

VERSION 2.0
AUGUST 20, 2019

Apps for Greentree

ALERT RULE UTILITY

APP NUMBER: 010070

Powered by:

MYOB Greentree

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FEATURES

The **Alert Rule Utility** App lets you easily manage all Alert rules by providing an enquiry function on all Alert rules. The enquiry shows what tabs of the rule maintenance are used, whether the rule is active, and if it runs on a schedule.

You can drill from any form within Greentree and find out if there are active rules for the class of object. This will include rules that are against classes updated within the main one e.g. The AP Invoice form will also display rules against an INAPLineItem.

Rules can also be grouped using a tree. Often implementing a solution requires more than one rule and can include rules on multiple classes. The rule tree maintenance lets you see all rules that belong to particular branch or project.

Rule history has been added. Any time a rule is edited you are prompted to enter notes on what was changed. Even if you don't enter details a record is still kept noting that the rule was changed with the user name, date and time.

This app also provides a selection of tools for when maintaining Custom Scripts. This is primarily for A&A scripts but the equivalent functionality is available for scripting dynamic properties, Webview views and webpage elements using scripts (initialize method and custom script query columns).

IMPORTANT NOTES

- We recommend that you test the configuration of the App thoroughly in a test system prior to deploying the App in your live Greentree system.

OTHER REQUIREMENTS

Greentree Modules: Alerts and Approvals

Associated Apps: 010022 – Object Drill Down

USER INSTRUCTIONS

ALERT RULE ENQUIRY

Provides an enquiry function on all Alert rules setup within a system. The enquiry shows what tabs of the rule maintenance are used, whether the rule is active, and if it runs on a schedule.

Select the menu option [Workflow | Approvals and Alerts | Rule Enquiry](#).

1. Enter the selection criteria for displaying Alert rules. If all criteria are left blank then all rules will be displayed.

Number	Description	Class	Active	FormDriver	InstantAlert	Scheduled	Programme	Conditions	Pre-process	Actions	Approved	Not Approved
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Class	Select the class the rule is entered against. You can type a few characters and then drop down to find the correct class.
Module	Select the module the rule is based on from the drop down list.
Alert Collection	To find out what rules are updating a desktop collection, select the collection from the search field.
Text Contains	Type in some text you would expect to be in the name of the rule.
Scheduled Only	Tick to only include rules that have been scheduled
Include Inactive	Tick to include inactive rules.
Search Now	Click this button to display the rules that meet the criteria
Select All	This will select all rules displayed in the table, they can then be Compiled.
Deselect All	Will unselect all rules and allow you to manually select the ones you want to Compile.
Compile	Click this button to compile selected rules. A message will be displayed if any rules have errors.
Clear	Will clear previously entered criteria.

2. Once the rules that match the criteria are displayed, you can double click to drill into them.

Number	Description	Class	Active	FormDriver	InstantAlert	Scheduled	Program	Conditions	Pre-process	Actions	Approved	Not Appro	Schedule C	Entered	Modified	Called By
1003	AP - Invoice - Match	APIInvoice	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	19/01/2013 11:12:33	16/07/2018 10:15:05	
1004	AP - Invoice - FA lin	APIInvoice	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	19/01/2013 11:12:33	19/06/2014 16:23:56	
1048	AP Invoice Payment	APIInvoice	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	21/10/2013 14:33:02	02/04/2014 16:28:58	
1049	AP Invoice Payment	APIInvoice	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	22/10/2013 14:35:14	03/04/2014 11:54:59	
1051	AP Invoice Payment	APIInvoice	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	29/10/2013 09:24:54	29/10/2013 09:26:11	
1052	AP Invoice Payment	APIInvoice	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	29/10/2013 09:34:05	29/10/2013 09:35:11	
1107	AP Esculation Rule	APIInvoice	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	20/03/2015 12:09:33	23/06/2015 13:51:54	
1108	Test AP Esculation	APIInvoice	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	20/03/2015 12:10:21	23/06/2015 13:52:13	
1109	AP - Payment Select	APIInvoice	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	02/04/2015 03:50:06	02/04/2015 03:50:06	
1132	AP Standing Invoice	APIInvoice	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	09/06/2015 15:22:29	09/06/2015 18:00:51	
1169	APIInvoice - alert co	APIInvoice	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	07/09/2017 09:47:58	07/09/2017 09:47:58	

3. If you then click onto a different rule in the original enquiry table, the rule displayed will update. If you double click onto a new rule a second rule maintenance window will open.

Rule Maintenance

Number: 1051 | Description: AP Invoice Payment Selection posting date | Record type: Accounts Payable Invoice

When to run | What to do | Companies | Notes | Custom | History

Operates

Priority: 0 | Inactive

Show form driven Record Types only | Include supplementary Record Types

On: APIInvoice | Description: Accounts Payable Invoice

When: Form Driven | Include Browser Client forms | Not applicable to Mobile

Instant Alert

Scheduled | Ignore suppression flag

Run Now

Use predefined collection: myAPControl:allInvoices

Use predefined Company: myAPControl:myCompany

Programmatic

- Release/Alter Hold
- eExpense Submit
- Called from line assigned Approval
- Create Invoice
- On eXchange EDI Update
- Form Assign

ALERT RULE DRILL

From any form within Greentree you can click on the App Drill icon to find out if there are any alert rules running for that class or any related class.

The screenshot shows the 'AP Invoice Entry' form in Greentree. The form includes fields for Batch (S2282), Branch (02 Wellington), and Last invoice number (0001-0001). It has tabs for Invoice, Select Order, Select Receipt, Select Additional Charges, Select Shipment, Line Item, Custom, and Email Tracker. The Invoice Detail section shows Number 0001-0001, Date 19/05/2016, Hold code RFC, Entered by SUPER, Payment date 18/06/2016, and Posting date 19/05/2016. The Supplier Detail section shows Code 1979, Name Paramount Services, Currency NZD, Rate 1.00000000, and Terms 30 Days from Invoice Date. A red box highlights the 'App Drill' icon in the top right corner. An 'Object Drill - Invoice 0001-0001' window is open, showing a list of related transactions under the 'Alerts and Approvals' tab. The list includes items like '1004 - AP - Invoice - FA line requires Capital Acq Tax Code', '1003 - AP - Invoice - Matching to Purchase Orders', and '1187 - AP invoice department'. A table at the bottom of the form shows a single line item with Type I, Company/Trans Account/Code 0001, Description 0001 (Angela's Testing PM), and Subcode/Location/Activi.

The drill is also used to drill down to related transactions so if you have that App turned on you get two tabs, if you only have the Alert Rule Utility there will be only be one tab.

The tab also shows related classes – INAPLineItem in the above screen shot. If that class had any rules against it there would be a plus sign displayed so that you can also click the plus and see those rules.

You can double click to drill into a rule.

ALERT RULE TREE

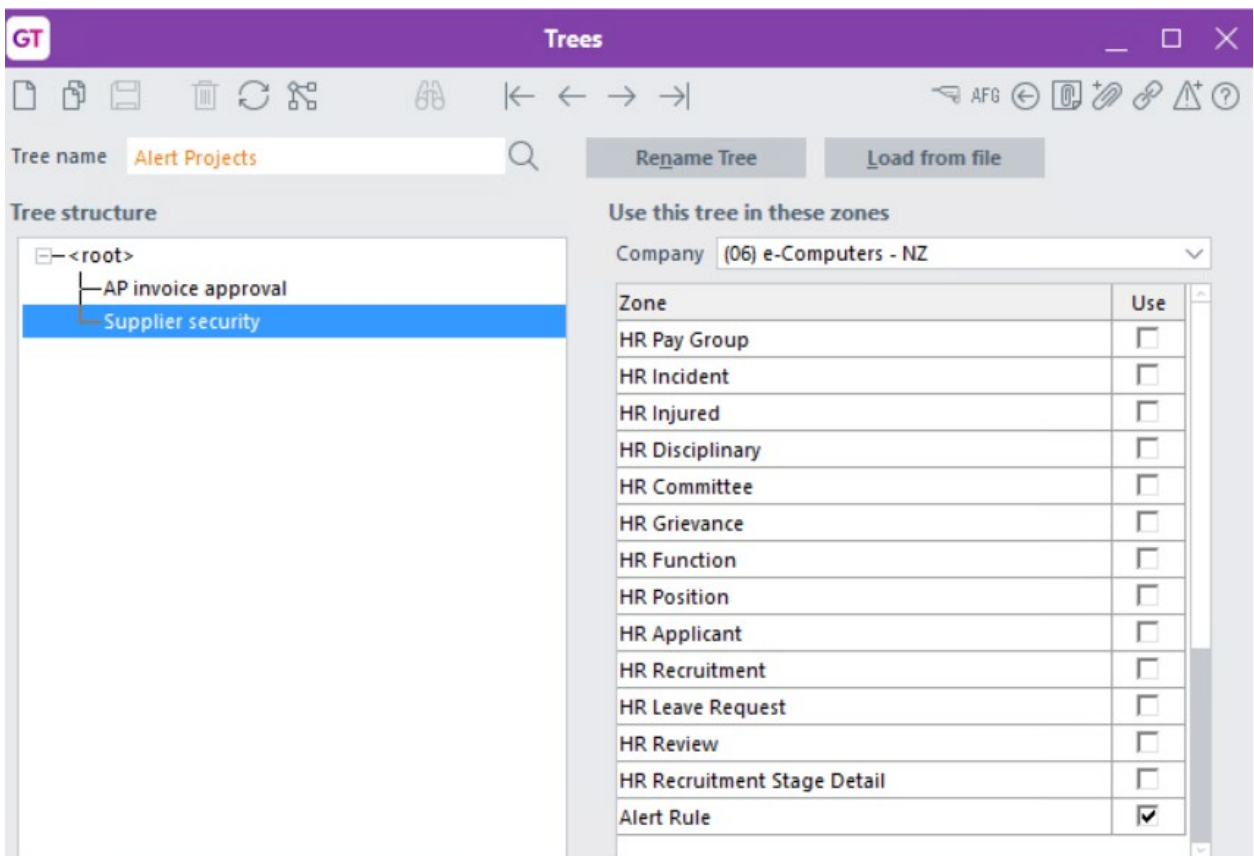
From any form within Greentree you can click on the App Drill icon to find out if there are any alert rules running for that class or any related class.

Often when you are implementing a solution using Alert rules, more than one rule is required. When you enquire on a rule it is hard to tell whether it works alone or runs in conjunction with something else. We have enabled the ability to group rules using trees.

1. Select the menu item | [System](#) | [Trees](#) | [Tree Maintenance](#) |

We recommend having a single tree with a branch for different projects however if a rule is used by more than one project this won't work and you will have to have multiple trees.

On the right hand side tick to say the tree is used for Alert Rule zone.



Tree name

Tree structure

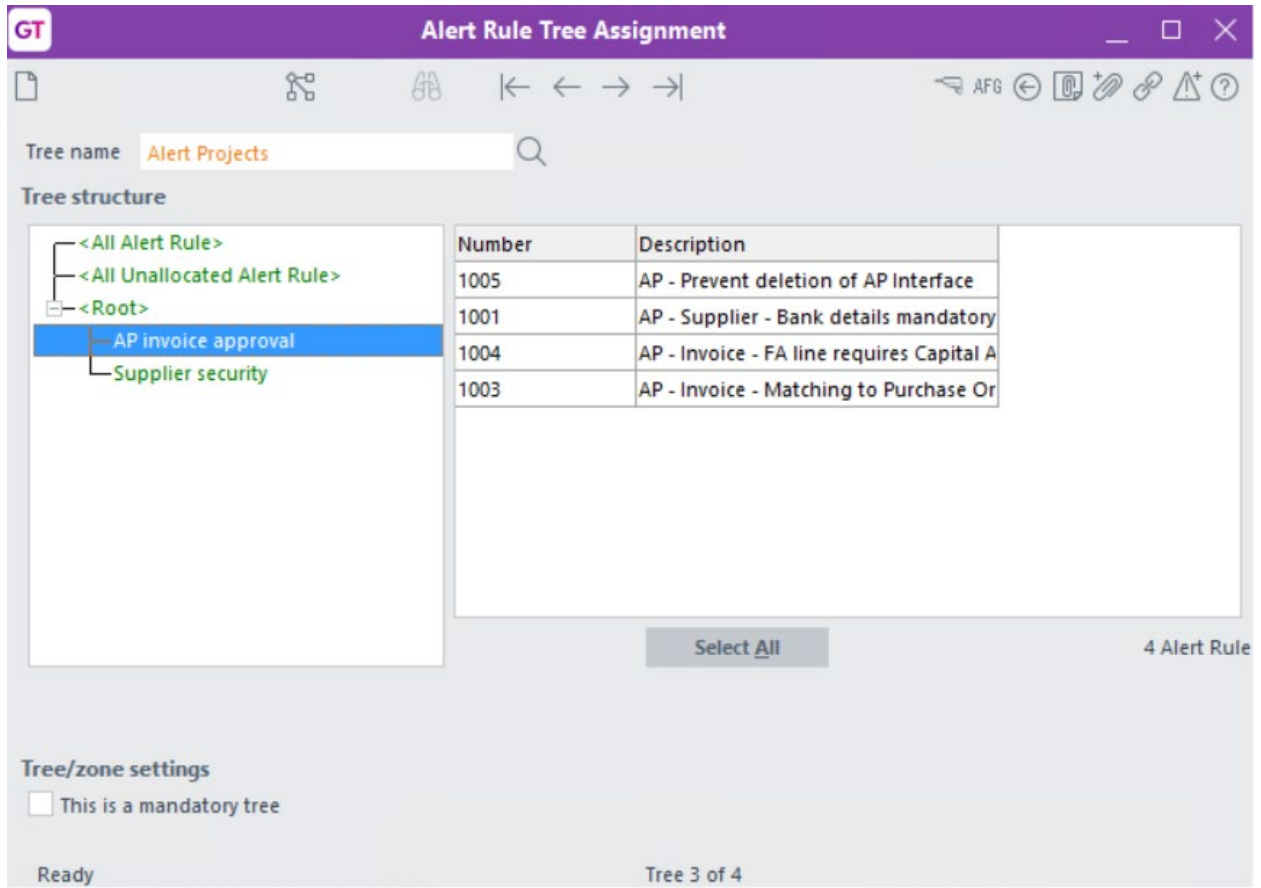
- <root>
 - AP invoice approval
 - Supplier security

Use this tree in these zones

Company

Zone	Use
HR Pay Group	<input type="checkbox"/>
HR Incident	<input type="checkbox"/>
HR Injured	<input type="checkbox"/>
HR Disciplinary	<input type="checkbox"/>
HR Committee	<input type="checkbox"/>
HR Grievance	<input type="checkbox"/>
HR Function	<input type="checkbox"/>
HR Position	<input type="checkbox"/>
HR Applicant	<input type="checkbox"/>
HR Recruitment	<input type="checkbox"/>
HR Leave Request	<input type="checkbox"/>
HR Review	<input type="checkbox"/>
HR Recruitment Stage Detail	<input type="checkbox"/>
Alert Rule	<input checked="" type="checkbox"/>

2. Select the menu item | [Workflow](#) | [Approvals and Alerts](#) | [Rule Tree Maintenance](#) |



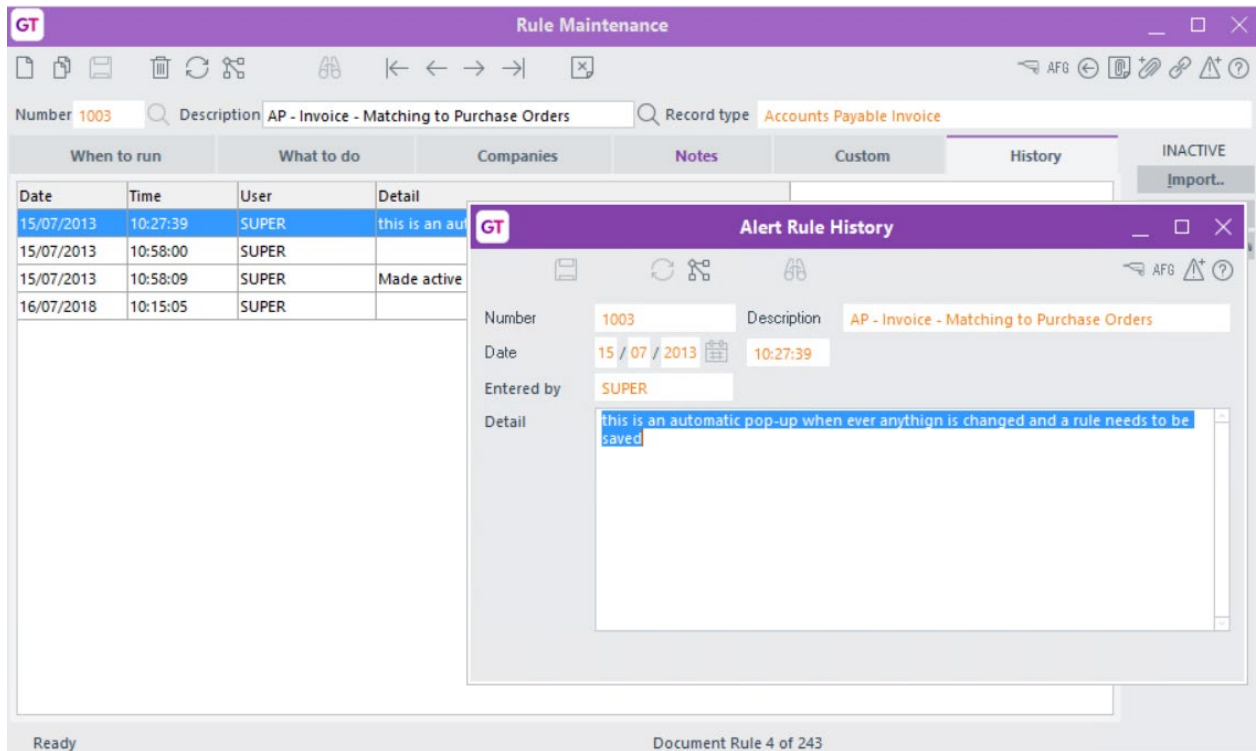
The Alert Rule Tree Assignment works as per all other modules. Unassigned rules can be dragged from the unallocated branch to the appropriate project branch.

When you are maintaining your rule you can click on the Custom tab then drill into the appropriate project tree and assign the rule to a branch.

ALERT RULE HISTORY

When you have multiple consultants working on a site, or a site is re-assigned to a new consultant, or if the client themselves are editing rules, it can be difficult to know what has changed and why. We have now introduced a prompt to fill out some rule history notes whenever a change is made.

1. Select the menu item | [Workflow](#) | [Approvals and Alerts](#) | [Rule Maintenance](#) |



If a rule is changed and the Save button is activated, when you click save an Alert Rule History window is displayed.

We recommend that details of what the change was are typed into the detail area. You can close the box without typing but we still record that a change was made.

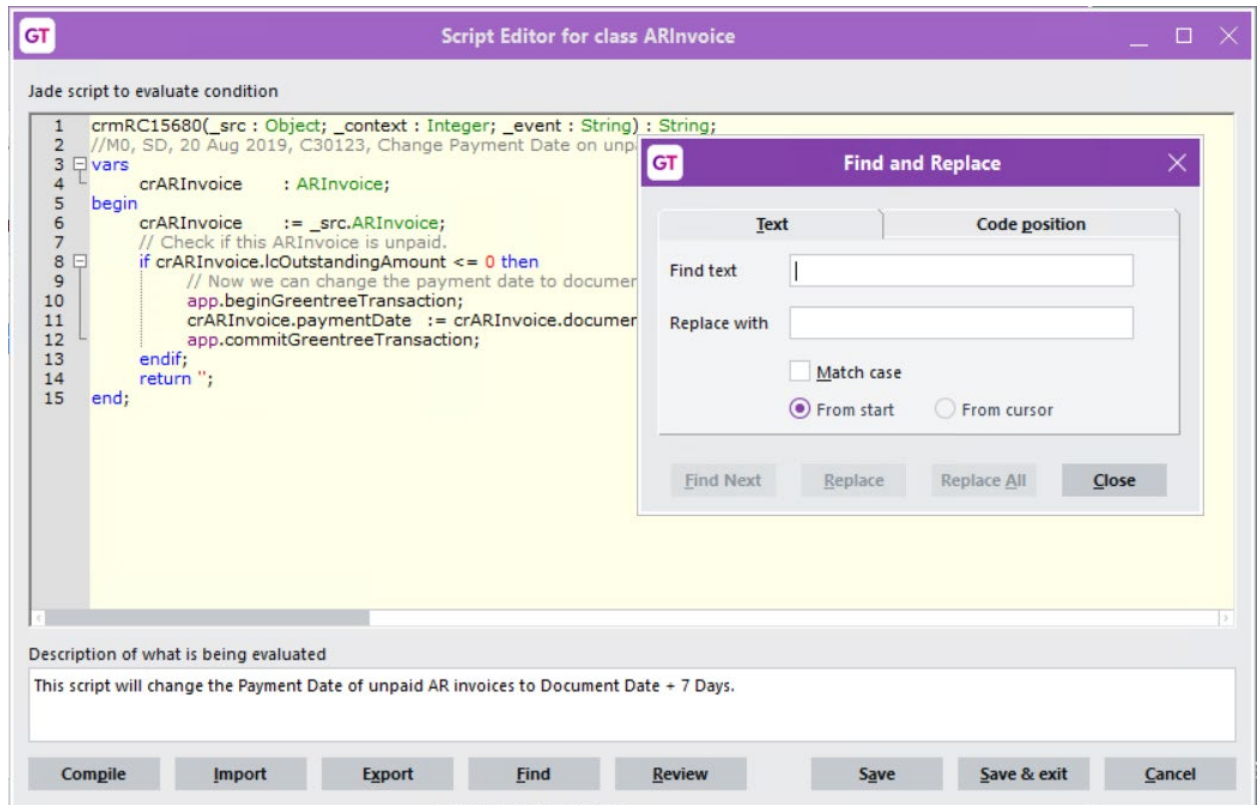
On the History tab you can view the date, time and users who have made changes to the rule. Where they save without typing any details, we still have the data time and user per line 2 above.

ALERT RULE ENHANCEMENTS

This app provides a selection of tools for when maintaining custom scripts in alert rules, dynamic properties, Webview views, and web page initialize method and scripted columns. The features listed below apply to all these situations.

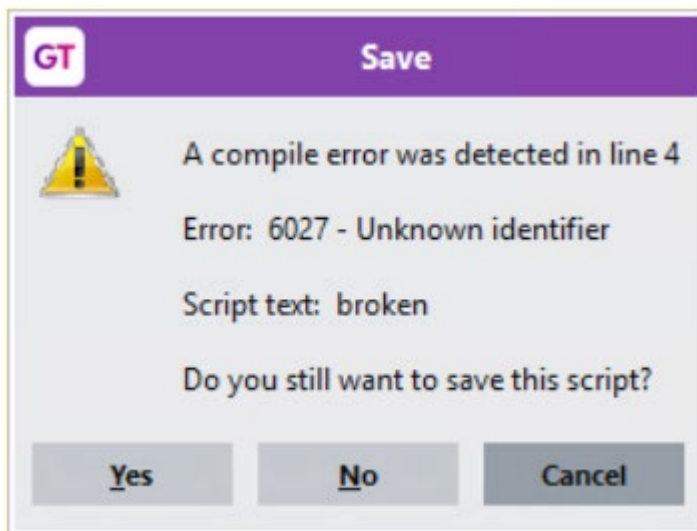
These are primarily designed to aid development.

- The edit password is retained against the form which launched the script editor. It is then applied to all forms that use the script editor. This means one-time password entry for all scripting work for a user, per login. The password is retained until the next successful login, at which time it is cleared.
- The "Script Editor" window for Custom Scripts on CRMDocumentRule classes can optionally be displayed non-modally. See App Configuration for how this is used. With non-modal enabled, extra buttons for Save and Save & Exist are available, instead of just OK to save and close.
- The Find button allows searching for and optional replacement of text in the script editor panel. This allows finding by text or code position.
- The Find by Text allows for the search to be From start or From Cursor.
- The Ctrl+F key combination in the script editor panel will display the "Find and Replace" dialogue. This is equivalent to using the Find button.
- The highlight colour used is white on red.



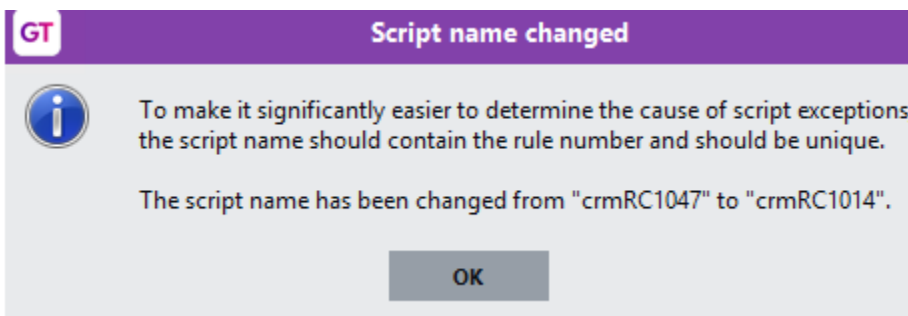
- The Review button will perform a code check in the script editor panel – the results are displayed in a Jade Interpreter window.

- When the "Save", "Save & Exit" or "OK" buttons are clicked, a test compile is performed before the script is saved. If a compile error is detected, a dialogue will ask the user if they still want to save the script despite the compile error. Cancel will simply return to the edit window.



Warning - If you say No, the script window is closed and the change is not saved.

- The Ctrl+T key combination in the script editor panel will insert a formatted mod marker where the cursor is.
- The app will rename scripts (signature) so that the name reflects the number of the rule the script is for. That is to make it easier to track down the cause of exceptions. The rename is also performed when script code is imported into the Script Editor.



- When you compile the script and there is an error the text in error will be highlighted, making it easier to find.
- When you use the "Save" option the script window remains open so you can use other windows. There is an option in the App Control to restore the script window to its normal size if maximized (so you can see other windows more easily).
- When any new custom script is added, a mod marker "M0" is automatically included in the code, using the current user's user name initials. If the user name only has one word a question mark will be used as the second initial, as shown here.

Jade script to evaluate condition

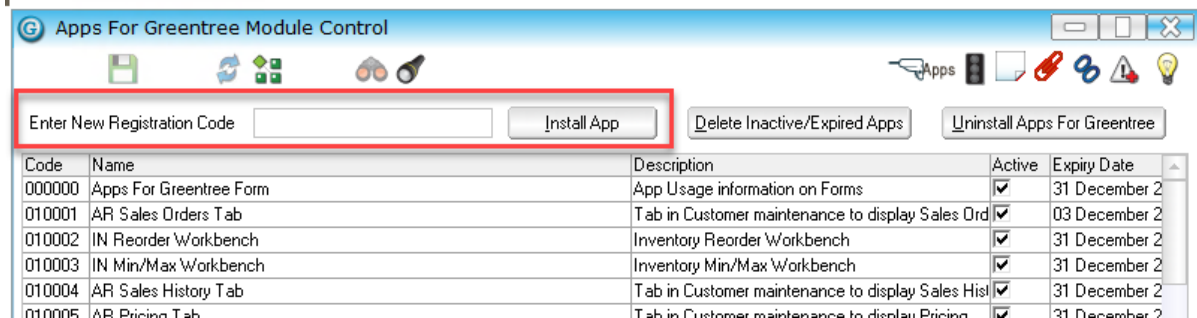
```
1 |crmRC15680(_src : Object; _context : Integer; _event : String) : String;  
2 |//M0, S?, 20 Aug 2019, C<call number>, Created.  
3 |  
4 |vars  
5 |begin  
6 |    return "";  
7 |end;
```

IMPLEMENTATION GUIDE

Please refer to the Important Notes section above before installing and configuring this App

APP INSTALLATION

1. Log into Greentree as the Super user
2. Select the menu item | System | Apps For Greentree | Apps Module Control |
3. Enter the New Registration Codes supplied and click Install App



4. Select/Highlight the Alert Rule Utility App.
5. Click on the Edit Users button and select the users who will be configured to use Alert Rule Utility, for which companies.
6. Save and Close the form.
7. Log out and in again to activate the associated menu options.

APP CONFIGURATION

1. Select/Highlight the Alert Rule Utility App.
2. Click on the Change button

Ticking this checkbox allows the script editor window to be non-modal.

This feature allows the user to leave the Script Editor displayed, set focus back to the "Rule Maintenance" window, and to work with that window.

An example would be to test the script being edited via the "Run Now" button. Upon returning to the Rule Maintenance window, the user can display the Script Editor for a different script if desired. If the Rule Maintenance window is closed while Script Editor windows launched from it are still visible, those Script Editor windows will be closed (the user prompted if there are unsaved changes).

If the Script Editor window is displayed non-modally, "Save" and "Save & exit" buttons will be displayed instead of the usual "OK" button.

