Reference Guide

Workflow v10x (ADF)

By CMiC



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User Reference Guide – Version: CMiC Open Enterprise v10x

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Contents

WORKFLOW – ADF	1
Workflow Overview	1
Premise – Workflow	1
MODULE INTERACTION	1
WORKFLOW MANAGEMENT	2
NOTIFICATION LIST	2
Workflow Status List	2
Workflow Monitor	3
WORKFLOW NOTIFICATION RULES	3
SETUP	4
LOOKUP RULE MAINTENANCE	4
General Steps in Using a Lookup Rule	4
Lookups By Type	5
Output Type Values	8
LAUNCH MAINTENANCE	9
Overview	9
Event Based Launch Maintenance	9
Screen Based Launch Maintenance (User Initiated Workflow Setup)	15
Using User Initiated Screen Based Workflows	18
Workflow Security	19
System Data Privileges	19
Purchase Order Workflow Security	20
CMiC Field Subcontract Workflow Security	26
CMIC FIELD SUBCONTRACT WORKFLOW	
Configuring CMiC Field Subcontract Workflow	
Create the Condition	29
Create the PM Subcontract	
Launch the Workflow	31
Subcontract Workflow Approval	
Purchase Order Workflow	33
Setup of Purchase Order Workflow	
Purchase Order Change Order Workflow	36
Setup of Purchase Order Change Order Approval Workflow	36
ESTIMATING INFORMATION SHEET	
Processing	
WORKFLOW EMAIL NOTIFICATIONS (ALERTS)	40
Hierarchy for Sender's Email	40
Hierarchy for Receiver's Email	40
EMAIL MESSAGING MAINTENANCE	41
INDEX	43

Workflow – ADF

Workflow Overview

CMiC Workflow is designed to enhance an organization's effectiveness by improving operational efficiencies and providing greater control of business processes. Workflow enables more precise management of people, resources, activities and systems without being invasive or time-consuming.

Premise – Workflow

CMiC Workflow has been designed to be used by an administrator. These menu options are not intended to be used by all users. This is a technical type of CMiC product and should only be used by those users who are familiar with using Oracle Workflow Builder. This guide does not explain how to use Oracle Workflow.

Module Interaction

The Workflow module interacts with the following modules:

- **Imaging**: The Workflow module allows users to define their own corporate workflow procedures for each type of document type processed in the Imaging module.
- **CMiC Field**: The [**Workflow**] button on the JSP screens is used to establish integration between CMiC Field and Workflow, if the appropriate workflows are configured for specific screens (e.g. Request For Information (RFIs), managing subcontract and change order approvals, handling invoice approvals for Request for Payments (RFPs), etc.).
- **Opportunity Management (OM)**: Workflows can be established for reviewing and approving opportunities.
- **Employee Self-Service (ESS):** Workflows can be enabled so that any changes made to an employee's personal information in the ESS module will require approval before the employee's profile is updated.
- System Data (SD): The System Options screen in the System Data module is used to set defaults for Workflow notification preferences, and the User Maintenance screen is used to set a user's system privileges for Workflow. This System Data module is also used for setting up WFN alerts and ETA alerts for workflow notifications and timesheet approvals, respectively.

Workflow Management

Notification List

Workflow Not	ifications		Show/Hide
Subject	Status		28 Approvals 00 FYIs
Friday, April 19, 2019			7
Please approve Acme Inc (11) as a qualified vendor.	Read	Approve Reject Re	assign
Wednesday, February 06, 2019		Comment	
Please Approve Subcontract Request for Payment 546566 for vendor Diamond Contracting and Job 16006	Unread		
Thursday, January 10, 2019			
Please Approve Subcontract Request for Payment 19-001 for vendor William L Pereira Company and Job 0399	Unread	Notification	mo Tae (11) as a qualified you
luesday, December 18, 2018		In your role as insurance approver, please approve Ac	me me (11) as a quaimed ven
A Please Approve RFI () Room 33B Paint Color	Unread	Vendor Information	Inc
Monday, December 17, 2018		Tax ID 10-55656	
A Please Approve RFI () HVAC Trunk Design	Unread	City of Headquarters New York, NY Insurance Category Insura Union No. Open	ance Rating
Friday, December 07, 2018		Safety Data N/A	0100
A Please Approve RFI 0056 (Building Base)	Unread	Aggregate Project Limit \$0.00 Single Bonded No Insurance Deficiencies None	Project Limit \$0.00
Thursday, November 29, 2018		Trade Information	
A This contract has no schedule of values (SOV). Please Approve subcontract 0399,005, change 000 for Vendor: (37846) Lake Erie Electric Inc and Job: (0399) HD Woodson High School	Unread	Regions • CENTRAL - Cen Attachments	tral
Friday, November 16, 2018		Link to Editor	
Please Approve Registered Invoice 1808020.3 in the amount of \$29,000.00 for vendor Corporate Express America Inc. and Job 15002	Unread	Click here to see the vendor prequalification screen Audit History	
Monday, November 12, 2018			
aiting for v10xsandboxwls.cmicglobal.com			

The Workflow Notification screen is designed to house all open workflow notifications to a user. The workflow will send two types of notifications:

- **Approvals**: Approvals are designated with an "A" in the list. Approvals require the user to Approve or Reject the notification (or use the Reassign option to designate another person to become that approver) and become a part of the ongoing tracking of the history of that workflow approval.
- **FYIs**: FYIs are designated with an "F" in the list. An FYI is usually some kind of information that the user may or may not need to act on but does not require approval and usually does not get added to the history of the workflow.

Workflow Status List

This screen has been deprecated.

Workflow Monitor

	Cł
	Workflow Monitor
	Any Status
	O Active
	O Complete
Item Type	ALL
Item Key	
User Key	
Process Name	
Process Owner	A
With activities that are	Any Status
	O Suspended
	O In Error
	O Not In Error
Waiting for Response from	m A
No progress in	Days
	Find

Workflow Monitor is a tool used by administrators to manage workflows. The screen can be used to pull up any workflow that has ever been started in the system, and can be used to stop, start, bypass approvals, restart and change attributes of a particular workflow.

CMiC and administrators uses this screen to investigate workflows and customers can gain some knowledge on the back-end process running for a workflow.

Workflow Notification Rules



This is the out of office setup for workflows received by a user. This screen allows a user to specify a date range and time they will not be available for the approval process and set rules as to what to do with all or individual workflow notices they receive in that time. The user can designate another person to receive all or some of their workflow notices as the person to now be their proxy. They can set rules to also automatically approve items received for all or individual notifications to allow the process to continue in their absence.

Setup

Lookup Rule Maintenance

Lookup rules are used within Oracle Workflow. CMiC has pre-defined functions that can be used within Workflow that use these lookup rules to retrieve data to be used within Workflow. Lookup rules can be used to retrieve users associated with specific functions, for example to retrieve the name of the project manager of a specific project using a specific key player role or to set an approval limit for vouchers...

General Steps in Using a Lookup Rule

- 1) In CMiC Enterprise, create the lookup rule e.g. 'Std Voucher Amt Threshold'.
- In Workflow Builder, either copy an existing generic 'Get Value From...' function from CMiC Standard into the required process or create a new process using one of the existing CMiC functions documented.
- 3) Open the Properties of the function in the process and on the Note Attributes tab, connect the function to existing item attributes in the current workflow.

Where it says **<Enter WKF Resource Lookup Name Here**> replace with the Lookup name 'Std Voucher Amt Threshold' as defined in step 1.

Lookup rules are created on the Lookups By Type screen (standard Treeview path: *Workflow > Setup > Resource Lookup Rules*). This screen displays all active lookup rules.

Lookups By Type

C 0	LOOKUPS BY TYPE			💾 Save	
General Ledger General Ledger Accounts Payable Accounts Receivable Jok Costing Subcontract Management Change Management Job Billing Work Order Billing Mork Order Billing	Show Inactive Lookups LOOKUPS View Y In Freeze In Detach Search Freeze	rsert 📲 Insert Multiple 👼 Delete	® ₁₀ Workflows ≠ 🔒 Report Optio	ns 🔶 🌇 Export 🖓 EC	M Documents
Purchase Order Inventory	* Lookup Name	Input Type (Given a)	Output Type (Retrieve a)	Values * Active	
Equipment Costing	\$ Threshold - Purchasing Clerk 01	None	User Defined Text	Values 🗹	~
Preventive Maintenance Material Sales	AP Clerk	GL Department	Workflow User	Values 🖌	
Fixed Assets	AP Dept Invoice Timeout Handler	GL Company	Workflow User	Values	
US Payroll International Payroll	AP Dept Invoice approver level 1A	GL Department	Workflow User	Values	
Human Resources	AP Financial Approver	GL Department	Workflow User	Values	
Opportunity Management Imaging	AP Inv Dept Timeout Level 1 days	None	User Defined Text	Values	
E Workflow	AP Inv Dept Timeout Level 2 days	None	User Defined Text	Values	
Notification List Workflow Status List	AP Inv Job Timeout Level 1 days	None	User Defined Text	Values	
History and Tracking	AP Inv Job Timeout Level 2 days	None	User Defined Text	Values	
Workflow Monitor Workflow Notification Rules	AP Invoice Approver level 1B	JC Job	Workflow User	Values	
WKF_N_Ext_TEST	AP Invoice Approver level 2B	JC Job	Workflow User	Values 🖌	
Setup Resource Lookup Rules	AP Invoice Approver level 3B	JC Job	Workflow User	Values 🖌	
Screen Based Launch Maintenance	AP Invoice Threshold	None	User Defined Text	Values	
Event Based Launch Maintenance Estimating Information Sheet Control	AP Invoice approver level 1A	JC Job	Workflow User	Values	
Email Messaging Maintenance	AP Invoice approver level 2A	JC Job	Workflow User	Values	
Business Intelligence 1099	AP Invoice approver level 3A	JC Job	Workflow User	Values	
E System	AP Job Invoice Timeout Handler	GL Company	Workflow User	Values	
	AP Job Level 1 Invoice Approval Timeout	None	User Defined Text	Values 🗸	
	AP Job Level 2 Invoice Approval Timeout	None	User Defined Text	Values	
	AP Job Level 3 Invoice Approval Timeout	None	User Defined Text	Values 🗸	~

Pgm: WKFLOOK – Lookups By Type; standard Treeview path: Workflow > Setup > Resource Lookup Rules

Show Inactive Lookups - Checkbox

Check this box to display inactive lookups.

Lookup Name

This is a user-defined name. This is the name that will be used within Workflow to link to a function to the data related to this lookup. The lookup name should describe what is to be retrieved given the input type.

Input Type (Given a ...)

Enter/select the lookup input type. The input type selected here is used to determine the base data needed to be able to use the lookup.

The input type "None" is the equivalent of a system wide lookup, where there is a predefined value required for a function.

Output Type (Retrieve a ...)

Enter/select the lookup output type. The output type selected here determines the output of the lookup. For example, there are predefined outputs such as System Contacts, PM Roles, User-Defined Text, etc.

[Values] - Button

This button opens a pop-up window where the actual values are now entered. For example, if the input type selected is "PM Project" and Output Type selected is "PM Key Player Role", the [Values] button opens a pop-up window where the input data is Company and Project and the Output data is Key Player Role.

0	LOOKUPS BY TYPE			E	Save 🕞 Exit 👔 🕐 🛆	[2 ∝ Q
General Ledger Accounts Payable Accounts Receivable Job Costing Subcontract Management	Show Inactive Lookups					
Change Management Job Billing	LOOKUPS					
Work Order Billing Requiritions	View 👻 🛐 Freeze 🖷 Detach 🔯 Search 🖶 Inse	ert 📲 Insert Multiple 🛛 🖶 Delete	© _© Workflows ▼ ⊖ Report Options ▼ ■	Export 🛛 🖗 ECM Documents 🛛 👻 💆 User Exte	nsions	
E Purchase Order	* Lookup Name	Input Type (Given a)	Output Type (Retrieve a) Values	* Active		
Inventory Equipment Costing	Project Manager	PM Project	PM Key Player Role 🔺 Values	V		
Preventive Maintenance	Project Setup Specialist	GL Company	Workflow User	V		\sim
Material Sales Fixed Assets	Project Setup Specialist 2	None	Workflow User	V		
US Payroll	Purchasing Clerk 01	JC Job	SYS Contact Values	V		
Human Resources	RFI		×			
Opportunity Management Imaging				Saula	O O A Dyn	
E Workflow	RFC					
Notification List Workflow Status List	RFC					
History and Tracking						
Workflow Monitor WKF N Ext TEST	Rec Lookup Name Project Manager		Input Type PM Project			
Workflow Notification Rules	Rec		Output Type PM Key Player Role			
Resource Lookup Rules	Reg					
Screen Based Launch Maintenance	Reg RESULTS					
Estimating Information Sheet Control	Rec View 🔻 🍸 🌇 Freeze 🖀 Detach 🔯 Search	🖶 Insert 📲 Insert Multiple 🖷	Delete 🗞 Workflows 🖛 🖶 Report Options	। 💌 🌇 Export 🤌 ECM Documents 🔍 🖧	User Extensions	
Email Messaging Maintenance	SC. > Title 1 Value 1					
Business Intelligence 1099	SC > PM Key Player Role MNGR A					
⊞ System	SC					
	SC					
	SC:					
	SC:					~
	_					
	Close					

Pop-up window launched from [Values] button on Lookups by Type screen

Users can customize the lookup according to Company Code and Project. An asterisk (*) in a field is a wildcard. This is the same as using a "%" within SQL.

Perhaps in all companies starting with a "0", the key player role to be used is "MNGR", while in company ZZ, the key player role for Project Managers is "PM".

If the Output Type is "User-Defined Text", then the user can enter any value required, as shown in the screenshot below.

S	0	LOOKUPS BY TYPE 🗎 Save 🕒 Exit 🛈 🛞 🛆 📝 🗸 🤇										
General Ledger Accounts Payable Accounts Receivable Job Costing Subcontract Management Change Management		Show Inactive Lookups LOOKUPS										
Work Order Billing Requisitions Runchare Order		View 👻 🐺 🎼 Freeze 🐨 Detach 🔯 Search 🖶 Insert 🏙 Insert Multiple 🦝 Delete 🗞 Workflows 💌 🕀 Report Options 💌 🔜 Export 🖓 ECM Documents 💌 🖧 User Extensio										
Forchase Order Inventory Equipment Costing Preventive Maintenance Material Sales		* Lookup Name Input Type (Given a) Output Type (Retrieve a) Values * Active Senior VP JC Job Workflow User Values ✓ Standard Youcher Threshold GL Company ▲ User Defined Text Values										
Fixed Assets Fixed Assets US Payroll International Payroll Human Resources Opportunity Management	LOOKU	JPS BY TYPE										
Imaging Workflow Notification List Workflow Status List History and Tracking Workflow Reserved	Lookup N	LooKUP Lookup Name Standard Voucher Threshold Input Type GL Company Output Type User Defined Text										
Workflow Notification Rule WKF_N_Ext_TEST Setup Resource Lookup Rules Screen Based Launch N	View •	🍸 🃭 Freeze 🚡 Detach 🛛 Search 🖶 Insert 📲 Insert Multiple 🚍 Delete 🔍 Workflows 🍬 🕀 Report Options 🍬 🌇 Export 🖓 ECM Documents 🍬 🖧 User Extensions										
Event Based Launch Mi Estimating Information Email Messaging Maint El Business Intelligence El 1099	Company Company	e1 Key1 > Title 1 Value 1 r CCC A > Value 15000.00 A y ZZ > Value 25000.00 A										
u -system	Company	CMIC Test Construction Company Value										
	Close											

Lookup Values – Text Type

NOTE: If "User-Defined Text" is selected as the Output Type in the Lookups By Type screen, then when the user launches the pop-up window from the [**Values**] button, the LOV for the Value field in the pop-up window would not be used since the user would be entering a user-defined value in the field.

View 👻 🔤 🃭 Freeze 🖷 Detach 🛛 🖾 Search 🖶 Insert 🎒 Insert Multiple 🕮 Delete 🚳 Workflows 💌 🖶 Report Options 🔍 🌉 Export 🕹 ECM Documents 🔍 🖧 Use LOOKUPS BY TYPE 💾 Save (1) (2) 🛆 🛛 🗸 🗸 🗸 Lookup Name Project Setup Specialist Input Type Non Output Type Workflow Use 🔯 Search 🖶 Insert 📲 Insert Multiple 👼 Delete 🚳 Workflows 💌 🖨 Report Options 💌 🏗 Export 🖓 ECM Documents 💌 🖧 User Extensions View 👻 🍸 🌇 Freeze 🖷 Detach SMUSER6 ۸ < ک User ID > User ID RAVI None RAVI None User ID VHO1001 > None > User ID VADIMB User ID Glenda Stimpson None all entries need to have a different Key 1 value Close

Assigning Users to Lookup

Example of assigning users to a lookup

To assign users to a lookup, select the lookup, ensure the Output Type is set to "Workflow User", and click on the [Values] button.

All entries in the [Values] pop-up window need to have a unique Key 1 value. For example, there should not be two entries where Key 1 column value is "*". There should only be one entry where Key 1 column is "*".

The Key 1 value is a user-defined value if the Input Type is "None".

This screen is also used to reassign approvers, if required (e.g. if an employee who is an approver goes on leave or has left the company).

NOTE: It is recommended to only have one entry for the lookup because the workflow will randomly pick one of the entries if there are multiple.

Output Type Values

Output Type	Values Available	Values Available	Values Available
GL Department	Company Code	Department Code	
JC Job	Company Code	Job Code	
PM Key Player Role	PM Key Player Role		
PM Project	Company Code	Project Code	
PM Role	PM Role		
PY Employee	Employee Code		
User Defined Text	Value		

Launch Maintenance

Overview

Workflows are launched in a variety of ways:

- 1. **Imaging module**: When the [**Submit**] button is clicked on the Image Manager screen. Refer to the Imaging guide for more information.
- 2. Database trigger: This is automatic, based on inserts and/or updates to specific tables.
- 3. **JSP launch button**: This is manual via the [**Workflow**] button on specific JSPs but leverages the setup for the database trigger (see item 2).
- 4. ADF: Using the [Workflows] button in an ADF screen's Block Toolbar.

NOTE: In Forms, Workflow is launched using the Workflow icon in the screen's toolbar and from the screen's Utility menu.

Event Based Launch Maintenance

WORKFLOW	EVENT	MAINTEN	NANCE									Ľ	Save	🕞 Exit	(i) (i	?∆	[≱ ⊲ Q
Show Inactive Wor	rkflows																
WORKFLOW PROCES	SES																
View - Y	Freeze	🖫 Detach	🗖 Search	🔄 Insert	🚮 Insert	Multiple	🔁 Delete	©₀ wo	orkflows 🖛	🔒 Report Opt	ions 🛛 🔻 🖪	, Export	Secm	Documer	ts 🖛	දි User	Extensions
* Item Typ	be		Item Des	ription				* Proc	ess Name		* Activ	/e					
CMBIDAAP						SUBMIT					✓						~
CMBIDITM						SUBMIT					✓						
CMDOCFYI		CMIC PM D	ocument FYI	(9-Mar-2018))	SUBMIT				A	✓						
CMESSW4		CMIC HR ES	S W4 Change			SUBMIT											
CMINVALT		CMiC Inven	tory Level Ale	ert (2-Aug-20	13)	SUBMIT											
CMMEETM		CMIC Meeti	ng Minutes R	eview (20-Ja	n-2012)	SUBMIT					✓						~
DATABASE EVENTS																	
View 🕶 🍸 🖺	Freeze	💼 Detach	🖸 Search	insert 🗠	🛃 Insert	Multiple	- Delete	🖨 Rep	port Options	🝷 🔣 Export	Secm D	ocuments	s 🔻 🖧	User Ext	ensions		
* Schema			* Objec	t Table			* Ever	it Type	* Enabled	Condition	Create						
DA	PMATTA	CHMENTHDR					INSERT		 Image: A start of the start of	Condition	Create						
1																	
ATTRIBUTE MAPPING	G																
View 👻 🍸 🛍	Freeze	🖶 Detach	Search	insert 🗠	🛃 Insert	Multiple	🖶 Delete	🖨 Rep	port Options	👻 🔣 Export	SECM D	ocuments	s 🖛 🖧	User Ext	ensions		
* Attrit	bute Code		*	Source Type					* Value		* Act	tive					
IMGDOCSEQ		A	COLUMN		A	:new.F	MAH_OBJECT	ORASE	Q		✓						
REQUESTOR			CONTEXT			PORSE	C_USER				✓						

Pgm: WKFEVMNT – Workflow Event Maintenance; standard Treeview path: Workflow > Setup > Event Based Launch Maintenance

This screen is used to define automatic workflow events. These events are defined to automatically run whenever a specific definition (defined via this screen) associated with the function of inserting, updating or deleting a record from a specific table occurs.

Steps to Create a Workflow Event

A new workflow event is created using the following steps:

- Define workflow in the Workflow Processes section of the screen.
- Enter related database event in the Database Events section of the screen and ensure that the 'Enabled' checkbox is unchecked to mark its status as inactive.
- Create required condition using the [Condition] button.
- Create the event using the [Create] button and check for errors.
- Enter the attributes that should be mapped to the workflow process in the Attribute Mapping section of the screen.
- Change the status of the database event to active by checking the 'Enabled' checkbox in the Database Events section of the screen.
- [Create] the database event.

Show Inactive Workflows - Checkbox

When the screen is opened, the 'Show Inactive Workflows' checkbox is checked so that all Workflow Processes defined are displayed. To limit the list to only active processes, uncheck 'Show Inactive Workflows' checkbox.

Workflow Processes – Section

This section of the screen is used to indicate which existing workflow item types and processes are to be linked to a CMiC table.

Item Type, Item Description

Enter/select a workflow item type from the list of item types currently registered in the database. The item type's unique identifier will be displayed, along with the its description.

Process Name

Enter/select a specific process defined within the selected item type.

Active - Checkbox

Indicates whether the process is active or not. Unchecked prevents this process from being launched.

Database Events - Section

This section is for defining what table and when the process is to be initiated. This area creates database triggers on the selected table. Multiple triggers can be created on the same table.

Schema

This Schema field defaults to "DA", but the user can type in any known schema applicable.

NOTE: DA must have rights to create objects in this schema; otherwise, the [**Create**] function will fail.

Object Table

Enter/select the object table within the selected schema. This table, depending on the setup in the next couple of fields, will start the workflow process.

Event Type

Enter/select the event type. There are three predefined event types:

- **Insert**: When a new record is created.
- **Update**: When an existing record changes.
- **Delete**: When an existing record is removed from the table.

The event type determines when the workflow process will be initiated.

NOTE: If there are multiple triggers on a table, there is no way of knowing in which order triggers will fire, so do not base workflow triggers on data which is updated by other triggers.

Enabled - Checkbox

This checkbox determines if this program should create the trigger as "Enabled" or "Disabled". When first creating workflow events, this checkbox should be unchecked. It should be changed to be checked when the workflow is complete, and the trigger can be created without errors.

[Condition] – Button

Conditions are not necessarily required for insertions or deletions but are recommended for updates. Conditions limit when the workflow process will be initiated. For example, a trigger can be created on the update of the Employee Table each time a new employee is terminated that sends an email to the IT department. If a condition was not entered, then every time an employee record was updated, IT would get an email.

NOTE: A special condition is used when launching a workflow from the [**Workflow**] button on a JSP screen. Refer to the *Launching Workflows from JSP Screens (CMiC Field, OM, ESS)* section in this guide for more details.

A condition can be created using the [**Condition**] button. Clicking on this button opens a pop-up window where the condition can be entered.

WORKFLO	W EVENT	MAINTE	NANCE										
									WORKFLOW EVENT MAINTENANCE	Table Mode	💾 Save (@ ▲	₽vQ
Show Inactive	a Workflows								Enter an optional SQL expression used to restrict when the trip	gger should fire.			
									TRIGGER CONDITIONS				
WORKFLOW PRO	DCESSES									nsert			
View 🕶 🍸	Freeze	Detach	🔯 Search 🖶 Insert 📲 Inser	Multiple	🖬 Delete 🛛 🕲	Workflows	Report Op	tions 🖙 🔳	nvl(:new.W4_SUBMIT_STATUS,'N') = 'S'				
* Iten	n Type		Item Desription		* Pi	ocess Name		* Acti					
CMBIDAAP				SUBMIT				 Image: A start of the start of					
CMBIDITM				SUBMIT				 Image: A start of the start of					
CMDOCFYI		CMIC PM D	Oocument FYI (9-Mar-2018)	SUBMIT				<					
CMESSW4				SUBMIT									
CMINVALT		CMiC Inve	ntory Level Alert (2-Aug-2013)	SUBMIT									
CMMEETM				SUBMIT				~					
DATABASE EVEN	ITS								Close				
View -	FO. Freeze	The Detach	Search 🔤 Insert 🖷 Inser		R Delete		s 🗶 🔟 Expor	O FCM P	▼				_
incir i	and there	E octori	M search - M inser	monopre	gound O	inchoire obtions	. Illa calpor	10					
* Schema	DVDH4_CL		* Object Table		* Event Typ	e * Enabled	Condition	create	-				
					LINDERT		Condition	Create					
DA							Condition	Create					
							condition	Create					
ATTRIBUTE MAP	PING												
View 👻 🕎	Freeze	Detach	🔯 Search 🐳 Insert 📲 Inser	Multiple	🖶 Delete 🔒	Report Options	s 🛛 🖛 🔜 Expor	ECM D	ocuments 🛛 👻 중정 User Extensions				
• ,	Attribute Code		* Source Type			* Value		* Ac	tive				
EMP_NUM			COLUMN	:new.W	4_EMP_NO			~					
IMGDOCSEQ			COLUMN	:new.W	4_REQUEST_ORAS	EQ		~					
REQUESTOR			CONTEXT	PORSEC	USER			<					

Pop-up window launched from [Condition] button on the Workflow Event Maintenance screen

When creating a condition, it is not necessary to include a "Where" or "If" at the beginning of the expression since the system will automatically add it. If the user does enter one, the system will remove it.

Conditions can be built manually by using the prefixes: new.column_name and :old.column_name, as required, or if the user clicks on the LOV, the Column List pop-up window appears.

					🖺 Save 🕡 🕐 🛆 🛛 🖓 🗢 🗘
🗇 Delete – 💩 Wa	orkflows 🛛 👻 🖨 Report Options 🏾 👻 🖩		r) = 5'		
, proc	Column List				
	⊻ Search		A <u>d</u> vanced		
	Match All 				
	Column Name				
	Data Type				
			Search Reset		
🗇 Delete 🛛 🖨	Column Name	Data Type			
* Event Typ	not in	Operators are	e listed in the first 📗 🏠		
INSERT	is null	section of the	e pop-up window.		
UPDATE	is not null		•		
INSERT	and				
	or				
			New column values a	re listed in the	
🔂 Delete 🛛 🔒	:new.w4_ALLOWANCE_CERTIFICATE_5 :new.W4_DEDUCTIONS_6		second section of the	pop-up window	1.
1000	:new.W4_DEDUCTIONS_5	NUMBER			_
VA EMP NO	:new.W4_DEDUCTIONS_4	NUMBER		Old column	values are listed in the third
	:new.W4_DEDUCTIONS_3	NUMBER	~	section of t	he pop-up window. They are
V4_REQUEST_ORAS	:new.W4_DEDUCTION5_2	NUMBER		not visible i	n this screenshot.
			OK Cancel		

Pop-up window launched from Trigger Conditions field LOV

The Column List pop-up window is divided into three sections: Operators, New Column Values, and Old Column Values. The Operator section contains a list of all available operators such as like, equals, not in, etc. The New Column Values and Old (Original) Column Values sections display a list of all the column names in the related table.

After the columns and operators are selected, the system will build the required statement.

To verify the syntax in the condition, build the trigger using the [**Create**] button on the Workflow Event Maintenance screen. This will display a screen similar to the one shown in the screenshot below.



Pop-up window launched from the [Create] button on the Workflow Event Maintenance screen

If there was any problem with the condition and creating the trigger, the Result section of the window will display an error.

NOTE: To trace the error, the user may find it helpful to cut/paste the DDL statement directly into SQL Plus, try to run it then use 'Show Errors'.

Attribute Mapping - Section

Attribute mapping is a way to pass CMiC data values directly to the workflow process attributes. For example, the email indicating that an employee is terminated is not much good without the employee number and name. Attribute mapping allows this type of information to be passed to the workflow process.

The attributes must have already been defined in the workflow item type.

Attribute Code

Enter/select the required attribute code. The attribute codes are defined on the workflow selected in the first section of this screen.

Not all attribute codes must be mapped.

Source Type, Value

These two fields together define what data from CMiC is being passed to the specific workflow attribute. The system has four predefined choices.

- **Column** This means that the attribute maps to a column that exists in the associated table. The source's Value field will have an LOV showing all columns within the table associated with this workflow event. If the event type is defined as "Update" in the Event Type field in the Database Events section, then this list will include both new.column_names and old.column_names. If the event is defined as "Insert", the list will only contain new.column_names, and if defined as "Delete" it will only contain old.column_names.
- **Constant** This means that the attribute is mapped to a predefined typed-in value. The Value field's LOV will be empty. This is a free-form field to type in a constant value do not include quotes.
- **System Variable** This means that the attribute is mapped to one of the Oracle predefined variables. The Value field's LOV contains two choices: SYSDATE and USER.

• **Context Variable** – This means that the attribute is mapped to the current user's CMiC Session Context Variable that is active when the trigger fires. The LOV for the Value field shows all available contexts with a short description.

Active – Checkbox

A mapping may be defined but not active. If this is the case, then when the [**Create**] button is activated, the trigger created will not include the inactive attribute assignment.

Launching Workflows from JSP Screens (CMiC Field, OM, ESS)

Workflows can also be manually launched using the [**Workflow**] button on specific JSP screens. This type of workflow leverages the setup for the database trigger, as defined in the Workflow Event Maintenance screen.

A special condition is used when launching a workflow from the [Workflow] button on a JSP screen, as shown in the screenshot below.

WORKFLOW EVENT MAINTENANCE	💾 Save 🕞 Exit ① ⑦ 🛆 🏹	7 Q
Show Inactive Workflows		
WORKFLOW PROCESSES		
View 👻 🕎 🌇 Freeze 🖀 Detach 🔯 Search 📾 Insert 🎒 Ir	ert Multiple 👼 Delete 🚳 Workflows 🛛 🔻 🖶 Report Options 🖉 🗰 Export 🛛 🚱 ECM Documents 🖉 🚓 User Extensions	
* Item Type Item Desription	* Process Name * Active	
CMSCAAPR CMiC Subcontract Auto Approval	SUBMIT	
CMSCAPRV CMiC Subcontract Approval (20-Jan-2014)	SUBMIT	
CMSCRFP CMiC Subcontract Request for Payment Ap	7 SUBMIT 🗹	
CMSCRFPA CMiC Subcontract Request for Payment Au	• SUBMIT 🗹	
CM_CERTL CMiC HR Cert Licns Change	SUBMIT 🗹	
CM_EDUCA CMiC HR Education Change	SUBMIT 🗹	Ť
DATABASE EVENTS		
View 👻 🕎 Freeze 🖫 Detach 🔯 Search 🖶 Insert 👩 Ir	ert Multiple 🔄 Delete 🔒 Report Options 💌 🖫 Export 💡 WORKFLOW EVENT MAINTENANCE 🛛 Table Mode 📄 Sove 🛈 🕐 🛆 🗋 🗢 🖒	5
* Schema * Object Table	*EventType *Enabled Condition Con	
DA SCMAST	INSERT Condition	
DA SCMAST	UPDATE A Condition Cre	
	DA.Dbk,Wirf_Event_Manager.f_jsp_Jaunch(SCMASTr, :new.SCMST_ORASEQ, 'CMSCAPRV', 'SUBMIT')	
ATTRIBUTE MAPPING		
View 👻 🍸 🌇 Freeze 🖀 Detach 🛛 Search 🖶 Insert 🎒 Ir	err Multiple 📅 Delete 😝 Report Options 🕆 🖫 Export 🚱	
* Attribute Code * Source Type	* Value	
IMGDOCSEQ A COLUMN A	inew.SCMST_ORASEQ A	
REQUESTOR CONTEXT	PORSEC_USER	
	Close	

Pgm: WKFEVMNT – Workflow Event Maintenance; standard Treeview path: Workflow > Setup > Event Based Launch Maintenance

To see an example of launching a workflow from a JSP screen, refer to the <u>CMiC Field Subcontract</u> <u>Workflow</u> section in this guide.

Screen Based Launch Maintenance (User Initiated Workflow Setup)

WORKFLOW MAINTENANCE				💾 Save 🕞 Exit	
SELECTION CRITERIA * Program POENTRYC * Block B1 Workflow Privileges	Purchase Orde	r Entry			
WORKFLOW PROCESSES					
View 👻 🍸 🌇 Freeze 🖷 Detach	🔯 Search 🛛 🖶 Insert 📲 Insert	Multiple 👼 Delete 🛯 🗞 Workflows	💌 🖨 Report Options 🖙 🌉 Exp	ort 🛛 🚱 ECM Documents 🛛	User Extensions
* Item Type	Item Description	* Process Name	Input Prefix	Condition	Active
CMPOAPRV	CMiC PO Approval (13-Mar-2018)	SUBMIT		Condition	v
ATTRIBUTE MAPPING					
View 👻 🍸 🌇 Freeze 🖷 Detach	👼 Search 🛛 🖶 Insert 📲 Insert	Multiple 🖶 Delete 🛞 Workflows	💌 🖨 Report Options 🖙 🌉 Exp	ort 🛛 🚱 ECM Documents 🛛	User Extensions
* Attribute Name	* Source Type	Source Name or Value	Active		
INPUT_COMPANY_CODE	Field	:B1_PomstCompCode	✓		
PO_NUMBER	Field	:B1_PomstNum	✓		
PO_RELEASE_NUMBER	Field	:B1_PomstReleaseNum	✓		
REQUESTOR	Context Variable	PORSEC_USER	✓		

Pgm: WKFUSRMT - Workflow Maintenance; standard Treeview path: Workflow > Setup > Screen Based Launch Maintenance

Workflow Launch Maintenance is used to define workflows that can be manually triggered by the user when the user is in a specific CMiC screen.

These events are only run when the user invokes them.

Selection Criteria - Section

Program, Block

Enter/select the program and block to define where the workflow being defined will be launched.

[Workflow Privileges] – Button

WORKFLOW MAINTENANCE	💾 Save 🕞 Exit 🕡 🕐 🛆 🛛 🗸 🖓 🗸
SELECTION CRITERIA * Program POENTRYC * Block B1 * Description Provingen WORKYON POENTRYC	
Verwing Y Information WORKFLOW MAINTENANCE * Stem Type * Stem Type CARDARY * WORKFLOW MAINTENANCE WORKFLOW PRIVILEGIS Worker Y In Freeze To Detach. ATTREBUTE MARPING * Weinig Y In Freeze To Detach. Verwing Y In Freeze To Detach. Steert Autopic To Detach. Verwing Y In Freeze To Detach. Detach.	⊕ ∆ ⊡'∘ =
*AffORE Non PO_NUMBER REQUESTOR Keis Users Verv ▼ The freeze The Detach Direct Insert Multiple The Detace Cho Workhows	

Pop-up window launched from [Workflow Privileges] button on the Workflow Maintenance screen

Use the [Workflow Privileges] button to open a pop-up window where workflow privileges, such as the privilege to launch a workflow, can be assigned to users or specific user roles. In this case, only users with the launch privilege could launch the workflow being defined.

Workflow Processes - Section

This section of the screen is used to assign a workflow process to the program and block defined above.

Item Type, Item Description

Enter/select a workflow item type from the list of item types currently registered in the database. The item type's unique identifier will be displayed, along with the its description.

Process Name

Enter/select a specific process defined within the selected item type.

Input Prefix

This field is used to pre-fill the Attribute Name column in the Attribute Mapping section of the screen. If the user's workflows use a specific prefix to designate a value as an input value from CMiC to the workflow, then put the prefix in this field. If left blank, the prefix defaults to the CMiC standard input prefix of "IN#". If nothing matches the prefix entered, the user will have to select the attribute names from the LOV.

[Condition]

Conditions are not necessarily required but can be used to prevent the launch of the requested workflow unless specific defined conditions are met. This can be accomplished using the **[Condition]** button. The **[Condition]** button opens a text area where the condition can be entered.

	<u> </u>	
OPERATOR/COLUMN LOVS Operator Add Column Add		
Condition		

Pop-up window launched from the [Condition] button on the Workflow Maintenance screen

Once in this window, use the [Add] button to create trigger conditions using the columns and operators.

Select the column, on which a restriction is required from the list, then select the operator, then type in the restriction.

NOTE: The algorithm used to parse these conditions requires that each column reference be delimited by a blank character. If you get an error pop-up saying "FRM-41045: Cannot find item: Invalid ID" then the probable cause is a column reference not followed by a blank.

Active – Checkbox

If this checkbox is unchecked, then the workflow will not be available for users to launch.

Attribute Mapping - Section

Attribute mapping is a way to pass CMiC data values directly to the workflow process attributes. The attributes must have already been defined in the workflow item type. If a valid prefix was previously entered in the Input Prefix field in the Workflow Processes section of the screen, then the Attribute Mapping section will default the Attribute Name column.

Attribute Name

Enter/select the required attribute name. The attribute names are defined on the workflow selected in the first section of this screen.

Not all attribute names have to be mapped.

Source Type, Source Name or Value

These two fields together define what data from CMiC is being passed to the specific workflow attribute. The system has four predefined choices.

- **Column** This means that the attribute maps to a column that exists in the associated table. The Source Name field will have an LOV showing all columns within the table associated with this workflow event.
- **Constant** This means that the attribute is mapped to a predefined typed-in value. The LOV will be empty. This is a free-form field to type in a constant value do not include quotes.
- **System Variable** This means that the attribute is mapped to one of the Oracle predefined variables. The LOV contains two choices: SYSDATE and USER.
- **Context Variable** This means that the attribute is mapped to the current user's CMiC Session Context Variable that is active when the trigger fires. The LOV for this field shows all available contexts with a short description.

Active – Checkbox

A mapping may be defined but not active. If this is the case, the workflow will not be passed the value.

Using User Initiated Screen Based Workflows

PURCHASE ORDER	ENTRY					Table Mode	Save 👔 🕐	∆ ⊉⊽Q
Enter Purcha	ase Order	O Print Edit List						
SELECTION CRITERIA								^
* Company CCC	CMiC T	est Construction Company			* Status Not Approved	~		
Reserve Group	A				Copy From			
		80 L 10	1			1 0		_
👰 Search 🖷 Insert 🚈	Delete 🔶 Previous 📫	Next 🗞 Workflows 🔽 🖨 Re	eport Options	😨 Import 🥑 Atta	achments 🗏 Notes 🗳 EC	IM Documents 📔 🛣	User Extensions	
General Defaults	Instructions Comment	ts Te Launch Workflow						
Vendor	A1BRICKS	A1 Br Abort Workflow mp	any	* Normal Receiving	Manual Automatic	Purchase Order Tota	I	
Contact Code	A							
Currency	US	Type St.	andard 🗸 🗸					
PO Number	AAA111	* Release #	1					
Requester	A							
Buyer								
Order Date	02/21/2019	Routing Company						
Expected Date	₿.	Routing Job						
PO Comp-Job Code	CCC 🔺	Address PMB00						
* Distribution Type	Standard CMiC G-line							
	A			Category	A			

To manually launch a screen's workflow, click on the [Workflows] button in the screen's Block Toolbar and select "Launch Workflow" in the drop-down menu.

If there is only one workflow active, then it will automatically be launched. If there is more than one workflow defined, then a pop-up window displays all available workflows, as shown in the screenshot below.

PURCHASE O	RDER ENTRY			
Ente	er Purchase Order		O Print Edit List	
SELECTION CRITERI * Company	A CCC	CMiC Te	st Construction Company	
Reserve Group		A		
PURCHASE ORDE	aults	Previous Previous	Next Sworkflows Text Code Details	Report Options 🖙 🕞 Import 🥜 Ar
Coni PC R	Vendor A1BRICKS tact Code Currency US Number AAA111 Requester	A A A	A1 Bricks Manu Run Workf	Process Selection * Normal Receiving CMPOAPRV CMPOCOAP Lounch
01	Buyer der Date 02/21/2019	▲ 100	Routing Company	A

The user may then select one or more workflows to launch. Once the selection is made and the [Launch] button pressed, the user will get a confirmation as each workflow is started.

To stop a workflow from running, select "Abort Workflow" from the [**Workflows**] button drop-down menu. To audit a workflow, select "Audit Workflow" in the drop-down menu. The Workflow History and Tracking pop-up window will launch and display tracking information and audit history.

Workflow Histor	y and Tracking									
Current Workflow Status										
Status: Pending	1									
🗹 Tracking Ir	nformation						_			
Responsible Person	Responsible Role Business Process Status									
Data Admin	Level 1 Approver									
☑ Audit Histo User	Date	Time	Action	Role	Function	Comments				
Data Admin	5/30/2019	16:01	SUBMIT	Submitter						
Data Admin	5/30/2019	16:01	NOTIFIED	Level 1 Approver						

Pop-up window launched from the "Audit Workflow" option in the [Workflows] button

For workflows linked to ADF screens, this screen shows the responsible approvers and the history of the approvers' actions.

Workflow Security

System Data Privileges

USER MAINTENANCE				Table	Mode 🕞 Exit (∂⊙∆∏∕⊽C
USER						
* User MISTY		Save/Refresh				
General Assign Roles	System Privileges	Configuration Privileges	Consolidations Access	Company Access	Employee Security	Compliance Security
View 👻 🌇 Freeze	🖷 Detach 🛛 💆 Se	arch 🛞 Workflows 🗕 🗧	🗟 Report Options 🛛 👻 🔣 E	xport 🛛 🖓 ECM Docu	iments 🖙 🛱 User Exte	nsions
	96WKF96					
* Code		* Name		Select		
PSTOVRRIDE	PSTOVRRIDE WKF: Allows the user to post a non-postable object.			v		
WKF_ABORT WKF: Allows the user to abort a workflow				✓		
1						

Pgm: SDUSRMNT – User Maintenance; standard Treeview path: System Data > Security > Users > User Maintenance – System Privileges

Workflow privileges are assigned to a user on the User Maintenance screen in the System Data module.

Purchase Order Workflow Security

Assumptions

C 0	APPROVAL LEVELS	💾 Save 🕞 Exit 🕡 🕐 🛆 🕻 🗸 🗸
General Ledger General Ledger Counts Payable Gocounts Receivable Job Costing Subcontract Management Change Management Dob Billing Management	SELECTION CRITERIA * Company CCC CMIC Test Construction Company Currency US US Dollars	
Requisitions Purchase Order Arrow	PURCHASE ORDER View * Y The Freeze Detach Desarch Insert Insert Multiple Delete Search Report Options * Export	t 🗣 ECM Documents 🛛 👻 🖧 User Extensions
Set User Defaults Maintain Business Partners Maintain Vendors Blanket Purchase Orders Non-Stock Items Local Tables Control User ID cross-Reference Enter FOB Code Purchase Order Roles Reserve Groups Items by Vendor Document Printing Options B Compliance Approval Groups Assign Approvers Approval Groups Asgroval Groups Asgroval Groups Asgroval Groups B Sinping B Buniess Partners B Process B Compe Orders B Receipt B Queries B Venties	Control DA has access to these approval screens	

Pgm: POAPPLV – Approval Levels; standard Treeview path: Purchase Order > Setup > Local Tables > Approvers

This guide assumes the following:

- No one except DA has access to the 'Approvers' menu options within the Local Table settings for the Purchase Order module (standard Treeview path: *Purchase Order > Setup > Local Tables > Approvers*).
 - No approvers or approval groups are set up.

In addition to restricting access to the Approvers menu options in Treeview to DA, the following security needs to be applied to the end-user security group:

- The [**Approvers**] button on the Purchase Order Entry screen and the Change Order Entry screen needs to be hidden using Lite Editor.
- Access to the Approve/Unapprove screens for Purchase Orders and Change Orders needs to be restricted.

The following sections provide more detailed information for carrying out these security measures.

Hide [Approvers] Button

Use Lite Editor to hide the [**Approvers**] button on the Purchase Order Entry screen and the Change Order Entry screen in the Purchase Order module.

NOTE: CMiC's Lite Editor is used to create customized versions of screens for particular users and UIC Groups. Using the editor, various properties of a screen's fields and tabs can be modified. When a customized version of a screen is saved in the Lite Editor, it is saved for the customization level and level object for which the Lite Editor was launched. For instance, if the Lite Editor was launched at the Group

Level (customization level) for a UIC Group (level object), customizations will be saved at the Group Level for the UIC Group. For more information, please refer to the Lite Editor guide.



Purchase Order Entry Screen

Hiding the [Approvers] button on the Purchase Order Entry screen (Pgm: POENTRYC – Purchase Order Entry; standard Treeview path: Purchase Order > Change Order > Enter Purchase Order)

Use Lite Editor to hide the [Approvers] button on the Purchase Order Entry screen, as shown in the screenshot above.

Lite Editor is launched by clicking on the Lite Editor icon in the upper right-hand corner of the screen. While the screen is in Edit mode, click on the pencil icon next to the [Approvers] button to open the Lite Editor pop-up window. In the pop-up window, uncheck the 'Visible' checkbox and click on [Save]. Click on the Lite Editor icon again to toggle out of Edit mode.

Change Order Entry Screen

0	CHANGE ORDER ENTRY	
General Ledger Accounts Payable		
Accounts Receivable	SELECTION CHIERDA	
Job Costing	Company CCC A Children Company CCC ADMIN	
Change Management		
lob Billing	CHANGE ODDER	
Work Order Billing		
Requisitions	🔯 Search 🖶 Insert 🖶 Delete 🗰 Previous 🔿 Next 🚳 Workflows 💌 😝 Block B1 - Field Approvers8tn Advanced	
Purchase Order	Table Name PO#COMAST	
🗄 Setup	Column Name	
Process	General Detaults instructions Comments Text Code Details	
E Change Orders	PO Number 1234500005	
Enter Change Order	New York ALELEC A ALELECTORY COMPANY Row Promet Approvers New Row -	
Approve Unapprove Change Orders	Free-Form Row &	
Change Orders Listing	PO Comp Code CCC / Job 12345 / * No Column Title Link with Previous Field	
Post Change Order	Order Date 03-11-2015	
Print Change Order	Disabled Disabled Column Span	
T Receipt	Expected Date Buyer RAVI [Approvers] button Tooltip	
Fl Queries	CQ Date 17-11-2016	
E Reports	Display Order 270 Required	
E Utilities	Purchase Order Total 1000	
Inventory	Single Row _	
Equipment Costing	Populate Details Approvers Print Rows Per Table	
Preventive Maintenance	Default 20 Custom	
Material Sales		
Fixed Assets	V CHANGE ORDER DETAIL MOVE	
JS Payroll	Tab Name General	
International Payroll	View 🔻 🍸 🌇 Freeze 🖀 Detach 🔯 Search 🖶 Insert 📓 Insert 📓 Insert Multiple	
Human Resources		
Opportunity Management	Item Type Item Name Position Field	
maging	Cement Block 1	
Norkflow	Remove Field Customizations Add Field Undo Save	
susiness intelligence		
NVE ISD tort		
System	Job Name	
Test	Cost Code	
Workflow Notification Rules		
ustom Report Test	Min Order 0.000 P Un Order 677.000 P Un Hand 855.000 P O Ordered Qty	
	W-Line Detail A Assign Location	

Hiding the [Approvers] button on the Change Order Entry screen (Pgm: POCOENT – Change Order Entry; standard Treeview path: Purchase Order > Change Order > Enter Change Order)

Use Lite Editor to hide the [**Approvers**] button on the PO Change Order Entry screen, as shown in the screenshot above. The process used here is the same one used for hiding the [**Approvers**] button on the Purchase Order Entry screen in the previous section.

Lite Editor is launched by clicking on the Lite Editor icon in the upper right-hand corner of the screen. While the screen is in Edit mode, click on the pencil icon next to the [**Approvers**] button to open the Lite Editor pop-up window. In the pop-up window, uncheck the 'Visible' checkbox and click on [**Save**]. Click on the Lite Editor icon again to toggle out of Edit mode.

Approve/Unapprove Screen

Use the Assign Roles to Programs screen (standard Treeview path: *System > Security > Roles > Assign Roles to Programs*) to restrict access to the Approve/Unapprove screens for Purchase Orders and for Change Orders for the end-user security group.

Purchase Order (Approve/Unapprove Screen)

C (0)	
General Ledger Accounts Payable Accounts Receivable Job Costing	O Approve Purchase Order Unapprove Purchase Order
Subcontract Management Change Management Job Billing Work Order Billing	COMPANY CODE Company CCC CMIC Test Construction Company
Requisitions Purchase Order Setup Process Reserve PO Numbers	APPROVER ID Access Code
Enter Purchase Order Approve Unapprove Purchase Order Process PO Print Purchase Order	Select remove access to program for end-user security group $@_{0}$ Workflows $\neg \ominus$ Report Options $\neg \blacksquare$ Export \blacksquare Import \mathscr{O} Attachments $⊟$ Notes ECM Documents $\neg \frac{2}{2\lambda}$ User Extensions
Print Blanket Agreement Void Purchase Order Change Compliance Status E Change Orders E Receipt	Vendor Code Buyer Code Chg Code Changed PO Number Release Num Amount Print Approve A1BRICKS MISTY O A ORIGINAL CCC00000119 1 \$84.38
Queries Reports Utilities	Vendor Name A1 Bricks Manufacturing Company Details Released PO Preview Approve
Inventory Equipment Costing Preventive Maintenance Material Sales	VIEW ▼ Y The Freeze The Detach Search Wey Workflows Y A Report Options Y The Export Sector
Fixed Assets US Payroll International Payroll Human Resources	Level Description Limit Name Date Approved 1 Max \$1000 1,000 MISTY RETCHFORD Co Image: Colored state
Opportunity Management Imaging Workflow Business Intelligence 1099 System	

Pgm: POREL - Purchase Order Release; standard Treeview path: Purchase Order > Process > Approve Unapprove Purchase Order

To restrict access to the Approve/Unapprove Purchase Order screen, the following two programs need to be removed from the end-user security group:

- POREL Approve/Release PO
- POUNREL Unapprove Purchase Orders

Access to these programs is restricted using the system's Assign Roles to Programs screen. This screen allows the user to remove a program from a role. Select the application to be modified and then select the program to be changed. The system will display the roles that have access to the program as well as the default access rights. These can be changed on a program-by-program basis. For more detailed information on the Assign Roles to Programs screen, please refer to the System Data guide.

ASSIGN ROLES TO PROGRAMS					💾 Save 🕞 Exit	(i) (i) (i)	∆ [2 ⊽ O
SELECTION CRITERIA Application Code PO							
PROGRAMS				Q			
POREL	ort Options •	⊞ Export & ECI	M Documents •	User Extensions			
* File Name * Description POREL Approve/Release PO							
ROLES		~			•		
View View Y Ta Freeze Detach 🛛 Search 🖶 Insert 🚮 Insert Multip	le 🔁 Delete * Insert	* Update	* 🗎 Report Opti	Block Level Security	ECM Documents	▼ 🚡 User	Extensions
1ROLE 1ROLE ALEX1 Alex1	 ✓ ✓ 	✓	✓ ✓	Block Level Securi Block Level Securi	ty		^

Pgm: FORMROLE – Assign Roles to Programs; standard Treeview path: System > Security > Roles > Assign Roles to Programs

First, restrict access to the POREL - Approve/Release PO program, as shown in the screenshot above.

Next, restrict access to the **POUNREL** - Unapprove Purchase Orders program, as shown in the screenshot below.

ASSIGN ROLES T	O PROGRAM	s						💾 Save 🕞 Exit	i ?		v ∆
SELECTION CRITERIA											
Application Code	PO	Purchase Order									
PROGRAMS											
View 👻 🌇 Free	eze 🖷 Detach	🖉 Search 🛛 🕲 Workf	flows 🛛 👻 🖨 Repo	ort Options 🛛 👻 🛽	📕 Export 🛛 🗣 ECN	I Documents 🛛	User Extensions				
POUNREL ×											
* File Name			* Description	i							
POUNREL	Unapprove Purch	ase Orders									
ROLES											
View 👻 🕎 🌇 Free	eze 🖷 Detach	👩 Search 🛛 👼 Insert	🗐 Insert Multipl	e л Delete	® _© Workflows ┃ ▼	🔒 Report Opti	ons 🛛 🔻 🌉 Export	ECM Documents	- ₽00	ser Extensio	ons
* Role		* Name		* Insert	* Update	* Delete	Block Level Security				
1ROLE 🔺	1ROLE			✓	✓	 Image: A start of the start of	Block Level Securi	ty			~
ALEX1	Alex1			✓	✓	✓	Block Level Securi	ty			

Pgm: FORMROLE – Assign Roles to Programs; standard Treeview path: System > Security > Roles > Assign Roles to Programs

Change Order (Approve/Unapprove Screen)

3 0	APPROVE CHANGE ORDERS	💾 Save	(i) (i	2 🛆	₽ ~ 0
문 General Ledger 단 Accounts Payable 단 Accounts Receivable	O Approve Change Orders Unapprove Change Orders				
Subcontract Management Change Management Job Billing Work Order Billing	SELECTION CRITERIA Company CCC A CMIC Test Construction Company				
Requisitions Purchase Order Setup Process Change Orders	* Access Code				
Approve Unapprove Change Order Approve Unapprove Change Orders Change Orders Listing Post Change Order	SELECT remove access to program for end-user security group ch [®] Workflows P B Report Options P ECM Documents P CM Documents <t< td=""><td></td><td></td><td></td><td></td></t<>				
Print Original PO Print Change Order Receipt Queries Reports	Vendor Code Buyer Code Changed CO Number PO Number Release Num Amount Sele	ct			
Utilities Inventory Equipment Costing Preventive Maintenance	Vendor Name Details Released CO Approve				
Material Sales Fixed Assets US Payroll International Payroll	View • • <td< td=""><td></td><td></td><td></td><td></td></td<>				
International of on Human Resources Opportunity Management Imaging Workflow	No rows yet.	•			
E Business Intelligence E 1099 E System					

Pgm: POCOAPRV – Approve Change Orders; standard Treeview path: Purchase Order > Change Orders > Approve Unapprove Change Order

To restrict access to the Approve/Unapprove Change Orders screen, the following two programs need to be removed from the end-user security group:

- POCOAPRV Approve Change Orders
- POCOUNAP Unapprove Change Orders

Access to these programs is restricted using the system's Assign Roles to Programs screen. The process for restricting access to these programs is similar to the process followed in the previous section for restricting access to programs for Purchase Orders.

First, restrict access to the **POCOAPRV – Approve Change Orders** program, as shown in the screenshot below.

ASSIGN ROLES TO PROGRAMS			💾 Save 📑	Exit (1) (1) 🛆 🛛 🗸 🗸
SELECTION CRITERIA Application Code PO A Purchase Order				
PROGRAMS				
View 🔻 🛐 🎼 Freeze 🖷 Detach 🖉 Search 🎯 Workflow	ws 💌 🖨 Report Options 💌	🕵 Export 🛛 🖓 ECM Docum	nents 💌 🛱 User Extensions	
POCOAPRV				
🚽 * File Name	* Description			
POCOAPRV Approve Change Orders				
POCOAPRVQRY PO/CO Approval Detail Query				
ROLES				
View 👻 🐺 🌇 Freeze 🖀 Detach 🖾 Search 📾 Insert	┨ Insert Multiple 🛛 д Delete	🗞 Workflows 🛛 🖛 🔒 Rej	port Options 🛛 🔻 🌇 Export 🛛 🖓 ECM Do	ocuments 🛛 👻 🖧 User Extensions
* Role * Name	* Insert	* Update *	Delete Block Level Security	
1ROLE A 1ROLE	✓	✓ ✓	Block Level Security	^
ALEX1 Alex1	✓	✓ ✓	Block Level Security	

Pgm: FORMROLE – Assign Roles to Programs; standard Treeview path: System > Security > Roles > Assign Roles to Programs

Next, restrict access to the **POCOUNAP** - Unapprove Change Order program, as shown in the screenshot below.

ASSIGN ROLES TO PROGRAMS
SELECTION CRITERIA
Application Code PO Purchase Order
PROGRAMS
View 👻 🛐 🛱 Freeze 🖀 Detach 🔯 Search 🚳 Workflows 💌 🖨 Report Options 💌 🌇 Export 🚱 ECM Documents 🔍 🖓 User Extensions
POCOUNAP
* File Name * Description
POCOUNAP Unapprove Change Order
ROLES
View 👻 🛐 🛱 Freeze 🚡 Detach 🔯 Search 🖶 Insert 📲 Insert Multiple 🖶 Delete 🚳 Workflows 💌 🖨 Report Options 🔍 📾 Export 🚱 ECM Documents 🔍 🖧 User Extensions
* Role * Name * Insert * Update * Delete Block Level Security
IROLE IROLE IROLE
ALEX1 Alex1 I Block Level Security

Pgm: FORMROLE – Assign Roles to Programs; standard Treeview path: System > Security > Roles > Assign Roles to Programs

CMiC Field Subcontract Workflow Security

NOTE: CMiC Field is formerly xProjects/Project Management.

Workflow Security Rules

When Workflow is enabled, the [Post] and [Workflow] buttons in CMiC Field function as follows:

- CMiC Field's subcontract cannot be posted unless the workflow is initiated and completes in an 'Approved' status.
- The [Workflow] button only displays if assigned to a PM security role.
- The [Workflow] button is active/enabled when the PM object has not been submitted for approval or has been rejected from a previous approval process.
- The [**Post**] button only displays if assigned to a PM security role.
- The [**Post**] button is active/available only when the PM object has been approved by Workflow.

Assumptions

An administrator has linked the workflow to the PM object.

PMR	oles					Add PM Role	Save Cancel	2 🖬 🍙
\$ 🗉 🗖 🖸	MiC Field Menu		Project	Roles				
Search	Go	Role	Description		Admin Req.	Key Player		Eval Weight
E Commu	IDR DSIGN Project (MDR-DSIGN,	MADPM	MadPM					
Docume	ent Management	MDRDOCROLE	MDR's Doc Role		\checkmark			
E Did Mar	tractor Prequalification nagement	MISCELLAN	Miscellaneous					
Budget Site Ma	& Cost Management	MNGR	Project Manager (MNGR - FL)			✓		
E CReports		MRPMROLETE	MR PM ROLE TEST					
User-De Ele Mai	efined Logs intenance	NAVCOL	navcollab		V	✓		
E Construction	y iners	NAVMGR	Nav PM role		\checkmark			
- 🚺 Con	tacts	OWNER	Owner (OWNER - FL)		✓	✓		~
Con	vert/Merge Partners and Contacts		Update Role MN	SR				
- Cha	nge User LDAP Server	View/Create/Update/Delete All Objects	View/Create/Update/Delete All Document Types	Mobile Springboard Objects	Def	ault Email Notific	ation Settings.	
- Role	r Access	Restricted View All for RFIs						
- 📄 Proj	ect Roles	Send/Receive						
Lice	nse Pools	Receive Owner Change Order		Receive Partner RFI				
E Subcon	tractor Reviews	Send Partner RFI		Forward RFI				
		Redirect RFI		Send I/O Email				
		Send Partner Transmittal		Send Partner Communication				
		Send Partner Issue		Send Partner Notice				
		Send Partner Punch List						
		Posting - Voiding						
		Post PCI - External		Post PCI - Internal				
		Post PCI - Transfer		Post PCI - Original Budget				
		Edit Posted PCI		Post OCO Allow for adding posted PCI's to	unposted OCO's			
		Post Subcontract		Post Subcontract Change Order				
		Void Subcontract		Void Subcontract Change Order				
		Add SOV On Posted Subcontract		Add SOV On Posted Subcontract Change Order				
		Workflow						
		Workflow Button - OCO		Workflow Button - PCI				
		Workflow Button - Subcontract		Workflow Button - SC CO				\sim

Role Access for [Workflow] and [Post] Buttons

PM Roles; standard Treeview path: CMiC Field > Security > Project Roles

In CMiC Field, navigate to the PM Roles screen and select the project role.

To add the [**Post**] button to the Main Toolbar for the PM object in CMiC Field, click on the role in the Project Role section of the screen, then check the 'Post Subcontract' checkbox in the Posting – Voiding section of the screen, as shown in the screenshot above.

To add the [**Workflow**] button to Main Toolbar for the PM object, click on the role in the Project Role section of the screen, then check the 'Workflow Button – Subcontract' checkbox in the Workflow section of the screen.

PN	1 Roles					Add PM Role	Save Cancel	12 🗈 🍙
\$ D D	CMiC Field Menu		Projed	t Roles				
Search	ြေ	Role	Description		Admin Req.	Key Player	Order Seq.	Eval Weight
e 🗁 Pro	ject: MDR DSIGN Project (MDR-DSIGN, Communication Management	MDRDOCROLE	MDR's Doc Role		 •			
	Document Management Subcontractor Pregualification	MISCELLAN	Miscellaneous					
	Bid Management	MNGR	Project Manager (MNGR - FL)			V		
	Budget & Cost Management Site Management	MRPMROLETE	MR PM ROLE TEST					
	Reports User-Defined Logs	NAVCOL	navcollab		V	V		
	File Maintenance Security	NAVMGR	Nav PM role					
	Partners	OWNER	Owner (OWNER - FL)		✓	V		~
	Contacts Convert/Merge Partners and Contacts							
	User Maintenance		Update Role MN	GR				_
	Role Maintenance	View/Create/Update/Delete All Objects	View/Create/Update/Delete All Document Types	Mobile Springboard Objects	L Def	ault Email Notific	ation Settings.	
	User Access	Restricted View All for RFIs						
	Project Roles	Send/Receive						
± 🔁	Subcontractor Reviews	M Receive Owner Change Order		Keceive Partner RH				
		Send Partner RFI		Forward RFI				
		Redirect RFI		Send I/O Email				
		Send Partner Transmittal		Send Partner Communication				
		Send Partner Issue		Send Partner Notice				
		Send Partner Punch List						
		Posting - Voiding						_
		Post PCI - External		V Post PCI - Internal				
		M Post PCI - Transfer		V Post PCI - Original Budget				
		Edit Posted PCI		Y Post OCO Y Allow for adding posted PCI's to	unposted OCO's			
		Post Subcontract		Post Subcontract Change Order				
		Void Subcontract		Void Subcontract Change Order				
		Add SOV On Posted Subcontract		Add SOV On Posted Subcontract Change Order				
		Workflow						
		Workflow Button - OCO		Workflow Button - PCI				
		Workflow Button - Subcontract		Workflow Button - SC CO				
		Workflow Button - Bid Items		Workflow Button - RFP				
		Workflow Button - RFI		Workflow Button - Project				
		Workflow Button - Meeting Minutes						
		Maintenance		Disaling Lines From Caroline Carols 1. 5				
		CEL Greate Partner On The Hy		Contacts For a Con				~

PM Roles; standard Treeview path: CMiC Field > Security > Project Roles

CMiC Field Subcontract Workflow

Configuring CMiC Field Subcontract Workflow

WORKFLOW EVENT	MAINTENANCE		💾 Save 🕞 Exit 👔 🅐 🛆 🍞 🔿					
Show Inactive Workflows								
WORKFLOW PROCESSES								
View 👻 🍸 🌇 Freeze	🚡 Detach 🛛 🖾 Search 🖶 Insert 🗐 Insert Multiple 🖶 D	elete 💩 Workflows 🛛 🖛 🖨 Report Options 🖌 🖛 Export	SECM Documents 🛛 👻 🖧 User Extensions					
* Item Type	Item Desription	* Process Name	* Active					
CMSCAPRV 🔺	CMiC Subcontract Approval (20-Jan-2014)	SUBMIT						
CMSCRFP	CMiC Subcontract Request for Payment Approval (20 Jan 2014)	SUBMIT						
CMSCRFPA	CMiC Subcontract Request for Payment Auto Approval	SUBMIT						
CM_CERTL	CMiC HR Cert Licns Change	SUBMIT						
CM_EDUCA	CMIC HR Education Change	SUBMIT						
CM_EMERG	CMiC HR Emergency Contact Change	SUBMIT	\checkmark					
View - Y Freeze	🚡 Detach 🛛 💆 Search 🖶 Insert 🗿 Insert Multiple 🖶 D	elete 🖨 Report Options 🛛 🔻 🌇 Export 🖓 ECM Document	S Vser Extensions					
* Schema	* Object Table	* Event Type * Enabled Condition Create						
DA SCMAST	A	NSERT A Condition Create						
DA SCMAST	U	PDATE Condition Create						
ATTRIBUTE MAPPING								
View 👻 🍸 🌇 Freeze	🖀 Detach 🛛 🗖 Search 🖶 Insert 🗿 Insert Multiple 🖶 D	elete 🔒 Report Options 🛛 🔻 🌇 Export 🖓 ECM Document	s 👻 🖓 User Extensions					
* Attribute Code	* Source Type	* Value * Active						
IMGDOCSEQ	COLUMN	ORASEQ						
REQUESTOR	CONTEXT PORSEC_USE	R						

Pgm: WKFEVMNT – Workflow Event Maintenance; standard Treeview path: Workflow > Setup > Event Based Launch Maintenance

To attach the workflow to the PM Subcontract object, follow these steps:

- In the Workflow Processes section of the Workflow Event Maintenance screen, specify/select a workflow item type and select the process to launch when the user presses the [Workflow] button on the CMiC Field Toolbar.
- In the Database Events section of the screen, specify the schema, select an object table, select an event type, and then apply the launch condition using the [Condition] button.
- In the Attribute Mapping section of the screen, complete the attribute mapping.
- Press the [**Create**] button in the Database Events section of the screen to create the trigger and bring the Workflow online.

Create the Condition

WORK	FLOW E	VENT	MAINTEN	NANCE															
								WORKF	LOW EVE	NT MAINT	TENANCE	Table	Mode	Bave 2	(i) (?		₽¤Q		
Show T	nactive Wor	kflows						Enter an opt	ional SQL exp	ression used to	o restrict when the	e trigger should fi	re.						
C SHOW I		KIIOWS						TRIGGER CONDITIONS											
WORKFLO	W PROCESS	ES						Insert											
View 🕶	Y E	Freeze	Detach	🛛 Search	insert	🛃 Insert Mu	ltiple 🚈	da.Dbk_Wkf_	Event_Manag	jer.f_jsp_launch	('SCMAST', :old.SC	MST_ORASEQ, 'CN	MSCAPPR',	'Approve_SC'					
	* Item Type	e			Item Desrip	tion													
CMSCA	PRV	A			/al (20-Jan-3														
CMSCR	FP						20 Jan 2014												
CMSCR	FPA		CMiC Subco	ontract Reques	t for Paym	ent Auto Appr	oval												
CM_CE	RTL										4								
CM_ED	UCA		CMIC HR Ed	ucation Chang	je														
CM_EM	ERG										1								
DATABASE	EVENTS							Close			1								
View 👻	Y E		Detach	🗖 Search	🖶 Insert	🛃 Insert Mu	ltiple 📰				/					_			
* Sc	hema			* Object	Table			* Event Type	* Enabled	Condition	Create								
DA								INSERT		Condition	Create								
										Condition	Create								
ATTRIBUT	E MAPPING																		
View 👻	Y E	Freeze	Detach	🔎 Search	insert	🛃 Insert Mu	iltiple 💼 I	Delete 🔒 Re	port Options	🗧 🔜 Expor	rt 🔗 ECM Docu	ments 🛛 👻 💆 U	ser Extensi	ons					
	* Attrib	ute Code	:	*	Source Type				* Value		* Active								
IMGDO	CSEQ		A	COLUMN		A	:new.SCMS	CORASEQ			✓								
REQUE	STOR			CONTEXT			PORSEC_US	ER			V								

Pop-up window launched from the [Condition] button on the Workflow Event Maintenance screen (standard Treeview path: Workflow > Setup > Event Based Launch Maintenance)

Press the [**Condition**] button to launch the Trigger Conditions pop-up window. Enter a launch condition in the pop-up window by typing it in or inserting it using the Trigger Conditions LOV and clicking on the [**Insert**] button. Here's an example of a launch condition for subcontracts:

```
da.Dbk_Wkf_Event_Manager.f_jsp_launch('SCMAST', :old.SCMST_ORASEQ,
'CMSCAPPR', 'Approve_SC')
```

Click the [**Close**] button to save and close the pop-up window, then press the [**Create**] button in the Database Events section of the Workflow Event Maintenance screen to generate the trigger and bring the workflow/item type online.

Create the PM Subcontract

Subcontrac	t Entry					User Exte	nsions	Сору	From	Add E	Edit Pos	t Wor	kflow C	Delete Prir	t Compl	iance S	Select Bid	Items Select PC	Is Back	To Log 🛛 🕻	a a
								Su	ibcontra	ct											
Vendor-XX	AXIS Technologies						Contac	ct Ma	ndy Moor	e									Date 0	6/04/2019	\neg
Contract No.	WKF-MDR03					Cont	ract Typ	e										Po	st Date		
Description	MDR Workflow Subcon	tract				Workflo	w Statu	us Una	submitted	1									Status F	ending	
Invoiced	Via - Subcontract						Currenc	y US	Dollars									Bank /	Account		
Address						Corresp	. Addres	ss										Bid	Amount		
Default Retainage %	10					Defa	ult Taxe	s 🗹	1												
Allow Only Single Job, CO Per RFP					SOV Leve	l Retainage	e Releas	e 🗆	I												
Start Date							End Dat	te										Issue	ed Date		
Received Date						Execu	ited Dat	te											Rating	Rate It	
Pay When Paid							Day	/s 3										Co	mpliant		
Check Hdl					Calculate	Tax On Ne	t Amour	nt 🗆	1										CDI [
Prequalification Status	On Hold Missing Data					Approv	al Statu	is Pre	equal Dati	e is Bla	ank or > 3	365 Da	ys Old								
Single Project Limit	1,000,000.00				Single F	Proj Limit R	emainin	g -4,	,109,368.	65											
Aggregate Project Limit	500,000.00				1	Aggregate I R	Proj Lim emainin	it -8,	,518,712.	09											
EMR																					
Scope Of Work																		Ter	m Code N	let 30 davs	*
50V-XX Change Or	ders Participa	tion	Attac	hments	Alter	rnates	Sp	ecial	Pricing	123	I	nclusi	ons	Exclus	ions	Text	Codes	Free Form	F	Review/Approva	
Task Code Task Nam	e Unit W/I	1 Rate	Amount	Job	Phase	Category	JB Bill Code	Tax1	Taxable	Tax2	Taxable	Tax3	Taxable	Retainage %	Expense Code	Fully Purch.		Long Description		Posted/Unposted Change Orders	Cost Center
TASK1 Task 1	NA	.000	30,000.00	ANALYZE	01-00-01	2000			•				•	10							

Workflow Option from CMiC Field JSP Subcontract

Create and $\left[\textbf{Save} \right]$ the fully completed Subcontract as required.

NOTE: The [**Post**] button is disabled and the [**Workflow**] button is enabled.

Launch the Workflow

Click the [Workflow] button to submit the CMiC Field Subcontract to the approval workflow and close the pop-up window.

Subcontract Entry	User Exter	tensions Copy From Add Edit Post Workflow Delete Print Compliance Select Bid Items Select PCIs Back To Log 🛛 🖓 🕻	^
		Subcontract	
Vendor-XX AXIS Technologies		Contact Mandy Moore Date 06/04/2019	$\neg \uparrow$
Contract No. WKF-MDR03	Contra	ntract Type Post Date	
Description MDR Workflow Subcontract	t Workflo	flow Status Unsubmitted Status Pending	
Invoiced Via - Subcontract	(Currency US Dollars Bank Account	
Address	Corresp.	sp. Address Bid Amount	
Default Retainage % 10	Defau	fault Taxes 🗹	
Allow Only Single Job, CO Per RFP	SOV Level Retain	A Workflow Launch Result - Internet Explorer	
Start Date		Attp://test4v10.cmic.ca:7785/cmictestv10x/WkfLaunch/home.do?objT) Issued Date	
Received Date	Ex	Workflow Launch Pesult	
Pay When Paid		Compliant	
Check Hdl	Calculate Tax On	CDI	
Prequalification Status On Hold Missing Data	Арр	Workflow Launched for Item Type/Process "CMiC Subcontract Auto Approval/0. Submit Registered Invoice for Approval"	
Single Project Limit 1,000,000.00	Single Proj Limi		
Aggregate Project Limit 500,000.00	Aggrega	Close This Window	
EMR			
Scope Of Work	Ľ	Term Code Net 30 davs	Ť
SOV-XX Change Orders Participation	n Attachments Alternates	Special Pricing_123 Inclusions Exclusions Text Codes Free Form Review/Approval	
Task Code Task Name Unit W/M R	Rate Amount Job Phase Category	y 38 Code Tax1 Taxable Tax2 Taxable Tax3 Taxable Retainage Copense Fully Long Description Posted/Unposted Code Furth Long Description Posted/Unposted	Cost Center
TASK1 Task 1 NA .(000 30,000.00 ANALYZE 01-00-01 2000		

The banner will display "In Workflow" and the Workflow Status field will display "Pending".

Subcontract E	Entry	User Extensions C	Copy From Add Edit	ost Workflow Delete Prin	nt Compliance Sele	ct Bid Items Select PCIs Back	: To Log 🛛 🕻 🗈 🏫
			Subcontract				
			In Workflow				
Vendor-XX AXIS	Technologies	Contact	Mandy Moore			Date	06/04/2019
Contract No. WKF-	-MDR03	Contract Type				Post Date	
Description MDR	Workflow Subcontract	Workflow Status	Pending			Status	Pending
Invoiced Via -	Subcontract	Currency	US Dollars			Bank Account	
Address		Corresp. Address				Bid Amount	
Default Retainage % 10		Default Taxes	✓				
Allow Only Single Job, CO Per RFP		SOV Level Retainage Release					
Start Date		End Date				Issued Date	
Received Date		Executed Date				Rating	Rate It
Pay When Paid 🗹		Days	3			Compliant	
Check Hdl		Calculate Tax On Net Amount				CDI	
Prequalification Status On H	iold Missing Data	Approval Status	Prequal Date is Blank or	> 365 Days Old			
Single Project Limit 1,00	0,000.00	Single Proj Limit Remaining	-4,109,368.65				
Aggregate Project Limit 500,	,000.00	Aggregate Proj Limit Remaining	-8,518,712.09				
EMR							~
SOV-XX Change Orders	Participation Attachments	Alternates Spec	cial Pricing_123	Inclusions Exclus	ions Text Co	odes Free Form	Review/Approval
Task Code Task Name	Unit W/M Rate Amount Job	Phase Category Bill Ta Code	ax1 Taxable Tax2 Taxab	lle Tax3 Taxable Retainage %	Expense Fully Code Purch.	Long Description	Posted/Unposted Cost Change Orders Cente
TASK1 Task 1	NA .000 30,000.00 ANALYZ	E 01-00-01 2000	Image: A state of the state	✓ 10			

NOTE: The [**Post**], [**Workflow**] and [**Delete**] buttons are greyed out when the CMiC Field Subcontract is in a "Pending" status.

Subcontract Workflow Approval

A Workflow approval request is sent to the approver for review. This process repeats for all of the approval levels defined in the Workflow definition.

	Workflow Notifications	Show/Hide Filters
From Date	To Date 🖏	v 1.81
Workflow Type	CMIC Subcontract Auto Approval V Notification Type Both V Priority All V Oraseq	
Comp	▲ Key 2 ▲ Key 3 ▲ Key 4 ▲ Key 5	
Sort By	Date then Oraseq 🔻 Descending 👻 Apply Filter Undo Last Filter Clear Filter Show/Hide Keys Show All	
	Subject Status	0 Approvals 7 FYIs (Filtered)
Tuesday,	June 04, 2019	
• F	Subcontract WKF-MDR03, Change 000 for Vendor [AXIS] AXIS Technologies has been Unread approved	
• F	Subcontract WKF-MDR02, Change 000 for Vendor [AXIS] AXIS Technologies has been Unread approved	
• F	Subcontract JUNE04-001SC, Change 000 for Vendor [PARRISH] Parrish Construction Unread Partners has been approved	
Monday,	June 03, 2019	
• F	Subcontract CONTRACTOOI, Change 002 for Vendor [SSVEND01] S S constructions ltd Unread has been approved	

Click on the subject to see the details of the Notification.



The Subcontract is now approved.

Subcontract Entry	User Extensions Copy Fron	n Add Edit Post Workflow Delete Print Compliance Select	3id Items Select PCIs Back To Log 🛛 📝 🗈 😭	a
		Subcontract		
Vendor-XX AXIS Technologies	Contact	Mandy Moore	Date 06/04/2019	
Contract No. WKF-MDR03	Contract Type		Post Date	
Description MDR Workflow Subcontract	Workflow Status	Approved	Status Pending	
Invoiced Via - Subcontract	Currency	US Dollars	Bank Account	
Address	Corresp. Address		Bid Amount	
Default Retainage % 10	Default Taxes			
Allow Only Single Job, CO Per RFP	SOV Level Retainage Release			
Start Date	End Date		Issued Date	
Received Date	Executed Date		Rating Rate It	
Pay When Paid	Days	3	Compliant	
Check Hdl	Calculate Tax On Net Amount		CDI 🗖	
Prequalification Status On Hold Missing Data	Approval Status	Prequal Date is Blank or > 365 Days Old		
Single Project Limit 1,000,000.00	Single Proj Limit Remaining	-4,109,368.65		
Aggregate Project Limit 500,000.00	Aggregate Proj Limit Remaining	-8,518,712.09		
EMR				~
SOV-XX Change Orders Participation Attachmen	ts Alternates Sp	ecial Pricing_123 Inclusions Exclusions Tex	t Codes Free Form Review/Approval	I.
Task Code Task Name Unit W/M Rate Amount Job	Phase Category JB Bill Ta Code	x1 Taxable Tax2 Taxable Tax3 Taxable Retainage Expense Full Code Purc	h. Long Description Posted/Unposted Cos Change Orders Cent	st ter
TASK1 Task 1 NA .000 30,000.00 ANALYZE	01-00-01 2000			

Purchase Order Workflow

Setup of Purchase Order Workflow

Complete the following steps to set up the PO approval workflow.

1. Open the Workflow Maintenance screen and select the program and block as shown in the screenshot below. Next, select the workflow's item type and process in the Workflow Processes section and then complete the attribute mapping in the bottom section of the screen.

WORKF	LOW MAINTE	NANCE											💾 Save	e 🚺 Exit	(i)	?	Δ	₽ ¤ 0
SELECTION O	CRITERIA																	
* Program	POENTRYC			A Pure	chase Order	r Entry												
* Block	B1																	
	Workflow Privileg	es																
WORKFLOW	PROCESSES																	
View 👻	Y 🖪 Freeze	Detach	👩 Search	insert 🔄	🛃 Insert N	Multiple	🖶 Delete	[®] ₀ Workflow	vs • 🖨	Report Op	otions 🛛	Export	t 🔗 ECM Do	cuments	* <u>0</u>	y User B	Extensi	ons
	* Item Type		Item	Description	1		* Process	Name		Ing	out Prefix		Condition					Active
CMPOAP	RV		CMIC PO Appr	oval (13-Ma	ir-2018)	SUBMIT							Condition				✓	
	MAPPING																	
View 👻	🝸 🌇 Freeze 🖷	Detach	👩 Search	nsert 🔄	🛃 Insert N	Multiple	📇 Delete	Ø _@ ₩orkflov	vs 🛛 🕶 🖨	Report Op	otions 🗸	Export	t 🥵 ECM Do	cuments	▼ <u>0</u>	y User B	Extensi	ons
	* Attribute Name		*:	Source Type			Source Nan	ne or Value	A	ctive								
INPUT_CO	OMPANY_CODE		Field		~	:B1_Po	omstCompCo	de 🔺	<									
PO_NUM	BER		Field		~	:B1_Po	mstNum		✓									
PO_RELEA	ASE_NUMBER		Field		\checkmark	:B1_Po	mstRelease	Num	✓									
REQUEST	OR		Context Variabl	le	~	PORSE	C_USER		✓									

Pgm: WKFUSRMT – Workflow Maintenance; standard Treeview path: Workflow > Setup > Screen Based Launch Maintenance

2. Open the Lookups By Type screen and set up the applicable roles.

LOOKUPS BY TYPE	1111111111111			💾 Save	Exit	٢	? ∆	. [≱ ≂ C
De 1 1 1 1								
Show Inactive Lookups								
LOOKUPS								
View 👻 🛐 Freeze 🖀 Detach 🔯 Search	🖥 Insert 📲 Insert Multiple 🛛 🖶 Delete	🗞 Workflows 🔻 🖨 Report Opti	ons 💌 🌉 Ex	(port 🔗 ECN	1 Documer	nts +	र्ट्स User	Extensions
* Lookup Name	Input Type (Given a)	Output Type (Retrieve a)	Values	* Active				
Invoice Timeout level 1	None	User Defined Text	Values	~				
Invoice Timeout level 2	None	User Defined Text	Values	~				
Invoice Timeout level 3	None	User Defined Text	Values	✓				
Invoice Timeout level 4	None	User Defined Text	Values	-				
Invoice Timeout level 5	None	User Defined Text	Values	✓				
JOB Level 1A	JC Job	Workflow User	Values	-	1			
JOB Level 1B	JC Job	Workflow User	Values	•				
JOB Level 2A	JC Job	Workflow User	Values	-				
JOB Level 3A	JC Job	Workflow User	Values	✓				
JOB Level 4A	JC Job	Workflow User	Values	-				
Job Invoice Approval Limit	JC Job	User Defined Text	Values	✓				
Job Invoice Approver 1A	JC Job	Workflow User	Values	 Image: A start of the start of				
			Values					

Pgm: WKFLOOK – Lookups By Type; standard Treeview path: Workflow > Setup > Resource Lookup Rules

3. Add the approvers to the role by pressing the [**Values**] button, and then specify the approvers for each company/dept/job.

LOOK	KUPS BY TYPE 🖺 Save 🕞 Exit 🕡 🕐 🛆 况 🗢	0
Show I	Inactive Lookups	
LOOKUPS	5	
View 👻	🍸 🛱 Freeze 🖀 Detach 🛛 Search 🖶 Insert 📲 Insert Multiple 👼 Delete 🗞 Workflows 🗷 🖶 Report Options 🖉 🌇 Export 😵 ECM Documents 🖉 🖧 User Extensions	
	*Lookup Name Input: Type (Given a) Output: Type (Retrieve a) Values * Active	
JOB Lev	JC Job Workflow User Values	^
JOB Lev	vel 18 jCjob A Worklow User A - Values C	
JOB Lev	vet ZA jC job Worklow User Values V	
JOB Le	•	
Job In	LOOKUPS BY TYPE	
Job In		
Job In	√LOOKUP	
Job In	Lookup Name [J08 Level 18 Input Type [JC Job	
Job Im	Output Type Workflow User	
Job In		
Job St	≥ RESULTS	
Job St	View 🔻 🔻 🌆 Freeze 🖫 Detach 🖾 Search 🖶 Insert 🟙 Insert Multiple 🐺 Delete 🕲 Workflows 🔻 🕀 Report Options 🔻 🌇 Export 🕀 ECM Documents 🔻 🐥 User Extensions	
Job St	Title 1 Key 1 Title 2 Key 2 > Title 1 Value 1	
Job St	Company A job A A Suser ID DA A	
Job St		
Job St	Company *All Companies User ID Data Admin	
Jobs -	lob *All jobs	~
	Close	

4. Launch the workflow on the Purchase Order Entry screen by clicking the [Workflows] button on the Block Toolbar of the Purchase Order section of the screen and selecting "Launch Workflow" from the drop-down menu.



Pgm: POENTRYC – Purchase Order Entry; standard Treeview path: Purchase Order > Process > Enter Purchase Order

NOTE: If more than one workflow has been defined, when "Launch Workflow" is selected from the [Workflows] button's drop-down menu, a pop-up may open listing the available workflows. Select the required workflow from the pop-up window and click [Launch] to launch the selected workflow.

Purchase Order Change Order Workflow

Setup of Purchase Order Change Order Approval Workflow

Complete the following steps to set up the PO change order workflow.

1. Open the Workflow Maintenance screen and select the program and block as shown in the screenshot below. Next, select the workflow's item type and process in the Workflow Processes section and then complete the attribute mapping in the bottom section of the screen.

WORKF	LOW MAIN	TENANCE								💾 Save 🌘	Exit (j	0 @ 4	∆ [2 ⊽ O
SELECTION (POCOENT			Chang	je Order Er	ntry							
* Block	B1 Workflow Privi	leges		A									
WORKFLOW	PROCESSES												
View 👻	Freeze	🗄 Detach	Search	🔄 Insert 🦷	🚺 Insert M	ultiple 🛛 🖶 Delete	⊗ Workflows	🔻 🔒 Report O	ptions 💌 🌇 Export	Sec M Documen	ts 🔻 🖧	User Exte	ensions
	* Item Type		Item	Description		* Proce	ss Name	i	input Prefix	Condition			Active
BOHPOC	OA		Boh Brothers F	PO Change A	pproval (APPROVE_PO_CO	A			Condition			✓
	MAPPING												
View 🕶	Y Freeze	🖶 Detach	Search	🔁 Insert 👔	🚺 Insert M	ultiple 👼 Delete	® _© Workflows	🔻 🔒 Report O	ptions 🛛 💌 🄜 Export	Sec ECM Documen	ts = 60	User Exte	ensions
	* Attribute Nan	ne	* s	ource Type		Source Nar	ne or Value	Active					
COMPAN	IY_CODE	*	Field		~	B1_PocohAddCom	pCode 🔺	✓					
PO_CO_N	IUMBER		Field		~	B1_PocohNum		 Image: A start of the start of					
PO_NUM	BER		Field		\checkmark	B1_PocohPoNum		✓					
PO_RELEA	ASE_NUMBER		Field		\checkmark	B1_PocohReleaseN	lum	✓					
REQUEST	OR		Context Variable	2	\checkmark	PORSEC_USER		✓					

2. Open the Lookups By Type screen and set up the applicable roles.

L	ООКИРЅ ВҮ ТҮРЕ				💾 Save	Exit	(i)	⑦ ⊿		~ Q
	Show Inactive Lookups									
LO	JOKUPS									
V	/iew 👻 🐺 🌇 Freeze 🖀 Detach 🔯 Search 🖶 Ing	sert Insert Multiple 🖶 Delete	© _@ Workflows │▼ 🖨 Report Option	ns 💌 🌉 Expor	t 🚱 ECM	Documen	ts •	र्ट्ट Use	r Extensio	ns
	* Lookup Name	Input Type (Given a)	Output Type (Retrieve a)	Values	* Active					
	Invoice Timeout level 1	None	User Defined Text	Values	✓					~
	Invoice Timeout level 2	None	User Defined Text	Values	✓					
	Invoice Timeout level 3	None	User Defined Text	Values	✓					
	Invoice Timeout level 4	None	User Defined Text	Values	✓					
	Invoice Timeout level 5	None	User Defined Text	Values	✓					
	JOB Level 1A	JC Job	Workflow User	Values	✓					
	JOB Level 1B	JC Job	Workflow User	Values	•					
	JOB Level 2A	JC Job	Workflow User	Values	✓					
	JOB Level 3A	JC Job	Workflow User	Values	✓					
	JOB Level 4A	JC Job	Workflow User	Values	✓					
	Job Invoice Approval Limit	JC Job	User Defined Text	Values	✓					
	Job Invoice Approver 1A	JC Job	Workflow User	Values	✓					
				Values						

3. Add the approvers to the role by pressing the [Values] button, and then specify the approvers for each company/dept/job.

LOOK	KUPS BY TYPE 🖺 Save 🕞 Exit (2) (7) 🛆 🖓	7 0
Show I	Inactive Lookups	
LOOKUPS	5	
View 🛩	🍸 🛱 Freeze 🖀 Detach 🔯 Search 🖶 Insert 👩 Insert Multiple 👼 Delete 🚳 Workflows 💌 🖨 Report Options 💌 🎆 Export 🖓 ECM Documents 💌 🖧 User Extensions	
	*Lookup Name Input Type (Given a) Output Type (Retrieve a) Values * Active	
JOB Lev	vel IA IC Job Workflow User Values 🗹	~
JOB Lev	Nel 18 IC job 🔺 Workflow User 🔺 pre-Values	
JOB Lev	vel 2A JC Job Workflow User	
JOB Le	and 22 In fact, Westerney Lead	
JOB Le		
lob In		
Job In		
Job In	Locks Name 108 Lovel 18	
Job In	Outur Type Workflow User	
Job In		
Job St	≥ RESULTS	
Job St	View 🔻 🏹 🌇 Freeze 🕾 Detach 🖉 Search 🖶 Insert 🚮 Insert Multiple 👼 Delete 🗞 Workflows 🔻 🖨 Report Options 🔻 🎆 Export 🕀 ECM Documents 🕷 Search 🕬 K.	
lob St	Trite 1 Key 1 Trite 2 Key 2 > Trite 1 Value 1	
Job St	Company a job a A Viser ID DA A	
Job St		
Job St	Company *All Companies User ID Data Admin	
Jobs -	lob *Alljobs	
Level		ľ
	_	
	Giss	

4. Launch the workflow on the PO's Change Order Entry screen by clicking the [Workflows] button on the Block Toolbar of the Change Order section of the screen and selecting "Launch Workflow" from the drop-down menu.

CHANGE ORDER ENTRY Table Mode Save 🕞 Exit (2) ③ 🛆 [2] 🗢 (2)										
SELECTION CRITERIA										
Company CCC A CMIC Test Construction Company Status Not Approved										
🔟 Search 🖶 Insert 🤠 Delete 💠 Previous 🌩 Next 🧠 Workflows 💌 😝 Report Options 🔍 🏶 ECM Documents 🔍 🔥 User Extensions										
Audit Workflow										
General Defaults Instructions Comments Te Launch Workflow										
* PO Number P0000010 🔺 * R. Abort Workflow 1 🔺 * Change Order # 1										
Vendor A1DOORS A1DOORS' - 'Company RRR' Currency US Type Standard										
PO Comp Code CCC Job * Normal Receiving Manual Automatic										
Order Date 09/08/2011 🖗 Requester OLESIA 🔺 OLESIA										
Expected Date Buyer RAVI RAVI										
CO Date										
Purchase Order Total 3675										

Pgm: POCOENT – Change Order Entry; standard Treeview path: Purchase Order > Change Orders > Enter Change Order

Estimating Information Sheet

ESTIMATING INFO	RMATION SHEET CONTR	DL		Table Mode	💾 Save	Exit	 ⑦ ⊥	þ
Days before bid date when the	he first reminder is sent							
PARAMETERS								
Search 🛞 Workflows	s 💌 🖨 Report Options 💌 🥵 EC	M Documents 🛛 👻 💆 User Extensions						
Interval 1	21							
Interval 2	7							
Threshold	500000							
PM Role 1	MNGR 🔺	Project Manager (MNGR - FL)						
PM Role 2	A	Role was not found						
PM Role 3	A	Role was not found						
From Userid	DA	Data Admin						
Error Msg Recipient	DA	Data Admin						
Drive Link	\\PM01\Pre-Construction\Forms\Esti	mate						
Subject 1	Estimate Information Sheet Reminde	r						
	Reminder, the Estimate Information	Report is required for "%s1" and is due in 7 days on %s2.	^					
Message 1	Please fill out the information neede %s3.	d in CMiC using the link	$\mathbf{\tilde{\mathbf{v}}}$					
Subject 2	Estimate Information Sheet Second	Reminder						
	Reminder, the Estimate Information	Report is required for "%s1" and should be completed at this tin	ne.					
Message 2	If you have not yet done so, please fi %s2.	ll out the information needed in CMiC using the link	Ç					

Pgm: PMEISCTL – Estimating Information Sheet Control; standard Treeview Path: Workflow > Setup > Estimating Information Sheet Control

The Estimating Information Sheet Control screen is used to specify the parameters for the issuance of a notification message to certain Key Player Roles (Senior Estimator, Estimator, Business Unit Admin), when the particular conditions that are defined, are met.

Interval 1

This is the days (calendar days) before the Bid Date when the first reminder is sent.

Interval 2

This is the days (calendar days) before the Bid Date when the second reminder is sent.

Threshold

This is the minimum value (potential revenue) of the opportunity (project) for which reminders are to be sent.

PM Role 1

This is the PM Role of the first key player to receive the reminder. This must be a valid user assigned to the project associated with the opportunity.

PM Role 2

This is the PM Role of the second key player to receive the reminder. This must be a valid user assigned to the project associated with the opportunity.

PM Role 3

This is the PM Role of the third key player to receive the reminder. This must be a valid user assigned to the project associated with the opportunity.

From UserID

User ID to use as the sender of the reminder email.

Error Message Recipient

User ID of the person who will receive error messages from the process.

Drive Link

This is the link path to a network directory containing documents required by the estimator.

Subject 1

Subject text of the first reminder email.

Message 1

Body text of the first reminder email.

Subject 2

Subject text of the second reminder email.

Message 2

Body text of the second reminder email.

Processing

When projects that meet the following criteria:

a) Revenue potential greater than the value entered in the Threshold field

b) Current date = bid date minus value in Interval 1 (calendar days) field

NOTE: An email notification (Subject1/Message1 fields) is sent to the key players defined in PM Role 1, PM Role 2, and PM Role 3 fields.

c) When Current date = bid date minus value in Interval 2 (calendar days) field, the second notification (Subject2/Message2 fields) is sent to the key players specified.

NOTE: If the bid date is changed after a notice is sent, the new date is picked up but that does not mean that the notice will be resent. To avoid sending duplicate notices, status flags are set. Since these flags are already set, no new notice will be sent. There is currently no GUI for resetting these flags.

When the wkf_launch_eis.sql is run, it immediately sends the emails to the relevant persons if the conditions are met.

The body of the email notification appears as shown in the example below.

Extra line b	breaks in this message were removed.	
From:	.com Sent: Weo 5/5	/2010 11:4
To:	Stephane Bronfield	
Cc		
Subject:	Estimate Information Sheet Reminder	
Reminde	ler, the Estimate Information Report is required for "JBS Packerland (SB testing)" and is due in / days on 28-APK-2010.	
Diasco	, fill mut the information monoid in (Mif using the link http://	
Flease	FITT OUT THE THIOLMETTON HEADEN TH CHTC BITHE (HETTAL THINK HEADEN THE THE THINK HEADEN THE THE THE THINK HEADEN THE	
You are (file:D	re also required to complete and attach the Contract Terms % Conditions Worksheet, the Project Risk Matrix, and the Act, Improve, Repeat worksheet which can be found on the N Drive D:\sbdocsidocum.txt).	

The link in the email body allows the user to log in directly to the referenced opportunity in the Opportunity Management module.

Workflow Email Notifications (Alerts)

Hierarchy for Sender's Email

- **1st.** System uses DA's e-mail in E-mail Address field on System Data module's User Preferences screen (program: SDUPREF; standard Treeview path: *System > Preferences > User Preferences*).
- 2nd. If above field is null, system uses e-mail address on Contact Info tab of DA's Contact record (program: SYSCNTCT Contact Management).
- **3rd.** If above field is null, system uses e-mail in Default Notification Email field on General tab of System Options screen (program: SYSOPT; standard Treeview path: *System > Setup > System Options*).
- 4th. If above field is null, system uses: <u>mPOWER_Alert@cmic.ca</u>.

Hierarchy for Receiver's Email

- **1st.** System uses user's e-mail in E-mail Address field on System Data module's User Preferences screen (program: SDUPREF; standard Treeview path: *System > Preferences > User Preferences*).
- 2nd. If above field is null, system uses e-mail address on the Contact Info tab of receiver's Contact record (program: SYSCNTCT Contact Management).

Email Messaging Maintenance

🗸 🍸 🌇 Freeze 🖷 Deta	ch 👩 Search 🔍 Workflows 🔻 🖡	Report Options 🛛 🔻 🏛 Export 🛛 & ECM Documents 🖉 😤 User Extensions
* Notice Level	* Notice Type	Subject
PLOYEE	PERIOD_OPEN	%s2, time entry for Pay Period End Date %s4 (period %s3) is now open
PLOYEE	PPE_1	%s2, Pay Period End Date %s4 is approaching. You have %s5 days left to submit your time
PLOYEE	PPE_2	%s2, Pay Period End Date %s4 is approaching. You have %s5 days left to submit your time
PLOYEE	PPE_3	%s2, Pay Period End Date %s4 is approaching. You have %s5 days left to submit your time
PLOYEE	PPE_4	%s2, Pay Period End Date %s4 is approaching. You have %s5 days left to submit your time
PLOYEE	PPE_TODAY	%s2, Pay Period End Date %s4; You have missed the ability to submit your time
ROVER	APVR_COPY_PPE_1	List of employee(s) who have not completed their time entry for the period %s3, Pay Peri \Diamond
The current payroll period is nov	v open for entering time. There are %s6 hou	rs in this period. Your prompt attention in completing your time entry is appreciated
		· · · · · · · · · · · · · · · · · · ·

Pgm: WKF_EMAIL_MSG_MNT – Workflow Email Messaging; standard Treeview path: Workflow > Setup > Email Messaging Maintenance

This screen is used for the E-Time Approval notice workflow. There is a Standard (Enterprise only) workflow that can be used to send notices to users to enter time and approve time. This screen allows a company to tailor the email notices their users receive from the standard verbiage used.

Index

A

Approve/Unapprove Screen	22
Assumptions	20
- <u> </u>	

С

CMiC Field Subcontract Workflow	
CMiC Field Subcontract Workflow Security	26
Configuring CMiC Field Subcontract Workflow	
Create the Condition	29
Create the PM Subcontract	30
Create the PM Subcontract	

E

Email Messaging Maintenance	41
Estimating Information Sheet	
Event Based Launch Maintenance	9

G

General Steps in Using a Looku	n Rule A	4
General Steps in Osing a Booka		•

Η

Hide [Approvers] Button	20
Hierarchy for Receiver's Email	40
Hierarchy for Sender's Email	40

L

Launch Maintenance	
Launch the Workflow	31
Launching Workflows from JSP Screens (CMiC Field, OM, ESS)	14
Lookup Rule Maintenance	4
Lookups By Type	5

M

Module Interaction	1

N

lotification List	

0

Output Type Values	8
Overview	9

P

Premise - Workflow	1
Processing	
Purchase Order Change Order Workflow	36
Purchase Order Workflow	33
Purchase Order Workflow Security	20

R

ble Access for [Workflow] and [Post] Buttons
--

S

Screen Based Launch Maintenance (User Initiated Workflow Setup)	15
Setup	4
Setup of Purchase Order Change Order Approval Workflow	
Setup of Purchase Order Workflow	33
Subcontract Workflow Approval	32
System Data Privileges	19

U

Using User Initiated Screen Based Workflows

W

Workflow - ADF	1
Workflow Email Notifications (Alerts)	40
Workflow Management	
Workflow Monitor	
Workflow Notification Rules	
Workflow Overview	
Workflow Security	19
Workflow Security Rules	
Workflow Status List	