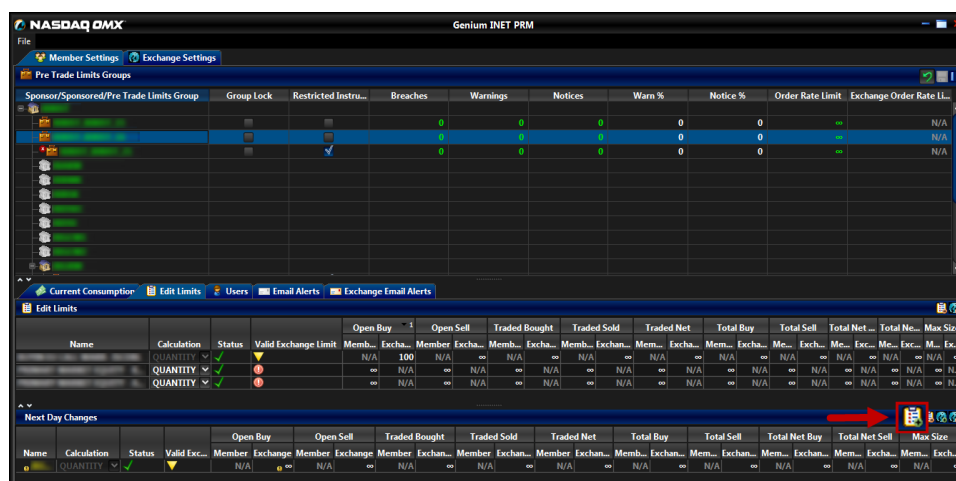
If any of the risk limits are exceeded, the system rejects new orders submitted in any of the instruments connected to the affected Tradeable from any of the User IDs that are part of the PRM Group. However, a user can still cancel open orders for the affected instrument when the limit is breached.

## Adding a New Trade Limit

---

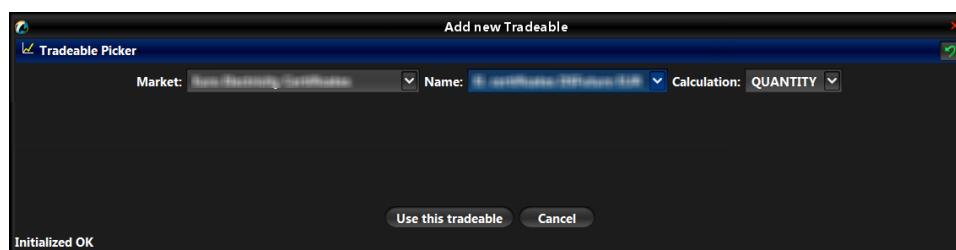
To add a new trade limit to a PRM Group, complete the following steps:

- 1) Click the PRM Group for which you want to edit limits, and then click the **Edit Limits** tab.
- 2) Click the **Add new Tradeable** button.



### Add New Tradeable Button


The Add new Tradeable window displays.



### Adding a Limit

3) Select an instrument:

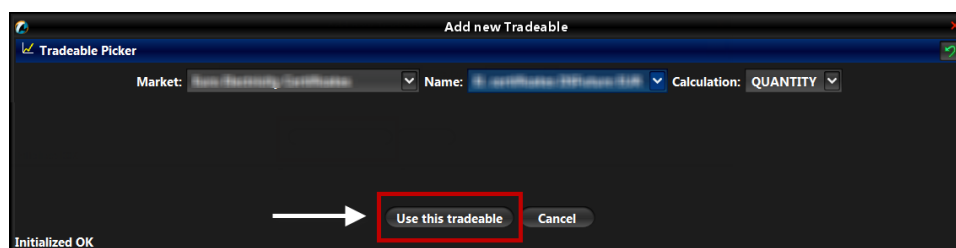
- **Market:** Select the market where the tradeable is offered. Leaving this blank will show tradeables in all markets.
- **Name:** The name of the tradeable to monitor.

 **Note:** The instruments listed will only show classes and types specified in the Legal Instrument Type for the user logged in.

4) Select the calculation method for the limit:

- **Quantity:** The exposure is calculated based on the share quantity of all orders.
- **Volume:** The exposure is calculated based on the volume (shares \* price quotation factor) of all orders.
- **Value:** The exposure calculated will be the price times shares of all orders.

5) Click the **Use this tradeable** button.



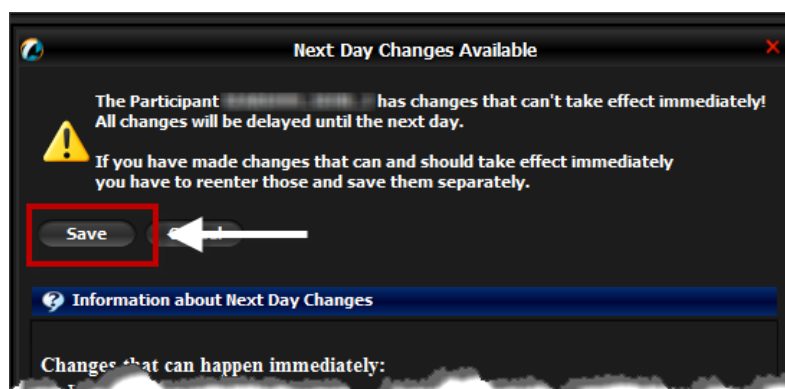
### Use This Tradeable Button

A row with the new tradeable instrument will appear in the Edit Limits panel.

6) Set any limits to be enforced on the selected securities.

- 7) Click the **Save** button.

The Next Day Changes Available confirmation window appears.

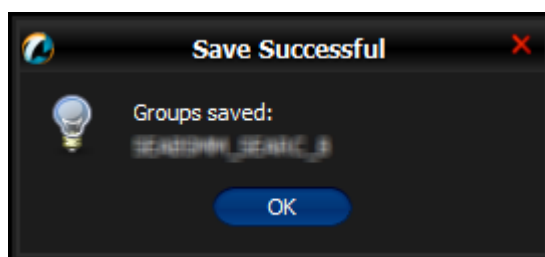


### Next Day Changes Save Button

- 8) Click the **Save** button.

**Note:** A limit value of zero means no limit, and no breach is possible for that risk counter.

The Save Successful dialogue box appears confirming your changes for the group or groups you have changed.



### Save Successful Dialogue Box

- 9) Click the **OK** button to confirm your change.

The new limit appears in the Next Day changes panel and will go into effect the next trading day.

**Note:** This is a next day change. Saving the change sends it to the exchange database and becomes effective when the system is started the next day. See [next day change](#) for more information about next day changes.

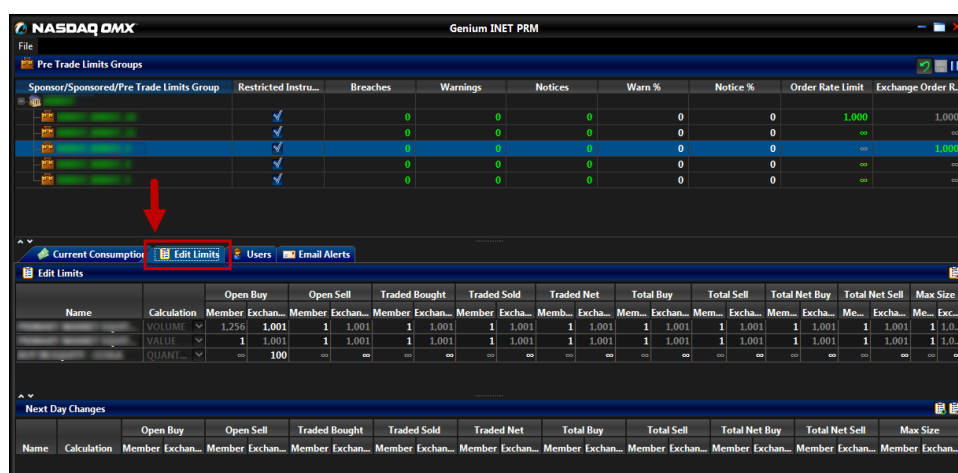
#### Changing an Already Added Next Day Change

If you add a next day change, and you need to modify that next day change before the next day, you must delete that change and then add a new one.

## Editing Trade Limits

To edit a limit on a PRM Group, complete the following steps:

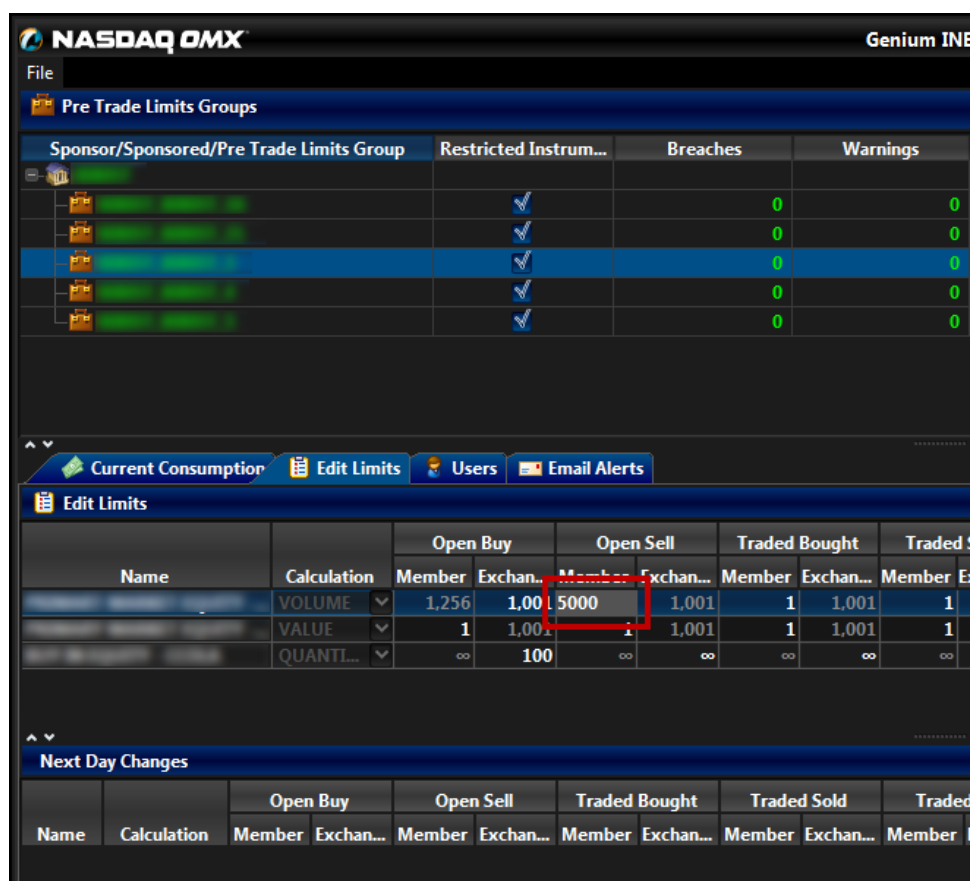
- 1) From the Genium INET PRM window, click the PRM Group for which you want to edit limits, and then click the Edit Limits tab.



### Limits for a PRM Group

- 2) In the Same Day Changes panel, review or change the fields as necessary.

See the [Editing Limits Overview](#) for definitions of any of the fields.

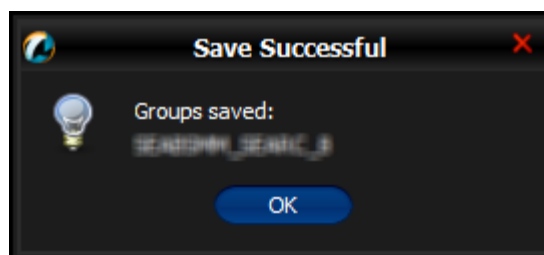


### Limits for a PRM Group

- 3) Click the **Save** button.



The Save Successful dialogue box appears confirming your changes for the group or groups you have changed.



**Save Successful Dialogue Box**

4) Click the **OK** button to confirm your change.

**Note:**

- Changing a trade limit can be either an intraday day or a next day change. If the change only affects risk counter limits, it will be an intraday change. If the change affects the limit calculation, the limit will appear in the Next Day changes panel and be applied the next day.
- Setting a limit to zero disables the pre-trade limit check.
- Changing a limit from zero to a non-zero value intra-day may cause unpredictable results. PRM ignores credit consumption while the limit is zero.

## Deleting a Trade Limit

To delete an existing trade limit to on a PRM Group, complete the following steps:

- 1) Click the PRM Group for which you want to edit limits, and then click the Edit Limits tab.
- 2) In either the Same Day Changes or the Next Day Changes panel, select the limit to delete.
- 3) In the appropriate panel, click the **Remove Tradeable** button.



**NASDAQ OMX** Genium INET PRM

File Pre Trade Limits Groups

Sponsor/Sponsored/Pre Trade Limits Group	Restricted Instru...	Breaches	Warnings	Notices	Warn %	Notice %	Order Rate Limit	Exchange Order R...
...	✓	0	0	0	0	0	1,000	1,000
...	✓	0	0	0	0	0	...	...
...	✓	0	0	0	0	0	1,000	1,000
...	✓	0	0	0	0	0	...	...
...	✓	0	0	0	0	0	...	...

Current Consumption: Edit Limits Users Email Alerts

**Edit Limits**

Name	Calculation	Open Buy	Open Sell	Traded Bought	Traded Sold	Traded Net	Total Buy	Total Sell	Total Net Buy	Total Net Sell	Max Size
VOLUME	1,256	1,001	1	1,001	1	1,001	1	1,001	1	1,001	1,001
VALUE	1	1,001	1	1,001	1	1,001	1	1,001	1	1,001	1,001
QUANTIL...	...	100	...	...	...	...	...	...	...	...	...

Next Day Changes

Name	Calculation	Open Buy	Open Sell	Traded Bought	Traded Sold	Traded Net	Total Buy	Total Sell	Total Net Buy	Total Net Sell	Max Size
...	...	...	...	...	...	...	...	...	...	...	...

### Deleting a Trade Limit

- 4) Click the **Save** button.

**NASDAQ OMX** Genium INET PRM

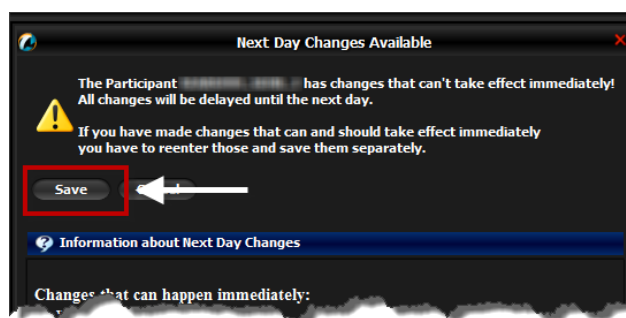
File Pre Trade Limits Groups

Sponsor/Sponsored/Pre Trade Limits Group	Restricted Ins...	Breaches	Warnings	Notices	Warn %	Notice %	Order Rate Lim...
...	✓	0	0	0	90	75	9999
...	✓	0	0	0	75	50	1000
...	✓	0	0	0	75	61	7000
...	✓	0	0	0	50	34	1000
...	✓	0	0	0	24	10	0
...	✓	0	0	0	0	0	0

### Saving Changes to the Group

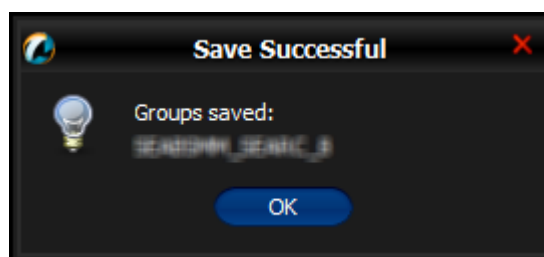
The Next Day Changes Available confirmation window appears.

- 5) Click the **Save** button.



### Next Day Changes Save Button

The Save Successful dialogue box appears confirming your changes for the group or groups you have changed.



**Save Successful Dialogue Box**

6) Click the **OK** button to confirm your change.



**Note:**

This is a next day change. Saving the change sends it to the exchange database and becomes effective when the system is started the next day. See [next day change](#) for more information about next day changes.

**Changing an Already Added Next Day Change**

If you add a next day change, and you need to modify that next day change before the next day, you must delete that change and then add a new one.

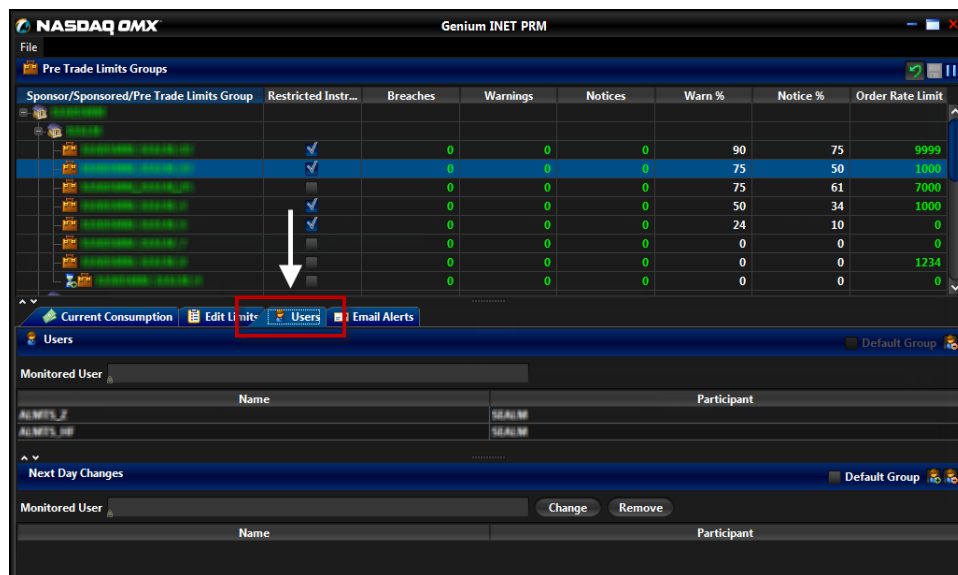
# Managing Users Overview

The Users tab shows which Genium INET user accounts are assigned to a given PRM Group.

## Viewing Users

To view users that are assigned to a PRM Group, complete the following steps:

- 1) From the main window, click the PRM Group for which you want to view users, and then click the Users tab.



### Genium INET PRM Users Tab

- 2) Review the users assigned to the group.

- **Name:** Displays the signature of the user.
- **Participant:** Shows the Participant the user belongs to.



**Note:** In order to see a user that was added intra-day, you need to log out and log back into the application.

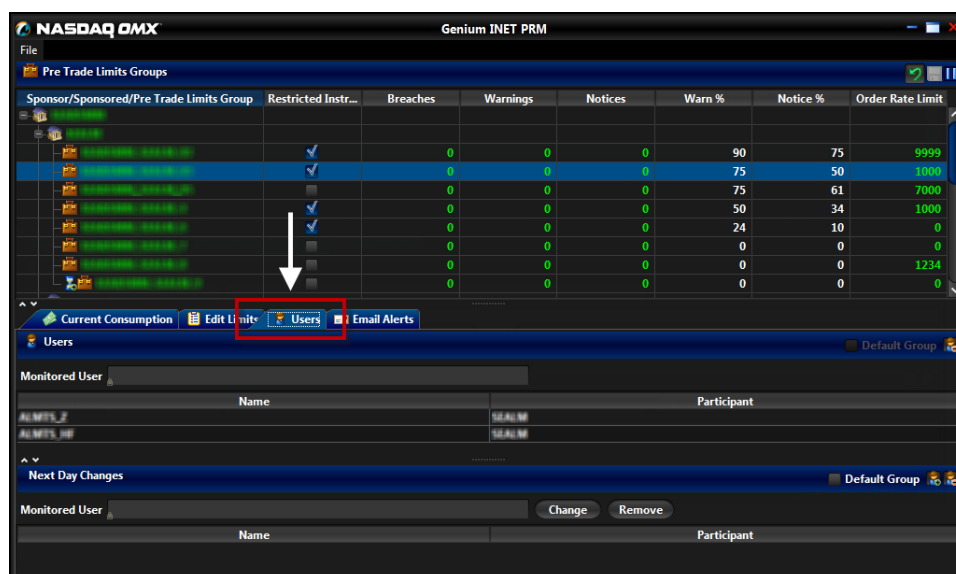
You cannot edit any user properties in the PRM application.

## Adding a User to a PRM Group

Genium INET users need to be assigned to a PRM Group. A user can belong to only one PRM Group.

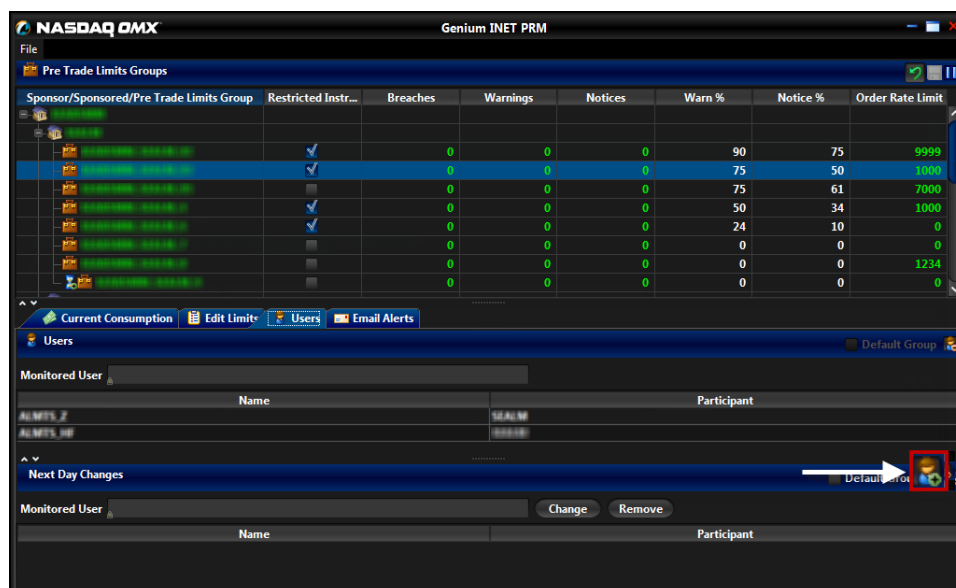
To add a user to a PRM Group, complete the following steps:

- 1) From the Genium INET PRM window, click the PRM Group for which you want to add a new user, and then click the Users tab.



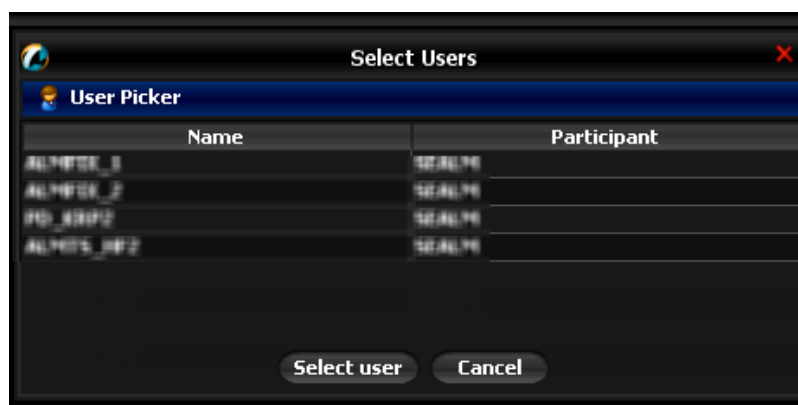
## Users Tab

2) Click the **Add New User** button.



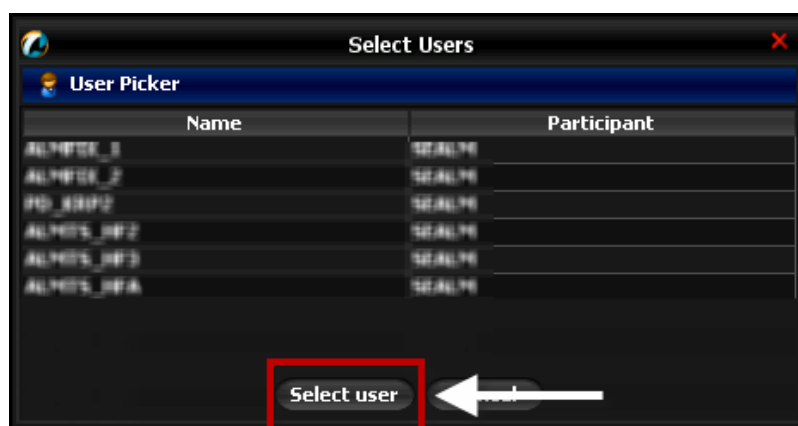
## Add New User Button

The Select Users window displays.



Select Users Window

- 3) The table shows users who are unassigned to PRM Groups. Review the following fields to determine which user you want to add:
  - **Name:** Displays the signature of the user.
  - **Participant:** Shows the Participant ID the user belongs to.
- 4) Select a user from the table.
- 5) Click the **Select user** button.



Select User Button

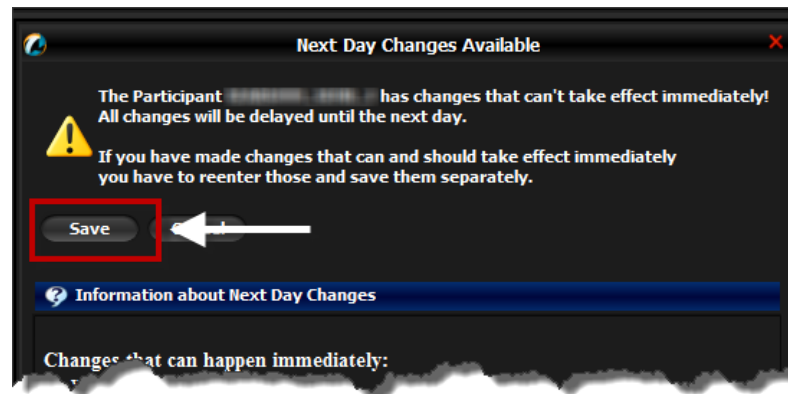
The new user is added to the Users tab.

- 6) Click the **Save** button.



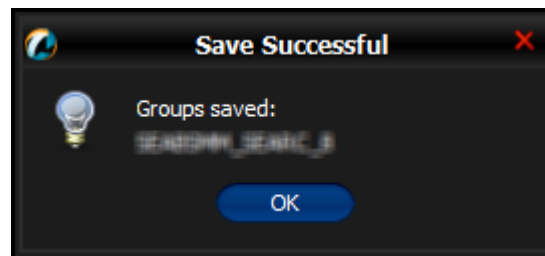
The Next Day Changes Available confirmation window appears.

- 7) Click the **Save** button.



**Next Day Changes Save Button**

The Save Successful dialogue box appears confirming your changes for the group or groups you have changed.



**Save Successful Dialogue Box**

8) Click the **OK** button to confirm your change.

**Note:** This is a next day change. Saving the change sends it to the exchange database and becomes effective when the system is started the next day. See [next day change](#) for more information about next day changes.

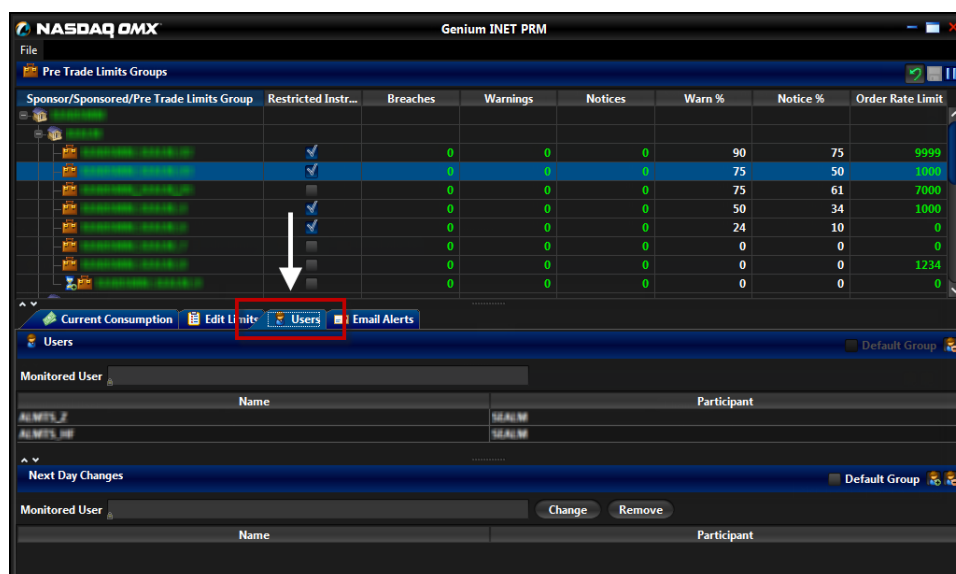
#### **Changing an Already Added Next Day Change**

If you add a next day change, and you need to modify that next day change before the next day, you must delete that change and then add a new one.

## **Removing a User From a Group**

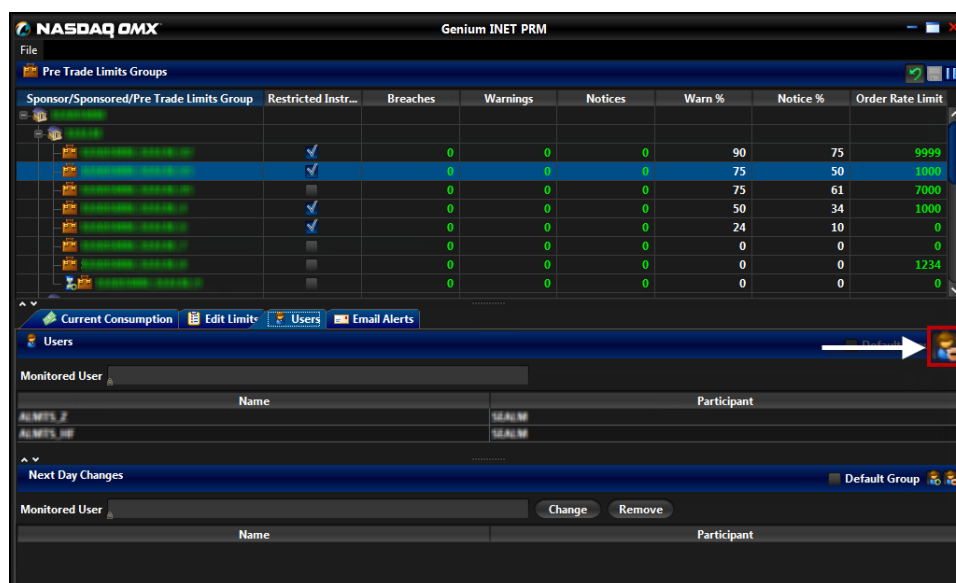
To remove a user from a PRM Group, complete the following steps:

1) Click the PRM Group you want to modify, and then click the **Users** tab.



### Users Tab

- 2) Select the user to remove.
- 3) Click the **Remove User** button.



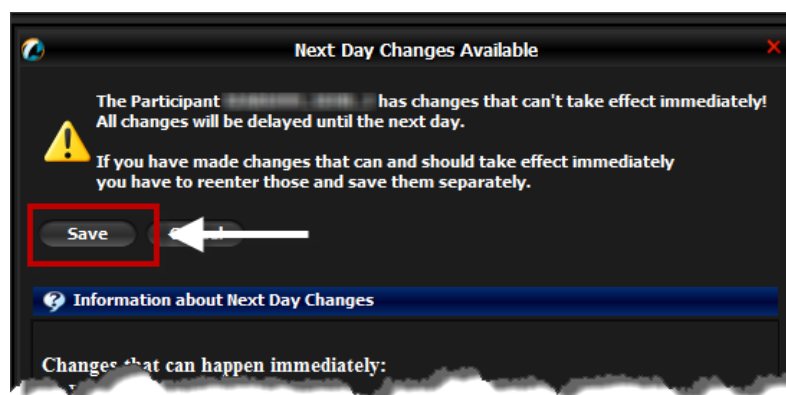
### Remove User Button

- 4) Click the **Save** button.



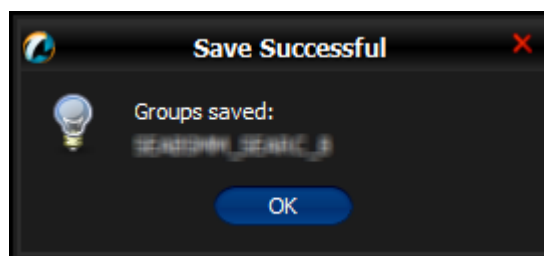
The Next Day Changes Available confirmation window appears.

- 5) Click the **Save** button.



**Next Day Changes Save Button**

The Save Successful dialogue box appears confirming your changes for the group or groups you have changed.



**Save Successful Dialogue Box**

6) Click the **OK** button to confirm your change.



**Note:** This is a next day change. Saving the change sends it to the exchange database and becomes effective when the system is started the next day. See [next day change](#) for more information about next day changes.

#### **Changing an Already Added Next Day Change**

If you add a next day change, and you need to modify that next day change before the next day, you must delete that change and then add a new one.

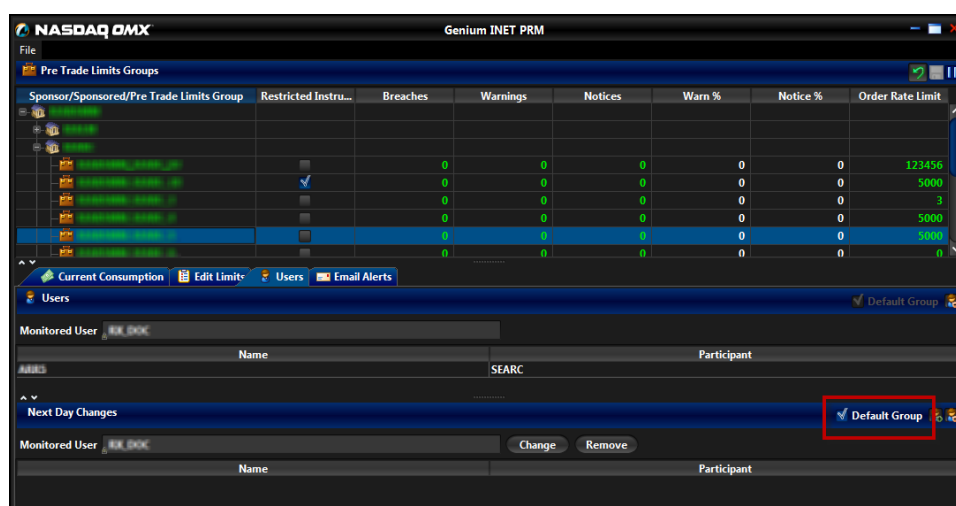
## **Default Group**

Designating a group as the default group associates transactions from the default user into the group. Transactions by the default user are those where the user field does not contain a valid user ID. This can occur when a two-party trade is entered, or when the exchange enters or modifies an order on behalf of a member. Unless a PRM group is designated as the default group, these transactions will not be represented in the overall risk calculated by PRM.

To assign the default user to a PRM group, complete the following steps:

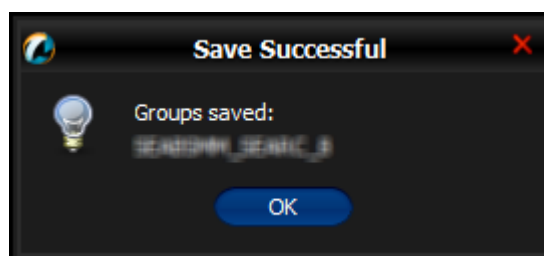
- 1) Select a PRM group where you will add the default user risk.
- 2) Click the **Users** tab.





- 3) Click the **Default Group** check box in the next day changes panel.
- 4) Click the **Save** button.

A save confirmation appears.



**Note:** This is a next day change. Saving the change sends it to the exchange database and becomes effective when the system is started the next day. See [next day change](#) for more information about next day changes.

### Changing an Already Added Next Day Change

If you add a next day change, and you need to modify that next day change before the next day, you must delete that change and then add a new one.

## Changing or Removing a Monitored User

A PRM Group can be configured to monitor the connection status of a Sponsoring Participant's real-time feed session (FIX and/or OMnet). For example, this can be used to monitor the drop-copy feed connection status of a specific clearing member user. If the clearing member disconnects, traders in the PRM Group will be automatically blocked from entering transactions.

If the Monitored User disconnects from the exchange, any PRM Groups that monitor that users will:

- Cancel all open orders.
- Be blocked (unable to submit orders and quotes) until the Monitored User reconnects.

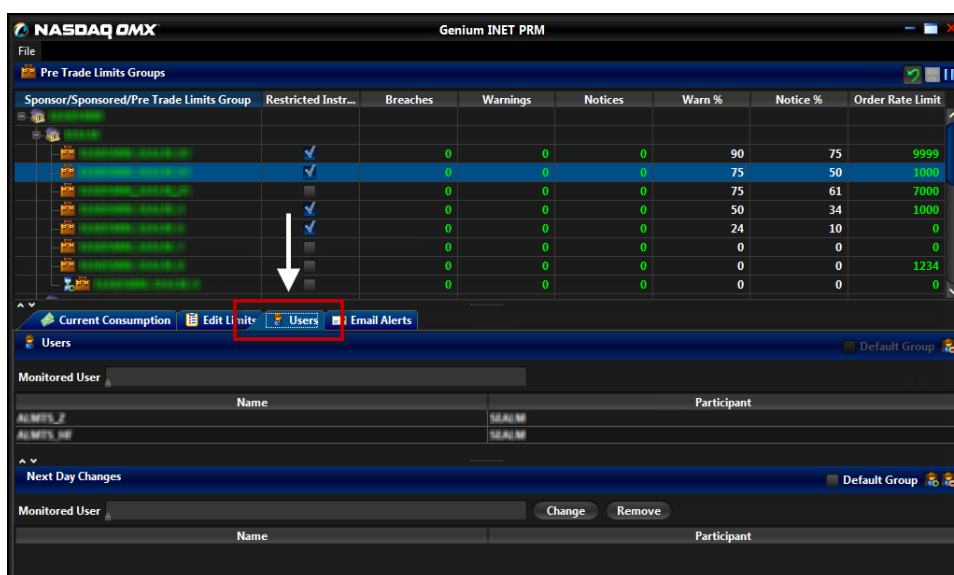
Setting a Monitored User is optional. The monitored user must belong to the PRM group's Sponsoring Participant.



**Note:** The monitored user ID should NEVER be used to log into the Genium INET PRM client application. Doing so will trigger monitoring groups to block.

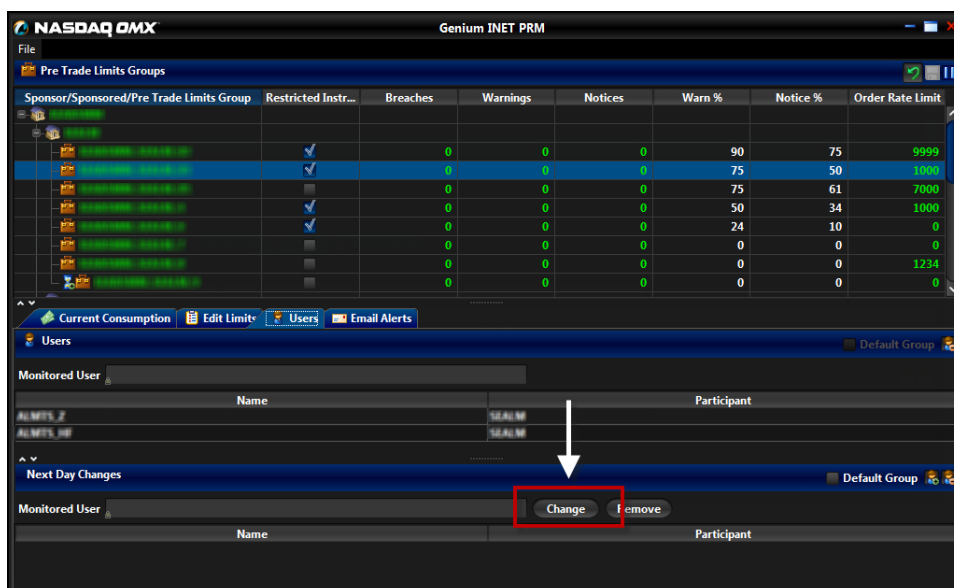
To change a Monitored User, complete the following steps:

- 1) From the Genium INET PRM window, click the PRM Group for which you want to change a Monitored User, and then click the Users tab.



### Users Tab

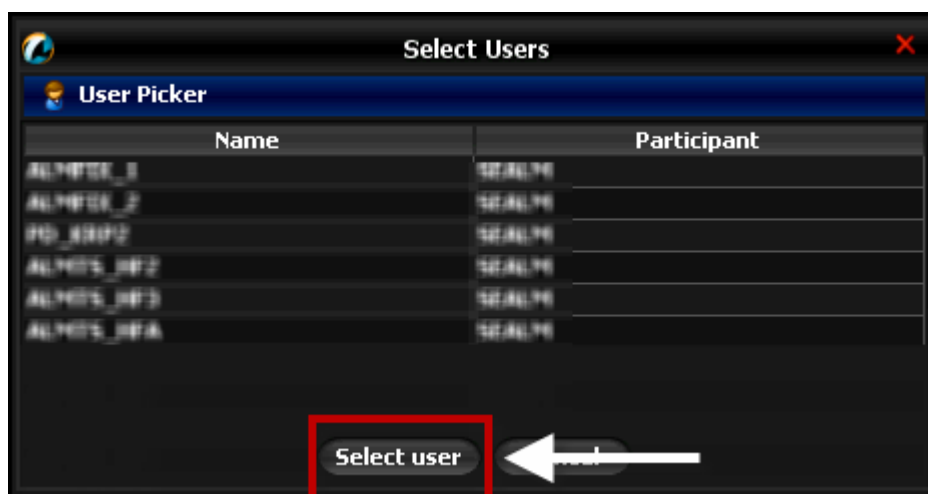
- 2) Click the **Change** button. Alternatively, click the **Remove** button to remove the selected user.



### Change Button

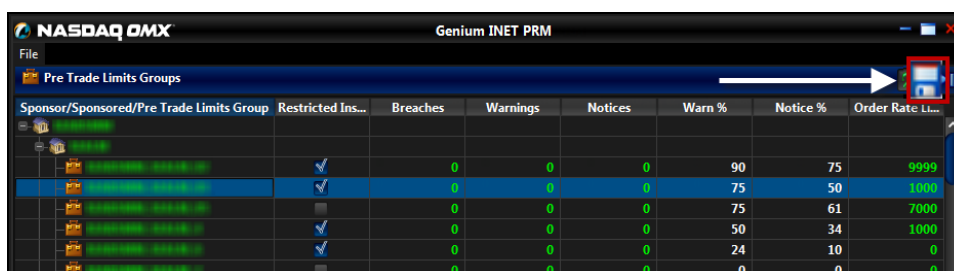
The user selection window appears.

- 3) Click the user to be monitored, and then click the **Select User** button.

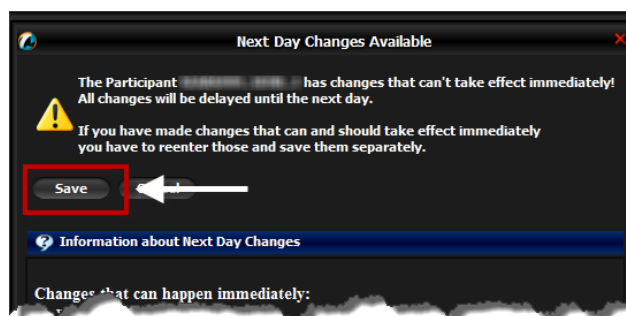


#### Select User Button

- 4) Click the **Save** button in the trader panel to save your changes.



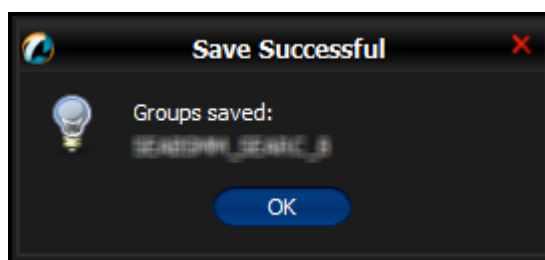
The Next Day Changes Available confirmation window appears.



#### Next Day Changes Save Button

- 5) Click the **Save** button.

The Save Successful dialogue box appears confirming your changes for the group or groups you have changed.



### Save Successful Dialogue Box

6) Click the **OK** button to confirm your change.



**Note:** This is a next day change. Saving the change sends it to the exchange database and becomes effective when the system is started the next day. See [next day change](#) for more information about next day changes.

### Changing an Already Added Next Day Change

If you add a next day change, and you need to modify that next day change before the next day, you must delete that change and then add a new one.

# Managing Email Alerts Overview

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The Genium INET PRM server monitors the activity of all PRM Groups at all times. If the calculated current risk of a group exceeds any of the notification levels, emails are sent to all members of the notification list for that group. The notification levels are set as a percentage of the limit and can be set individually for each PRM Group.

The Genium INET PRM application can be configured to send three types of email alerts:

- 1) **Notices:** Lowest level of alert.
- 2) **Warnings:** Highest level of alert.
- 3) **Breaches:** Risk limit values have been exceeded.

The values associated with breaches are defined by level and are color coded to provide a visual indicator of risk.

- Notice (yellow) is the lowest level of alert.
- Warning (orange) is next highest level of alert.
- Breach (red) indicates that the set values have been exceeded.

Each limit defined for a PRM group will only send one notice, warn, and breach email alert per trading day.

If a limit is altered during the trading day, this limitation will be reset, and the limit will again generate one email alert for each notification level regardless of any that were sent previously.

Only one Notice, Warning, and Breach email will be per day per PRM Group. Users receiving the emails should check the Genium INET PRM application user interface for details.

If any limit is changed intraday, the email counters will be reset and new email alerts will be generated.



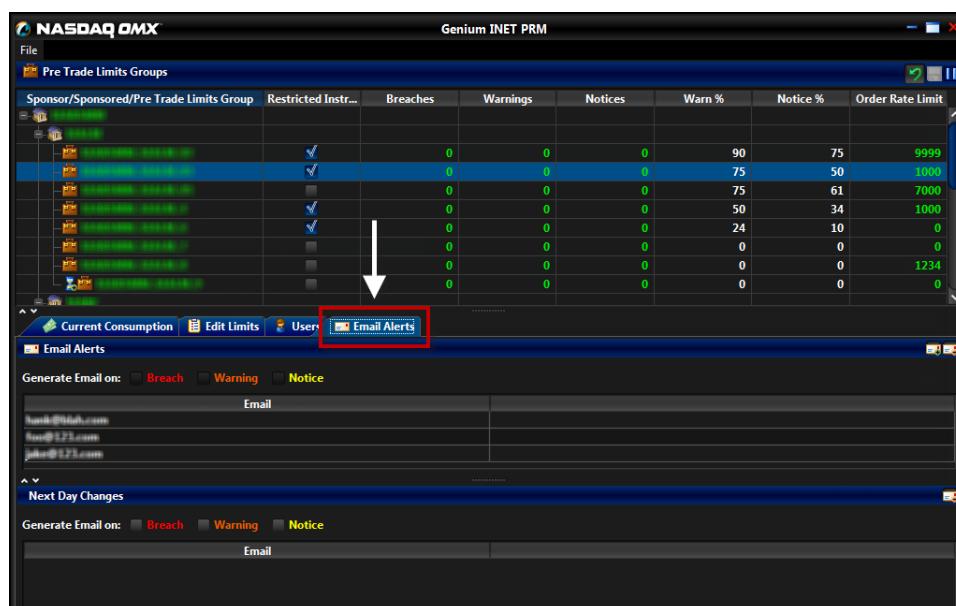
**Note:** The Order Rate limit only generates breach emails. It does not create notice or warning email alerts. Each time the Order Rate limit breaches it will send an email alert.

## Setting Email Alerts

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To set email alerts, complete the following steps:

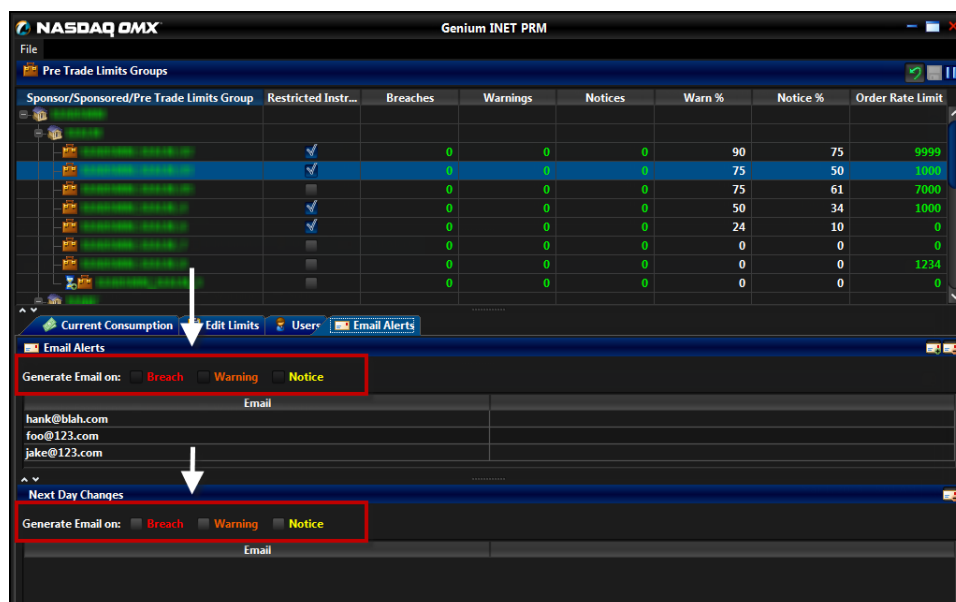
- 1) From the Genium INET PRM window, in the Trader Panel, select the PRM Group for which you want to define new email alerts, and then click the Email Alerts tab.



### Email Alerts Tab

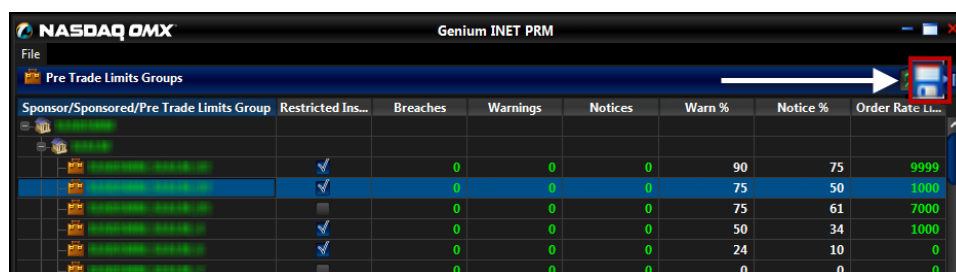
2) Select or deselect the following check boxes to turn them on or off.

- **Breach:** Send emails when the PRM Group breaches a set limit.
- **Warning:** Send emails when the PRM Group reaches the warning level of a limit.
- **Notice:** Send emails when the PRM Group reaches the notice level of a limit.



### Selecting Alerts

3) Click the **Save** button in the trader panel to save your changes.



After you set and save email alerts, all members of the email alert group receive notifications when the selected events occur.



**Note:**

This is a next day change. Saving the change sends it to the exchange database and becomes effective when the system is started the next day. See [next day change](#) for more information about next day changes.

**Changing an Already Added Next Day Change**

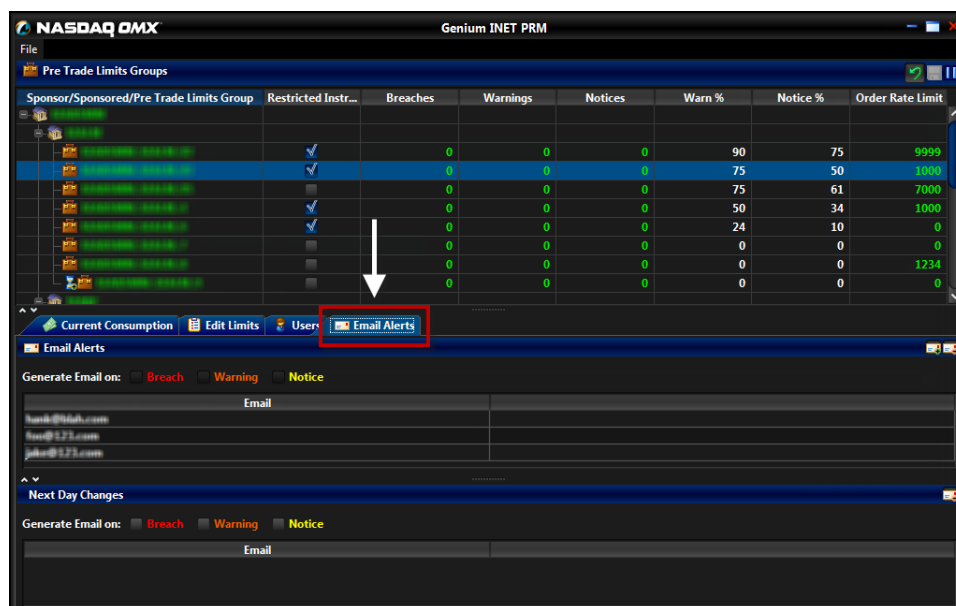
If you add a next day change, and you need to modify that next day change before the next day, you must delete that change and then add a new one.

## Adding New Email Alert Recipients

You can add new email addresses to be alerted when a PRM Group generates notice, warn, and breach events. After you add the new email alert recipient and click the Save button, the email address is immediately added to the notification list for the PRM Group.

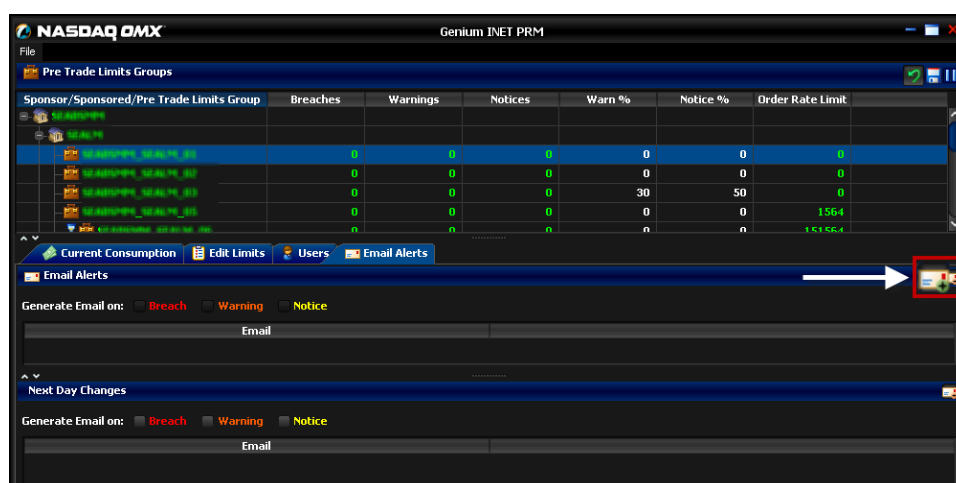
To add new email alerts, complete the following steps:

- 1) From the Genium INET PRM window, in the Trader Panel, select the PRM Group for which you want to define new email alerts, and then click the **Email Alerts** tab.



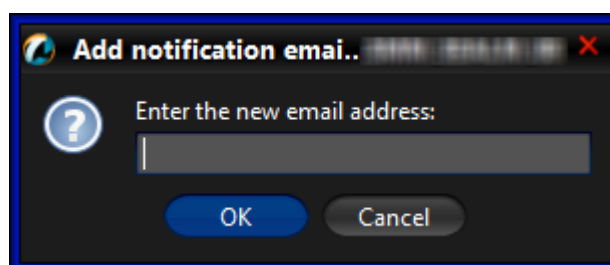
**Email Alerts Tab**

- 2) Click the **Add New Email** button.



### Add New Email Recipient

The Add notification email window displays.

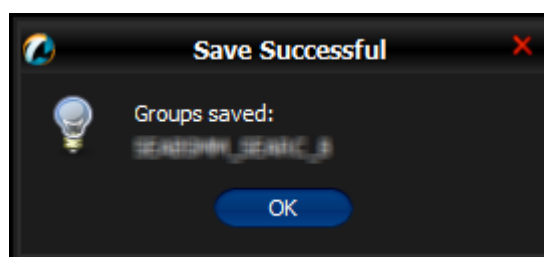


### Add Notification Email Window

- 3) Enter the new email address.
- 4) Click the **OK** button.
- 5) Click the **Save** button in the trader panel to save your changes.



The Save Successful dialogue box appears confirming your changes for the group or groups you have changed.



### Save Successful Dialogue Box

- 6) Click the **OK** button to confirm your change.



**Note:**

This is an intraday change. This change takes effect immediately. See [intraday changes](#) for more information about intraday changes.

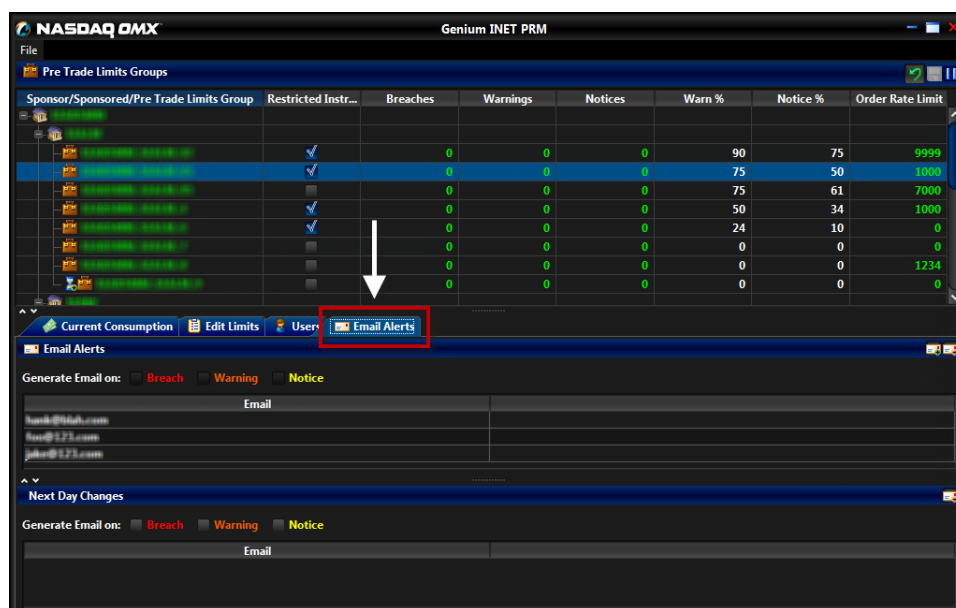
## Editing Email Alert Recipients

You can edit the email address of any notification recipient at any time. After you edit the email alert recipients and click the Save button, they begin to receive email alerts immediately.

To edit email alerts, complete the following steps:

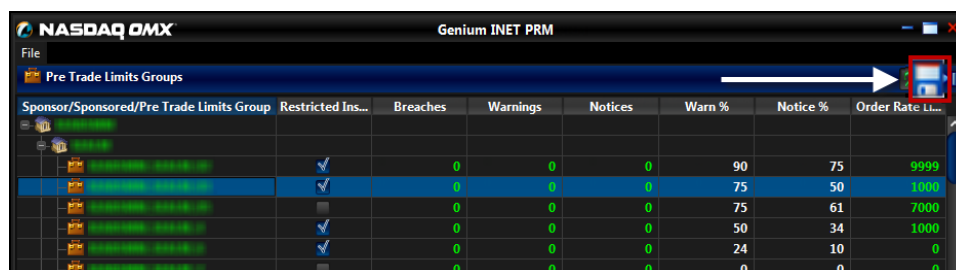
- 1) From the Genium INET PRM window, in the Trader Panel, select the PRM Group for which you want to define new email alerts, and then click the Email Alerts tab.

The Email Alerts panel displays.



### Genium Email Alerts Tab

- 2) Select or deselect the following check boxes to turn notifications on or off:
  - **Breach:** Notify recipients when the group breaches a limit.
  - **Warning:** Notify recipients when the group passes the warning threshold and is close to a breach.
  - **Notice:** Notify recipients when the group passes the notice threshold.
- 3) Click the **Save** button.



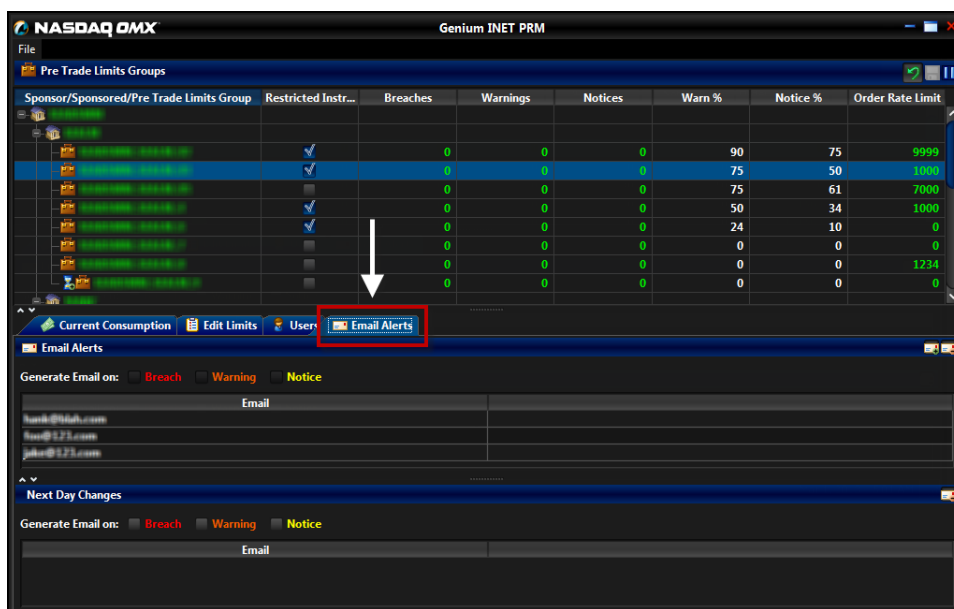
**Note:** This is an intraday change. This change takes effect immediately. See [intraday changes](#) for more information about intraday changes.

## Removing Email Alert Recipients

After you remove the email recipient and click the Save button, the removed address appears in the Next Day Changes panel. This change will apply the following trading day.

To remove an email address from the alert list, complete the following steps:

- 1) From the Genium INET PRM window, in the Trader Panel, select a PRM Group, and then click the Email Alerts tab.



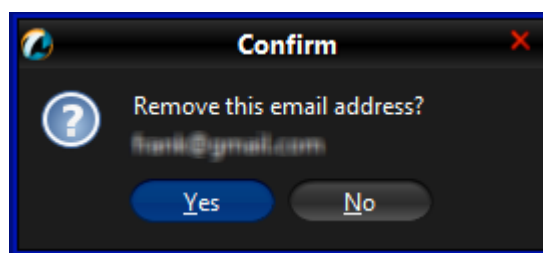
Email Alerts Tab

- 2) Click the desired email recipient.
- 3) Click the **Remove Email** button.



Remove Email Recipient

A confirmation dialogue appears.



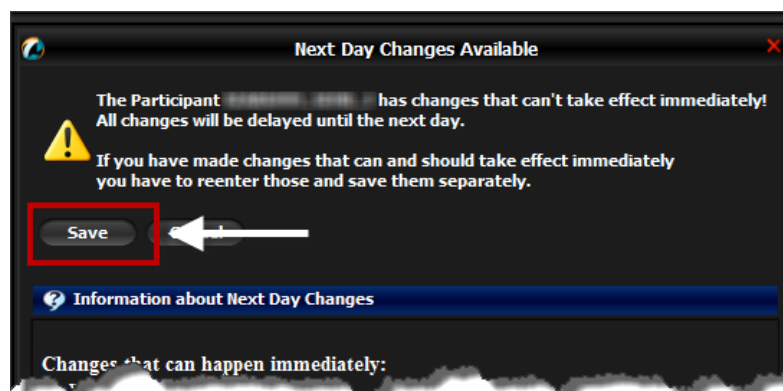
### Removing Email Alert Recipients

- 4) Click the **Yes** button.
- 5) Click the **Save** button.



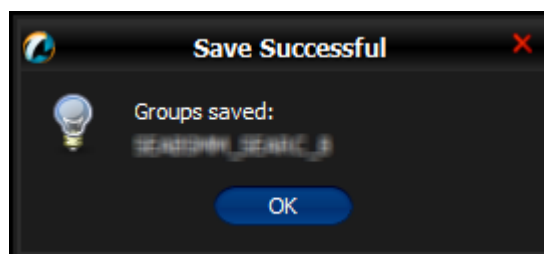
The Next Day Changes Available confirmation window appears.

- 6) Click the **Save** button.



### Next Day Changes Save Button

The Save Successful dialogue box appears confirming your changes for the group or groups you have changed.



### Save Successful Dialogue Box

- 7) Click the **OK** button to confirm your change.

**Note:** This is a next day change. Saving the change sends it to the exchange database and becomes effective when the system is started the next day. See [next day change](#) for more information about next day changes.

**Changing an Already Added Next Day Change**

If you add a next day change, and you need to modify that next day change before the next day, you must delete that change and then add a new one.















