

ACTIVE Governance™

ACTIVE Policy Governor™ User's Guide

Software Version 7.1

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Document Version AG002-710B

8/9/06

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Introducing ACTIVE Policy Governor

ACTIVE Governance both documents and enforces business controls, enabling users to demonstrate regulatory compliance and to promote operational efficiency. An ACTIVE Governance Platform fulfills the documentary purpose, maintaining a “control library” in which users describe and catalog controls as well as other items that establish the business context in which controls exist. The Platform also provides for the review of control-library items, and for reporting on their status.

Moreover, the Platform serves as a foundation for three modules that provide the capability to automate the enforcement of controls. One of these modules is ACTIVE Policy Governor, which enables users to create “control monitors,” “workflow routings,” and “workflow definitions”:

- A control monitor employs one or more statements, written in structured query language (SQL), that define actions subject to control. It establishes a sequence in which the statements are evaluated and the records they return are designated as “suspect tasks.” Each monitor, once configured, is attached to a control definition written in the ACTIVE Governance Platform.

ACTIVE Policy Governor enables you to create control monitors one at a time or to import “prepackaged” control monitors prepared by LogicalApps.

- A workflow routing selects sets of users, user groups, or both, and establishes a sequence in which they receive requests to review suspect tasks. The routing can designate users or groups with authority to “pass” a suspect or declare it an “exception,” and others who are notified of decisions made about the suspect.

- A workflow definition associates a given workflow routing with any number of controls. As a result, suspects generated by control monitors attached to those controls become subject to review by the users and groups specified in the workflow routing.



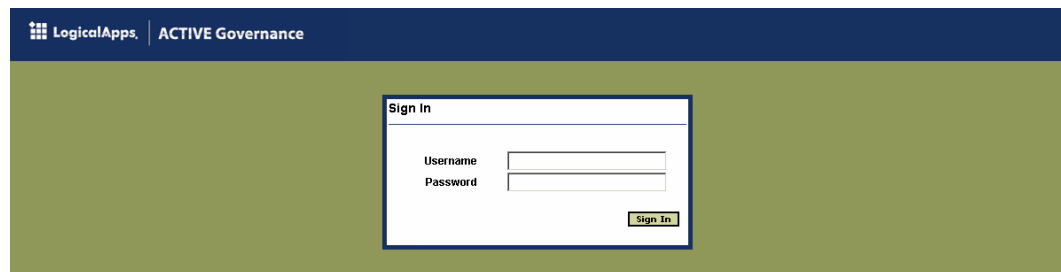
Note

Workflow routings and workflow definitions may also configure review processes for other items. These items include controls, as they are created or modified, as well as “hierarchy elements” that provide context for controls. They also include emergency-access requests made from ACTIVE Access Governor™. This *ACTIVE Policy Governor User’s Guide*, however, focuses on configuring workflow routings and workflow definitions for use in reviewing suspects generated by control monitors. For information on other workflow configurations, see the *ACTIVE Governance Platform User’s Guide*.

Starting ACTIVE Policy Governor

ACTIVE Policy Governor is a web-based application designed to run in the Microsoft Internet Explorer or Firefox web browser. To start ACTIVE Policy Governor:

- 1 Open your web browser.
- 2 In the Address field, type the URL for your instance of the ACTIVE Governance Platform, and press the Enter key. (Using standard Windows procedures, you can, of course, save the URL as a favorite or create a desktop shortcut to the URL.)
- 3 A Sign In dialog box appears. Type your user name and password, and click on the Sign In button.



- 4 The ACTIVE Governance Platform opens. Click on its Control Automation tab.

Access to Features

Each user is assigned a “primary application role” when his user account is created in the ACTIVE Governance Platform. Your access to features in ACTIVE Policy Governor depends on the role you have been assigned:

- If you are and Author, SOD Super User, Manager, or Rule Builder, you have full access. You can view, create, or modify control monitors, workflow routings, or workflow definitions.

- If you are an Auditor, Executive, System Administrator, or User, you can view these items, but you cannot create or modify them.

Navigational Conventions

As you work with ACTIVE Policy Governor, you'll make repeated use of the following features.

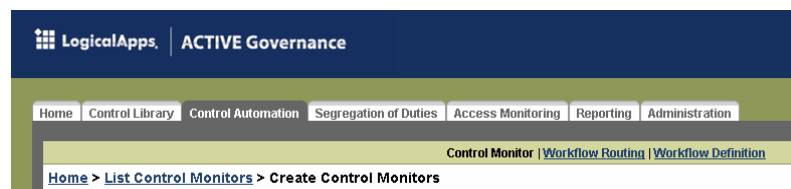
Library Navigator

When you click on the Control Automation tab, ACTIVE Policy Governor opens a panel that displays existing control monitors, enabling you to view them, edit them, or create new monitors. However, you also have access to related tasks — the configuration of workflow routings and workflow definitions. A “Library Navigator” — a horizontal string of links near the top of the Control Automation panel (beginning with the phrase *Control Monitor* in the figure below) — provides access to these related tasks. Click on any of the links to open screens that support those tasks.



Breadcrumbs

Once you have selected a link in the Library Navigator and begun to select options within the panel it opens, ACTIVE Policy Governor leaves a trail of “breadcrumbs” — a string of links to each of the screens you have navigated to reach the screen you are using, culminating in the title of the current screen. (In the figure below, the breadcrumbs trail begins with the word *Home*.) To return to any of the earlier screens, click on its link.



Sorting and Selecting Items in Lists

Several panels in ACTIVE Policy Governor present lists of items — control monitors, workflow routings, or workflow definitions.

Control Monitor Name	Description	Last Updated	Version	Status
AP Invoice over Threshold	Identify Invoices over a certain threshold amount	Jan 8, 2006 1:07:21 PM	1	Editing
Dormant Inventory Items	Dormant Inventory Items	Jan 8, 2006 11:12:45 AM	1	Active
Dormant User Ids	Identify Dormant User Id	Jan 9, 2006 2:24:48 PM	1	Inactivated
Dormant User Ids	Identify Dormant User Id	Jan 9, 2006 2:24:35 PM	2	Editing
Invoice Above Limit	This is a test.	Jan 10, 2006 4:57:45 PM	1	Editing

< Previous Page Show 5 Results Result 6 - 10 of 12 Page 2 of 3 Next Page >

Each of these lists implements the following conventions:

- In the header row, some column headings are underlined. Each of these is a sort column. When you click on one of these headings, the contents of its column are arranged in alphanumeric order; the values in other columns are arranged appropriately so that records remain intact.
- In the footer row, you can select a number in the Show Results list box to determine how many rows the list displays at once. The list entries are divided into pages, each of which consists of the number of rows you've chosen to display. To move to another page than the one currently displayed, click on its number in the Page list box. Or, click on the Next Page or Previous page link, each of which is present only if there is a next or previous page to go to.

Monitors and Workflows in Principle

A control monitor is one of several elements that may enforce a control defined in the ACTIVE Governance Platform. (Other items that may enforce controls include segregation-of-duties rules created in ACTIVE Access Governor, change-control rules created in ACTIVE Data Governor™, or form or flow rules created through the use of LogicalApps tools embedded in Oracle Applications. Or, control enforcement may be manual.) When used, a control monitor is attached directly to the control it enforces.

A workflow routing may be linked directly to one or more control monitors, and so its members would review suspects generated by those monitors. Alternatively, a workflow routing may be associated indirectly with any number of controls (and so with suspects generated by monitors attached to those controls). In this case, a workflow definition serves as the intermediary, by specifying events, dimension/attribute conditions, data conditions, and a priority:

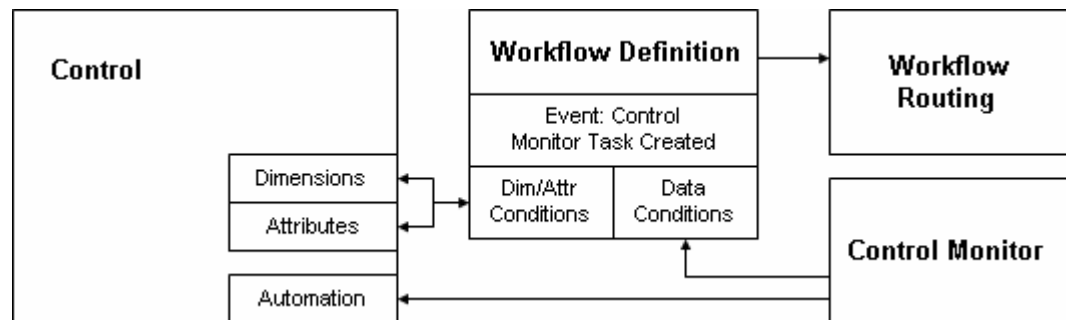
- An event is the circumstance that triggers the distribution of messages to users or groups named in the workflow routing. Although there are many events, only one — “Control Monitor Task Created” — triggers the review of suspects generated by control monitors. (The other events apply to the review of controls and related items as they are created or modified in the ACTIVE Governance Platform, or of requests for emergency access as they are generated in ACTIVE Access Governor.)
- Dimension/attribute conditions enumerate a set of dimension and attribute values. Each control is configured to have dimensions (segments of your business environment in which a control is used) and attributes (values that may describe

the qualities or nature of a control). So dimension/attribute conditions select the controls to which the workflow routing applies — those configured with a corresponding set of dimension and attribute values.

- Data conditions filter the suspects returned by a control monitor. Each specifies a value that may be held in a column of a suspect record, so that only suspects with the specified values are selected.
- The priority determines which workflow routing is used when more than one might otherwise apply to a suspect. (See “Combining Priorities and Conditions in Workflow Definitions.”)

A Simple Workflow Example

The following figure illustrates how a control, control monitor, workflow routing, and workflow definition may work together to distribute suspect tasks for review:



In this example:

- The control monitor generates suspect tasks. It’s attached to the control as an “automation.”
- The control specifies a set of dimensions and attributes.
- The workflow definition specifies a matching set of dimension/attribute conditions. It also has the Control Monitor Task Created event. So it can forward suspect tasks generated by the control monitor to the workflow routing.
- The workflow definition also specifies data conditions. Thus, of all suspect tasks generated by the control monitor, only those with data values matching the data conditions are forwarded to the workflow routing.

Combining Priorities and Conditions in Workflow Definitions

More than one workflow definition (and so more than one routing) may apply to suspects returned by a control monitor attached to a control. Any definition may apply if it specifies the appropriate event — Control Monitor Task Created — and if a control and suspect satisfy every one of its conditions.

For example, a control with an attached monitor may be assigned values for two dimensions and one attribute — d1, d2, and a1. A workflow definition with d1, d2,

and a1 as dimension/attribute conditions (for the moment, assume it has no data conditions) might apply to suspect records returned for the control. But so might definitions that set any combination of the three as conditions, such as d1 and d2, or d1 and a1, or d2 alone, or none at all.

To resolve contention among workflow definitions, you assign each a priority. The value 1 indicates highest priority, and precedence declines as number values increase. When several workflow definitions might apply to a suspect, the highest-priority definition among them is the one to be used.

More specifically, assume that a control monitor has generated a set of suspect tasks. Moreover, several workflow definitions are configured to have the Control Monitor Task Created event; any of them may apply to each of the suspect tasks. The ACTIVE Governance engine selects one suspect and determines whether it meets all the conditions specified for the highest-ranking workflow definition. Does the suspect-task record contain all values specified by data conditions? The control monitor is attached to a control; does the control have all the dimensions and attributes specified as dimension/attribute conditions for the workflow definition?

If the answer to these questions is yes, the mapped workflow routing is applied to that suspect. If the answer is no, the engine compares the record with the second-highest-priority Control Monitor Task Created definition. If the record satisfies all conditions set by the definition, the mapped workflow is used; if not, the engine moves to the next-highest-priority workflow definition. It continues until it finds a match.

Then the engine moves to the next suspect-task record and repeats the process, continuing until all suspect-task records have been matched to workflow routings.

Therefore priority is the first factor in determining which among competing workflow definitions (and so routings) is used; precision of the match between workflow-definition conditions and the dimension, attribute, and data values contained in a suspect record comes second. In the example of the control with dimensions d1 and d2 and attribute a1, a definition that sets these values as conditions might be considered to be more closely matched than one that sets only a data condition. Even so, if that second definition has the higher priority, it would be used whenever the data condition evaluates to true.

You can use this to your advantage. You might want suspects who meet the d1-d2-a1 definition generally to be reviewed by the members of an “everyday” workflow routing. You might also identify some emergency circumstance that requires review by another set of approvers, and so create a higher-priority workflow definition that includes only a data condition to define the emergency. The emergency workflow would be used for appropriate suspects, but other suspects would fall through to the everyday workflow.

There is a danger, however, of configuring a workflow definition with a highly specific set of conditions, and have it never be used because a more general definition has a higher priority. (Any suspect that would qualify for the d1-d2-a1 definition would, for example, be captured first by a higher-priority definition that specifies any one of these as its only condition.)

As a result, it is generally advisable that as the conditions configured for a workflow definition become more specific, the definition should receive a higher priority. Moreover, a definition with no conditions and the lowest priority serves as a “catch-all,” implementing a workflow routing for any control whose dimension and attribute assignments do not match up with the conditions of any higher-priority workflow definitions. LogicalApps provides a “Default Workflow” that serves precisely this purpose. It routes requests to a user selected during installation, and its definition has priority number 1000, has no dimension or data conditions, and calls all possible events.

If priority is the first factor in resolving contention among workflow definitions, however, precision still matters. You may, for example, design a control that requires review of invoices valued higher than a certain amount. The control may have, let’s say, a Region dimension with two values — East and West. Suspects for each region are to be reviewed by approvers from that region, so you intend to map two workflow routings to the control. But a single table contains invoice records for both regions; fortunately, it contains a column (called, let’s say, REGN) that stores the region for each record, and this column is included among the values returned with each suspect.

To direct suspects to appropriate reviewers, each workflow definition would set a dimension/attribute condition (Region equals either East or West) as well as a data condition (REGN equals either East or West). As the ACTIVE Governance engine evaluates an individual suspect record (let’s say one for the eastern region) it would necessarily consider the higher-priority definition first. If that were the Eastern definition, it would (appropriately) evaluate to true without the other definition being considered. Or, if the Western definition had the higher priority, the engine would evaluate it first, get a false result, and move on to the Eastern definition and a true result. So priority, while implemented, would become irrelevant.

Note that in a case like this one, it is theoretically possible not to use data conditions, but instead to add a WHERE condition to the SQL statement run by the control monitor that produces suspects, so that it would return values only for the East or only for the West. This, however, is not recommended. First, it’s less efficient (rather than one control for both regions, it would require two controls, one for each region).

Perhaps more important, the SQL queries included in control monitors are commonly very complex, and the attempt to edit one (particularly by a person who did not write it originally) risks distorting its logic. So that data conditions can be written, SQL queries should include all return columns they might use.

Combining Events and Conditions in Workflow Definitions

For the purpose of reviewing suspect tasks, only one event applies — Control Monitor Task Created. You may, however, combine this event with others to create a workflow that serves multiple purposes.

However, each event can be paired only with conditions that do not filter out all the items the event is intended to select. For example, control-library elements are associated with dimensions and attributes, but do not return data values. (Control-library

elements are items created in the Control Library tab of the ACTIVE Governance Platform — controls themselves, but also control objectives, subprocesses, processes, policies, policy sections, cycles, and risks.) So a “Created” or “Updated” event for a control-library element may be paired with dimension/attribute conditions, but would never produce results if associated with a data condition.

Therefore, as you create a workflow definition, you select events before conditions, and ACTIVE Governance prevents you from setting conditions that do not agree with the events you’ve chosen. Specifically:

- If you select only the Control Monitor Task Created event, you can create dimension/attribute conditions and data conditions.
- If you combine the Control Monitor Task Created event with any of those that trigger the review of control-library elements as they are created or updated, you can create dimension/attribute conditions, but not data conditions.
- If you combine the Control Monitor Task Created event with any of those that apply to the review of access requests as they are generated in ACTIVE Access Governor, you cannot configure any conditions.

Moreover, when you edit a workflow definition, ACTIVE Governance prevents you from adding or removing events if the definition includes any condition.

SQL Queries in Control Monitors

You are assumed to know how to write a SQL query. (If not, please consult a SQL reference.) However, writing a query for use in a control monitor involves a few special considerations.

When a control monitor runs a SQL query, the return values are incorporated into messages displayed at the Task Inbox of the ACTIVE Governance Platform. Therefore each SQL query must return values for columns with the following aliases:

- `suspectName`: Although not displayed at the Task Inbox, this value is required in the SQL query. It can be any label that applies to values returned by the query.
- `suspectDesc`: This column provides an encapsulation of the issue involved in each record returned by the SQL query, for display in a Task Description field. It may incorporate text and return values, for a maximum length of 255 characters.
- `suspectInfo`: This column provides a more thorough account of the issue involved in each record returned by the SQL query, for display in a Suspect Details panel. It may incorporate text and return values, for a length of up to 4,000 characters.
- `uniqueSuspectIdentifier`: This alias identifies a column (or combination of columns) that contains a unique value for each record. ACTIVE Governance uses this value to eliminate duplicate suspects generated in multiple runs of a control monitor.

As noted earlier, a query should also include any columns that might return data useful for a data condition in a workflow definition.

Moreover, a SQL query may make use of these items:

- Parameters for which a user supplies values at run time. Within a query, each parameter ID is preceded by an ampersand (&).
- Statements in the WHERE clause that compare a table column with a dimension name. In such a case, the ACTIVE Governance engine limits return values to records in which the column value matches the first value configured for the dimension. Within the query, the dimension name is preceded by a dollar sign (\$). For example, if a CorpDivision dimension is configured to have *Manufacturing* as its first (or only) value, then the statement *where InventoryOrg = \$CorpDivision* would return records for which a table column called InventoryOrg contains the value *Manufacturing*.

Typically, a dimension intended for this purpose would have only one value configured for it. Its use would enable end users to reset the value by reconfiguring the dimension, rather than having to rewrite SQL code.

- A constant, called *last_run_date*, which stores the last date upon which the query has been evaluated; if so, it may compare a date stored within records to return those with a defined relationship to the *last_run_date*. For instance, *record_date > last_run_date* might return values generated since the last run date.

For example, the following query is directed at a table (*ap_invoices_all*) that stores invoice data; it returns a record for each invoice with a value greater than a threshold amount. That threshold is represented by a parameter (*ThresholdParm*), so that a user can set an appropriate amount as he runs the workflow. Moreover, the query returns values from two table columns, *invoice_num* and *invoice_amount*:

```
select 'Invoice amount too great' suspectName,
      'Invoice '||invoice_num||' may exceed acceptable value' suspectDesc,
      'The invoice '||invoice_num||' is valued at '||invoice_amount||
      ', but the value threshold has been set at '||&ThresholdParm||
      '. Please review.' suspectInfo,
      invoice_num uniqueSuspectIdentifier
from ap_invoices_all
where invoice_amount > &ThresholdParm
```

Imagine that a user sets the threshold at \$5000; one invoice in the *ap_invoices_all* table has a greater *invoice_amount* value (\$5001); and the identifying number for that invoice (its *invoice_num* value) is 98765:

- The *suspectName* return value is “Invoice amount too great” (as it would be for any other record returned by this query, as it’s configured to be static text).
- The *suspectDesc* return value is “Invoice 98765 may exceed acceptable value,” because the text configured for *suspectDesc* is concatenated with the value of *invoice_num*.
- The *suspectInfo* return value is “The invoice 98765 is valued at 5001, but the value threshold has been set at 5000. Please review,” because the text configured for *suspectInfo* is concatenated with the values of *invoice_num*, *invoice_amount*, and the *ThresholdParm* parameter.

- The `uniqueSuspectIdentifier` value is the invoice number, 98765. This ensures that a suspect returned for the same invoice in a second running of the control monitor would be deleted because it's redundant; the suspect record from the first running of the control monitor already exists.

Statuses and Versions

For either a control monitor or a workflow routing, there may be any number of versions, and each version exists at one or more of four statuses: Editing, Active, Pending Inactivation, and Inactive.

- A control monitor or workflow routing at the Editing status is in development. Editing is the default status for a newly created version of a monitor or workflow, and only a version at the Editing status can be modified.
- An Active control monitor or workflow routing is actually used; it identifies suspects or distributes review requests. Only one version of a control monitor or workflow routing can be Active at a time.
- When a control monitor or workflow routing is promoted from Editing to Active, the version that had been Active should be made inactive. At that moment, however, any number of review requests or suspect tasks may have been initiated but not completed under the terms of the earlier Active version. If so, status for that earlier version is set automatically to Pending Inactivation; it remains at that status until all of its outstanding issues are resolved.
- An Inactive control monitor or workflow routing is no longer used. A version may reach this status either from Active (when a subsequent version is promoted from Editing and replaces it as Active) or from Pending Inactivation (upon resolution of issues that were outstanding when it was replaced as the Active version). You can assign Inactive status to a version manually. Or, when you promote a version to Active status, ACTIVE Governance inactivates the version (if any) that had previously been active.

Configuring Monitors and Workflows

To work with a control monitor or a workflow routing, you first create the item (in effect, give it a name and describe it). Then you edit it, either to configure its first version (set the values that initially define it) or to configure later versions (modify existing values). You follow virtually identical processes for creating each of these items and for selecting versions of them for editing, although of course the values you supply as you edit each (and the procedures for supplying them) are very different.

You can configure workflow definitions only for workflow routings that exist at the Active status. As a result, you don't create workflow definitions; instead, you select them for editing from an automatically generated list of active workflow routings.



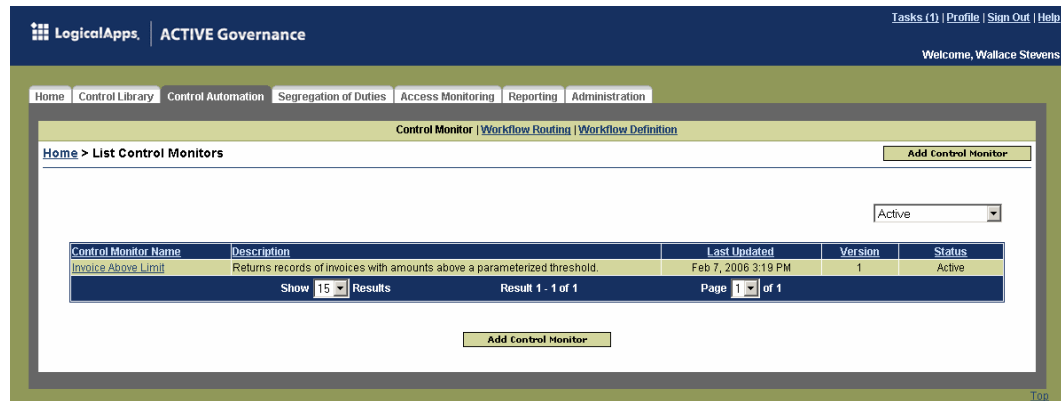
Note

To create or edit control monitors, you must select the Control Automation tab in the ACTIVE Governance Platform. To create or edit workflow routings and workflow definitions, you can select either the Control Automation tab or the Administration tab, from which identical sets of features are available. Although this manual, by convention, directs you to select the Control Automation tab, be aware that you can select the Administration tab instead if you are configuring workflow routings and definitions.

Displaying a List of Control Monitors or Workflow Routings

To view, create, or modify a control monitor or workflow routing, ensure that the Control Automation tab is selected in the ACTIVE Governance Platform. Then

select either the Control Monitor link (the default) or the Workflow Routing link in the Library Navigator. A List panel then lists active control monitors or workflow routings (according to your selection in the Library Navigator), and presents information about them — name, description, date last modified, version number, and status:

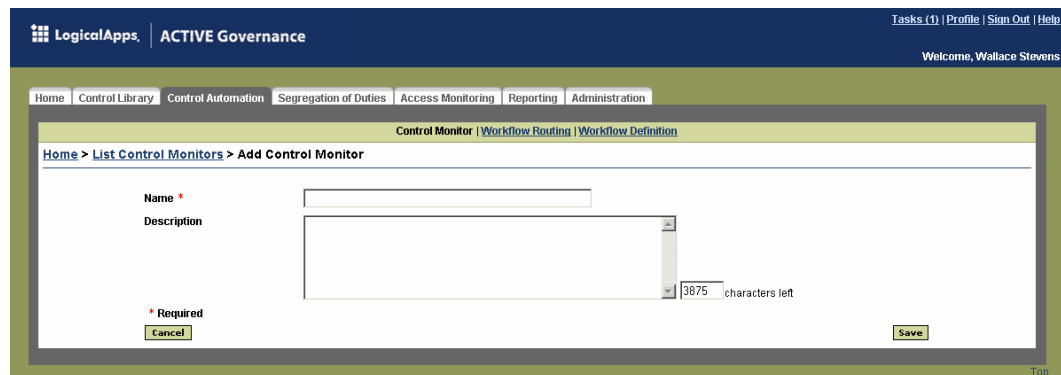


To view entries for monitors or workflow routings at a specific status, use the Status list box (it's unlabeled, but is located above the list of control monitors or workflow routings, along the right side). You can select All or any of the individual statuses — Active, Editing, Pending Inactivation, or Inactive.

Adding a Control Monitor or Workflow Routing

To create a new control monitor or workflow routing:

- 1 Depending on your selection in the Library Navigator, the List panel displays two buttons — one at the top right, and another at the bottom center — labeled Add Control Monitor or Add Workflow Routing. Click on a button to open a panel called Add Control Monitor or Add Workflow Routings.



- 2 In the Name field, type a name for the control monitor or workflow routing.
- 3 In the Description field, explain how the monitor or routing is to be used. (Note that a second field keeps a tally of the number of characters you may use.)
- 4 Click on the Save button.

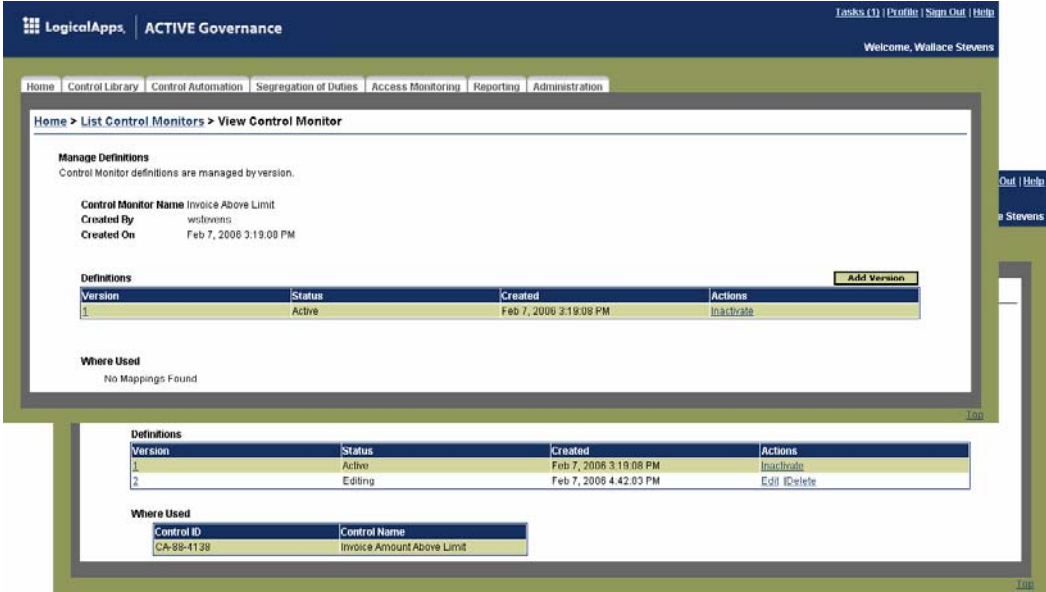
The act of saving the monitor or routing automatically opens a panel that lists its existing versions — in this case, a single version at the Editing status. From this panel (which is shown on page 15), you can open the monitor or routing for editing.

Editing a Control Monitor or Workflow Routing

As you edit a control monitor or workflow routing, you either select values for a newly added one or modify values for an existing one. In either case, a version of the item must exist at the Editing status.

You begin to edit an item by selecting (or creating) its Editing version in a panel that lists all its versions. Or, in the same panel, you can select another version (if any exists) to view its configuration details. The panel opens automatically for a newly created monitor or routing. For an existing monitor or routing, complete these steps to open the panel:

- 1 Open the List panel for control monitors or workflow routings.
- 2 If you are interested in monitors or workflows at a particular status, set the Status filter accordingly; or, select All if you want to see items at more than one status.
- 3 The List panel presents a filtered list of control monitors or workflow routings. Click on the name of the one you want to view or change. This produces the panel that lists all existing versions of the item you've selected — View Control Monitor or View Workflow Routing.
 - If no Editing version yet exists, the panel displays an Add Version button (as shown in the top instance of the panel in the following illustration).
 - If an Editing version already exists, the panel displays a row for it (row 2 in the bottom instance of the panel in the following illustration).



From this panel, you can:

- Create an Editing version by clicking on the Add Version button. The new version is a copy of the most recent (typically Active) version.
- Open the Editing version for modification by clicking on its version number or on its Edit link. An Edit Definition panel opens.

- Open any other version for viewing by clicking on its version number. A View Definition panel opens. You cannot change any information for a version at any status other than Editing.
- Delete the Editing version by clicking on its Delete link.
- Retire the Active version by clicking on its Inactivate link.
- Rename the monitor or routing, or revise its description, by clicking on an Edit link that appears next to its name. (The link, and the renaming capability, exist only if the monitor or routing has an Edit version, but no other version.) This opens an Edit panel that works in the same way as the Add panel in which the monitor or routing was originally named and described.



Note

If you have linked a version of a control monitor or workflow routing to one or more controls, and you select that version in the Definitions list on this panel, a Where Used grid shows the ID and name of each linked control.

Configuring a Control Monitor

A control monitor implements a series of steps. At least two steps — one each of two types — are required. A third type of step is optional.

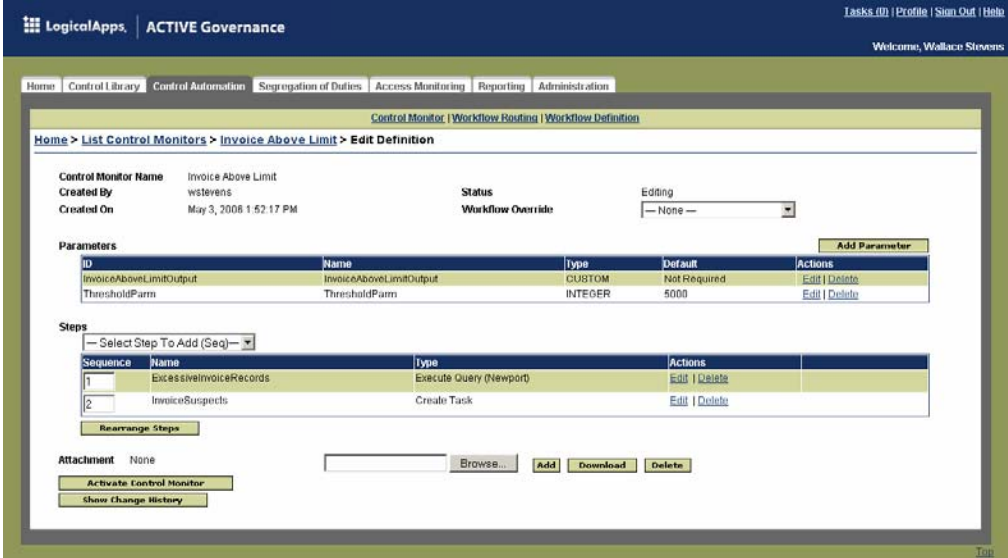
- An Execute Query step defines a SQL query and designates a parameter that stores results returned by the query. This is one of the required steps.
- A Create Task step converts each of the stored records returned by a SQL query into a “suspect task.” This is the second of the required steps.
- An Update Parameter step alters the value of a parameter to the value of another parameter, to a fixed value, or to a calculated value. This is the optional step.

Thus, as you configure a control monitor you do the following:

- Create parameters — at least one per SQL query, to store the values returned by the query, and potentially others for use within queries.
- Write the SQL queries themselves.
- Incorporate queries and parameters in steps.

Optionally, you can designate a workflow routing whose members always review suspects generated by the control monitor; this removes the control monitor from review cycles implemented by workflow definitions. You can also attach a document to the control monitor (page 24) or review its change history (page 29).

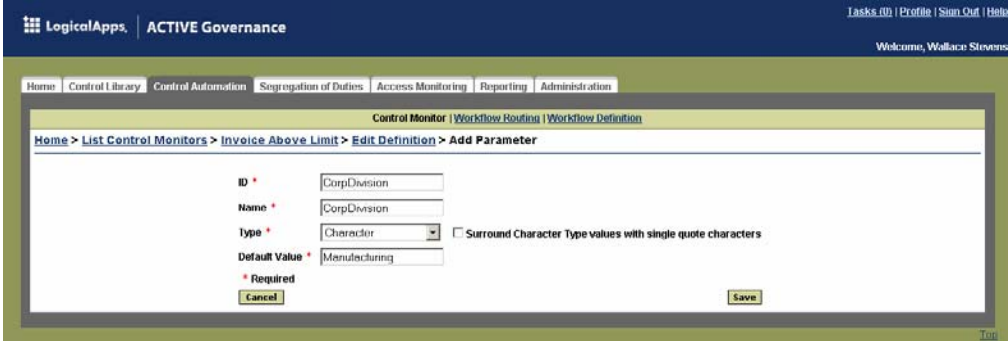
To begin, open the control monitor for editing (see “Editing a Control Monitor or Workflow Routing” on page 15). An Edit Definition form appears, displaying prompts to create new parameters and steps (as shown at the top of the next page). If parameters and steps have been created, the panel also lists them, with prompts to edit them. (An equivalent form, View Definition, opens for a monitor at a status other than Editing; it does not allow changes.)



Configuring Parameters

To create or modify parameters the workflow is to use:

- 1 In the Edit Definition panel, click on the Add Parameters button to create a new parameter. Or, to modify an existing parameter, click on the Edit link in its listing. A panel, labeled Add Parameter or Edit Parameter, appears:



- 2 In the ID field, type an identifier for the parameter. This is the label by which you must call a parameter when you use it in a SQL query.
- 3 In the Name field, type a name for the parameter. This is the label you use in an Execute Query step or a Create Task step to select a parameter that holds values returned by a SQL query.
- 4 In the Type field, select a type for the parameter:
 - For a parameter that is to hold the values returned by a SQL query, you must select *Custom*. One Custom parameter is required for each Execute Query step you intend to create.
 - For a parameter cited within a SQL query, select one of the other two values, depending on the type of data the parameter represents: *Numeric* for a number or *Character* for text.

When a SQL query is evaluated, its parameters are replaced by actual values — either defaults or values provided by the user who runs a control monitor. The actual value for each Character parameter must be placed in single quotation marks. You can cause this to happen by inserting the marks around the parameter name as you write the SQL query. If so, clear the “Surround Character Type values with single quote characters” check box that appears when you select *Character* in the Type field. Or, you can omit the quotation marks as you write the query, but have ACTIVE Policy Governor insert them automatically around the actual value as the query is evaluated. To make this happen, select the “Surround Character” check box.

- 5 In the Default field, set a value to be used in place of the parameter if a user does not set a value while running the control monitor. For a Custom parameter, which has no default value, select *Not Required*. For a Numeric parameter, type a number; for a Character parameter, type a string of text.
- 6 Click on the Save button. The parameter appears in the list on the Edit Definition panel and displays the values you selected for it.

Configuring Steps

To create or modify the steps the workflow is to follow, click on the Select Step to Add list box in the Edit Definition panel. Then click on one of the three step types: Execute Query, Create Task, or Update Parameter. Or, click on the Edit button in the listing for an existing step.

If you choose an Execute Query step (at least one is required), the following form opens:

The screenshot shows the 'Edit Definition' form for an 'Execute Query' step in the ACTIVE Governance interface. The form is titled 'Control Monitor | Workflow Routing | Workflow Definition' and includes a breadcrumb trail: 'Home > List Control Monitors > Invoice Above Limit > Edit Definition > Add Step'. The form fields are as follows:

- Type:** Execute Query (with a note: 'This step requires at least one custom parameter')
- Name:** ExcessiveInvoiceRecords
- SQL:** A text area containing the following SQL query:


```
select 'Invoice amount too great' suspectName,
       'Invoice '||invoice_num|| 'may exceed acceptable value'
       suspectDesc,
       'The invoice '||invoice_num|| 'is valued at '||invoice_amount||
       ', but the value threshold has been set at '||ThresholdParm||
       . Please review: 'suspectInfo,
       invoice_num uniqueSuspectIdentifier
       from ap_invoices_all
```

 Below the text area, it shows '3485 characters left'.
- Save to:** InvoiceAboveLimitOutput (Custom)
- DB Instance:** Newport

At the bottom of the form, there are buttons for 'Verify', 'Save', and 'Cancel'. A legend indicates that an asterisk (*) denotes a required field.

- 1 In the Name field, type a name for the step.
- 2 In the SQL box, type the SQL query. (Note the related field that tallies the number of characters you may use.) If you include Numeric or Character parameters in the query, use their ID values (not their names) to identify them, and precede each ID with an ampersand (&). If you include dimension names in the WHERE

clause, precede each with a dollar sign (\$). You may wish to review “SQL Queries in Control Monitors” (page 9).

- 3 The Save To list box presents the names (not IDs) of Custom parameters you’ve defined for the control monitor you are creating. Select one of them.
- 4 The DB Instance list box presents the names of database instances to which ACTIVE Governance is configured to connect. Select the one at which you want to direct your query.
- 5 Click on the Verify button. A message appears near the top middle of this panel to inform you that the SQL either is or is not correctly parsed.
- 6 After the SQL is verified, a link labeled Show Generated Sql appears next to the Verify button. You may click it to see a text box that displays the generated SQL (with, for example, parameter IDs replaced by default values for the parameters).
- 7 Click on the Save button. The focus returns to the Edit Definition panel, which now displays a row for the step.

If you choose a Create Task step (at least one is required), the following form opens:

The screenshot shows the 'Create Task' form in the ACTIVE Governance interface. The form is titled 'Create Task' and includes a description: 'This step creates Suspect Tasks for each value in the selected field'. It contains three main fields: 'Name' with the value 'Invoice Suspects', 'Field' with a dropdown menu showing 'InvoiceAboveLimitOutput (Custom)', and 'Maximum number of suspects per run' with the value '100'. There are 'Cancel' and 'Save' buttons at the bottom.

- 1 In the Name field, type a name for the step.
- 2 The Field list box presents the names of Custom parameters defined for this control monitor. Select one that is also named in an Execute Query step and so holds values returned by a SQL query.
- 3 In the Maximum Number of Suspects Per Run field, enter a number that determines how many suspects the control monitor can generate at one time. The default value is 1, and the maximum value is 999. Without this feature, a control monitor has the potential to generate a number of suspects large enough to degrade system performance, and so this feature is intended to preserve performance. If the number of suspects a monitor could generate is greater than the value you set here, a message to this effect appears in a View Automation Run panel, in which ACTIVE Governance presents the results of control-monitor runs. (This panel is accessible from the Control Library tab; see the *ACTIVE Governance Platform User’s Guide*.) In response to the message, you can run the monitor again.
- 4 Click on the Save button. The focus returns to the Edit Definition panel, which now displays a row for the step.

If you choose an Update Parameter step (which is optional), the following form opens:

The screenshot shows the 'ACTIVE Governance' interface. The breadcrumb trail is: Home > List Control Monitors > Invoice Above Limit > Edit Definition > Add Step. The form title is 'Update Parameter (This step updates the value of a parameter to another parameter or value)'. It contains the following fields:

- Name ***: A text input field.
- Parameter to be updated ***: A dropdown menu with the text '-- Choose One --'.
- New Value ***: A radio button labeled '-- Choose One --' and another radio button labeled 'Specific Value Or Expression'.
- Specific Value Or Expression**: A text input field below the second radio button.

At the bottom left, there is a legend: '* Required'. At the bottom center, there are 'Cancel' and 'Save' buttons.

- 1 In the Name field, type a name for the step.
- 2 The Parameter to Be Updated list box presents a list of parameters defined on your system. Select one whose value you want to reset.
- 3 Choose the value to which that parameter is to be reset. Do one of the following:
 - Click on the New Value radio button. In its list box, choose the name of a parameter that is to supply the new value. This parameter must be the same type as the parameter selected in the Parameter to Be Updated list box.
 - Click on the Specific Value or Expression radio button. Then, in the associated text box, enter either a fixed value or an expression, which may include a parameter or a SQL statement.
- 4 Click on the Save button. The focus returns to the Edit Definition panel, which now displays a row for the step.

Selecting a Workflow Override

Optionally, you can designate a workflow routing whose members have the exclusive ability to review suspect tasks generated by the control monitor you are configuring. If you do, this control monitor bypasses the ordinary workflow system, by which workflow definitions select workflow routings to be applied to suspects (as described in “Combining Priorities and Conditions in Workflow Definitions,” page 6).

To do this, simply select the workflow routing you want from a Workflow Override list box located in the Edit Definition panel. If you select *None* (the default setting), you allow the control monitor to remain subject to the ordinary workflow system.

Completing the Configuration

When you complete any of the configuration tasks — creating a parameter, step, or workflow override — the control monitor is saved in its Editing status (because you have saved its individual components as you created or edited them). At this point,

you can use the Edit Definition panel (shown on page 17) to perform these additional actions:

- Delete an individual parameter or step by clicking on the Delete link in its entry on the Edit Definition panel.
- Rearrange the order in which steps are to be completed: In the Sequence column of the Steps listing, renumber the steps to reflect the sequence you want, and then click on the Rearrange Steps button.
- Promote the control monitor from Editing to Active status by clicking on the Activate Control Monitor button. At this point the version of the control monitor that had been Active (if any) moves to the Inactive status. (Note that the Active version of a control monitor can be run only if it is attached to a control as an “automation.”)

Configuring a Workflow Routing

A workflow routing also implements a series of steps, each of which selects either users or groups charged with rendering decisions about suspect tasks, and may designate other users or groups who receive notification when a decision is made for each task. All receive suspect-review messages or notifications at the Task Inbox of the ACTIVE Governance Platform.

Those with authority to make decisions about a suspect may either “pass” it (determine that the situation under review is benign) or mark it as an “exception” (find that the situation is deleterious and warrants correction). A suspect must be passed at one step before it proceeds to the next. If it is marked as a exception, the workflow ends; reviewers identified in subsequent steps are not sent messages.

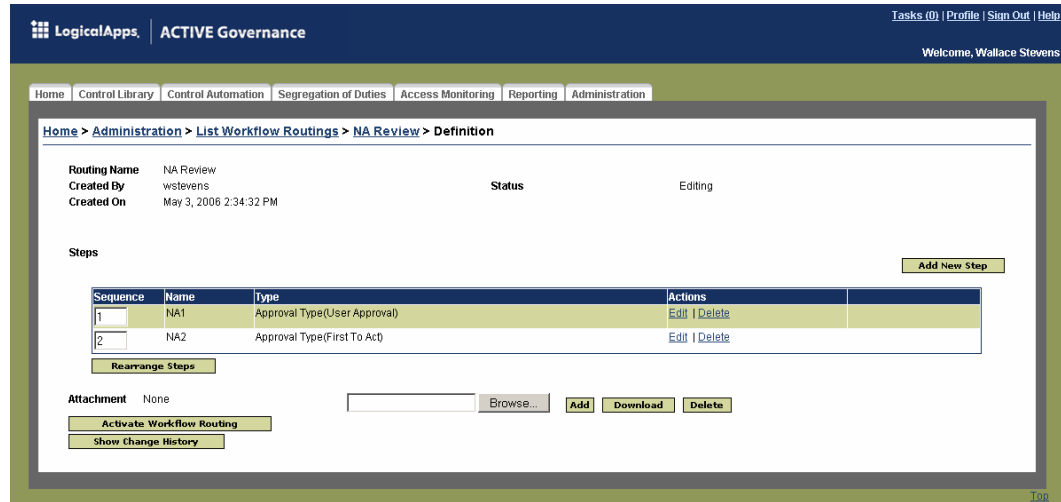
At each step, you can select one of three types of decision-makers:

- **Groups/First to Act:** All members of one or more groups receive messages that a suspect task is to be reviewed, but the first member to respond acts for everyone, either passing the task or marking it as an exception. After the first response, other members of the groups can no longer respond.
- **Groups/Requires All:** All members of one or more groups receive messages that a suspect task is to be reviewed. For the item to pass, all group members must pass it. A single exception decision causes the suspect to be marked as an exception and the workflow to end.
- **User:** One or more users receive messages that a suspect task is to be reviewed. If two or more users are designated, all must pass the task in order for the workflow to proceed to its next step. A single exception decision causes the suspect to be marked as an exception and the workflow to end.

Before you configure a workflow routing, the groups or users it is to call must already have been created. (See chapter 2 of the *ACTIVE Governance Platform User’s Guide*.)

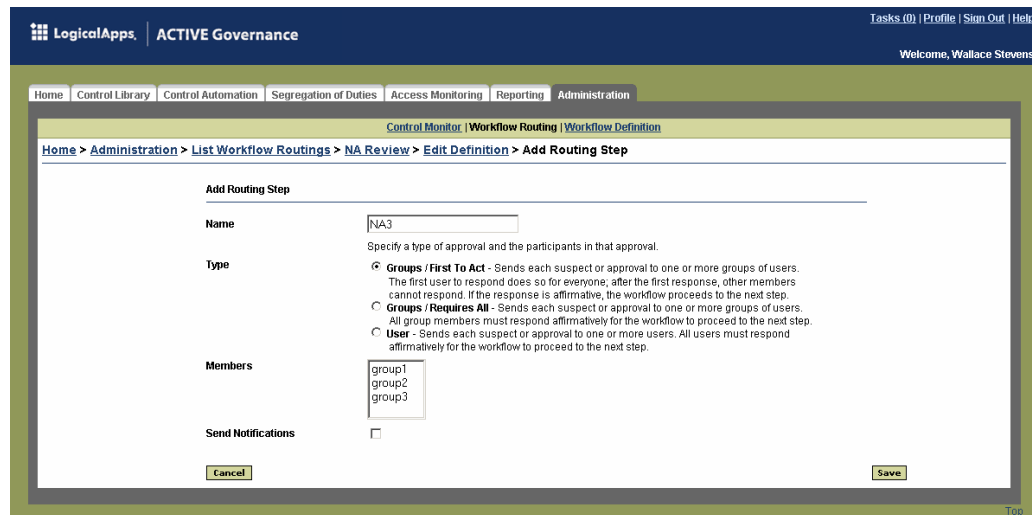
Once this is done, create a workflow routing (page 14) and open its Editing version (page 15), or open the Editing version of an existing routing. A Definition panel

appears, displaying a prompt to create new steps; if steps have already been created, the panel also lists them, with prompts to edit them. (This instance of the Definition panel is shown below. You can open a version of the routing at a status other than the Editing; in that case, the Definition panel lists its steps with prompts to view, but not change, their details.) The Definition panel also enables you to attach a document to the Editing version (page 24) or review change history (page 29) for any version.



To create or modify steps that designate reviewers:

- 1 Click on the Add New Step button to create a new step, or click on the Edit button in the listing for an existing step to modify it. The following form opens:



- 2 In the Name field, type a name for the step.
- 3 Select groups or users who can pass suspect tasks or mark them as exceptions: Click on one of the Type radio buttons to determine the reviewer type.

A list of values appears next to the Members label, displaying either groups or users (depending on the type selection you made). Highlight those you want: To highlight a single user or group, click on it. To highlight a continuous selection of users or groups, click on the first one, hold down the Shift key, and click on the

last one. To highlight a discontinuous selection of users or groups, hold down the Ctrl key as you click on items.

- 4 Optionally, select users or groups who are notified when actions are taken. Click on the Send Notifications check box.

Two more check boxes appear, one labeled On Approval and the other On Rejection/Exception. Click on either or both to designate those who will receive notifications of passed suspects, of exceptions, or of both.

Beneath each selected check box, a set of three radio buttons appears: Users, Groups, and Step's Members. Click on one.

If you select Step's Members, you need make no further selections; notifications will be sent to the users or groups already chosen in the Members field.

If you click on Users or Groups, a field appears, displaying names of users or groups; highlight those you want. Again, to highlight a single item, click on it. To highlight a continuous selection of items, click on the first one, hold down the Shift key, and click on the last one. To highlight a discontinuous selection, hold down the Ctrl key as you click on items.

- 5 Click on the Save button. The focus returns to the Definition panel, which now displays a row for the step.

When you finish creating steps, the workflow routing is saved in its Editing status (because you have saved its individual steps as you created or edited them). At this point, you can use the Definition panel to perform these additional actions:

- Delete a step by clicking on the Delete link in its entry.
- Rearrange the order in which steps are to be completed: In the Sequence column of the Steps listing, renumber the steps to reflect the sequence you want, and then click on the Rearrange Steps button.
- Promote the workflow routing from Editing to Active status by clicking on the Activate Workflow Routing button. If a prior version was already Active, it moves to the Inactive status.

If an earlier Active version was linked to a workflow definition, and you promote a new version to Active, the existing workflow definition does not apply to the newly Active routing. You must create a new workflow definition for it.

Attaching a Document

Optionally, you can attach a file to the Editing version of either a control monitor or a workflow routing, and then display the contents of the file. Typically, such a file documents what the control monitor or workflow routing does. Use a text editor, word processor, or similar application to prepare the file. Then complete the following steps:

- 1 Navigate to the Definition panel for the control monitor or workflow routing to which you want to attach a file.
- 2 Click on the Browse button in the Attachment area, near the lower center of the panel.
- 3 A Choose File dialog opens. Using standard Windows procedures, navigate to the file you want, click on its name, and then click on the Open button.
- 4 The path to the file appears in the text box next to the Browse button on the Definition panel. Click on the Add button. The name of the attached file appears next to the Attachment label.



- 5 To open and review the file, click on the Download button.

You can attach only one file at a time, but you can detach an existing file to make room for a new one. To do so, click on the Delete button. A confirmation message appears in a pop-up window; click on its Yes button.

Configuring a Workflow Definition

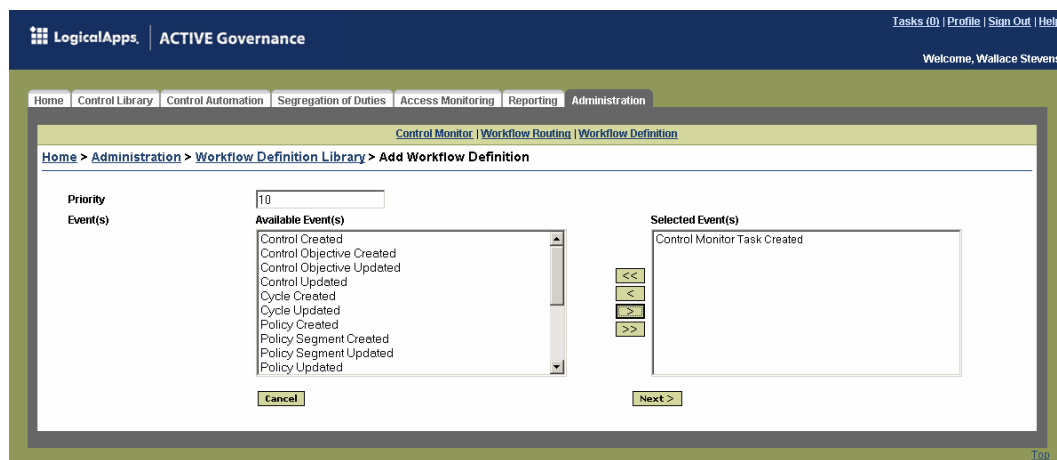
A workflow definition associates a workflow routing with controls, and so applies it to suspects generated by control monitors attached to those controls.

Click on the Control Automation tab and then on the Workflow Definitions link in the Library Navigator. A Workflow Definition Library panel displays an entry for each workflow routing with a version at the Active status, along with its description, the priority number of its workflow definition (if one has been assigned), and whether events and conditions have been assigned. Click on the name of the workflow routing for which you want to configure a definition.

Workflow Definition Name	Description	Priority	Events Defined	Conditions Defined
NA Review		0	No	No
Default Approval Workflow	This is the Default approval Workflow, will always create a task in Administrator's Task List.	1100	Yes	No

Selecting Priority and Events in a New Definition

If you have selected a workflow routing for which no definition yet exists, an Add Workflow Definition panel opens:



In this panel, you can select both priority and events. Do not select 0 as a priority; apart from that, you can select any number not already in use (you'll receive an error message if you do select a duplicate). You may wish to review “Combining Priorities and Conditions in Workflow Definitions” (page 6).

As discussed earlier, you always choose the Control Monitor Task Created event for a workflow intended to distribute suspect tasks for review. If, however, you combine this event with others in a multipurpose workflow, the combination of events determines the types of conditions you can configure. You may wish to review “Combining Events and Conditions in Workflow Definitions” (page 8).

To use the Add Workflow Definition panel to select a priority and events:

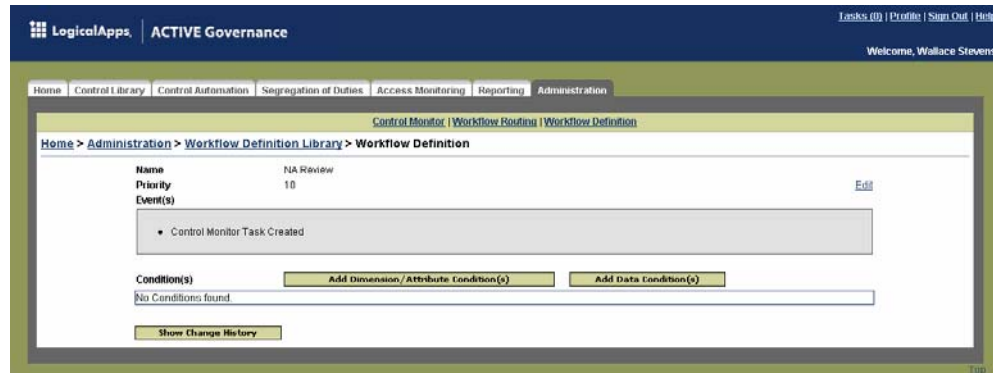
- 1** In the Priority field, delete the number 0 and type the priority number you want.
- 2** In the Available Events field, highlight the events you want to select. To highlight a single event, click on it. To highlight a continuous set of events, click on the first one, hold down the Shift key, and click on the last one. To highlight a discontinuous set, hold down the Ctrl key as you click on events.
- 3** Click on the > button to send the events you've highlighted from the Available Events field to the Selected Events field. Or, click on the >> button to send all events to the Selected Events field, regardless of whether they are highlighted.

If you reconsider, highlight events in the Selected Events field, then click on the < button to return them to the Available Events field. Or, click on the << button to return all events to the Available Events field, regardless of whether they are highlighted.

- 4** Click on the Next button. The Add Workflow Definition panel now summarizes your selections. If you are dissatisfied with any of them, click on the Back button to return to the previous panel; edit the values it displays and click on the Next button to return to this summary panel. When you are satisfied, click on the Finish button to complete the configuration of the priority and events.

Selecting Conditions for a New Definition

When you finish configuring priority and events, a Workflow Definition panel displays the values selected for the definition:



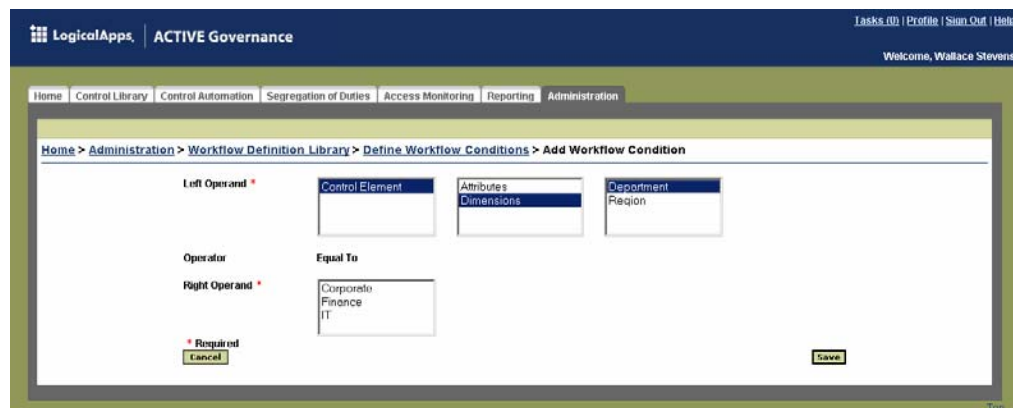
The panel presents buttons you can click to configure distinct types of conditions. The assortment of buttons varies depending on the events you've selected:

- If only the Control Monitor Task Created event is selected, the panel offers two buttons, for dimension/attribute conditions and data conditions.
- If the Control Monitor Task Created event is combined with one of the control-library events (such as Control Created), the panel presents only the dimension/attribute condition button, and you can create only that type of condition.
- If the Control Monitor Task Created event is combined with any of the access-request events (with or without control-library events) the panel presents no condition buttons, and you cannot create conditions.

The conditions you create are joined by an AND connector. All must evaluate to true (and the workflow must have a higher priority than other eligible workflows) for the workflow routing associated with this definition to be used.

A dimension/attribute condition states that a dimension or attribute equals a particular value; the workflow may map to a control assigned a dimension or attribute with the same value. To select dimension/attribute conditions:

- 1 Click on the Add Dimension/Attribute Conditions button. An Add Workflow Condition panel appears:



- 2 As a Left Operand, select a dimension or attribute. The leftmost box always reads Control Element; click on either Dimension or Attribute in the middle box. According to your selection, the rightmost box displays either the dimensions or attributes configured on your system; click on one of them.
- 3 Accept the default, Equals, as the Operator value. (You cannot change it.)
- 4 The Right Operand box displays the values for the dimension or attribute you selected as a left operand; click on one of them.
- 5 Click on the Save button. The focus returns to the Workflow Definition panel, with the new condition added to the list.

To filter the suspects returned by a control monitor, you can add data conditions. Each specifies a value that can be held in a column returned by a SQL query in the control monitor; the workflow routing may map to suspects containing that value in that column. To add a data condition:

- 1 Click on the Add Data Conditions button, or click on the Edit link for an existing data condition. Another Add Workflow Condition panel appears (as shown at the top of the next page):

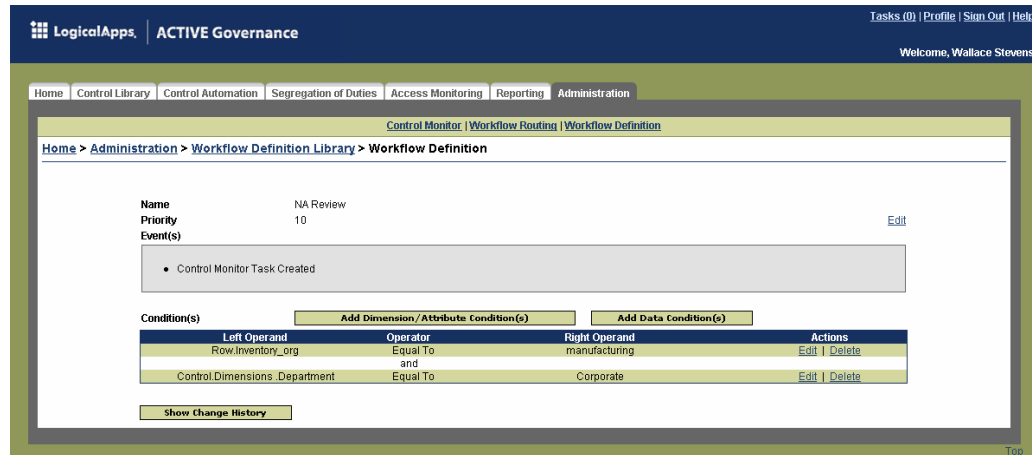
The screenshot shows a web application interface for 'LogicalApps | ACTIVE Governance'. The user is logged in as 'Wallace Stevens'. The navigation menu includes 'Home', 'Control Library', 'Control Automation', 'Segregation of Duties', 'Access Monitoring', 'Reporting', and 'Administration'. The current page is 'Add Workflow Condition', reached via the breadcrumb path: 'Home > Administration > Workflow Definition Library > Define Workflow Conditions > Add Workflow Condition'. The form contains three fields: 'Column Name' (text input), 'Operator' (dropdown menu set to 'Equal To'), and 'Column Value' (text input). There is a red asterisk and the word 'Required' next to the 'Column Value' field. At the bottom of the form are 'Cancel' and 'Save' buttons.

- 2 In the Column Name field, type the name of a column that returns values in the SQL query for a control monitor. (Ensure that the control monitor is attached as an “automation” to controls to which this workflow definition applies.)
- 3 In the Operator field, choose among five values: Equals, Less Than, Greater Than, Less Than or Equal To, or Greater Than or Equal To. Each value applies either to numeric and text values.

If, for example, the Column Name field specifies a column that holds numeric values, a Less Than operator would select records for which the number held in that column is smaller than a number entered in the Column Value field; a Greater Than operator would select records for which the number is larger. Or, if the Column Name field specifies a column that holds text values, a Less Than operator would select records for which the text string held in that column comes earlier in alphabetic order than a string entered in the Column Value field; a Greater Than operator would select records for which the text string comes later.

- 4 In the Column Value field, type the filtering value. It must, of course, be the same type (numeric or text) as values contained in the column specified by the Column Name field.

- 5 Click on the Save button. The focus returns to the Workflow Definition panel, with the new condition added to the list.



Because you have saved individual elements of the workflow definition as you created them, the definition itself requires no further saving. It is ready for use.

Editing an Existing Definition

To edit a workflow definition, select it in the Workflow Definition Library panel (page 24). This takes you directly to the Workflow Definition panel that displays the configured values for the definition you've selected (as shown in the illustration above).

You can always modify the priority assigned to a workflow (providing that the new priority value is not already taken by another workflow). However, once you have configured an original set of events for a workflow definition, you cannot subsequently add or remove events if you have also configured conditions for the definition. To edit the selection of events for a workflow definition, you must first delete its conditions. To do this, click on the Delete link in the row for each condition.

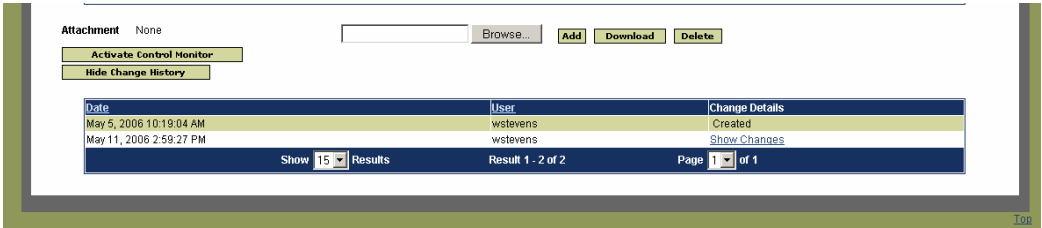
To edit priority or events, click on the Edit link in the Workflow Definition panel. (As shown in the illustration above, this link is toward the upper right of the panel, aligned horizontally with the Priority field). This opens an Edit Workflow Definition panel; apart from its label, it's the same as the Add Workflow Definition panel, except that it shows the values already selected for the definition, and the event fields are read-only if you have not deleted the conditions associated with the definition. Use the Edit Workflow Definition panel as you would the Add Workflow Definition panel (see page 25).

To edit a condition, click on the Edit link in its row on the Workflow Definition panel. This opens one of two Edit Workflow Condition panels — one for data conditions and the other for dimension/attribute conditions. Each of these, label aside, is the same as the corresponding Add Workflow Condition panel except, once again, that it displays the values already configured for the condition. Use these panels as you would the Add Workflow Condition panels (see page 26). You can also delete conditions (as discussed above) or use the Add buttons to add new conditions.

Reviewing Change History

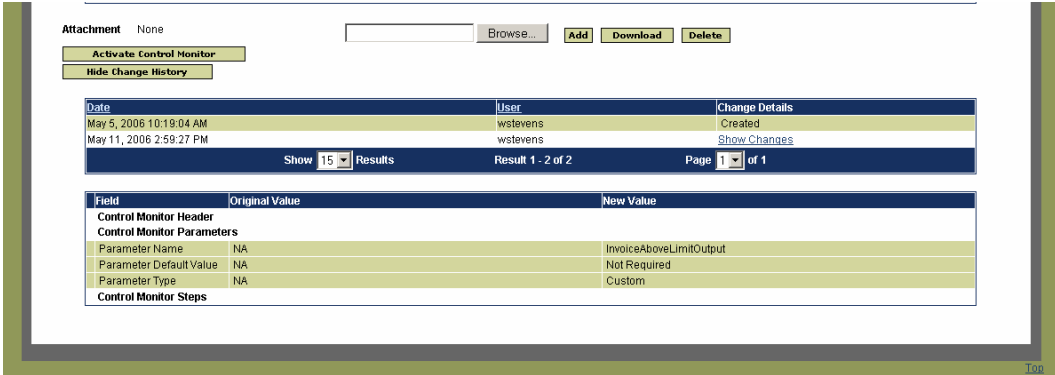
For each version of a control monitor or a workflow routing, or for any workflow definition (which of course corresponds to the Active version of a workflow routing), you can view a history of the changes made to the item:

- 1 Open the panel from which change history can be viewed:
 - For a control monitor, this is the Edit Definition panel (for a version at the Editing status) or the View Definition panel (for a version at any other status). See “Editing a Control Monitor or Workflow Routing” (page 15) for information on opening these panels.
 - For a workflow routing, this is the Definition panel. See “Editing a Control Monitor or Workflow Routing” (page 15) for information on opening this panel.
 - For a workflow definition, this is the Workflow Definition panel (shown on the facing page, and opened from the Workflow Definition Library panel, page 24.)
- 2 Click on the Show Change History button. A grid appears at the bottom of the panel, displaying a row for each time changes were saved for a control monitor, workflow routing, or workflow definition. Each row shows the date and time on which changes were saved, and identifies the user who made the changes.



- 3 The first row in the grid documents the creation of the item; it’s read-only, and it displays a static value, “Created,” in a Change Details Column. Each subsequent row documents a change, which may in fact involve modifications to several related fields. To view details about such modifications, click on the Show Details link in the Change Details column for one of these rows.

A second grid appears, displaying the old and new values for each modified field associated with the row you selected.



This grid categorizes the changes according to whether they have been made to the “header” (the name and status of an item), the parameters, the steps, or other miscellaneous items (such as attachments).

- 4 Click on the Show Details link in other rows to view old and new values for changes saved at other moments. Or, to close both grids, click on the Hide Change History button.

Updating Priority Values

You may create a large number of workflows, each, of course, incorporating a definition that includes a unique priority number. You may then identify a need to create a new workflow whose priority must be set at some point amid the values that have already been taken. This may require that the priorities assigned to many workflows be reset (if, for example, one thousand existing workflows have consecutive priority numbers, and you need to create a new workflow with a priority of, say, 15).

ACTIVE Policy Governor enables you to reset the priorities of any number of workflows at once, rather than edit individual workflow definitions. To do so:

- 1 Click on the Administration tab in the ACTIVE Governance Platform. This opens an Administration Home panel; in it, locate the Workflow Administration section and click on the Manage Workflow Priorities link. An Update Workflow Priorities panel appears:

The screenshot shows the 'Update Workflow Priorities' panel within the ACTIVE Governance Platform. The panel has a breadcrumb trail: Home > Administration > Update Workflow Priorities. It displays the following information and controls:

- Current Min Priority: 1
- Current Max Priority: 1000
- Increment Size * (input field)
- Starting Priority * (input field)
- * Required
- Buttons: Cancel, Update Priorities

- 2 Review information about your current priority configuration:
 - The Current Min Priority field shows the smallest priority value (and therefore actually the highest priority) assigned to an existing workflow definition.
 - The Current Max Priority field shows the largest priority value (and therefore the lowest priority) assigned to an existing workflow definition.
- 3 In the Starting Priority field, type the existing number of the first priority you want to reset to a new value. In the example above, you want to create a new workflow at priority 15. So the first priority you need to reset is for the workflow currently at 15. It and subsequent priorities will increase by an amount to be determined in the next step.
- 4 In the Increment Size field, type the number of openings you want to create at the starting point.

In the example above, you're creating one new workflow, so you need one opening for it, and would enter the value 1 in the Increment Size field. The workflow whose priority was originally at 15 would move to 16, and subsequent priorities would also be increased by one.

But if, instead, you had two new workflows to create and wanted to assign them priorities 15 and 16, you would enter 2 here; the existing number 15 would then become 17, and subsequent priorities would be renumbered accordingly.

- 5** Click on the Update Priorities button.

