



# SENDING EMAIL NOTIFICATIONS USING CAMPUS SOLUTION NOTIFICATION FRAMEWORK

SESSION 5025  
Nov 8th 2017

ADU 8-10 NOVEMBER 2017

# PRESENTERS

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# ORACLE®

## PEOPLESOFT

### Griffith University



- 5 campuses
- 50,000 students
- Ranked in the top 3% of universities globally
- 200 degrees
- 200,000 alumni across 130 nationalities
- Rated 5 stars for graduate employability

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# GRIFFITH UNIVERSITY & ORACLE

## Database Infrastructure

- Oracle 12c Real Application Clusters Database/Dataguard
- Oracle 12c Grid Infrastructure/ASM

## PeopleSoft

- Campus Solutions 9.0 (Bundle 42)
- Integration Hub Portal 9.1
- Finance 9.1 Bundle 36 (9.2 project underway)
- HR 9.2 PUM 20 (PUM 22 go-live in Dec)

## PeopleTools 8.55

- PeopleTools 8.55.13
- PeopleTools 8.55.17 (upgrade go-live in Dec)

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# OVERVIEW

1. Introduction
2. How to setup notifications
3. Demonstration
4. Summary
5. Questions

# INTRODUCTION

The Notifications Framework enables communicate from Campus Solution to staff and students.

Notification can be done through any of these forms

1. Emails
2. SMS
3. Alerts (message appear in a page)
4. Push notification (for mobile)
5. Worklist item

# ADVANTAGES

1. Can use as real time or batch processing
2. Can retrieve the sent emails (main advantage)
3. Simple to setup (only 4 steps )
4. Easy to setup and run in batch mode
5. Easy to code
6. Delivered extensible app class
7. Delivered admin , tester , purge and archive functionality
8. Can use the existing email templates
9. HTML coding can be used in the template
10. Ability to CC and BCC functions

# DISADVANTAGES

1. May be more development work effort needed
2. No function to check email is read at Griffith
3. Need more data base storage space

# HOW TO SETUP NOTIFICATIONS

## Step 1. Configure a generic template to use in notification

Home > PeopleTools > Workflow > Notifications > Generic Templates

Generic Template Definition

Blackberry Email Responses

Template:

GU\_SGF\_CHGGRD\_STDNT

\*Description:

Grade Change Student Advice

Instructional Text:

Type names or email addresses in the To, CC, or BCC fields, using a semi-colon as a separator.  
Click LOOKUP RECIPIENT to search for a name.  
Click DELIVERY OPTIONS to view or change the method of the send.

Priority:

\*Sender:

Other

Email ID:

raso@griffith.edu.au

Subject:

Change of Grade - %2

Message Text:

<p>Dear %3,<br /><br />A change of grade has been made for %2 for %4.  
To view your grade, please visit: myGriffith > My Courses > View grades<br /><br />Please note, grade changes may take 24 hours to appear on your records.<br /><br />Kind regards<br />Examinations and Timetabling</p>

Below is the list of available variables for this template.  
You can use template variables within your subject or message text.  
The following variables can also be used:  
%Date, %DateTime, %Time, %ServerTimeZone, %EmailAddress, %NotificationPriority,  
%NotificationToList, %NotificationCCList

**Template Variables**

*Value	*Description		
%1	URL	+	-
%2	Course	+	-
%3	Name	+	-
%4	Term	+	-

## Step 2. Configure notification setup for the generic template

Set Up SACR > System Administration > Utilities > Notifications > Notification Setup

### Notification Setup

Notification Template ID: SCC\_NTF\_TMP\_20170823120542

\*Template Name: GU\_SGF\_CHGGRD\_STDNT

Status: Active

Description: Change grade student notification

\*NotificationType: Email ☒ Override Notification Preferences

Email Content Type: text/html

\*Notification Criticality: Informative

\*Generic Template: GU\_SGF\_CHGGRD\_STDNT [View Generic Template](#)

#### Recipients Configuration

**To**

☒ Preferred Email Address

☐ Custom Logic

☐ Static Address

**Cc**

☒ None

☐ Preferred Email Address

☐ Custom Logic

☐ Static Address

**Bcc**

☒ None

☐ Preferred Email Address

☐ Custom Logic

☐ Static Address

## Message Text



Format

Font

Size

**B**

*I*

U

~~S~~



Dear %3,

A change of grade has been made for %2 for %4. To view your grade, please visit:  
myGriffith > My Courses > View grades

Please note, grade changes may take 24 hours to appear on your records.

## Step 3. Setup a notification consumer

Set Up SACR > System Administration > Utilities > Notifications > Notification Consumer Setup

### Notification Consumer Setup

Notification Consumer ID: SCC\_NTF\_CON\_20131120090022

\*Consumer Name: FINAL\_GRADE\_POSTED

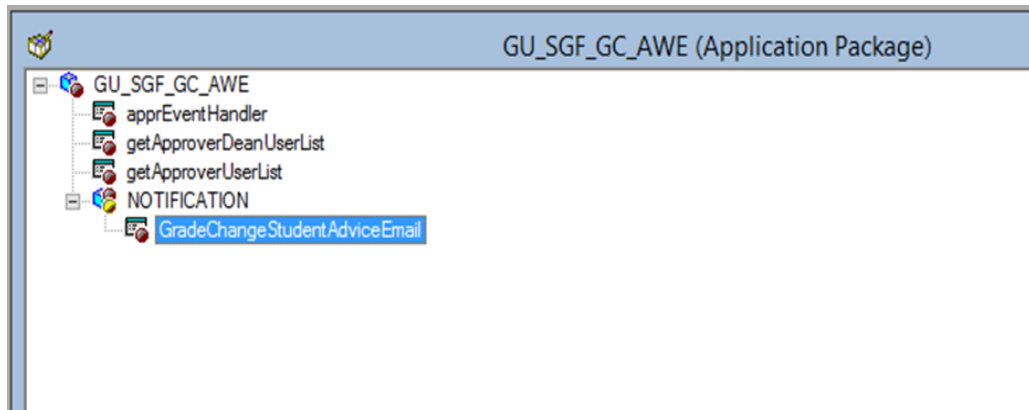
Status: Active

Description: Final Grade Posted

Notification Templates					Personalize   Find   View 5   1-13 of 13   First 1-13 of 13 Last		
*Template Name	NotificationType	Template Status	*Application Class				
1 GRADE_ADDED_SMS	SMS	Inactive	SCC_USER_NOTIFICATIONS:TE	View Template Name	+	-	
2 GRADE_CHANGED_SMS	SMS	Inactive	SCC_USER_NOTIFICATIONS:TE	View Template Name	+	-	
3 GRADE_REMOVED_SMS	SMS	Inactive	SCC_USER_NOTIFICATIONS:TE	View Template Name	+	-	
4 GRADE_ADDED_EMAIL	Email	Inactive	SCC_USER_NOTIFICATIONS:TE	View Template Name	+	-	
5 GRADE_CHANGED_EMAIL	Email	Inactive	SCC_USER_NOTIFICATIONS:TE	View Template Name	+	-	
6 GRADE_REMOVED_EMAIL	Email	Inactive	SCC_USER_NOTIFICATIONS:TE	View Template Name	+	-	
7 GRADE_ADDED_PUSH	Push	Inactive	SCC_USER_NOTIFICATIONS:TE	View Template Name	+	-	
8 GRADE_CHANGED_PUSH	Push	Inactive	SCC_USER_NOTIFICATIONS:TE	View Template Name	+	-	
9 GRADE_REMOVED_PUSH	Push	Inactive	SCC_USER_NOTIFICATIONS:TE	View Template Name	+	-	
10 GU_SGF_PD_ASRRDR	Email	Active	SCC_USER_NOTIFICATIONS:TE	View Template Name	+	-	
11 GU_SGF_CC_RMRDR	Email	Active	SCC_USER_NOTIFICATIONS:TE	View Template Name	+	-	
12 GU_SGF_CC_UNFGRD	Email	Active	SCC_USER_NOTIFICATIONS:TE	View Template Name	+	-	
13 GU_SGF_CHGGRD_STDNT	Email	Active	SCC_USER_NOTIFICATIONS:TE	View Template Name	+	-	

## Step 4. Trigger the notification framework

Write an AppClass that extends AbstractNotification class



```
import SCC_COMMON:NOTIFICATION:AbstractNotification;
import SCC_COMMON:NOTIFICATION:INotificationContext;
import SCC_COMMON:NOTIFICATION:BaseNotificationContext;
```

```
class GradeChangeStudentAdviceEmail extends
SCC_COMMON:NOTIFICATION:AbstractNotification

    method GradeChangeStudentAdviceEmail();

    /* Abstract methods I need to implement */

    method createNtfContext() Returns
SCC_COMMON:NOTIFICATION:INotificationContext;

    method populateNtfContext(&p_ntfContext As
SCC_COMMON:NOTIFICATION:INotificationContext);
```

method populateNtfContext

```
&NtfCntxt.SCC_NTF_AUDCE = "ER";
```

```
&NtfCntxt.EMPLID = %This.Emplid;
```

```
&IStrStudentEmplid = %This.StudentEmplid;
```

```
&INbrReqID = %This.GCReqID;
```

```
/* assign ID to send emails */
```

```
&NtfCntxt.arrEMPLID_TO.Push(&IStrStudentEmplid);
```

```
/*Populate Template Variable*/
```

```
&NtfCntxt.getParameterMap().Put("%1", "");
```

```
/* get bind variables values */
```

```
SQLExec(SQL.GU_SGF_GC_PST_EML_BIND, &INbrReqID, &IStrStudentEmplid, &IStrCourse,  
&IStrName, &IStrStrm);
```

```
&NtfCntxt.getParameterMap().Put("%2", &IStrCourse);
```

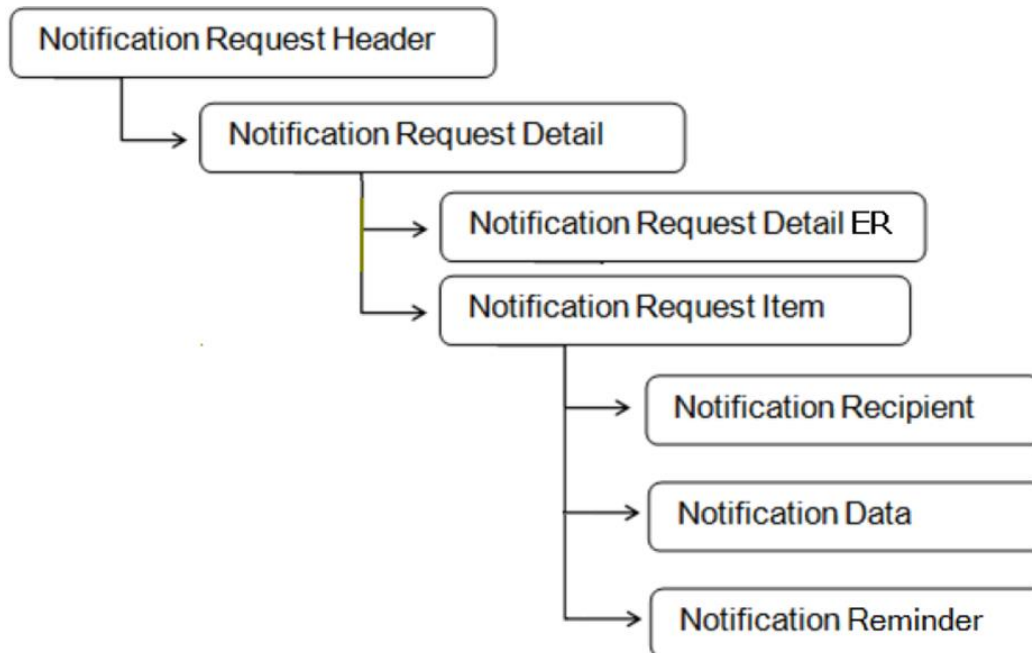
```
end-method;
```

# Trigger the Notifications

```
import GU_SGF_GC_AWE:NOTIFICATION:*;  
  
alNotif = create GU_SGF_GC_AWE:NOTIFICATION:GradeChangeStudentAdviceEmail();  
alNotif.NOTIF_TMPL_ID = "SCC_NTF_TMP_20170823120542";  
  
alNotif.emplid = %EmployeeId;  
alNotif.GCReqid = AMAL_TMP_WRK.GU_SGF_GC_REQ_ID.Value;  
alNotif.studentemplid = AMAL_TMP_WRK.EMPLID.Value;  
  
alNotif.send();  
|
```

## Table structure where notification data store

Record
SCC_NTFREQ_HDR
SCC_NTFREQ_DTL
SCC_NTF_DTL_ER
SCC_NTFREQ_ITM
SCC_NTFREQ_RECP
SCC_NTFREQ_DATA
SCC_NTFREQ_RMDR



For migration DMS scripts

--Template

```
EXPORT PS_WL_TEMPLATE_GEN where WL_TEMPLATE_ID in  
( 'GU_SGF_CHGGRD_STDNT' );
```

```
EXPORT PS_WL_TEMPL_GEN_RS where WL_TEMPLATE_ID in  
( 'GU_SGF_CHGGRD_STDNT' );
```

```
EXPORT PS_WL_TEMPL_GEN_TK where WL_TEMPLATE_ID in  
( 'GU_SGF_CHGGRD_STDNT' );
```

--Notification config

```
EXPORT PS_SCC_NTF_SETUP WHERE SCC_NTFREQ_TMPLTID IN  
( 'SCC_NTF_TMP_20170823120542' ) ;
```

```
EXPORT PS_SCC_NTF_CON_TMP WHERE SCC_NTF_CON_ID =  
'SCC_NTF_CON_20131120090022' and SCC_NTFREQ_TMPLTID IN  
( 'SCC_NTF_TMP_20170823120542' ) ;
```

# NOTIFICATION TESTER

## Notification Framework Tester

\*Notification Consumer: FINAL\_GRADE\_POSTED ▾

\*Template Name: GU\_SGF\_CHGGRD\_STDNT ▾ View Template

Description: Change grade student notification

NotificationType: Email

Notification Criticality: Informative

To: Preferred Email Address

Generic Template: GU\_SGF\_CHGGRD\_STDNT View Generic Template

Priority:

Attachment File Path:

\*Employee ID:  🔍

Notification Item Tag:

Notification Item Tag1:

Notification Item Tag2:

Notification Item Tag3:

Notification Item Tag4:

Notification Importance: ▾

Attachment File Name:

Subject: Change of Grade - %2

Message Text: 

<p>Dear %3,<br /><br />A change of grade has been made for %2 for %4. To view your grade, please visit: myGriffith > My Courses > View grades<br /><br />Please note, grade changes may take 24 hours to appear on your records.<br /><br />Kind regards<br />Examinations and Timetabling</p>

Template Variables			Personalize   Find    	First  1-4 of 4  Last
Data Key	Description	Value		
%1	URL	<input type="text"/>		
%2	Course	<input type="text"/>		
%3	Name	<input type="text"/>		
%4	Term	<input type="text"/>		

Send Notification

# Admin page

Navigation bar: Favorites ▾ | Main Menu ▾ > Set Up SACR ▾ > Install ▾ > Campus Community Installation

Griffith UNIVERSITY CS90DEV - Amal Dissanayake (S385671)

Names / Addresses Extensions Notification Consumer Admin

## Configure Notification Consumer Admin Access

Personalize   Find   [Grid Icon]   [Print Icon]				First 1-4 of 4 Last	
*Consumer				*Access Code	
1 Service Request Notifications				Read Only	+ -
2 Evaluation Management System				Read Only	+ -
3 Tester Consumer				Read Only	+ -
4 FINAL_GRADE_POSTED				Read Only	+ -

Navigation bar: Favorites ▾ | Main Menu ▾ > Set Up SACR ▾ > Security ▾ > Secure Student Administration ▾ > User ID ▾ > Notification Consumer Security

Griffith UNIVERSITY CS90SITD - Amal Dissanayake (S385671)

## Notification Consumer Security

User ID S385671

Dissanayake,Amal Samarasinghe

Personalize   Find   [Grid Icon]   [Print Icon]				First 1 of 1 Last	
*Consumer				*Access Code	
1 FINAL_GRADE_POSTED				Read Only	+ -

Save Return to Search Notify

## Admin Notifications

Enter any information you have and click Search. Leave fields blank for a list of all values.

Find an Existing Value

▼ Search Criteria

Show All Notifications



ID:	begins with ▾	<input type="text"/>
Campus ID:	begins with ▾	<input type="text"/>
National ID:	begins with ▾	<input type="text"/>
First Name:	begins with ▾	<input type="text"/>
Last Name:	begins with ▾	<input type="text"/>

☐ Case Sensitive

Search

Clear

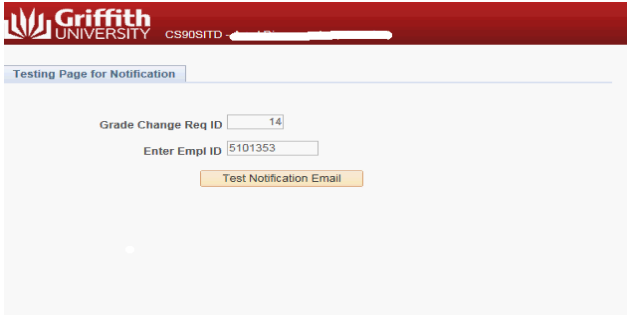
Basic Search



Save Search Criteria

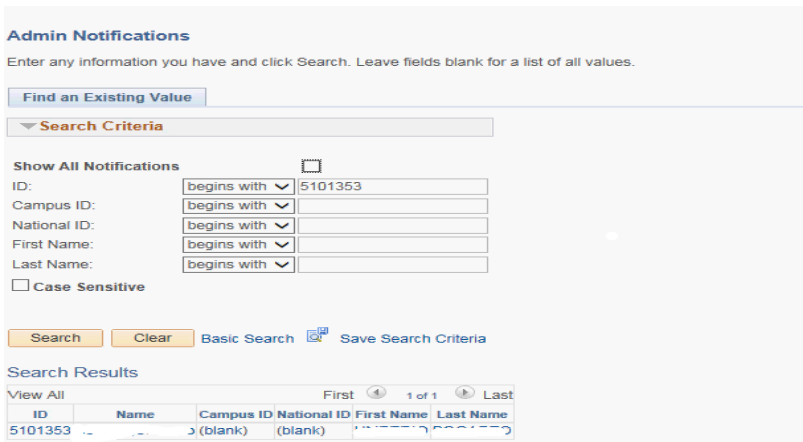
# DEMONSTRATION

Simple application to test the emails



The screenshot shows the Griffith University CS90SITD interface. At the top is a red header with the Griffith University logo and the text 'CS90SITD'. Below the header is a tab labeled 'Testing Page for Notification'. The main content area contains two input fields: 'Grade Change Req ID' with the value '14' and 'Enter Empl ID' with the value '5101353'. Below these fields is a yellow button labeled 'Test Notification Email'.

Now click the test notification email button and go to admin page



The screenshot shows the 'Admin Notifications' page. At the top is the title 'Admin Notifications' and a subtitle 'Enter any information you have and click Search. Leave fields blank for a list of all values.' Below this is a tab labeled 'Find an Existing Value'. Under the tab is a section titled 'Search Criteria' with a dropdown arrow. Below the dropdown are several input fields: 'Show All Notifications' with a checkbox, 'ID:' with a dropdown menu showing 'begins with' and a text box with '5101353', 'Campus ID:' with a dropdown menu showing 'begins with' and a text box, 'National ID:' with a dropdown menu showing 'begins with' and a text box, 'First Name:' with a dropdown menu showing 'begins with' and a text box, and 'Last Name:' with a dropdown menu showing 'begins with' and a text box. Below these fields is a checkbox labeled 'Case Sensitive'. At the bottom of the search criteria section are three buttons: 'Search', 'Clear', and 'Basic Search' with a small icon. To the right of these buttons is a link 'Save Search Criteria'. Below the search criteria section is a section titled 'Search Results'. At the top of the search results section is a link 'View All'. Below the link is a table with the following columns: 'ID', 'Name', 'Campus ID', 'National ID', 'First Name', and 'Last Name'. The table has one row with the following values: '5101353', '(blank)', '(blank)', '(blank)', '(blank)', and '(blank)'. At the bottom of the table is a pagination bar with the text 'First', '1 of 1', and 'Last'.

# Summary view

Notifications Administration Overview

Email [SMSAlert](#) [Worklist](#) [Push](#) [Announcements](#)

Period: 7 days

ID	Name	Created on	Sender	Consumer Name	Importance	Subject	Details
5101353	[REDACTED]	03/11/2017 10:42:21AM	raso@griffith.edu.au	FINAL_GRADE_POSTED	Low	Change of Grade - 3015CCJ - Youth Justice	<a href="#">Details</a>

[Return to Search](#)

## Click the details

Notification Details

Find First 1 of 1 Last

NotificationType: Email

Created: 03/11/2017 10:42:21AM

Sender: raso@griffith.edu.au

Recipient: b.haan@griffith.edu.au;

Cc:

Subject: Change of Grade - 3015CCJ - Youth Justice

Status: Unknown

Message text:

Dear Mr B [REDACTED]

A change of grade has been made for 3015CCJ - Youth Justice for Trimester 1 2017. To view your grade, please visit: myGriffith > My Courses > View grades

Please note, grade changes may take 24 hours to appear on your records.

Kind regards  
Examinations and Timetabling

[Return to Summary](#) [Show Audit Info](#)

Now click the show audit info for it will show all the information related to the application including application class

### Audit Information

Request ID:	13787	Template:	GU_SGF_CHGGRD_STDNT
Sequence ID:	1	Template ID:	SCC_NTF_TMP_20170823120542
Consumer Name:	FINAL_GRADE_POSTED	Application Class:	SCC_USER_NOTIFICATIONS:TEMPLATE:Grade:GradeChangeTemplateProvide
Consumer ID:	SCC_NTF_CON_20131120090022		

[Return to Details](#)

get the request id from above and check the tables and check the last field text

```
select * from sysadm.ps_scc_ntfreq_itm where scc_ntfreq_id='13787';
```

←

```
select * from sysadm.ps_scc_ntfreq_data where scc_ntfreq_id='13787';
```

#	SCC_ROW_ADD_DTTM	SCC_ROW_UPD_OPRID	SCC_ROW_UPD_DTTM	SCC_NTFREQ_MSGTEXT
1	03/NOV/17 10:42:21.000000 AM	S385671	03/NOV/17 10:42:21.000000 AM	<p>Dear Mr Bogarto,  A change of grade has been made for 3015C

→

The last field in the table ps\_scc\_ntfreq\_itm filed scc\_ntfreq\_msgtext has the home message

Text Viewer

```
<p>Dear Mr E ...<br /><br />A change of grade has been made for 3015CCJ - Youth Justice for Trimester 1 2017. To view your grade, please visit: myGriffith > My Course View grades<br /><br />Please note, grade changes may take 24 hours to appear on your records.<br /><br />Kind regards<br />Examinations and Timetabling</p>
```

Check the second table it has all the bind variables and values

```
select * from sysadm.ps_scc_ntfreq_itm where scc_ntfreq_id='13787';
```

```
select * from sysadm.ps_scc_ntfreq_data where scc_ntfreq_id='13787';
```

#	SCC_NTFREQ_ID	SCC_NTFREQ_DTL_SEQ	SCC_NTFREQ_ITM_SEQ	SCC_NTFREQ_DAT_KEY	SCC_NTFREQ_GT_USED	SCC_ROW_ADD_OPRID
1	13787	1	1	%1	Y	S385671
2	13787	1	1	%2	Y	S385671
3	13787	1	1	%3	Y	S385671
4	13787	1	1	%4	Y	S385671

```
where scc_ntfreq_id='13787';
```

```
where scc_ntfreq_id='13787';
```

ID	SCC_ROW_ADD_OPRID	SCC_ROW_ADD_DTTM	SCC_ROW_UPD_OPRID	SCC_ROW_UPD_DTTM	SCC_NTFREQ_DAT_VAL
	S385671	03/NOV/17 10:42:20.000000 AM	S385671	03/NOV/17 10:42:20.000000 AM	
	S385671	03/NOV/17 10:42:20.000000 AM	S385671	03/NOV/17 10:42:20.000000 AM	3015CCJ - Youth Justice
	S385671	03/NOV/17 10:42:21.000000 AM	S385671	03/NOV/17 10:42:21.000000 AM	Mr Bogarto
	S385671	03/NOV/17 10:42:21.000000 AM	S385671	03/NOV/17 10:42:21.000000 AM	Trimester 1 2017

## Notification Setup

Notification Template ID: SCC\_NTF\_TMP\_20130215180020

\*Template Name:

Status:

Description:

\*NotificationType:  ☒ Override Notification Preferences

Email Content Type:

\*Notification Criticality:

\*Generic Template:  [View Generic Template](#)

### Recipients Configuration ?

#### To

- ☒ Preferred Email Address
- ☐ Custom Logic
- ☐ Static Address

#### Cc

- ☒ None
- ☐ Preferred Email Address
- ☐ Custom Logic
- ☐ Static Address

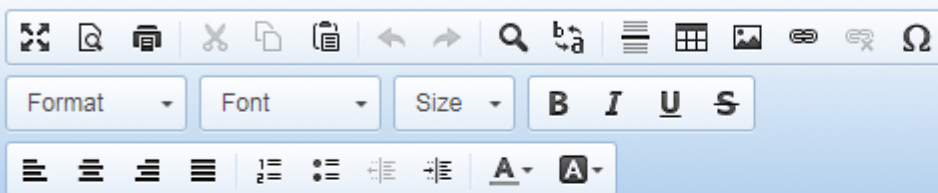
#### Bcc

- ☒ None
- ☐ Preferred Email Address
- ☐ Custom Logic
- ☐ Static Address

### Message Text

Static Address

### Message Text



Dear %9,

Thank you for accepting the role of Chairperson of Examiners for %6's %7 thesis. The examiners' reports are now available.

To access the reports, and provide your recommendations, navigate to the Staff Portal> Research> Academic Resources> Evaluation Workcentre. For information on how to use the system please refer to the [Chairperson resources](#).

Save

Return to Search

Notify

Add

Update/Display

## Notification Details

Find First 1 of 3 Last

**NotificationType:** Email

**Created:** 07/11/2017 2:42:16PM

**Sender:** thesisexams@griffith.edu.au

**Recipient:** b.haan@griffith.edu.au

**Cc:**

**Subject:** Chairperson of Examiners: Examiner reports now available for review - [REDACTED]

**Status:** Unknown

**Message text:**

Dear [REDACTED]

Thank you for accepting the role of Chairperson of Examiners for [REDACTED]'s Masters By Research Examination thesis. The examiners' reports are now available.

To access the reports, and provide your recommendations, navigate to the Staff Portal> Research> Academic Resources> Evaluation Workcentre. For information on how to use the system please refer to the [Chairperson resources](#).

We would be grateful if you would assess the reports and prepare a recommendation on the outcome of the examination for consideration by the Dean, Griffith Graduate Research School. To complete this task you will need to refer to the '[Notes for the Guidance of Chairperson of Examiners](#)' specific to the degree; this document is also available in the Evaluation Workcentre.

Please refer to the examiners as either Examiner 1 or Examiner 2, rather than by name. The Chairperson's report should be attached as [separate document](#).

The due date is no later than 2017-11-21 (YYYY-MM-DD). However to avoid delaying the examination outcome for the candidate, we request that you return your report within **five working days** if possible.

Please remember that the Higher Degree Research policy prohibits the examiners and Chairperson of Examiners from initiating contact with the candidate or the supervisor/s. Any questions about the thesis or the examination procedure may be directed to the Thesis Examinations Team (thesisexams@griffith.edu.au).

Yours Sincerely

Thesis Examinations  
 Griffith Graduate Research School  
 Griffith University | Nathan Campus | QLD 4111 | Bray Centre (N54) Level D  
 T +61 7 3735 3817 | E thesisexams@griffith.edu.au  
 griffith.edu.au

[Return to Summary](#)

[Show Audit Info](#)

Mail ▾



More ▾

1-50 of 4,058



COMPOSE

Inbox (3,619)

Starred

Sent Mail

Drafts

More ▾

<input type="checkbox"/>	<input type="checkbox"/>	test CHESN email - Dear Greg	Notification of Commonwealth Higher Education Student Support Number (CHESN) As you are in rec	2:4
<input type="checkbox"/>	<input type="checkbox"/>	thesisexams	Chairperson of Examiners: Examiner reports now available for review - [redacted] - [redacted] Thank you for acc	2:4
<input type="checkbox"/>	<input type="checkbox"/>	DENY - Automated Response Dear [redacted]	I refer to your application to Griffith University to transfer into the following program(s): Proc	2:2

Dear [redacted],

Thank you for accepting the role of Chairperson of Examiners for [redacted]'s Masters By Research Examination thesis. The examiners' reports are now available.

To access the reports, and provide your recommendations, navigate to the Staff Portal> Research> Academic Resources> Evaluation Workcentre. For information on how to use the system please refer to the [Chairperson resources](#).

We would be grateful if you would assess the reports and prepare a recommendation on the outcome of the examination for consideration by the Dean, Griffith Graduate Research School. To complete this task you will need to refer to the [Notes for the Guidance of Chairperson of Examiners](#) specific to the degree; this document is also available in the Evaluation Workcentre.

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The due date is no later than 2017-11-21 (YYYY-MM-DD). However to avoid delaying the examination outcome for the candidate, we request that you return your report within **five working days** if possible.

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Yours Sincerely

Thesis Examinations  
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T +61 7 3735 3012 | E [thesisexams@griffith.edu.au](mailto:thesisexams@griffith.edu.au)  
[griffith.edu.au](http://griffith.edu.au)



# SUMMARY

Notification framework is a powerfull email facility.

Easy to use and easy to configure.

Batch notification emails does not need any peoplecode.

Delivered email tester and admin email view page are useful tools.



# PRESENTERS

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**THIS PRESENTATION WILL BE AVAILABLE FOR  
DOWNLOAD FROM THE CONFERENCE SITE**



THANK YOU!



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