**TMT location:**

1. Log in to TMT (<http://vtest11.wustl.edu:8080/catissuetmt/Home.do>).
2. Select Test cases tab.
3. Expand caTissue product from the tree view.
4. Expand Mater List-v2.0 version
5. Expand Admin Component
6. Expand Idp test area
7. Select Test case ID with short title CollectionProtocol\_AssignPrivileges\_caGridUser

**Purpose**: Test to ensure a super administrator is able to assign roles and privileges to caGrid user at collection protocol level.

**Prerequisites**:

CaGrid training, caGrid production and local Idps should be configured during deployment.

**Procedure**:

1. Login as ***super administrator***([admin@admin.com](mailto:admin@admin.com), Test123)
2. Navigate to Administrative Data-🡪Collection Protocol-🡪Add page.
3. Select user ***last***, ***PI caGrid user*** as Principal Investigator.
4. Select user ***last***, ***PC*** ***caGrid user*** as Protocol Coordinator.
5. Enter title as ***Leukemia Study***, short title as ***LS***.
6. For clinical diagnosis field select following values from the list using Add button:

* Sub acute myeloid leukemia.
* Monocytic Leukemia.
* Chronic Monocytic Leukemia.

1. Click on Privileges tab. Select a site as Site1 from the site list-box, click on Customize check-box, select user as caGrid User1 from user list-box, role as Supervisor from the role list-box. Click on save privileges. Refer the expected Output.
2. Select a site as Site2 from the site list-box, click on Customize check-box, select user as caGrid User2 from user list-box, role as technician from the role list-box. Click on save privileges. Refer the expected Output.
3. Click on Add consents tab. In the Unsigned Form URL text box enter http:// consentform.doc, Enter consents statements as:

* Consent given for participation in the Cancer Genome Atlas project
* Consent given for further contact regarding specimen
* Consent given for tissue specimen use for research unrelated to the patient's cancer
* Consent given for tissue specimen use for research on the patient's cancer

1. Click on Add events. Enter event details as shown in following table:

|  |  |
| --- | --- |
|  | **First Event** |
| Study Calendar Event Point | 0.0 |
| Collection Point Label | Initial Diagnosis |
| Clinical Diagnosis | New Diagnosis |
| Clinical Status | Sub acute myeloid leukemia |

1. Click on Add Specimen requirements. For the first event , enter following details on Specimen Requirements page as in table:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **First Event** |  |  |  |  |
|  | **First Set of Requirements** |  | **Second Set of Requirements** |  |  |
|  | **Parent Specimen** | **Derivative** | **Parent Specimen** | **First Derivative** | **Second Derivative** |
| Class | Tissue | Tissue | Fluid | Cell | Fluid |
| Type | Fresh Tissue | Frozen Tissue | Whole Blood | Cryo preserved Cell | Plasma |
| Tissue side | Not Specified |  | Not Specified |  |  |
| Tissue site | Skin, NOS |  | Blood |  |  |
| Pathological Status | Non Malignant |  | Malignant |  |  |
| Storage Location | Virtual |  | Virtual |  |  |
| Initial Quantity | 0 | 0 | 0 | 1.5E8 | 3 |
| Concentration | 0 | 0 | 0 |  |  |
| Collector | admin |  | admin |  |  |
| Receiver | admin |  | admin |  |  |
| Collection Procedure | Needle Core Biopsy |  | Vein puncture |  |  |
| Collection Container | Not Specified |  | EDTA Container |  |  |
| Received Quality | Not Specified |  | Not Specified |  |  |
| Aliquot Count |  |  |  | 10 | 3 |
| Aliquot Quantity |  |  |  | 1.0E7 | 1 |
| Aliquot Storage Location | None | None | None | Auto | Auto |

1. Click on Save Specimen requirements. Refer the expected Output.
2. Click on Save Collection Protocol.
3. Login as caGrid User1 with login name as and password as.
4. Navigate to Biospecimen Data-🡪CP based view. Register a participant to the CP created above (***LS***). Perform actions as per role assigned.
5. Login as caGrid User2 with login name as and password as.
6. Navigate to Biospecimen Data🡪CP based view. Navigate to Biospecimen Data🡪Specimen page. Search for a specimen collected for the above protocol to process (edit, create child specimens, aliquot/derivative).
7. Login as ***caGrid user*** assigned as Protocol Coordinator.
8. Login as ***caGrid user*** assigned as Principal Investigator.

**Expected Output:**

7 The site list should display repository type of sites. Privileges section should display radio-button to select caGrid user or caGrid group. Radio-button next to users should be selected by default. On click of Save Privilege a row should be added in privileges summary section as:

Site1-----caGrid user1---- Registration, Specimen Processing, Distribution

Site2------caGrid user2-----Specimen Processing, Distribution

13 A message should be displayed as “Collection Protocol successfully created”

14 User should be able to login successfully.

15 Participant should be registered successfully. User should be able to perform actions as per the role assigned. User should be able perform participant registration, specimen processing.

16 User should be able to login successfully.

17 User should be able to process specimens collected. User should be able to perform actions as per the role assigned.

18 User should be able to view de identified data for the protocol.

19 User should be able to view de identified data for the protocol.

**Verification Logic:**

Based on actions done as per caGrid user1 and caGrid user2, verify the audit tables.

In case of Registration done as caGrid user1:

* In CATISSUE\_AUDIT\_EVENT table new record should be entered with IP address equal to the IP address of the machine from which the action was performed and Event\_Timepstamp equal to the date on which the action was performed. Event Type should contain INSERT. User id column should indicate the identifier of the user performing the operation.
* In CATISSUE\_DATA\_AUDIT\_EVENT\_LOG table Object Name should contain CATISSUE\_PARTICIPANT, CATISSUE\_CONSENT\_TIER\_RESPONSE, CATISSUE\_COLL\_PROT\_REG, CATISSUE\_RACE, and CATISSUE\_PART\_MEDICAL\_ID. Object\_ID is the unique ID of the object inserted. Parent\_id will be null for the main object. Containment or reference type objects getting added will have a parent\_id equal to the ID of the main Object being inserted. This table refers to CATISSUE\_AUDIT\_EVENT\_LOG table which relates to the CATISSUE\_AUDIT\_EVENT table.
* In CATISSUE\_AUDIT\_EVENT\_DETAILS table Element name contains the list of attributes that are in CATISSUE\_PARTICIPANT, CATISSUE\_CONSENT\_TIER\_RESPONSE, CATISSUE\_RACE, CATISSUE\_COLL\_PROT\_REG, CATISSUE\_PART\_MEDICAL\_ID tables. Previous value will be null and Current value will be the values added through UI. CATISSUE\_SITE, CATISSUE\_COLLECTION\_PROTOCOL will have their ID's audited only as they have reference association with the main object. ID of CATISSUE\_COLL\_PROT\_REG, CATISSUE\_PART\_MEDICAL\_ID, and CATISSUE\_RACE will also be audited along with their attributes as it is a containment type attribute.
* Refer the data model and audit metadata.xml to find out the classes with containment and reference association with the main class. All the classes and attributes should be audited in respective audit tables.

In case of Specimen Processing done as caGrid user2:

* In CATISSUE\_AUDIT\_EVENT table new record should be entered with IP address equal to the IP address of the machine from which the action was performed and Event\_Timepstamp equal to the date on which the action was performed. Event Type should contain INSERT for catissue\_<specimen type>\_specimen.
* In CATISSUE\_AUDIT\_EVENT\_LOG table Object Name should contain catissue\_<specimen type>\_specimen, CATISSUE\_EXTERNAL\_IDENTIFIER (if added), CATISSUE\_SPECIMEN\_EVENT\_PARAM, CATISSUE\_SPECIMEN\_POSITION, CATISSUE\_CONSENT\_TIER\_STATUS and CATISSUE\_SPECIMEN\_CHAR. Object\_ID is the unique ID of the object inserted. Parent\_ID will be null for the main object (Specimen). Containment or reference type objects getting added will have a parent\_id equal to the ID of the main Object being inserted. This table refers to CATISSUE\_AUDIT\_EVENT\_LOG table which relates to the CATISSUE\_AUDIT\_EVENT table.
* In CATISSUE\_AUDIT\_EVENT\_DETAILS table Element name contains the list of attributes that are in CATISSUE\_SPECIMEN.ID of all the reference and containment association classes should also be audited.
* Refer the data model and audit metadata.xml to find out the classes with containment and reference association with the main class. All the classes and attributes should be audited in respective audit tables.