Bioinformatics Integration Support Contract (BISC)

IMMPORT ADMIN FUNCTIONAL REQUIREMENTS

Version 1.0
Period Of Performance: September 30, 2012 to September 29, 2017

Project Sponsor:
National Institutes of Health (NIH)
National Institute of Allergy and Infectious Diseases (NIAID)
Division of Allergy, Immunology, and Transplantation (DAIT)

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## ImmPort Private Functional Requirements Version History

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<thead>
<tr>
<th>Version</th>
<th>Date</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.0</td>
<td>3/31/2016</td>
<td>Initial version of the ImmPort 3.0 Administrative requirements</td>
</tr>
</tbody>
</table>
1.1 **USER MANAGEMENT AND AUTHENTICATION**

1.1.1 **Description**
The Manage User design artifacts model system administration capabilities, which include allowing users to request system access (register) creating user accounts, updating user information, querying users, and deactivating users from the system.

1.1.2 **Detailed Design**

1.1.2.1 **Create/View/Update/Search User**

The Create/View/Update/Search User depicts the events for creating/viewing/updating/searching a user account. The system collects the user information and creates a user account, provided the submitted data are valid. Once the user information is collected the system will display the data while giving the user an option to update the information.

![Create New User For ImmPort](image)

1.1.2.2 **Create New User Use Case**

**Actor:** A user with the SECURITY_USER ROLE

**Pre-Conditions:** The actor has access to the User Administration
Post-Conditions: A user is created in the system with a default User Role and the default Roles of the Applications.

Steps:

1. The administrator clicks on the Create User menu link in the User Administration Application. The "Create New User" screen is displayed.
2. The administrator enters the user profile data.
3. The administrator selects the required applications for the user to have access.
4. The administrator clicks on Create User button.
5. The system creates a user in the system with Pending Status. This means the user is still not validated.
6. The system assigns the default roles of the specified Applications to the user and the default User Role.
7. The system creates a user in the ImmPort 2 database with Pending status. There is a trigger on the BISC_SECURITY.USER_INFO to populate the table in the DEVELOPER.USER_INFO schema. Please refer to the trigger TR_AIU_BISC_USER_INFO.
8. A unique verification code is created for the user and the status is set to "User token has been sent to the user and is pending verification.
9. An email is created with a link which contains the verification token and is sent to the email address registered on the account.
10. The system displays a message indicating that the user has been sent an email containing a link. The user will need to click the link to confirm his registration and summary of his profile.
11. The user receives a confirmation email with a link to create his password.
12. The user clicks on the link and is redirected to create a password.
13. The user enters a password and confirms the password then clicks “Save Password”.
14. The system sets the verification code to the status "User is verified" and the user account is activated.
15. The system displays a message indicating the password has been successfully set.
16. The user can then login to the original application with their username and password.

1.1.2.3 Assign Roles to the new user
Create New User For ImmpPort

A user account is created with the following information. A message will be sent to the user on the email account to set his password on the account.

- **User ID**: 923
- **Username**: sjones
- **First Name**: Sally
- **Middle Initial**: 
- **Last Name**: Jones
- **Organization**: BISC
- **Phone Number**: 301-258-7894
- **International Phone Number**: 
- **Email**: patricia.berger@ngc.com
- **How may ImmpPort assist your research efforts?**: I heard about ImmpPort from a talk/conference /colleague
- **Other reasons how ImmpPort may assist your research efforts?**: 
- **How did you learn of ImmpPort**: Colleague
- **List of applications requested access for**: 

Continue to assign roles to the user

User Profile for sjones

- **User ID**: 923
- **Username**: sjones
- **First Name**: Sally
- **Middle Initial**: 
- **Last Name**: Jones
- **Organization**: BISC
- **Phone Number**: 301-258-7894
- **International Phone Number**: 
- **Email**: patricia.berger@ngc.com
- **How may ImmpPort assist your research efforts?**: I heard about ImmpPort from a talk/conference /colleague
- **Other reasons how ImmpPort may assist your research efforts?**: 
- **How did you learn of ImmpPort**: Colleague

Applications/Roles/Groups the user has access to:

<table>
<thead>
<tr>
<th>Application Name</th>
<th>Group Names</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Edit Application Access</th>
<th>Edit Group Access</th>
</tr>
</thead>
</table>
1.1.2.4 Assign Roles to the new user Use Case

**Actor:** A user with the SECURITY_USER ROLE

**Pre-Conditions:** The actor has access to the User Administration Application

**Post-Conditions:** A user is created in the system with a default User Role and the default Roles of the Applications.

1. The administrator will click on the “Continue to assign roles to the user” button.
2. The “Search User” screen is displayed with the user details, applications, groups, and roles are assigned. The administrator has the ability to modify the user’s details, applications, groups and roles.

3. The administrator will click on the “Edit Application Access” button then select and move the applications to the selected column.

4. The administrator will click the “Save” button to save the request or “Cancel” button to cancel the request.

### 1.1.2.5 Email Activation Link has expired

The link in the email sent to you has expired. Click on the link below to send a new email to set your password on your ImmPort account.

Click here to send a new link to your email account.

A new password link was sent to your email for setting your password on your ImmPort account. Please click on the link to set your password.

### 1.1.2.6 Email Activation Link has expired Use Case

**Actor:** A user with a PENDING_USER ROLE

**Pre-Conditions:** The actor has access to the User Administration Application

**Post-Conditions:** A user is created in the system with a default User Role and the default Roles of the Applications.

1. The user clicks on the email link after the configurable expiration period.
2. The system displays a message stating the email link has expired and a new link is provided to receive a new email with a new activation and create password link.
3. When the user clicks on the link, the system sends an email and displays a message stating an email has been sent.

**Business Rules:**
- The Email Address and Login Name will be used to avoid duplication of the users in the database.
- The business rule for the Use Case Register User also applies.
- The password rules are
  - The password rules be:
    - The password must contain a minimum of 8 characters.
    - Passwords must use at least three of the four available character types: lowercase letters, uppercase letters, numbers, and symbols.
1.1.2.7  Search Users

The search user depicts the events for an administrator searching a user account based on certain criteria. After the search, the user may view/update more details about the selected user.
1.1.2.8 Search Users Use Case

Actor: A user with Admin Role.

Pre-Conditions: The user is logged in to the User Administration Application.

Post-Conditions: A list of users that match the criteria is displayed to the actor.

Steps:
1. The user clicks the Search User menu link in the User Administration Application or Search User from the ImmPort 2 Application.
2. The “Search User” screen is displayed.
3. The user enters the search criteria. The user can enter a few letters of the username or first name or middle name or last name or organization or status.
4. The system finds all the users matching the letters in any of the above mentioned fields.
5. The user can select a particular user from the dropdown and click on the enter button. The "User Detail" screen is displayed.

1.1.2.9 Update Profile

The update user depicts the events for an administrator updating a user account. Appropriate error messages are displayed if errors are encountered.
1.1.2.10  Update Profile Use Case

Actor: A user with Admin Role.

Pre-Conditions: The user is logged in to the User Administration Application.

Post-Conditions: A user’s profile will be updated.

1. The administrator clicks on the Update Profile Button. The Update Profile screen is displayed and admin makes the necessary modifications and clicks on the Save button.
2. The system displays the User Details screen with the changed data.

1.1.2.11  Deactivate User

The Deactivate depicts the events for deactivating a user account. Appropriate error messages are displayed if errors are encountered.
ImmPort Admin Functional Requirements

User Profile for sjones

User ID: 923
Username: sjones
First Name: Sally
Last Name: Jones
User Status: Active
Organization: BSC
Phone Number: 301-255-7894
International Phone Number: 
Email: patricia.berger@ngc.com
How may ImmPort assist your research efforts?
I heard about ImmPort from a talk/confERENCE /colleague.
Other reasons how ImmPort may assist your research efforts?

How did you learn of ImmPort
Colleague

Update Profile  De-Activate  Reset Password

---

User Profile for sjones

User ID: 923
Username: sjones
First Name: Sally
Last Name: Jones
User Status: Active
Organization: BSC
Phone Number: 301-255-7894
International Phone Number: 
Email: patricia.berger@ngc.com
How may ImmPort assist your research efforts?
I heard about ImmPort from a talk/confERENCE /colleague.
Other reasons how ImmPort may assist your research efforts?

How did you learn of ImmPort
Colleague

Do you want to de-activate the selected user? Please confirm.

OK  Cancel

---

User Profile for sjones

User ID: 923
Username: sjones
First Name: Sally
Last Name: Jones
User Status: Active
Organization: BSC
Phone Number: 301-255-7894
International Phone Number: 
Email: patricia.berger@ngc.com
How may ImmPort assist your research efforts?
I heard about ImmPort from a talk/confERENCE /colleague.
Other reasons how ImmPort may assist your research efforts?

How did you learn of ImmPort
Colleague

User is De-Activated

Prevent this page from creating additional dialogs

OK
1.1.2.12 Deactivate User Use Case

**Actor:** A user with Admin Role.

**Pre-Conditions:** The user is logged in to the User Administration Application.

**Post-Conditions:** A user is deactivated from the system.

**Steps:**

1. The admin clicks on the De-Activate Button. The De-activate button is only displayed if the user status is Pending or Active.
2. The system displays a message that the user is de-activated and the Status is changed to Inactive.

1.1.2.13 Activate User

The activate user depicts the events for activating a user account that has been deactivated in the past. Appropriate error messages are displayed if errors are encountered.
User Profile for sjones

User ID: 923
Username: sjones
First Name: Sally-O
Last Name: 
User Status: Active
Organization: BISC
Phone Number: 301-258-7964
International Phone Number: 
Email: patricia.berger@ngc.com
How may ImmPort assist your research efforts?
Other reasons how ImmPort may assist your research efforts?
How did you learn of ImmPort?

Colleague

Do you want to activate the selected user? Please confirm.

Update Profile  Activate

User Profile for sjones

User ID: 923
Username: sjones
First Name: Sally-O
Last Name: 
User Status: Active
Organization: BISC
Phone Number: 301-258-7964
International Phone Number: 
Email: patricia.berger@ngc.com
How may ImmPort assist your research efforts?
Other reasons how ImmPort may assist your research efforts?
How did you learn of ImmPort?

Colleague

User is Activated

OK

User Profile for sjones

User ID: 923
Username: sjones
First Name: Sally-O
Last Name: Jones
User Status: Active
Organization: BISC
Phone Number: 301-258-7964
International Phone Number: 
Email: patricia.berger@ngc.com
How may ImmPort assist your research efforts?
Other reasons how ImmPort may assist your research efforts?
How did you learn of ImmPort?

Colleague
1.1.2.14 **Activate User Use Case**

**Actor:** A user with Admin Role.

**Pre-Conditions:** The user is logged in to the User Administration Application.

**Post-Conditions:** A user will be activated in the system.

**Steps:**

1. The admin clicks on the Activate Button. The Activate button is only displayed if the user status is Pending or Inactive.
2. The system displays a message that the user is activated and the Status is changed to active.

1.1.2.15 **Reset Password**

The reset password depicts the events for resetting a user’s account when the user has forgotten their password. Appropriate error messages are displayed if errors are encountered.
Dear Cierra Smith,

The link below will allow you to reset the password on your ImmPort Account. [Click here to reset your password]

This is an automated message. Please do not reply to this email, but contact BISC_HELPDESK@mail.nih.gov if you have any questions.

---

Username: CSmith
New Password
Confirm Password
Save Password
Reset

---

Welcome to the ImmPort system

- ImmPort
  - Select ImmPort to submit data.
- Flow Analysis
  - The ImmPort Flow Analysis Module and FLOCK will help with your flow file analysis.
- Open ImmPort
  - Open ImmPort is your portal to shared study data.
- Cell Ontology
  - Cell Ontology Viewer is a new ImmPort tool for a visual representation of the Cell Ontology.
- Cytokine Registry
  - Head over to the Cytokine Registry to download a curated list of cytokines, chemokines and receptors.
- Flu Vaccine Analysis Tutorial
  - Flu Vaccine Analysis Tutorial will walk you through an example of re-analysis of shared data using R and Python.
- immuneXpresso
  - immuneXpresso knowledge base identifies semantically related cells, cytokines and their relationships to one another.

---

Dear Cierra Smith,

This email is sent to notify you that the password on the ImmPort account associated to this email has been changed.

This is an automated message. Please do not reply to this email, but contact BISC_HELPDESK@mail.nih.gov if you have any questions.

**1.1.2.16  Reset Password Use Case**
Actor: A user with Admin Role.

Pre-Conditions: The user is logged in to the User Administration Application.

Post-Conditions: A user will reset a user’s password.

Steps:

1. The admin clicks on the Reset Password Button. The Reset Password button is only displayed if the user status is Active.
2. The system displays a message that the user has been sent an email for resetting his password and user status is changed to Pending.
3. The user clicks on the URL link on the Reset Password Email.
4. The system displays the Reset Password screen
5. The user resets his password.
6. The system displays a Success Screen.

1.1.2.17 Delete User

The delete user depicts the events for deleting a user account. Appropriate error messages are displayed if errors are encountered.
1.1.2.18 Delete User Use Case

Actor: A user with Admin Role.

Pre-Conditions: The user is logged in to the User Administration Application.

Post-Conditions: A user will delete a user’s account.

Steps:

1. The admin clicks on the Delete User Button. The Delete User button is only displayed if the user is in Pending status.
2. The system deletes the user from the System and its related child elements.
3. The system displays a message that the user is deleted and the Search Screen is displayed.

1.1.2.19 Modify Application Access
Modify Application Access depicts the events for modifying application access. Appropriate error messages are displayed if errors are encountered.
<table>
<thead>
<tr>
<th>Available</th>
<th>Selected</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUTH_SERVER</td>
<td>SECURITY</td>
</tr>
<tr>
<td>IMPORTS</td>
<td>CURATION</td>
</tr>
<tr>
<td>DATA_BROWSER</td>
<td></td>
</tr>
<tr>
<td>SHARING</td>
<td></td>
</tr>
</tbody>
</table>

Applications have been assigned to the user.
1.1.2.20 Modify Application Access Use Case

**Actor:** A user with Admin Role.

**Pre-Conditions:** The user is logged in to the User Administration Application.

**Post-Conditions:** A user will have access to the appropriate application(s).

**Steps:**

2. The Edit Application Access screen is displayed.
3. The admin can assign access to an Application by moving the Application from the Available box to the Selected box.
4. The admin can remove access to an Application by moving the Application from the Selected box to the Available box.
5. The admin user clicks on the Save button.
6. The system assigns the Application in the Selected box and its corresponding default Group to the User.
7. The system removes access to the Applications in the Available box and its corresponding groups from the user.
1.1.2.21 Modify Group Access

Modify Group Access depicts the events for modifying group access. Appropriate error messages are displayed if errors are encountered.
<table>
<thead>
<tr>
<th>Available</th>
<th>Selected</th>
</tr>
</thead>
<tbody>
<tr>
<td>CURATION USERS</td>
<td>SECURITY USERS</td>
</tr>
</tbody>
</table>

- Save
- Cancel

Groups have been assigned to the user.

- OK
1.1.2.22  Modify Group Access Use Case

**Actor:** A user with Admin Role.

**Pre-Conditions:** The user is logged in to the User Administration Application.

**Post-Conditions:** A user will have group access to the appropriate application(s).

**Steps:**

1. The admin clicks on the Edit Group Access Button.
2. The Edit Group Access screen is displayed.
3. The admin can assign access to a Group by moving the Group from the Available box to the Selected box.
4. The admin can remove access to a Group by moving the Group from the Selected box to the Available box.
5. The admin user clicks on the Save button.
6. The system assigns the Groups in the Selected box to the User.
7. The system removes access to the Groups in the Available box from the user.
8. The Groups are that assigned to the user are displayed against their corresponding Applications in the User Detail page.
1.1.2.23 Add a Role

Add a Role depicts the events for allowing the Admin Role to add a role in the ImmPort3 Ecosystem. Appropriate error messages are displayed if errors are encountered.
1.1.2.24 Add a Role Use Case

**Actor:** A user with Admin Role.

**Pre-Conditions:** The user is logged into the User Administration Application.

**Post-Conditions:** A role will be added to the ImmPort3 Ecosystem

**Steps:**

1. The list of roles is displayed on the Role Page
2. The admin clicks on the Create New Role button.
3. The admin enters the role name, description and the application it is associated to.
4. The admin clicks Save Role.
5. The system saves the role in the database and it is displayed in the list of roles

1.1.2.25 Modify a Role

Modify a Role depicts the events for allowing the Admin Role to modify a role in the ImmPort3 Ecosystem. Appropriate error messages are displayed if errors are encountered.
1.1.2.26 Modify a Role Use Case

Actor: A user with Admin Role.
Pre-Conditions: The user is logged into the User Administration Application.

Post-Conditions: A role will be modified in the ImmPort3 Ecosystem

Steps:

1. The admin double clicks a role name or role description.
2. The admin modifies the name or description in place.
3. The name and description is changed once the mouse looses focus on the cell.
4. The date last updated and last updated by is modified.

1.1.2.27 Delete a Role

Delete a Role depicts the events for allowing the Admin Role to delete a role in the ImmPort3 Ecosystem. Appropriate error messages are displayed if errors are encountered.
1.1.2.28 Delete a Role Use Case

**Actor:** A user with Admin Role.
Pre-Conditions: The user is logged into the User Administration Application.

Post-Conditions: A role will be deleted in the ImmPort3 Ecosystem

Steps:

1. The admin selects a Role.
2. The admin clicks on Deleted Selected.
3. If the role is not associated to Groups and Users, the role is deleted.
4. If it is associated, a message is displayed indicating the same.

1.1.3 Manage Groups
The user with Admin Role can add, delete and modify groups for the ImmPort Ecosystem.

1.1.3.1 Add a Group
Add a Group depicts the events for allowing the Admin Role to add a group in the ImmPort3 Ecosystem. Appropriate error messages are displayed if errors are encountered.
Create a New Group

Group Name: IMPORT3-ADMIN_USERS
Description: This is the default group for ImmPort3 Admin users
Application: IMPORT3

Save Group  Reset  Cancel

Group has been added.
1.1.3.2 Add a Group Use Case

Actor: A user with Admin Role.

Pre-Conditions: The user is logged into the User Administration Application.

Post-Conditions: A group will be added in the ImmPort3 Ecosystem

Steps:

1. The admin clicks on the Create New Group button.
2. The admin enters the group name, description and the application it is associated to.
3. The admin clicks Save Group.
4. The system saves the group in the database and it is displayed in the list of groups

1.1.3.3 Modify a Group

Modify a Group depicts the events for allowing the Admin Role to modify a group in the ImmPort3 Ecosystem. Appropriate error messages are displayed if errors are encountered.
1.1.3.4 **Modify a Group Use Case**

**Actor:** A user with Admin Role.

**Pre-Conditions:** The user is logged into the User Administration Application.
Post-Conditions: A group will be modified in the ImmPort3 Ecosystem

Steps:

1. The admin double clicks a group name or group description.
2. The admin modifies the name or description in place.
3. The name and description is changed once the mouse looses focus on the cell.
4. The date last updated and last updated by is modified.

1.1.3.5 Delete a Group

Delete a Group depicts the events for allowing the Admin Role to delete a group in the ImmPort3 Ecosystem. Appropriate error messages are displayed if errors are encountered.
1.1.3.6 Delete a Group Use Case
Actor: A user with Admin Role.

Pre-Conditions: The user is logged into the User Administration Application.

Post-Conditions: A group will be deleted in the ImmPort3 Ecosystem

Steps:
1. The admin selects a Group.
2. The admin clicks on Deleted Selected.
3. If the group is not associated to Users, the group is deleted.
4. If it is associated, a message is displayed indicating the same.

1.1.3.7 Show Roles and User associated to the Group

Show Roles and User associated to the Group depicts the events for allowing the Admin Role to view the roles and user associated to the group in the ImmPort3 Ecosystem. Appropriate error messages are displayed if errors are encountered.
1.1.3.8  **Show Roles and User associated to the Group Use Case**

**Actor:** A user with Admin Role.

**Pre-Conditions:** The user is logged into the User Administration Application.

**Post-Conditions:** An Admin is able to view the roles and user association to a group.

**Steps:**
1. The admin selects a group from the list.
2. The admin clicks on the Show Roles/Users associated to the Group.
3. The system display the roles and users associated to the Group.
1.1.3.9  Edit Roles associated to the Group

Edit Roles associated to the Group depicts the events for allowing the Admin Role to edit the roles and user associated to the group in the ImmPort3 Ecosystem. Appropriate error messages are displayed if errors are encountered.
### Edit Group Roles

<table>
<thead>
<tr>
<th>Available</th>
<th>Selected</th>
</tr>
</thead>
<tbody>
<tr>
<td>CURATION_USER</td>
<td>IMPORT3_USER</td>
</tr>
<tr>
<td>SECURITY_USER</td>
<td>DATA_BROWSER_ADMIN</td>
</tr>
<tr>
<td>AUTH_SERVER_USER</td>
<td></td>
</tr>
<tr>
<td>AUTH_SERVER_ADMIN</td>
<td></td>
</tr>
<tr>
<td>IMPORT3_ADMIN123</td>
<td></td>
</tr>
<tr>
<td>SHARING_USER</td>
<td></td>
</tr>
</tbody>
</table>

---

**Import3 Users**
- This is the default group.
- Created by: monteiro
- Created on: 02-26-2016 12:03:51

**Import3 Admin**
- This is a default group.
- Created by: patty-pan
- Created on: 03-09-2016 10:02:57

**Sharing Users**
- This group is created by monteiro.
- Created on: 07-06-2015 09:41:33

**Data Browser Admin**
- Created by: monteiro
- Created on: 12-08-2015 12:03:50

---

**Alert**

> Rules have been assigned to the group.

**OK**
### 1.1.3.10 Edit Roles associated to the Group Use Case

**Actor:** A user with Admin Role.

**Pre-Conditions:** The user is logged into the User Administration Application.

**Post-Conditions:** An Admin is able to edit the roles and user association to a group.

**Steps:**

1. The admin selects a group from the list.
2. The admin clicks on the Show Roles/Users associated to the Group.
3. The system displays the roles and users associated to the Group.
4. The admin clicks on the Edit Roles Associated to the Group button.
5. Please refer to the screens on how to modify the roles associated to a Group.

**Business Rules**

- A Group is assigned to a Particular Application.
- Every user by default will be assigned a role USER. This role will give the user basic access to the ImmPort Ecosystem.
- The different applications that belong to the ImmPort Ecosystem will be configured in the APPLICATION_INFO table. For example: The Sharing Application may have it's name configured as SHARING in the APPLICATION_INFO table.
- Groups will be configured by Applications. The group name will have the naming convention as `{APPLICATION_NAME}_{GROUPNAME}`. For example the SHARING application can have groups like SHARING_USER, SHARING_ADMINS, etc.
- The groups will be assigned roles. The role name will have the naming convention as `{APPLICATION_NAME}_{ROLENAME}`. For example the SHARING application can have groups like SHARING_USER, SHARING_ADMIN, etc.
• The groups will also be assigned to a user.
• The roles for a user will be retrieved via groups.

1.1.3.11 Add an Application

Add an Application depicts the events for allowing the Admin Role to add an application in the ImmPort3 Ecosystem. Appropriate error messages are displayed if errors are encountered.
1.1.3.12 Add an Application Use Case

**Actor:** A user with Admin Role.

**Pre-Conditions:** The user is logged into the User Administration Application.
**Post-Conditions:** An application will be created.

**Steps:**

1. The admin clicks on the Create New Application button.
2. The admin enters the application name, description, display name and URL.
3. The admin clicks Save Application.
4. The system saves the application in the database and it is displayed in the list of applications.

1.1.3.13  **Modify an Application**

Modify an Application depicts the events for allowing the Admin Role to modify an application in the ImmPort3 Ecosystem. Appropriate error messages are displayed if errors are encountered.
1.1.3.14  Modify an Application Use Case

Actor:  A user with Admin Role.

Pre-Conditions: The user is logged into the User Administration Application.

Post- Conditions: An application will be modified by the admin user.

Steps:

1. The admin double clicks an application name or application description.
2. The admin modifies the name or description or display name or URL in place.
3. The name and description is changed once the mouse looses focus on the cell.
4. The date last updated and last updated by is modified.

1.1.3.15  Delete an Application

Delete an Application depicts the events for allowing the Admin Role to delete an application in the ImmPort3 Ecosystem. Appropriate error messages are displayed if errors are encountered.
## ImmPort Admin Functional Requirements

### Applications in the ImmPort Ecosystem

<table>
<thead>
<tr>
<th>Application Id</th>
<th>Name</th>
<th>Description</th>
<th>Display Name</th>
<th>URL</th>
<th>Date Last Updated</th>
<th>Last Updated By</th>
</tr>
</thead>
<tbody>
<tr>
<td>24</td>
<td>SECURITY</td>
<td>This application will...</td>
<td>SECURITY APPLICATION</td>
<td></td>
<td></td>
<td>patty-po</td>
</tr>
<tr>
<td>23</td>
<td>CURATION</td>
<td>This application will...</td>
<td>CURATION APPLICATION</td>
<td></td>
<td></td>
<td>patty-po</td>
</tr>
<tr>
<td>62</td>
<td>NEW--IMPORT3--...</td>
<td>This application will...</td>
<td>DATA SUBMISSION</td>
<td>Submission Link</td>
<td>03-10-2016 13:03:32</td>
<td>patty-po</td>
</tr>
<tr>
<td>52</td>
<td>AUTH_SERVER</td>
<td>Authentication and...</td>
<td>AUTH SERVER</td>
<td></td>
<td>02-11-2016 12:29:59</td>
<td>patty-po</td>
</tr>
<tr>
<td>61</td>
<td>IMPORT3</td>
<td>Test</td>
<td></td>
<td></td>
<td>02-26-2016 15:47:40</td>
<td>frontiero</td>
</tr>
<tr>
<td>49</td>
<td>DATA_BROWSER</td>
<td>ImmPort Data Brow...</td>
<td>DATA BROWSER</td>
<td></td>
<td>12-08-2015 12:01:47</td>
<td>frontiero</td>
</tr>
<tr>
<td>22</td>
<td>SHARING</td>
<td>This application will...</td>
<td>SHARING APPLICATION</td>
<td></td>
<td>07-07-2015 09:44:33</td>
<td>frontiero</td>
</tr>
</tbody>
</table>

Total Items: 7 (Selected Items: 1)

---

Do you want to delete the selected applications? Please confirm.

[OK] [Cancel]

Create New Application

---

Version 1.0
1.1.3.16 Delete an Application Use Case

Actor: A user with Admin Role.

Pre-Conditions: The user is logged into the User Administration Application.

Post-Conditions: An application will be deleted by the admin user.

Steps:

1. The admin selects an Application.
2. The admin clicks on the “Deleted Selected” button
3. If the application is not associated to Users, the application is deleted.
4. If it is associated, an error message is displayed indicating the same.

1.1.3.17 Show Roles/Groups associated to the Application

Show Roles and User associated to the Group depicts the events for allowing the Admin Role to view the roles and user associated to the group in the ImmPort3 Ecosystem. Appropriate error messages are displayed if errors are encountered.
### Applications in the ImmPort Ecosystem

<table>
<thead>
<tr>
<th>Application Id</th>
<th>Name</th>
<th>Description</th>
<th>URL</th>
<th>Date Last Updated</th>
<th>Last Updated By</th>
</tr>
</thead>
<tbody>
<tr>
<td>24</td>
<td>SECURITY</td>
<td>This application will... SECURITY...</td>
<td></td>
<td>12-09-2015 11:41:32</td>
<td>patty-po</td>
</tr>
<tr>
<td>23</td>
<td>CURATION</td>
<td>This application will... CURATION...</td>
<td></td>
<td>12-09-2015 11:41:09</td>
<td>patty-po</td>
</tr>
<tr>
<td>52</td>
<td>AUTH_SERVER</td>
<td>Authentication and... AUTH...</td>
<td></td>
<td>02-11-2016 12:29:59</td>
<td>monterio</td>
</tr>
<tr>
<td>61</td>
<td>IMPORT3</td>
<td>Test weew weew import3 Weew...</td>
<td></td>
<td>02-25-2016 15:47:40</td>
<td>monterio</td>
</tr>
<tr>
<td>49</td>
<td>DATA_BROWSER</td>
<td>ImmPort Data Browser... DATA...</td>
<td></td>
<td>12-08-2015 12:01:47</td>
<td>monterio</td>
</tr>
<tr>
<td>22</td>
<td>SHARING</td>
<td>This application will... SHARING...</td>
<td></td>
<td>07-07-2015 09:44:33</td>
<td>monterio</td>
</tr>
</tbody>
</table>

Total Items: 6 (Selected Items: 1)

---

**Create New Application**

---

### The selected Application: IMPORT3

**Roles associated to the Application:**

<table>
<thead>
<tr>
<th>Role Name</th>
<th>Role Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>IMPORT3-ADMIN123</td>
<td>Test ROLE FOR IMPORT3-ADMIN123</td>
</tr>
<tr>
<td>IMPORT3_USER</td>
<td>This is the default role created for the application IMPORT3. This role will give the default access rights.</td>
</tr>
</tbody>
</table>

**Groups associated to the Application:**

<table>
<thead>
<tr>
<th>Group Name</th>
<th>Group Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>IMPORT3_USERS</td>
<td>This is the default group created for the application IMPORT3. This group will give the users associated to this group access to the default role12321123.</td>
</tr>
<tr>
<td>IMPORT3_ADMIN</td>
<td>This is a default group for Import3 Admin</td>
</tr>
</tbody>
</table>

**Users associated to the Application:**

<table>
<thead>
<tr>
<th>User Login Name</th>
<th>User Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>test-os</td>
<td>Patty疠ergency</td>
</tr>
</tbody>
</table>
1.1.3.18  Show Roles/Groups associated to the Application Use Case

**Actor:** A user with Admin Role.

**Pre-Conditions:** The user is logged into the User Administration Application.

**Post-Conditions:** An Admin is able to view the roles/groups associated to an application.

**Steps:**

1. The admin selects an application from the list.
2. The admin clicks on the Show Roles/Groups associated to the Application.
3. The system displays the roles and groups associated to the Application.

1.1.4  Manage Users

1.1.4.1  Users Registration

The User Registration depicts the events for requesting access to ImmPort. If the system encounters errors, the system will display the appropriate error message(s) to the user and state that his/her information could not be saved due to a system error and to contact the Helpdesk.
### BISC_SECURITY.USER_INFO

<table>
<thead>
<tr>
<th>Field</th>
<th>Developer.USER_INFO</th>
<th>Mapping</th>
</tr>
</thead>
<tbody>
<tr>
<td>USER_ID</td>
<td>USER_ID</td>
<td>Use the Sequence in the respective database</td>
</tr>
<tr>
<td>LAST_NAME</td>
<td>LAST_NAME</td>
<td>Maps equal</td>
</tr>
<tr>
<td>Field</td>
<td>Value</td>
<td></td>
</tr>
<tr>
<td>------------------------------</td>
<td>----------------------------------------------------------------------</td>
<td></td>
</tr>
<tr>
<td>SECRET_QUESTION_ID</td>
<td>Sets it to default value 1</td>
<td></td>
</tr>
<tr>
<td>MIDDLE_INITIAL</td>
<td>MIDDLE_INITIAL Maps equal</td>
<td></td>
</tr>
<tr>
<td>USER_COMMUNITY_ID</td>
<td>Set to default value LS</td>
<td></td>
</tr>
<tr>
<td>FIRST_NAME</td>
<td>FIRST_NAME Maps equal</td>
<td></td>
</tr>
<tr>
<td>EMAIL_ADDRESS</td>
<td>EMAIL_ADDRESS Maps equal</td>
<td></td>
</tr>
<tr>
<td>PASSWORD</td>
<td>PASSWORD Maps equal</td>
<td></td>
</tr>
<tr>
<td>SECRET_QUESTION_ANSWER</td>
<td>Set to default value 'Dummy Answer'</td>
<td></td>
</tr>
<tr>
<td>DATE_CREATED</td>
<td>DATE_CREATED Set to value = sysdate</td>
<td></td>
</tr>
<tr>
<td>DATE_LAST_UPDATED</td>
<td>DATE_LAST_UPDATED Set to value = sysdate</td>
<td></td>
</tr>
<tr>
<td>ORGANIZATION</td>
<td>ORGANIZATION Maps equal</td>
<td></td>
</tr>
<tr>
<td>LAST_UPDATED_BY</td>
<td>LAST_UPDATED_BY Set to value 'registeruser'</td>
<td></td>
</tr>
<tr>
<td>USERNAME</td>
<td>USER_LOGIN_NAME Maps equal</td>
<td></td>
</tr>
<tr>
<td>ADDRESS</td>
<td>Set to NULL</td>
<td></td>
</tr>
<tr>
<td>RESET_PASSWORD_FLAG</td>
<td>RESET_PASSWORD_FLAG Set to N</td>
<td></td>
</tr>
<tr>
<td>EMPLOYEE_ID</td>
<td>Set to NULL</td>
<td></td>
</tr>
<tr>
<td>APPROVED_BY</td>
<td>Set to NULL</td>
<td></td>
</tr>
<tr>
<td>CREATED_BY</td>
<td>Set to value 'registeruser'</td>
<td></td>
</tr>
<tr>
<td>AGREEMENT_DATE</td>
<td>Set to NULL</td>
<td></td>
</tr>
<tr>
<td>AGREEMENT_ACCEPTANCE</td>
<td>Set to NULL</td>
<td></td>
</tr>
<tr>
<td>DEPARTMENT</td>
<td>Set to NULL</td>
<td></td>
</tr>
<tr>
<td>PI_NAME</td>
<td>Set to NULL</td>
<td></td>
</tr>
<tr>
<td>INTL_PHONE_NUMBER_FLAG</td>
<td>When BISC_USER_INFOPHONE_NUMBER IS NULL OR EMPTY THEN 'Y' ELSE 'N' END</td>
<td></td>
</tr>
<tr>
<td>PHONE_NUMBER</td>
<td>if BISC_USER_INFO.PHONE_NUMBER IS NULLAND BISC_USER_INFO.INTL_PHONE_NUMBER IS NOT NULL THEN BISC_USER_INFO.INTL_PHONE_NUMBER else if BISC_USER_INFO.INTL_PHONE_NUMBER IS NULL</td>
<td></td>
</tr>
<tr>
<td>USER_STATUS</td>
<td>USER_STATUS_ID</td>
<td>CASE</td>
</tr>
<tr>
<td>---</td>
<td>---</td>
<td>---</td>
</tr>
<tr>
<td>REGISTER_REASONS</td>
<td>WHY_REGISTER</td>
<td>Maps equal</td>
</tr>
<tr>
<td>REFERRING_SOURCE</td>
<td>REFERENCE_ID</td>
<td>CASE</td>
</tr>
</tbody>
</table>
1.1.4.2 Users Registration Use Case

The User Registration describes the process for registering for a user account.

**Actor:** Any user without an account.

**Pre-Conditions:** The user is new to the system and registering for the first time

**Post-Conditions:** A user is created in the system with the default User Role.

**Steps:**

1. The user clicks on the Sign up Free or Register for ImmPort Link on the ImmPort Production site.
2. The system will direct the user to the User Administration Application.
3. A "Register User: Notice" screen is displayed, the user clicks on the Continue button.
4. The system will display the "Register User" screen.
5. The user enters profile data.
6. The user clicks on the Register button.
7. The system stores the created user account in Pending Status in the database.
8. The system creates a user in the ImmPort 2 database. There is a trigger on the BISC_SECURITY.USER_INFO to populate the table in the DEVELOPER.USER_INFO schema. Please refer to the trigger TR_AIU_BISC_USER_INFO.
9. A unique verification code is created for the user and the status is set to "User token has been sent to the user and is pending verification".
10. An email is created with a link which contains the verification token and is sent to the email address registered on the account.
11. The system displays a message indicating that the user has been sent a mail with a link and he will need to click the link to confirm his registration and summary of his profile as shown in User Profile Summary screen.
12. The user receives a confirmation email with a link as shown in the Email Confirmation screenshot.
13. The user clicks on the link and the system activates the account and Pending status is changed to Active Status.
14. The system sets the verification code to the status "User is verified".
15. The user is displayed the Account Activation screen.
16. The user can then login to the original application with his username and password.

1.1.4.3 Email Activation Link

The system will display a message when a user clicks the reset password link when it has already been clicked.

The password for this account was already set. If you want to reset your password again, please click on the Forgot Password link.

1.1.4.4 Email Activation Link Use Case (Used Link)

The Email Activation describes the process for a user to activate their account when they have already clicked the link to activate the account.

Actor: A user with an account.

Pre-Conditions: The user already activated their account.

Post- Conditions: A message is displayed to instruct the user to click on the “Forgot Password” link.

1. The user clicks on the email link again.
2. The system display the message that user is already activated.
3. The system displays the Account Already Activated Page.
1.1.4.5 Email Activation Link Expired

The Email Activation depicts the sequence when an activation link has expired.

The link in the email sent to you has expired. Click on the link below to send a new email to set your password on your ImmPort account.

Click here to send a new link to your email account.

A new password link was sent to your email for setting your password on your ImmPort account. Please click on the link to set your password.

1.1.4.6 Email Activation Link Use Case (Expired Link)

The Email Activation Link describes the process for registering a user account when the link expired.

Actor: A user with an account.

Pre-Conditions: The email link to activate the user’s account has expired.

Post-Conditions: A message is displayed to instruct the user to click on the new link.

1. The user clicks on the email link after the configurable expiration period.
2. The system displays the Email Activation Link Expired page which shows a message that the link has expired and a new link is provided to get a new email with an activation link.
3. When the user clicks on that link, the Email Sent Page is displayed.

Business Rules:

- The trigger TR_AIU_BISC_USER_INFO creates a user in the ImmPort 2 schema.
  1. Creates a user in the ImmPort 2 schema USER_INFO table.
  2. A contract grant is created with the name as first_name || '_' || last_name || '_' || user_id_immport || '_Contract' in the CONTRACT_GRANT_INFO table.
  3. The user is associated to the Contract Grant. (CG_USER_INFO)
  4. A project is created with the name as new.first_name || '_' || :new.last_name || '_Workspace' and it is associated to the Contract Grant that was created in step 2.
  5. The user is associated to the Project.(PROJECT_ASSIGNED_USER)

1.1.5 Manage Access

In order to log into the ImmPort system, a unique user-id is required with a password. These are created during the registration process or creation of an account. The password is restricted to 8-12 characters with one being a numeric value. Appropriate error messages are displayed, if applicable.
1.1.5.1 User Login-Not Validated

The User login – Not Validated depicts the sequence of events for a user that attempts to login without validation.

1.1.5.2 User Login-Not Validated Use Case

The use case describes the process of the user logging in for the first time before he is validated

**Actor:** Any user

**Pre-Conditions:** The user is logging in for the first time

**Post-Conditions:** An error message is displayed.

**Steps:**
1. The user accesses the application and logs into the system with his user name and password and clicks on the Login Button.
2. The System finds the user account in the database but it is not yet validated.
3. The system displays the Login Page with an Error message to the user "Invalid user name and password or you have failed to confirm your registration ".

1.1.5.3 User Login

The User Login depicts the sequence for a user to login to the system for the first time after validation.
1.1.5.4 User Login

The use case describes the process of the user logging in for the first time after validation

Actor: Any user

Pre-Conditions: The user is logging in for the first time.

Post-Conditions: The user is logged into the system.

Steps:
1. The user accesses the application and logs into the system with his/her user login name and password and clicks the Login Button.
2. The System displays the Agreement Screen based on the application.
3. The user clicks on the Continue button.
4. The user is logged into the System.

Business Rules:

- NIAID funded applications will be shown the agreement screen.

1.1.5.5 Forgot Password

The Forgot Password Sequence Diagram depicts the sequence of events for a user that has forgotten their username/password.
Dear Lynn Jones,

The link below will allow you to reset the password on your ImmPort Account.
Click here to reset your password

This is an automated message. Please do not reply to this email, but contact BISC_HELPDESK@email.mil.gov if you have any questions.
1.1.5.6  Forgot Password Use Case

The use case describes the process of the user resetting his password pre-login.

**Actor:** A user who has an account

**Pre-Conditions:** A valid user.

**Post-Conditions:** The user is logged into the system.

**Steps:**
1. The user accesses an application and clicks on the Forgot Password link.
2. The system displays a Forgot Password screen for the user to enter his email address.
3. The user enters his correct email address.
4. The user clicks on the Submit button, a Reset Password Email Link sent to the user's email page is displayed.
5. The system sends the user an email with a Reset Password URL link which contains a unique code.
6. The system changes the status of the user to Pending. The user cannot login to the applications at this point even if he remembers his password.
7. The user clicks on the URL link in his email. A Reset Password page is displayed.
8. The user happens to enter the same password as his previous one. The system displays an error message.
9. The user enters another password then clicks on the Save Password button.
10. The system updates the password and activates the User Account.

**Business Rules:**

- The URL link that is sent to the user will be valid only for a certain time.
- If the user does not use the URL link within a certain time limit, the link will expire.

1.1.5.7  **Update User Profile**

The Update User Profile depicts the sequence of events for a user that updates their profile.
1.1.5.8 Update User Profile Use Case

The use case describes the process of updating a specified user profile.

Actor: A user with an account

Pre-Conditions: The user is logged into the system.

Post-Conditions: The user profile is updated in the database.

Steps
1. The user clicks the Update Profile menu in the User Administration Application or any Other Application.
2. The user needs to login to the User Administration Application if they are coming from any other Application.
3. The "Update User Profile" screen is displayed.
4. The user can update any of the editable data fields
5. The user clicks on “Save” button.
6. The System updates the user information in the database.

**Business Rules:**
- The email address has to be unique.
- The trigger TR_AIU_BISC_USER_INFO updates the corresponding fields in the DEVELOPER.USER_INFO table.

1.1.5.9 **Change Password**

The Change Password depicts the sequence of events for a user to change their password.

![Change Password Interface]

1.1.5.10 **Change Password Use Case**

This use case describes the process of changing the password of the logged in user.
Actor: A user with an account.

Pre-Conditions: The user is logged into an Application

Post-Conditions: The user password is updated

Steps:
1. The user clicks the Change Password menu link of the Application they are in.
2. The System displays the Change Password screen.
3. The user clicks on the Change Password button
4. The System updates the user information in the database with the new encrypted password and shows the Change Password Success Page

Business Rule:
Current Password and New Password cannot be the same.
The trigger TR_AIU_BISC_USER_INFO updates the corresponding fields in the DEVELOPER.USER_INFO table.

1.2 PROGRAM, CONTRACT, PROJECT MANAGEMENT

1.2.1.1 Create Program
The create program diagrams depict the events for creating a program. Appropriate error messages are displayed if errors are encountered. Once the program is created, contracts are associated.
1.2.1.2  Create Program Use Case

The use case describes the process for creating a Program in the System.

**Actor:** A user with the BISCAdministrator Role

**Pre-Conditions** - The user is logged into the System.

**Post-Conditions** - A Program is created in the database.

**Steps:**
1. The user accesses the ImmPort 3 Application website and clicks on the Create Program Menu.
2. A "Create Program" screen is displayed.
3. The user enters the data and clicks on the Create Program button.
4. The System creates a new Program in the database.

**Business Rules:**

<table>
<thead>
<tr>
<th>Field Name</th>
<th>Field Type</th>
<th>Required</th>
<th>Editable</th>
<th>Business Rules/Preferred Values</th>
<th>Data Type</th>
<th>Database Table</th>
<th>Database Column</th>
</tr>
</thead>
</table>
1.2.1.3 Search Program

The search program diagrams depict the events for searching a program. Appropriate error messages are displayed if errors are encountered. The user is able to search on the Name, Program Category, Last Name, or First Name.

<table>
<thead>
<tr>
<th>Field Name</th>
<th>Field Type</th>
<th>Required</th>
<th>Editable</th>
<th>Business Rules/Preferred Values</th>
<th>Data Type</th>
<th>Database Table</th>
<th>Database Column</th>
</tr>
</thead>
<tbody>
<tr>
<td>Title</td>
<td>Textbox</td>
<td>NA</td>
<td>Y</td>
<td></td>
<td>Text</td>
<td>PROGRAM_INFO</td>
<td>TITLE</td>
</tr>
<tr>
<td>Description</td>
<td>Text area</td>
<td>Y</td>
<td>Y</td>
<td></td>
<td>Text</td>
<td>PROGRAM_INFO</td>
<td>PROGRAM_ABSTRACT</td>
</tr>
<tr>
<td>Category</td>
<td>Dropdown</td>
<td>Y</td>
<td>Y</td>
<td>List of Values: LK_PROGRAMCATEGORY</td>
<td>Text</td>
<td>PROGRAM_INFO</td>
<td>PROGRAMCATEGORY</td>
</tr>
<tr>
<td>Link</td>
<td>textbox</td>
<td>Y</td>
<td>Y</td>
<td>new</td>
<td>new</td>
<td>new</td>
<td></td>
</tr>
<tr>
<td>Start Date</td>
<td>Date</td>
<td>Y</td>
<td>Y</td>
<td></td>
<td>Date</td>
<td>PROGRAM_INFO</td>
<td>START_DATE</td>
</tr>
<tr>
<td>End Date</td>
<td>Date</td>
<td>Y</td>
<td>Y</td>
<td></td>
<td>Date</td>
<td>PROGRAM_INFO</td>
<td>END_DATE</td>
</tr>
<tr>
<td>Create</td>
<td>Button</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Reset</td>
<td>Button</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
A list of program search results is displayed. This allows the user to select a program to view or modify. In order to modify the search, click the “Modify Search” link.

<table>
<thead>
<tr>
<th>Field Name</th>
<th>Field Type</th>
<th>Required</th>
<th>Editable</th>
<th>Business Rules/Preferred Values</th>
<th>Data Type</th>
<th>Database Table</th>
<th>Database Column</th>
</tr>
</thead>
<tbody>
<tr>
<td>Modify Search</td>
<td>Link</td>
<td>NA</td>
<td>NA</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select Box</td>
<td>Checkbox / List Item</td>
<td>NA</td>
<td>NA</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Title</td>
<td>List Item</td>
<td>NA</td>
<td>NA</td>
<td>Link leads to View Program Details</td>
<td>Text</td>
<td>PROGRAM_INFO</td>
<td>TITLE</td>
</tr>
<tr>
<td>Category</td>
<td>List Item</td>
<td>NA</td>
<td>NA</td>
<td></td>
<td>Text</td>
<td>PROGRAM_INFO</td>
<td>PROGRAM_CATEGORY</td>
</tr>
<tr>
<td>Program/Project Officer</td>
<td>List Item</td>
<td>NA</td>
<td>NA</td>
<td></td>
<td>Text</td>
<td>PROGRAM_INFO</td>
<td>PROJECT_OFFICER</td>
</tr>
<tr>
<td>View Program Details</td>
<td>Button</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Update Program Details</td>
<td>Button</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### 1.2.1.4 Search Program Use Case

The use case describes the process for searching a program in the System.

**Actor:** A user with the BISCAuthorizer Role.

**Pre-Conditions** - The user is logged into the System.
Post-Conditions - A list of Programs that match the criteria are displayed.

Steps:
1. The user clicks on the Search Program Menu.
2. A "Search Program" screen is displayed
3. The user enters the search criteria and clicks on the Submit button.
4. The System displays a list of the Programs that match the criteria on the same page
5. The user can modify the search by clicking Modify Search link. The system clears out the existing search criteria and hides the search results table.
6. The user can select a Program and click on View Program Details button or the Update Program button

1.2.1.5 View Program Details

Program Details for BSC

<table>
<thead>
<tr>
<th>Field Name</th>
<th>Field Type</th>
<th>Required</th>
<th>Editable</th>
<th>Business Rules/Preferred Values</th>
<th>Data Type</th>
<th>Database Table</th>
<th>Database Column</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name</td>
<td>BSC</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Description</td>
<td>Projects related to BSC activities in the ImmPort</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Program Category</td>
<td>BSC</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>URL</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Start Date</td>
<td>01/01/2004</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>End Date</td>
<td>01/01/2010</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Date Last Updated</td>
<td>07/21/2011 19:38:36</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Last Updated By</td>
<td>SYSTEM</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Associated Personnels

<table>
<thead>
<tr>
<th>Last Name</th>
<th>First Name</th>
<th>Organization</th>
<th>Email</th>
<th>Role Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Butte</td>
<td>Atul</td>
<td>STANFORD UNIVERSITY</td>
<td><a href="mailto:abutte@stanford.edu">abutte@stanford.edu</a></td>
<td>PI</td>
</tr>
<tr>
<td>Yaoqi</td>
<td>Pi</td>
<td>DAIT</td>
<td><a href="mailto:alison_yao@yahoo.com">alison_yao@yahoo.com</a></td>
<td>PI</td>
</tr>
<tr>
<td>Wiser</td>
<td>Jeffrey</td>
<td>Northrop Grumman</td>
<td><a href="mailto:jeff.wiser@nrg.com">jeff.wiser@nrg.com</a></td>
<td>PI</td>
</tr>
<tr>
<td>Bergery</td>
<td>Patricia</td>
<td>BSC</td>
<td><a href="mailto:pberger@virusbr.org">pberger@virusbr.org</a></td>
<td>PI</td>
</tr>
<tr>
<td>Xiao</td>
<td>Ashley</td>
<td>DAIT</td>
<td><a href="mailto:asxia@mail.nih.gov">asxia@mail.nih.gov</a></td>
<td>PI</td>
</tr>
</tbody>
</table>

Associated Contract Grants

<table>
<thead>
<tr>
<th>Name</th>
<th>External Id</th>
<th>URL</th>
<th>Contract Grant Category</th>
</tr>
</thead>
<tbody>
<tr>
<td>ContractA</td>
<td>ContractA-123</td>
<td><a href="mailto:bisctestcontract@immport.com">bisctestcontract@immport.com</a></td>
<td>TEST</td>
</tr>
<tr>
<td>vince.contract</td>
<td>sss</td>
<td>sss</td>
<td>OTHER</td>
</tr>
</tbody>
</table>
The use case describes the details of the Program Details screen.

**Actor:** A user with the BISCAdministrator Role

**Pre-Conditions** - The user has clicked the View Program Details button on the Search Program screen or on the Title link.

**Post- Conditions** - The program details are displayed.

**Steps:**
1. A "Program Details" screen is displayed
2. The user clicks on the Update Program button.
3. The "Update Program Details" screen is displayed.
1.2.1.6 Update Program
The Update Program diagrams depict the events for updating a program. Appropriate error messages are displayed if errors are encountered.

<table>
<thead>
<tr>
<th>Field Name</th>
<th>Field Type</th>
<th>Required</th>
<th>Editable</th>
<th>Business Rules/Preferred Values</th>
<th>Data Type</th>
<th>Database Table</th>
<th>Database Column</th>
</tr>
</thead>
<tbody>
<tr>
<td>Title</td>
<td>Textbox</td>
<td>Y</td>
<td>Y</td>
<td></td>
<td>Text</td>
<td>PROGRAM_INFO</td>
<td>TITLE</td>
</tr>
<tr>
<td>Description</td>
<td>Text area</td>
<td>Y</td>
<td>Y</td>
<td></td>
<td>Text</td>
<td>PROGRAM_INFO</td>
<td>PROGRAM_ABSTRACT</td>
</tr>
<tr>
<td>Category</td>
<td>Dropdown</td>
<td>Y</td>
<td>Y</td>
<td></td>
<td>Text</td>
<td>PROGRAM_INFO</td>
<td>PROGRAM_CATEGORY</td>
</tr>
<tr>
<td>Link</td>
<td>textbox</td>
<td>Y</td>
<td>Y</td>
<td></td>
<td></td>
<td>new</td>
<td>new</td>
</tr>
<tr>
<td>Start Date</td>
<td>Date</td>
<td>Y</td>
<td>Y</td>
<td></td>
<td>Date</td>
<td>PROGRAM_INFO</td>
<td>START_DATE</td>
</tr>
<tr>
<td>End Date</td>
<td>Date</td>
<td>Y</td>
<td>Y</td>
<td></td>
<td>Date</td>
<td>PROGRAM_INFO</td>
<td>END_DATE</td>
</tr>
<tr>
<td>Program/Project Officer</td>
<td>Lookup</td>
<td>Y</td>
<td>Y</td>
<td></td>
<td>Text</td>
<td>PROGRAM_INFO</td>
<td>PROJECT_OFFICER</td>
</tr>
<tr>
<td>Deputy Program/Project Officer</td>
<td>Lookup</td>
<td>N</td>
<td>Y</td>
<td></td>
<td>Text</td>
<td>PROGRAM_INFO</td>
<td>DEPUTY_PROJECT_OFFICER</td>
</tr>
<tr>
<td>Save</td>
<td>Button</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Reset</td>
<td>Button</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### 1.2.1.7 Update a Program Class Diagram

The use case describes the process of updating a Program.

**Actor:** A user with the BISCAdministrator Role

**Pre-Conditions** - The user has clicked the Update Program button on the View Program Detail screen or on the "Search Program" screen.

**Post-Conditions** - The program details are updated in the database.

**Steps:**
1. The user modifies the data on the "Update Program Details" screen.
2. The user can associate the Program to new contract-grants.
3. The user clicks on the Update Program button.
4. The System updates the data in the database.

**Business Rules:**
1. **IMM3-ADM-BR3** - The Contract Grants being added to this Program will be disassociated from the existing Program that they belong to and will be associated to the current Program.

1.2.1.8 **Create Contract Grant**

The Add/Update Contract diagrams depict the events for adding and updating a contract. Appropriate error messages are displayed if errors are encountered. Once the contract is added, a Principal Investigator, Program Manager and Other Staff is associated with the contract. Once the associated users are added, a default project may be created. The associated users to the contract will obtain access to the default project.

![Create Contract Grant](image)

<table>
<thead>
<tr>
<th>Field Name</th>
<th>Field Type</th>
<th>Required</th>
<th>Editable</th>
<th>Business Rules/Preferred Values</th>
<th>Data Type</th>
<th>Database Table</th>
<th>Database Column</th>
</tr>
</thead>
<tbody>
<tr>
<td>Title</td>
<td>Textbox</td>
<td>Y</td>
<td>Y</td>
<td></td>
<td>Text</td>
<td>CONTRACT_GRANT_INFO</td>
<td>TITLE</td>
</tr>
<tr>
<td>Contract-Grant</td>
<td>Textbox</td>
<td>Y</td>
<td>Y</td>
<td></td>
<td>Text</td>
<td>CONTRACT_GRANT_INFO</td>
<td>CG_NUMBER</td>
</tr>
</tbody>
</table>
The use case describes the process of creating a Contract-Grant.

**Actor:** A user with the BISCAdministrator Role

**Pre-Conditions** - The user is logged into the System.

**Post-Conditions** - A contract-grant is created in the database

**Steps:**
1. A "Create Contract-Grant" screen is displayed.
2. The user enters data and also selects a Program to associate the Contract-Grant.
3. The user clicks on the Submit button.
4. The system creates a contract-grant in the database associates it the selected Program

**Business Rules:**

1.2.1.9 **Search Contract Grant**

The Search Contract diagrams depict the events for searching a contract. Appropriate error messages are displayed if errors are encountered. A user is able to search on the fields Title, Grant – Contract Number, Category, Start Date, End Date, ImmPort Access End Date, Principal Investigator, Associated Program Name or Status.
<table>
<thead>
<tr>
<th>Field Name</th>
<th>Field Type</th>
<th>Required</th>
<th>Editable</th>
<th>Business Rules/Preferred Values</th>
<th>Data Type</th>
<th>Database Table</th>
<th>Database Column</th>
</tr>
</thead>
<tbody>
<tr>
<td>Title</td>
<td>Textbox</td>
<td>NA</td>
<td>Y</td>
<td></td>
<td>Text</td>
<td>CONTRACT_GRANT_INFO</td>
<td>TITLE</td>
</tr>
<tr>
<td>Contract-Grant Number</td>
<td>Textbox</td>
<td>NA</td>
<td>Y</td>
<td></td>
<td>Text</td>
<td>CONTRACT_GRANT_INFO</td>
<td>CG_NUMBER</td>
</tr>
<tr>
<td>Contract-Grant Category</td>
<td>Dropdown</td>
<td>NA</td>
<td>Y</td>
<td></td>
<td>Text</td>
<td>CONTRACT_GRANT_INFO</td>
<td>CG_CATEGOR Y</td>
</tr>
<tr>
<td>Date Range</td>
<td>Two Date Fields</td>
<td>NA</td>
<td>Y</td>
<td>Check if the start date is in the range given</td>
<td>Date</td>
<td>CONTRACT_GRANT_INFO</td>
<td>START_DATE</td>
</tr>
<tr>
<td>Associated Program Name</td>
<td>Multi-Select List box</td>
<td>NA</td>
<td>Y</td>
<td></td>
<td>DATABASE</td>
<td>CONTRACT_GRANT_INFO</td>
<td>PROGRAM_ID</td>
</tr>
<tr>
<td>Search</td>
<td>Button</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Reset</td>
<td>Button</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### Field Name | Field Type | Required | Editable | Business Rules/Preferred Values | Data Type | Database Table | Database Column
--- | --- | --- | --- | --- | --- | --- | ---
Modify Search | Link | NA | NA | | | |
Select Box | Checkbox/List Item | NA | NA | | | |
Contract-Grant Number | List Item/Link | NA | NA | Clicking on the link displays the Contract-Grant details | Text | CONTRACT_GRANT_INFO | CG_NUMBER
Title | List Item | NA | NA | | Text | CONTRACT_GRANT_INFO | TITLE
Category | List Item | NA | NA | | Text | CONTRACT_GRANT_INFO | CGCATEGORY
Program | List Item | NA | NA | | Number | CONTRACT_GRANT_INFO | PROGRAM_ID
Principal Investigator | List Item | NA | NA | | | |
End Date | List Item | NA | NA | | Date | CONTRACT_GRANT_INFO | END_DATE
View Contract-Grant Details | Button | | | | | |
Update Contract-Grant | Button | | | | | |
The use case describes the process of searching for a specific Contract-Grant.

**Actor:** A user with the BISCAdministrator Role

**Pre-Conditions** - The user is logged into the System.

**Post-Conditions** - A list of contract-grants matching the criteria are displayed.

**Steps:**
1. A "Search Contract-Grant" screen is displayed.
2. The user enters the search criteria and clicks on the Search button.
3. The user clicks on the Search button.
4. The system displays a list of Contract-Grants that match the criteria.
5. The user can select a specific Contract-Grant and click on the View Contract-Grant Details or Update Contract-Grant button.

### 1.2.1.10 View Contract Grant
The use case describes the details of a Contract-Grant Details screen.

**Actor:** A user with the BISCAadministrator Role

**Pre-Conditions** - The user has clicked the View Contract-Detail Details button on the Search Program screen.

**Post-Conditions** - The contract-grant details are displayed of the select contract-grant.

**Steps:**
1. A "Contract-Detail Details" screen is displayed.

**1.2.1.11 Update Contract Grant**
<table>
<thead>
<tr>
<th>Field Name</th>
<th>Field Type</th>
<th>Required</th>
<th>Editable</th>
<th>Business Rules/Preferred Values</th>
<th>Data Type</th>
<th>Database Table</th>
<th>Database Column</th>
</tr>
</thead>
<tbody>
<tr>
<td>Title</td>
<td>Textbox</td>
<td>Y</td>
<td>Y</td>
<td></td>
<td>Text</td>
<td>CONTRACT_GRANT_INFO</td>
<td>TITLE</td>
</tr>
<tr>
<td>Contract-Grant Number</td>
<td>Textbox</td>
<td>Y</td>
<td>Y</td>
<td></td>
<td>Text</td>
<td>CONTRACT_GRANT_INFO</td>
<td>CG_NUMBER</td>
</tr>
<tr>
<td>URL</td>
<td>Text</td>
<td></td>
<td></td>
<td></td>
<td>Text</td>
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<td>new</td>
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<tr>
<td>Abstract</td>
<td>Text area</td>
<td>Y</td>
<td>Y</td>
<td></td>
<td>Text</td>
<td>CONTRACT_GRANT_INFO</td>
<td>CG_ABSTRACT</td>
</tr>
<tr>
<td>Category</td>
<td>Drop down</td>
<td>Y</td>
<td>Y</td>
<td>List of Values: ??</td>
<td>Text</td>
<td>CONTRACT_GRANT_INFO</td>
<td>CG_CATEGORY</td>
</tr>
<tr>
<td>Start Date</td>
<td>Date</td>
<td>Y</td>
<td>Y</td>
<td></td>
<td>Date</td>
<td>CONTRACT_GRANT_INFO</td>
<td>START_DATE</td>
</tr>
<tr>
<td>End Date</td>
<td>Date</td>
<td>Y</td>
<td>Y</td>
<td></td>
<td>Date</td>
<td>CONTRACT_GRANT_INFO</td>
<td>END_DATE</td>
</tr>
<tr>
<td>Program</td>
<td>Drop down</td>
<td>Y</td>
<td>Y</td>
<td>The list of programs in the System Number</td>
<td>Text</td>
<td>CONTRACT_GRANT_INFO</td>
<td>PROGRAM_ID</td>
</tr>
<tr>
<td>Program/Project Officer</td>
<td>Lookup</td>
<td>Y</td>
<td>Y</td>
<td></td>
<td>Text</td>
<td>CONTRACT_GRANT_INFO</td>
<td>PROJECT_OFFICER</td>
</tr>
<tr>
<td>Deputy Program/Project Officer</td>
<td>Lookup</td>
<td>N</td>
<td>Y</td>
<td></td>
<td>Text</td>
<td>CONTRACT_GRANT_INFO</td>
<td>DEPUTY_PROJECT_OFFICER</td>
</tr>
<tr>
<td>Update Contract-Button</td>
<td>Button</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
The use case describes the process of updating Contract-Grant screen.

**Actor:** A user with the BISCAdministrator Role

**Pre-Conditions** - The user has clicked the Update Contract-Grant button on the View Contract-Grant Details screen or the "Search Contract-Grant" screen.

**Post-Conditions** - The contract-grant details are updated in the database.

**Steps:**
1. The user modifies the data on the "Update Contract-Grant" screen.
2. The user can associate the Contract-Grant to a new Program.
3. The user clicks on the Update Contract-Grant button.
4. The System updates the data in the database.

**Business Rules:**
1. **IMM3-ADM-BR5** - The Contract Grants being will be disassociated from the existing Program that it belongs to and will be associated to the selected Program.

1.2.1.12 **Create Workspace**

The Add/Update project diagrams depict the events for adding and updating a project. Appropriate error messages are displayed if errors are encountered.

<table>
<thead>
<tr>
<th>Field Name</th>
<th>Field Type</th>
<th>Required</th>
<th>Editable</th>
<th>Business Rules/Preferred Values</th>
<th>Data Type</th>
<th>Database Table</th>
<th>Database Column</th>
</tr>
</thead>
<tbody>
<tr>
<td>Title</td>
<td>Textbox</td>
<td>Y</td>
<td>Y</td>
<td></td>
<td>Text</td>
<td>RESEARCH_PROJECT_INFO</td>
<td>TITLE</td>
</tr>
<tr>
<td>Category</td>
<td>Dropdown</td>
<td>Y</td>
<td>Y</td>
<td>List of Values are : LK_PROJECTCATEGORY</td>
<td>Text</td>
<td>RESEARCH_PROJECT_INFO</td>
<td>PROJECTCATEGORY</td>
</tr>
<tr>
<td>Contract-Grant</td>
<td>Multi-select</td>
<td>Y</td>
<td>Y</td>
<td></td>
<td>Number</td>
<td>RESEARCH_PROJECT_INFO</td>
<td>CG_ID</td>
</tr>
<tr>
<td>Associated Users</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>PROJECT_ASSIGNED_USER</td>
<td></td>
</tr>
<tr>
<td>Name</td>
<td>List Item</td>
<td>NA</td>
<td>N</td>
<td></td>
<td></td>
<td>USER_INFO</td>
<td>FIRST_NAME, LAST_NAME</td>
</tr>
</tbody>
</table>
The use case describes the process of creating a Private Project Workspace.

**Actor:** A user with the role BISCAdministrator role.

**Pre-Conditions** - The user has logged in to the Immpor3.

**Post-Conditions** - The system creates a Private Project Workspace in the database.

**Steps:**
1. The user clicks on the Create Private Project Workspace menu.
2. The "Create Private Project Workspace" screen is displayed.
3. The user enters data, selects Contract-Grants and adds users.
4. The System creates a Private Project Workspace.

### 1.2.1.13 Search Workspace

<table>
<thead>
<tr>
<th>Field Name</th>
<th>Field Type</th>
<th>Required</th>
<th>Editable</th>
<th>Business Rules/Preferred Values</th>
<th>Data Type</th>
<th>Database Table</th>
<th>Database Column</th>
</tr>
</thead>
<tbody>
<tr>
<td>Program</td>
<td>Dropdown</td>
<td>NA</td>
<td>Y</td>
<td>List of Programs</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Contract-Grants</td>
<td>Lookup</td>
<td>NA</td>
<td>Y</td>
<td>Accepts %</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### Project Title
- **Field Name**: Project Title
- **Field Type**: Textbox
- **Required**: NA
- **Editable**: NA
- **Business Rules/Preferred Values**: Can take %
- **Database Table**: RESEARCH_PROJECT_INFORMATION
- **Database Column**: TITLE

### Project ID
- **Field Name**: Project ID
- **Field Type**: Textbox
- **Required**: NA
- **Editable**: NA
- **Business Rules/Preferred Values**: Can take %
- **Database Table**: RESEARCH_PROJECT_INFORMATION
- **Database Column**: PROJECT_ID

### Search
- **Field Name**: Search
- **Field Type**: Button
- **Required**: NA
- **Editable**: NA

### Reset
- **Field Name**: Reset
- **Field Type**: Button
- **Required**: NA
- **Editable**: NA

### Modify Search
- **Field Name**: Modify Search
- **Field Type**: Link
- **Required**: NA
- **Editable**: NA

### Select Box
- **Field Name**: Select Box
- **Field Type**: Checkbox/List Item
- **Required**: NA
- **Editable**: NA

### Project Title
- **Field Name**: Project Title
- **Field Type**: List Item/Link
- **Required**: NA
- **Editable**: NA
- **Business Rules/Preferred Values**: Clicking on the link displays the Research Project details
- **Database Table**: RESEARCH_PROJECT_INFORMATION
- **Database Column**: Project Title

### Project Category
- **Field Name**: Project Category
- **Field Type**: List Item
- **Required**: NA
- **Editable**: NA
- **Business Rules/Preferred Values**: Text
- **Database Table**: RESEARCH_PROJECT_INFORMATION
- **Database Column**: Project Category

### Project Contract Grant
- **Field Name**: Project Contract Grant
- **Field Type**: RESEARCH_PROJECT_INFORMATION
- **Database Column**: CG_ID(Multiple)

### Project Id
- **Field Name**: Project Id
- **Field Type**: RESEARCH_PROJECT_INFORMATION

### View Private Project Workspace Details
- **Field Name**: View Private Project Workspace Details
- **Field Type**: Button

### Update
- **Field Name**: Update
- **Field Type**: Button
The use case describes the process of searching for a Private Project Workspace.

**Actor:** A user with the role BISCA Administrator role

**Pre-Conditions** - The user has logged in to ImmPort3.

**Post-Conditions** - The system displays the Private Project Workspaces that match the given criteria.

**Steps:**
1. A "Search Private Project Workspace" screen is displayed.
2. The user enters the search criteria and clicks on the Search button.
3. The user clicks on the Search button.
4. The system displays a list of Private Project Workspaces that match the criteria.
5. The user can select a specific Private Project Workspace and click on the View Private Project Workspace Details or Update Private Project Workspace button

1.2.1.14 View Workspace
<table>
<thead>
<tr>
<th>Field Name</th>
<th>Field Type</th>
<th>Required</th>
<th>Editable</th>
<th>Business Rules/PREFERRED Values</th>
<th>Data Type</th>
<th>Database Table</th>
<th>Database Column</th>
</tr>
</thead>
<tbody>
<tr>
<td>Title</td>
<td>Textbox</td>
<td>NA</td>
<td>N</td>
<td></td>
<td>Text</td>
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</table>

The use case describes the details of a Private Project Workspace Details screen.
Actor: A user with the BISCAdministrator Role

Pre-Conditions - The user has clicked the View Private Project Workspace Details button on the Search Private Project Workspace screen.

Post-Conditions - The Private Project Workspace details are displayed of the selected Private Project Workspace Project.

Steps:

1. A "Private Project Workspace Details" screen is displayed.

1.2.1.15 Update Workspace
The use case describes the process of updating Private Project Workspace screen.

**Actor:** A user with the BISCAdmnistrator Role

**Pre-Conditions** - The user has clicked the Update Private Project Workspace button on the "Search Private Project Workspace" screen.

**Post-Conditions** - The Private Project Workspace details are updated in the database

**Steps:**
1. The user modifies the data on the "Update Private Project Workspace" screen.
2. The user clicks on the Update Research Project button.
3. The user can associate the Research Project to new users.
4. The System updates the associations in the database.
Business Rules:

1.2.1.16 View My Workspace

<table>
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<tr>
<th>Field Name</th>
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<th>Editable</th>
<th>Business Rules/Preferred Values</th>
<th>Data Type</th>
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The use case describes the screens that display the Research Projects of the logged in user.

Actor: A user with the ImmportDAITUser or the ImmportSharedDataUser role

Pre-Conditions: The user has logged in to the Immport3.
Post- Conditions - The user views his associated Private Project Workspaces.

Steps:
1. The user clicks on the My Research Projects menu.
2. The "My Private Project Workspaces" screen is displayed which lists all the Private Project Workspaces that the user belongs to.
3. The user can click on a Private Project Workspace link and the “Private Project Workspace Details” screen is displayed.

1.3 MENUS OPTIONS

<table>
<thead>
<tr>
<th>Menu</th>
<th>Roles</th>
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</thead>
<tbody>
<tr>
<td>Update Profile-Self</td>
<td>BISCAdministrator, ImmportSharedDataUser, ImmportDataProviderUser</td>
</tr>
<tr>
<td>Change Password-Self</td>
<td>BISCAdministrator, ImmportSharedDataUser, ImmportDataProviderUser</td>
</tr>
<tr>
<td>Create Program</td>
<td>BISCAdministrator</td>
</tr>
<tr>
<td>Search/Update Program</td>
<td>BISCAdministrator</td>
</tr>
<tr>
<td>Create Contract-Grant</td>
<td>BISCAdministrator</td>
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<tr>
<td>Search/Update Contract-Grant</td>
<td>BISCAdministrator</td>
</tr>
<tr>
<td>Create Private Project Workspace</td>
<td>BISCAdministrator</td>
</tr>
<tr>
<td>Search/Update Private Project Workspace</td>
<td>BISCAdministrator</td>
</tr>
<tr>
<td>My Private Project Workspaces</td>
<td>BISCAdministrator, ImmportSharedDataUser, ImmportDataProviderUser</td>
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</tbody>
</table>