APAR: IV33033
Symptom: Option to provide justification for all types of requests.

The following document gives the overview of this new feature.

We have provided an option for justification for following request types via UI and API.
1. Account Add, Modify, Suspend, Restore, Delete
2. Person Add, Modify, Suspend, Restore, Delete, Transfer
2. Access Add, Remove
3. Multi Account Suspend/Restore/Delete
4. Multi User Suspend/Restore/Delete

Following properties have been introduced to make use of this feature.
1. **enrole.justificationRequired** in $ISIM_HOME/data/enRole.properties file.
    This property decides whether justification field displayed on UI is mandatory
    or not. By default, this property is set to false.

2. **ui.displayJustification** in $ISIM_HOME/data/ui.properties file for console and
    $ISIM_HOME/data/SelfServiceUI.properties file for SSUI.
    This property decides whether justification field is to be displayed on UI or
    not. By default, this property is set to false.

If property 'enrole.justificationRequired' is set to true (i.e. justification is treated as mandatory), then
justification field will always be displayed on UI regardless of 'ui.displayJustification' property.
If property 'enrole.justificationRequired' is set to false (i.e. justification is not treated as mandatory), then
justification field will only be displayed on UI if property 'ui.displayJustification' is set to true.
By default, both the properties are set to false and this means that justification field will not be displayed
on UI.

New APIs
Following new APIs have been introduced as part of this fix.
com.ibm.itim.app.identity.PersonManager
1. createPerson(OrganizationalContainerMO, Person, java.util.Date, java.lang.String justification)
2. createPerson(OrganizationalContainerMO, Person, Set<RoleAssignmentObject> assignmentData,
    java.util.Date, java.lang.String justification)
3. remove(java.util.Collection, java.util.Date, java.lang.String justification)
4. restore(java.util.Collection, java.util.Date, java.lang.String justification)
4. suspend(java.util.Collection, java.util.Date, java.lang.String justification)
5. unManage(java.util.Collection, java.util.Date, java.lang.String justification)

com.ibm.itim.apps.identity.PersonMO
1. remove(java.util.Date, java.lang.String justification)
2. restore(java.util.Date, java.lang.String justification)
3. suspend(java.util.Date, java.lang.String justification)
4. transfer(OrganizationalContainerMO, java.util.Date, java.lang.String justification)
5. update(Person, java.util.Date, java.lang.String justification)
6. update(Person, Set<RoleAssignmentObject> assignmentData, java.util.Date, java.lang.String
    justification)
7. unManage(java.util.Date, java.lang.String justification)

com.ibm.itim.apps.provisioning.AccountManager
1. remove(java.util.Collection, java.util.Date, java.lang.String justification)

2. restore(java.util.Collection, java.util.Date, java.lang.String justification)
3. restore(java.util.Collection, java.lang.String, java.util.Date, java.lang.String justification)
4. suspend(java.util.Collection, java.util.Date, java.lang.String justification)
5. createAccount(PersonMO, ServiceMO, Account, java.util.Date, java.lang.String
   justification)
6. createAccount(PersonMO, ServiceMO, String ownershipType, Account, java.util.Date,
   java.lang.String justification)

com.ibm.itim.apps.provisioning.AccountMO
1. remove(java.util.Date, java.lang.String justification)
2. restore(java.lang.String, java.util.Date, java.lang.String justification)
3. suspend(java.util.Date, java.lang.String justification)
4. update(Account, java.util.Date, java.lang.String justification)

com.ibm.itim.workflow.model.AssignmentEntity
1. complete(DistinguishedName, ActivityResult, java.lang.String justification)

com.ibm.itim.apps.workflow.WorkflowAssignmentMO
1.complete(ActivityResult, java.lang.String justification)

Please note that, if property 'enrole.justificationRequired' is set to true in
$ISIM_HOME/data/enRole.properties file, then existing APIs which do not take justification parameter will
fail with ApplicationException. Customers will have to use new APIs that take the justification parameter.

Activity specific justification
Activity specific justification has been implemented for Approval, RFI and Workorder. We have
provided a justification field for grouped as well as individual activities.

When a process/activity is submitted with justification, justification gets stored in PROCESSLOG table
under a new event type "JF"(JustificationFieldValueItem). The justification provided by user gets
displayed in View Requests pages for the corresponding process/activity.

SSUI Support
To support this new functionality in SSUI, following additional labels have been introduced in
$ISIM_HOME/data/SelfServiceScreenText.properties file.
The new labels will have to be added to the existing properties files manually. Also you will have to
translate the labels into different languages and update the corresponding properties files if you require
this feature on all languages installed on your setup.

<new labels to be added in SelfServiceScreenText.properties>
acctchange_description_tabs_clicknext=Change the account information below. When you are done
changing information on each tab, click Next.
acctchange_description_notabs_clicknext=Change the account information below. When you are done
changing information, click Next.
profilechange_description_tabs_clicknext=Change the profile information below. When you are done
reviewing and changing information on each tab, click Next.
profilechange_description_notabs_clicknext=Change the profile information below. When you are done
changing information, click Next.
activity_description_provideinfotabs_clicknext=Provide the information below. When you are done
entering information on each tab, click Next.
justification_title=Justification
</new labels to be added in SelfServiceScreenText.properties>

New Javascript Extension

A new javascript extension, "**com.ibm.itim.script.extensions.ProcessLogExtension",** has been introduced to allow read access for justification in order to facilitate its usage in email notifications and workflow.

To make use of the newly added javascript extension, you need to register the same in $ISIM_HOME/data/scriptframework.properties file, for host components Workflow and Notification as shown below -

1. Workflow Component -

ITIM.extension.Workflow.processLog=com.ibm.itim.script.extensions.ProcessLogExtension

2. Notification Component -

ITIM.extension.Notification.processLog=com.ibm.itim.script.extensions.ProcessLogExtension

Additionally, please make sure to add following line in $ISIM_HOME/data/scriptframework.properties file. This is necessary because the javascript extension returns an ArrayList.

ITIM.java.access.util=java.util.ArrayList

Following javascript extensions have been introduced:

1. ProcessLog.getJustificationByProcess(processid);
This will retrieve the justification for the given process.
Arguments
      processid - String representing the generated unique identifier of the
              process for which you want to retrieve justification.

  Usage
```
var list = ProcessLog.getJustificationByProcess(process.guid);
var justification = "";
if(list != null && list.size() > 0) {
        justification=list.get(0);
}
```

2. ProcessLog.getJustificationByActivity(activityid);
This will retrieve the justification for the given activity.
Arguments
      activityid - String representing the generated unique identifier of the
              activity for which you want to retrieve justification.

  Usage
```
var list = ProcessLog.getJustificationByActivity(activity.guid);
var justification = "";
if(list != null && list.size() > 0) {
        justification=list.get(0);
}
```