**Specimen event migration test cases for MySQL:**

**Requirement Id**: caTissuev20-280

**Purpose: To ensure during upgrade from v1.2 to v2.0, all the events added under existing specimens in 1.2 should be migrated to the new events model. Transfer and dispose events should remain as part of static model. (UI and functional testing for all events)**

**Prerequisites:**

Import the caTissue v1.2 dump and upgrade it to v2.0. Dump location for MySQL is [https://ncisvn.nci.nih.gov/svn/catissue\_persistent/caTissue Database Dump/](https://ncisvn.nci.nih.gov/svn/catissue_persistent/caTissue%20Database%20Dump/)

**Procedure:**

1. Login into caTissue with [admin@admin.com](mailto:admin@admin.com) user (Password: Log1234).
2. Navigate to Biospecimen data 🡪Specimen 🡪Edit page.
3. Search for the specimen labels given below (***Table1***). Go to event tab on specimen details page.
4. Open the specified event in edit mode and verify the data. (Refer the expected output)

|  |  |
| --- | --- |
| Specimen Label | Event |
| 37 | Tissue specimen review |
| 27 | Fluid specimen review |
| 47 | Cell specimen review |
| 45 | Molecular specimen review |
| 50\_1 | Spun |
| 29 | Thaw |
| 28 | Frozen |
| 43 | Fixed |
| 46 | Check In Check Out |
| 46 | Embedded |
| 37 | Procedure |
| 48\_1 | Transfer |
| 48\_10 | Disposal |

***Table 1***: specimen details

1. Search for specimen label “48”. On specimen Details page add transfer event to specimen select storage position using map option to “washu\_Box\_7”.
2. Search for specimen label “50”. Add a disposal event to the specimen, set the activity status as ‘Closed’.
3. Navigate to Biospecimen Data 🡪CP based view, Select collection protocol “SCS”, select participant “Metzer, Micheal (9\_11)”. From specimen details tree, select parent specimen “37”, open event dashboard. Now, select child specimen “40”, observe the event dashboard.
4. Open a specimen “37” in edit mode, go to event tab, open the creationEvent from the dashboard.

**Expected Output:**

2 specimen label search open the specimen details page in edit mode

4 Event tab shows the list of event associated with the specimen. Clicking on any event should open the event details page in edit mode.

Event page should look similar to the v1.2. Enumerated attribute should be shown as dropdowns, ‘reason for deviation’ text area shown to add comments. No additional scroll bar should be present on page.

|  |  |  |
| --- | --- | --- |
| Specimen | Event | Event data |
| 37 | Tissue Specimen Review | User : Admin, Admin  Date : 08-08-2011 Time : 23 hr, 23 min  Neo Plastic Cellularity Percentage : 44.0  Lymphocytic Percentage : 87.0  Necrosis Percentage : 46.0  Total Cellularity Percentage : 45.0  Histological Quantity : Not Specified (dropdown should be shown) |
| 27 | Fluid Specimen Review | User: Admin, Admin  Date: 08-09-2011 Time: 00 hr, 5 min  Cell count : 65.0  Comments: cell specimen review event added |
| 47 | Cell Specimen Review | User: supervisor, washu  Date: 08-08-2011 Time: 23 hr, 40 min  Neo Plastic Cellularity Percentage : 78.0  Viable Cell Percentage : 69.0 |
| 45 | Molecular Specimen Review | User: Admin, Admin  Date: 08-08-2011, Time : 23hr, 36 min  Gel Image URL: <http://DNA_Gel_Image.jpg>  Gel Number: 185688  Absorbance At 260: 89.0  Absorbance At 280: 23.0  Absorbance ratio of 260/280: 3.86957  Quality Index: good  Lane Number: 4  Ratio 28S To 18S: 1.0 |
| 50\_1 | Spun | User: supervisor, washu  Date: 08-08-2011, Time: 23hr, 48 min  GForce: 45  Duration in Minutes: 3  Comment: |
| 29 | Thaw | User : Admin, Admin  Date: 07-18-2011, Time: 1 hr, 4 min  Comments: Thaw specimen for 1 min room temp. |
| 28 | Frozen | User : Admin, Admin  Date: 08-09-2011, Time: 00 hr, 17 min  Method : Liquid Nitrogen (dropdown should be shown)  Comments: Added frozen event |
| 43 | Fixed | User : Admin, Admin  Date: 05-11-2011, Time: 2 hr, 7 min  Fixation Type: Methacarn (dropdown should be shown)  Duration in Minutes : 5 |
| 46 | Check In Check Out | User: Admin, Admin  Date: 08-09-2011, Time:00 hr , 24 min  Storage Status: CHECK IN (dropdown should be shown) |
| 46 | Embedded | User: Admin, Admin  Date: 08-08-2011, Time: 23 hr, 33 min  Embedding Medium : Optimal Cutting Temperature Media (dropdown should be shown) |
| 37 | Procedure | User: Admin, Admin  Date: 08-08-2011, Time : 23 hr, 23 min  URL : <http://procedure1.genetics.wustl.edu>  Name : Procedure for Extraction |
| 48\_1 | Transfer | User: Admin, Admin  Date: 08-09-2011 , Time: 00 hr , 27min  From Position: store\_container : 1 Pos(6,2)  To Position: washu\_store\_container\_1( 7,3 ) |
| 48\_10 | Disposal | User: supervisor, washu  Date: 08-08-2011, Time: 23 hr, 44 min  Activity Status: Closed (dropdown should be shown)  Reason : sample dried out hence closed |

5 transfer event successfully added to the specimen. Go to view map of storage container, select the container “washu\_Box\_7” , verify that the specimen 48 is present. Event dashboard should show the transfer event entry.

6 disposal event successfully added to the specimen, again search for the specimen “50” activity status should be closed. Event dashboard should show the disposal event entry.

7 Tissue specimen review and procedure event for specimen “37” should not be shown for “40”child specimen. This is to ensure that the events for parent specimen should NOT propagate to child specimen. Events with same parameter value should not be copied to child specimen. Whereas specimen “40” Fixed, Embedded , check in check out event must be shown with following data.

**Fixed event for specimen “40”:**

User : Admin, Admin

Date : 08-08-2011 Time : 23 hr, 26 min

Fixation Type : Ethanol, 70% Duration in Min: 5

**Embedded event for specimen “40”:**

User : Admin, Admin

Date : 08-08-2011 Time : 23 hr, 26 min

Embedding Medium : Plastic

**Check in check out event for specimen “40”:**

User : Admin, Admin

Date : 08-08-2011 Time : 23 hr, 27 min

Storage Status : CHECK OUT

8 creationEvent should be available for each specimen with ‘created on’ date specified as 08-08-2011.

**Verification Logic:**

Create a count query for counting the events before and after upgrade.

For **Parent specimen**:

Specimen (Id: is not null, Lineage contains: New) 🡪 Specimen Event Parameters (Id: is not null)

For **Child specimen**:

Specimen (Id: is not null, Lineage: New) 🡪 Specimen Event Parameters (Id: is not null)

All specimen events should be migrated from v1.2 to V2.0 application. Event data should be available under event tab for specimens. UI should be same as that of v1.2 without any changes.

Transfer and disposal should be added to the specimen from specimen details page.

Event should get audited.

**Requirement Id**: caTissuev20-285

**Purpose: To ensure during upgrade from v1.2 to v2.0, static events data for all the parent and child specimens is successfully migrated to the new event model.**

**Prerequisites:**

Import the caTissue v1.2 dump and upgrade it to v2.0. Dump location for MySQL is [https://ncisvn.nci.nih.gov/svn/catissue\_persistent/caTissue Database Dump/](https://ncisvn.nci.nih.gov/svn/catissue_persistent/caTissue%20Database%20Dump/)

**Procedure:**

1. Login into caTissue with [admin@admin.com](mailto:admin@admin.com) user (Password: Log1234).
2. Navigate to Biospecimen tab >> Collection protocol based view.
3. Select CP as “Therapy”, select participant “D, Robert (10\_12)”.
4. Select event “T3.0 Post” from specimen details tree. Select specimen “44”. Observe the event dashboard shown under event tab.
5. Select specimen “44\_1” , open a event tab.
6. Select specimen “45” , open event tab.
7. Select specimen 44 and “44\_2” . Navigate to event tab. Add Fixed event to specimen.

**Expected Output:**

4 Embedded, procedure, frozen event should be shown for specimen “44”.

**Embedded event details:**

User : Admin, Admin

Date : 08-08-2011 Time: 23 hr ,33 min

Embedding Medium : Optimal Cutting Temperature Medium

**Procedure event details:**

User : Admin, Admin

Date : 08-09-2011 Time: 00 hr ,50 min

URL : <http://procedure.com>

Name: CellProcessing

**Frozen event details:**

User : Admin, Admin

Date : 08-09-2011 Time: 00 hr ,51 min

Method : Cryostat

5 Embedded event should not be shown for specimen 44\_1 (its propagated from the parent specimen “44”). No other event except CreationEvent with date shown for specimen “44\_1”.

6 Molecular specimen review event should be shown in event dashboard for specimen “45” (event details same as test case1).embedded event should not be shown in event details as its propagated from parent specimen“44”.

7 user should be able to fixed event for specimen for parent specimen “44” and child specimen “44\_2”

**Requirement Id**: caTissuev20-290

**Purpose: To ensure during upgrade from v1.2 to v2.0,CPs are migrated, with Collected-Received parameter associated with CP(s)as processing SPP at requirement level.**

**Prerequisites:**

Import the caTissue v1.2 dump and upgrade it to v2.0. Dump location for MySQL is [https://ncisvn.nci.nih.gov/svn/catissue\_persistent/caTissue Database Dump/](https://ncisvn.nci.nih.gov/svn/catissue_persistent/caTissue%20Database%20Dump/)

**Procedure:**

1. Login into caTissue with [admin@admin.com](mailto:admin@admin.com) user (Password: Log1234).
2. Navigate to Administrative data >> collection Protocol >> Edit page. Search for CP with title “Leukemia Study”.
3. Navigate to first parent specimen under event “0.0 Initial Diagnosis”. Check the processing SPP associated.
4. Navigate to Biospecimen data >> Collection Protocol based view. Select CP “LS” from drop down. Select participant “Thomas, M (8\_9)”. Select SCG “T0.0 Initial Diagnosis” from specimen details tree. Navigate to SPP tab on edit SCG page.
5. Observe the SPP tab for collection & received details, collection procedure, collection container, collector, receiver, received quality.
6. Register a new user for CP “LS”. Collect the SCG and specimens. Add SPP data at SCG and the specimen level.
7. Navigate to Administrative data >> Collection Protocol >> Edit. Search for CP with title “Leukemia Study”. Add a event “diagnosis” to CP and associate “Blood Collection” SPP to the event . Save the collection protocol.
8. Again register a participant to the CP “LS”. Enter the SPP data for “Diagnosis” newly added event .

**Expected Output:**

3Default processing SPP should be associated with “0.0 Initial Diagnosis” event of “LS” CP. First parent specimen requirement should not show the collection and received parameters when open the CP in edit mode. Instead processing SPP should be shown.

4 SPP tab for participant “ Thomas, M ” shows the default SPP created for CP “LS”. Values of SPP associated shows following details :

Collector : Admin, Admin 

Receiver : Admin, Admin

Collection Procedure : Venipuncture

Received Quality : Acceptable

Collection Container : EDTA Vacutainer

5 SPP data tab for SCG “T0.0 Initial Diagnosis” for participant “Thomas, M” shows collected and received parameters

**Collection :**

Collector : Admin, Admin 

Collection Procedure : Needle Aspirate

Collection Container : EDTA Vacutainer

Date : 08-08-2011 Time : 7 hr, 3 min

**Received :**

Receiver : Admin, Admin

Received Quality : Acceptable

Date : 08-08-2011 Time : 7 hr, 3 min

6 Able to register new participant and able to add data to default SPP for CP “LS”.

7 Collection protocol successfully edited and event “diagnosis” added to “Leukemia Study” protocol. Able to associate new SPP “Blood Collection” for the event.

8 After editing CP, should be able to register participant , able to perform the data entry for default as well as “blood collection” SPP.

**9** Open CP “SCS” in CP based view, select participant “ Metzer, Micheal (9\_11)” . In specimen details tree click on SCG “Initial Diagnosis”. The SPP tab shows the collection and received parameters with the default values “Use CP Default”.

**Specimen event migration test cases for ORACLE:**

**Requirement Id**: caTissuev20-280

**Purpose: To ensure during upgrade from v1.2 to v2.0, all the events added under existing specimens in 1.2 should be migrated to the new events model. Transfer and dispose events should remain as part of static model. (UI and functional testing for all events)**

**Prerequisites:**

Import the caTissue v1.2 dump and upgrade it to v2.0. Dump location for Oracle is [https://ncisvn.nci.nih.gov/svn/catissue\_persistent/caTissue Database Dump/](https://ncisvn.nci.nih.gov/svn/catissue_persistent/caTissue%20Database%20Dump/)

**Procedure:**

1. Login into caTissue with [admin@admin.com](mailto:admin@admin.com) user (Password: Test123).
2. Navigate to Biospecimen data 🡪Specimen 🡪Edit page.
3. Search for the specimen labels given below (***Table1***). Go to event tab on specimen details page.
4. Open the specified event in edit mode and verify the data. (Refer the expected output)

|  |  |
| --- | --- |
| Specimen Label | Event |
| 32 | Tissue specimen review |
| SP\_5 | Fluid specimen review |
| SP\_4 | Cell specimen review |
| SP\_3 | Molecular specimen review |
| 25 | Spun |
| 26 | Thaw |
| 1\_3 | Frozen |
| 1\_3 | Fixed |
| SP\_4 | Check In Check Out |
| 38 | Embedded |
| 38 | Procedure |
| SP\_4 | Transfer |
| 48 | Disposal |

***Table 1***: specimen details

1. Search for specimen label “SP\_4”. On specimen Details page add transfer event to specimen select storage position using map option to “Washu\_Test\_Storage\_Type\_3”.
2. Search for specimen label “49”. Add a disposal event to the specimen, set the activity status as ‘Closed’.
3. Navigate to Biospecimen Data 🡪CP based view, Select collection protocol “CP\_Test”, select participant “N/A (81\_181)”. From specimen details tree, select parent specimen “53”, open event dashboard. Now, select child specimen “53\_6”, observe the event dashboard.
4. Open a specimen “53” in edit mode, go to event tab, open the creationEvent from the dashboard.

**Expected Output:**

2 specimen label search open the specimen details page in edit mode

4 Event tab shows the list of event associated with the specimen. Clicking on any event should open the event details page in edit mode.

Event page should look similar to the v1.2. Enumerated attribute should be shown as dropdowns, ‘reason for deviation’ text area shown to add comments. No additional scroll bar should be present on page.

|  |  |  |
| --- | --- | --- |
| Specimen | Event | Event data |
| 32 | Tissue Specimen Review | User : Admin, Admin  Date : 06-09-2011 Time : 2 hr, 52 min  Neo Plastic Cellularity Percentage : 9.0  Lymphocytic Percentage : 78.0  Necrosis Percentage : 45.0  Total Cellularity Percentage : 23.0  Histological Quantity : Excellent- Definable Nuclear Detail (dropdown should be shown) |
| SP\_5 | Fluid Specimen Review | User: Admin, Admin  Date: 07-18-2011 Time: 4 hr, 35 min  Cell count : 56.0  Comments: cell specimen review event added |
| SP\_4 | Cell Specimen Review | User: Admin, Admin  Date: 07-18-2011 Time: 4 hr, 41 min  Neo Plastic Cellularity Percentage : 78.0  Viable Cell Percentage : 69 |
| SP\_3 | Molecular Specimen Review | User: Admin, Admin  Date: 07-18-2011, Time : 4hr, 45 min  Gel Image URL: <http://DNA_Gel_Image.jpg>  Gel Number: 185688  Absorbance At 260: 89.0  Absorbance At 280: 23.0  Absorbance ratio of 260/280: 3.86957  Quality Index: good  Lane Number: 4  Ratio 28S To 18S: 1.0 |
| 25 | Spun | User: Admin, Admin  Date: 07-18-2011, Time: 4hr, 54 min  GForce: 45  Duration in Minutes: 20  Comment: Spun the Whole blood sample to remove impurities. |
| 26 | Thaw | User : Admin, Admin  Date: 07-18-2011, Time: 5 hr, 4 min  Comments: Thaw specimen for 1 mi n room temp. |
| 1\_3 | Frozen | User : [supervisor@wustl.edu](mailto:supervisor@wustl.edu), [supervisor@wustl.edu](mailto:supervisor@wustl.edu)  Date: 06-08-2011, Time: 6 hr, 20 min  Method : Aerosol Spray (dropdown should be shown)  Comments: Added frozen event |
| 1\_3 | Fixed | User : Admin, Admin  Date: 05-11-2011, Time: 2 hr, 7 min  Fixation Type: Methacarn (dropdown should be shown)  Duration in Minutes : 5 |
| Sp\_4 | Check In Check Out | User: Admin, Admin  Date: 07-11-2011, Time: 3 hr , 49 min  Storage Status: CHECK IN (dropdown should be shown) |
| 38 | Embedded | User: Admin, Admin  Date: 07-11-2011, Time: 5 hr, 22 min  Embedding Medium : Paraffin (dropdown should be shown) |
| 38 | Procedure | User: Admin, Admin  Date: 07-18-2011, Time : 5 hr, 29 min  URL : <http://procedure1.genetics.wustl.edu>  Name : Procedure for Extraction |
| SP\_4 | Transfer | User: Admin, Admin  Date: 07-07-2011 , Time: 4 hr , 00min  From Position: Virtual Location  To Position: Washu\_Test\_Storage\_Type\_3 ( 4,5 ) |
| 48 | Disposal | User: Admin, Admin  Date: 07-18-2011, Time: 5 hr, 48 min  Activity Status: Closed (dropdown should be shown)  Reason : fungal contamination |

5 transfer event successfully added to the specimen. Go to view map of storage container, select the container “Washu\_Test\_Storage\_Type\_3” , verify that the specimen SP\_4 is present. Event dashboard should show the transfer event entry.

6 disposal event successfully added to the specimen, again search for the specimen “49” activity status should be closed. Event dashboard should show the disposal event entry.

7 embedded event for specimen “53” should not be shown for “53\_6”child specimen. This is to ensure that the events for parent specimen should NOT propagate to child specimen. Events with same parameter value should not be copied to child specimen.

8 creationEvent should be available for each specimen with ‘created on’ date specified.

**Verification Logic:**

Create a count query for counting the events before and after upgrade.

For **Parent specimen**:

Specimen (Id: is not null, Lineage contains: New) 🡪 Specimen Event Parameters (Id: is not null)

For **Child specimen**:

Specimen (Id: is not null, Lineage: New) 🡪 Specimen Event Parameters (Id: is not null)

All specimen events should be migrated from v1.2 to V2.0 application. Event data should be available under event tab for specimens. UI should be same as that of v1.2 without any changes.

Transfer and disposal should be added to the specimen from specimen details page.

Event should get audited.

**Requirement Id**: caTissuev20-285

**Purpose: To ensure during upgrade from v1.2 to v2.0, static events data for all the parent and child specimens is successfully migrated to the new event model.**

**Prerequisites:**

Import the caTissue v1.2 dump and upgrade it to v2.0. Dump location for Oracle is [https://ncisvn.nci.nih.gov/svn/catissue\_persistent/caTissue Database Dump/](https://ncisvn.nci.nih.gov/svn/catissue_persistent/caTissue%20Database%20Dump/)

**Procedure:**

1. Login into caTissue with [admin@admin.com](mailto:admin@admin.com) user (Password: Test123).
2. Navigate to Biospecimen tab >> Collection protocol based view.
3. Select CP as “Therapy”, select participant “D, Robert (10\_12)”.
4. Select event “T3.0 Post” from specimen details tree. Select specimen “44”. Observe the event dashboard shown under event tab.
5. Select specimen “44\_1” , open a event tab.
6. Select specimen “45” , open event tab.
7. Select specimen 44 and “44\_2” . Navigate to event tab. Add Fixed event to specimen.

**Expected Output:**

4 Embedded, procedure, frozen event should be shown for specimen “44”.

**Embedded event details:**

User : Admin, Admin

Date : 08-08-2011 Time: 23 hr ,33 min

Embedding Medium : Optimal Cutting Temperature Medium

**Procedure event details:**

User : Admin, Admin

Date : 08-09-2011 Time: 00 hr ,50 min

URL : <http://procedure.com>

Name: CellProcessing

**Frozen event details:**

User : Admin, Admin

Date : 08-09-2011 Time: 00 hr ,51 min

Method : Cryostat

5 Embedded event should not be shown for specimen 44\_1 (its propagated from the parent specimen “44”). No other event except CreationEvent with date shown for specimen “44\_1”.

6 Molecular specimen review event should be shown in event dashboard for specimen “45” (event details same as test case1).embedded event should not be shown in event details as its propagated from parent specimen“44”.

7 user should be able add to fixed event for specimen for parent specimen “44” and child specimen “44\_2”

**Requirement Id**: caTissuev20-290

**Purpose: To ensure during upgrade from v1.2 to v2.0,CPs are migrated, with Collected-Received parameter associated with CP(s)as processing SPP at requirement level.**

**Prerequisites:**

Import the caTissue v1.2 dump and upgrade it to v2.0. Dump location for Oracle is [https://ncisvn.nci.nih.gov/svn/catissue\_persistent/caTissue Database Dump/](https://ncisvn.nci.nih.gov/svn/catissue_persistent/caTissue%20Database%20Dump/)

**Procedure:**

1. Login into caTissue with [admin@admin.com](mailto:admin@admin.com) user (Password: Log1234).
2. Navigate to Administrative data >> collection Protocol >> Edit page. Search for CP with title “Leukemia Study”.
3. Navigate to first parent specimen under event “0.0 Initial Diagnosis”. Check the processing SPP associated.
4. Navigate to Biospecimen data >> Collection Protocol based view. Select CP “LS” from drop down. Select participant “Thomas, M (8\_9)”. Select SCG “T0.0 Initial Diagnosis” from specimen details tree. Navigate to SPP tab on edit SCG page.
5. Observe the SPP tab for collection & received details, collection procedure, collection container, collector, receiver, received quality.
6. Register a new user for CP “LS”. Collect the SCG and specimens. Add SPP data at SCG and the specimen level.
7. Navigate to Administrative data >> Collection Protocol >> Edit. Search for CP with title “Leukemia Study”. Add a event “diagnosis” to CP and associate “Blood Collection” SPP to the event . Save the collection protocol.
8. Again register a participant to the CP “LS”. Enter the SPP data for “Diagnosis” newly added event .

**Expected Output:**

3Default processing SPP should be associated with “0.0 Initial Diagnosis” event of “LS” CP. First parent specimen requirement should not show the collection and received parameters when open the CP in edit mode. Instead processing SPP should be shown.

4 SPP tab for participant “ Thomas, M ” shows the default SPP created for CP “LS”. Values of SPP associated shows following details :

Collector : Admin, Admin 

Receiver : Admin, Admin

Collection Procedure : Venipuncture

Received Quality : Acceptable

Collection Container : EDTA Vacutainer

5 SPP data tab for SCG “T0.0 Initial Diagnosis” for participant “Thomas, M” shows collected and received parameters

**Collection :**

Collector : Admin, Admin 

Collection Procedure : Needle Aspirate

Collection Container : EDTA Vacutainer

Date : 08-08-2011 Time : 7 hr, 3 min

**Received :**

Receiver : Admin, Admin

Received Quality : Acceptable

Date : 08-08-2011 Time : 7 hr, 3 min

6 Able to register new participant and able to add data to default SPP for CP “LS”.

7 Collection protocol successfully edited and event “diagnosis” added to “Leukemia Study” protocol. Able to associate new SPP “Blood Collection” for the event.

8 After editing CP, should be able to register participant , able to perform the data entry for default as well as “blood collection” SPP.

**9** Open CP “SCS” in CP based view, select participant “ Metzer, Micheal (9\_11)” . In specimen details tree click on SCG “Initial Diagnosis”. The SPP tab shows the collection and received parameters with the default values “Use CP Default”.