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| **Test case Number: 1 Test case Title : User should be able to see Invoicing button projects dashboard.** | | |
|
| **Summary:**  Test case summary: **User should be able to see Invoicing button projects dashboard.** | | |
| **Preconditions: 1.** Ensure that the User should have access to the application and valid credentials.  **2**. Projects should be created. | | |
| #. | **Steps action:** | **Expected results:** |
| 1 | Launch the Application. | Login Screen should be displayed. |
| 2 | In the Login screen, enter the  credentials and click "Sign In". | Home Screen should be displayed. |
| 3 | Navigate to the projects dashboard. | It should be navigated to the projects dashboard and Should see “Invoicing” Button |
| 4 | User click on “Invoicing” Button | Invoicing button should be clickable. |
| **Execution type:** | Manual |  |
| **Estimated exec. Duration (min):** | 5 Min |  |
| **Priority:** | High |  |
| **Requirements:** | VE-2901 - Operation Efficiency - Invoicing IAC |  |

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| **Test case Number: 2 Test case Title : User should see Download dialog opens after clicks on Invoicing button projects dashboard.** | | |
|
| **Summary:**  Test case summary: **User should see Download dialog opens after clicks on Invoicing button projects dashboard.** | | |
| **Preconditions: 1.** Ensure that the User should have access to the application and valid credentials.  **2**. Projects should be created. | | |
| #. | **Steps action:** | **Expected results:** |
| 1 | Launch the Application. | Login Screen should be displayed. |
| 2 | In the Login screen, enter the  credentials and click "Sign In". | Home Screen should be displayed. |
| 3 | Navigate to the projects dashboard. | It should be navigated to the projects dashboard and Should see “Invoicing” Button |
| 4 | User click on “Invoicing” Button | User should see **Download dialog opens.** |
| **Execution type:** | Manual |  |
| **Estimated exec. Duration (min):** | 5 Min |  |
| **Priority:** | High |  |
| **Requirements:** | VE-2901 - Operation Efficiency - Invoicing IAC |  |

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| **Test case Number: 3 Test case Title : User should be able to select month and Year on the Download dialog.** | | |
|
| **Summary:**  Test case summary: **User should be able to select month and Year on the Download dialog.** | | |
| **Preconditions: 1.** Ensure that the User should have access to the application and valid credentials.  **2**. Projects should be created. | | |
| #. | **Steps action:** | **Expected results:** |
| 1 | Launch the Application. | Login Screen should be displayed. |
| 2 | In the Login screen, enter the  credentials and click "Sign In". | Home Screen should be displayed. |
| 3 | Navigate to the projects dashboard. | It should be navigated to the projects dashboard and Should see “Invoicing” Button |
| 4 | User click on “Invoicing” Button | User should see **Download dialog opens** |
| 5 | User clicks on dropdowns for Month and Year respectively | Header of the dialog should be “Download invoice sheet as of” and Should be able to select month and Year from the dropdown and Cancel and Download buttons on the bottom |
| **Execution type:** | Manual |  |
| **Estimated exec. Duration (min):** | 5 Min |  |
| **Priority:** | High |  |
| **Requirements:** | VE-2901 - Operation Efficiency - Invoicing IAC |  |

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| **Test case Number: 4 Test case Title : Validate default values are the latest available ones on the Download dialog.** | | |
|
| **Summary:**  Test case summary: **Validate default values are the latest available ones on the Download dialog.** | | |
| **Preconditions: 1.** Ensure that the User should have access to the application and valid credentials.  **2**. Projects should be created. | | |
| #. | **Steps action:** | **Expected results:** |
| 1 | Launch the Application. | Login Screen should be displayed. |
| 2 | In the Login screen, enter the  credentials and click "Sign In". | Home Screen should be displayed. |
| 3 | Navigate to the projects dashboard. | It should be navigated to the projects dashboard and Should see “Invoicing” Button |
| 4 | User click on “Invoicing” Button | User should see **Download dialog opens** |
| 5 | User see the Month and Year Values in the dropdown | User should see **default values are the Previous month and year on the Download dialog.** |
| **Execution type:** | Manual |  |
| **Estimated exec. Duration (min):** | 5 Min |  |
| **Priority:** | High |  |
| **Requirements:** | VE-2901 - Operation Efficiency - Invoicing IAC |  |

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| **Test case Number: 5 Test case Title : Validate Cancel on the Download dialog.** | | |
|
| **Summary:**  Test case summary: **Validate Cancel on the Download dialog.** | | |
| **Preconditions: 1.** Ensure that the User should have access to the application and valid credentials.  **2**. Projects should be created. | | |
| #. | **Steps action:** | **Expected results:** |
| 1 | Launch the Application. | Login Screen should be displayed. |
| 2 | In the Login screen, enter the  credentials and click "Sign In". | Home Screen should be displayed. |
| 3 | Navigate to the projects dashboard. | It should be navigated to the projects dashboard and Should see “Invoicing” Button |
| 4 | User click on “Invoicing” Button | User should see **Download dialog opens** |
| 5 | User Select the month and year | User should be able to select the month and year |
| 6 | User clicks on Cancel button | User should be able to close pop up and navigate back to Projects dashboard. |
| **Execution type:** | Manual |  |
| **Estimated exec. Duration (min):** | 5 Min |  |
| **Priority:** | High |  |
| **Requirements:** | VE-2901 - Operation Efficiency - Invoicing IAC |  |

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| **Test case Number: 6 Test case Title : Validate Download on the Download dialog.** | | |
|
| **Summary:**  Test case summary: **Validate Download on the Download dialog.** | | |
| **Preconditions: 1.** Ensure that the User should have access to the application and valid credentials.  **2**. Projects should be created. | | |
| #. | **Steps action:** | **Expected results:** |
| 1 | Launch the Application. | Login Screen should be displayed. |
| 2 | In the Login screen, enter the  credentials and click "Sign In". | Home Screen should be displayed. |
| 3 | Navigate to the projects dashboard. | It should be navigated to the projects dashboard and Should see “Invoicing” Button |
| 4 | User click on “Invoicing” Button | User should see **Download dialog opens** |
| 5 | User Select the month and year | User should be able to select the month and year |
| 6 | User clicks on Download button | User should be able to download report as excel as per browser's download settings and navigate back to Projects dashboard. |
| **Execution type:** | Manual |  |
| **Estimated exec. Duration (min):** | 5 Min |  |
| **Priority:** | High |  |
| **Requirements:** | VE-2901 - Operation Efficiency - Invoicing IAC |  |

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| **Test case Number: 7 Test case Title : Validate User cannot select current month or future month on the download dialog.** | | |
|
| **Summary:**  Test case summary: **Validate User cannot select current month or future month on the download dialog.** | | |
| **Preconditions: 1.** Ensure that the User should have access to the application and valid credentials.  **2**. Projects should be created. | | |
| #. | **Steps action:** | **Expected results:** |
| 1 | Launch the Application. | Login Screen should be displayed. |
| 2 | In the Login screen, enter the  credentials and click "Sign In". | Home Screen should be displayed. |
| 3 | Navigate to the projects dashboard. | It should be navigated to the projects dashboard and Should see “Invoicing” Button |
| 4 | User click on “Invoicing” Button | User should see **Download dialog opens** |
| 5 | User try to select current month or future month of the year | User should not see current month or future month of the year in the dropdown |
| **Execution type:** | Manual |  |
| **Estimated exec. Duration (min):** | 5 Min |  |
| **Priority:** | High |  |
| **Requirements:** | VE-2901 - Operation Efficiency - Invoicing IAC |  |

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| **Test case Number: 8 Test case Title : Validate User cannot select future year on the download dialog.** | | |
|
| **Summary:**  Test case summary: **Validate User cannot select future year on the download dialog.** | | |
| **Preconditions: 1.** Ensure that the User should have access to the application and valid credentials.  **2**. Projects should be created. | | |
| #. | **Steps action:** | **Expected results:** |
| 1 | Launch the Application. | Login Screen should be displayed. |
| 2 | In the Login screen, enter the  credentials and click "Sign In". | Home Screen should be displayed. |
| 3 | Navigate to the projects dashboard. | It should be navigated to the projects dashboard and Should see “Invoicing” Button |
| 4 | User click on “Invoicing” Button | User should see **Download dialog opens** |
| 5 | User try to select future year in the year dropdown | User should not see future year in the dropdown |
| **Execution type:** | Manual |  |
| **Estimated exec. Duration (min):** | 5 Min |  |
| **Priority:** | High |  |
| **Requirements:** | VE-2901 - Operation Efficiency - Invoicing IAC |  |

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| **Test case Number: 9 Test case Title : Validate downloaded excel should match with excel template given.** | | |
|
| **Summary:**  Test case summary: **Validate downloaded excel should match with excel template given.** | | |
| **Preconditions: 1.** Ensure that the User should have access to the application and valid credentials.  **2**. Projects should be created. | | |
| #. | **Steps action:** | **Expected results:** |
| 1 | Launch the Application. | Login Screen should be displayed. |
| 2 | In the Login screen, enter the  credentials and click "Sign In". | Home Screen should be displayed. |
| 3 | Navigate to the projects dashboard. | It should be navigated to the projects dashboard and Should see “Invoicing” Button |
| 4 | User click on “Invoicing” Button | User should see **Download dialog opens** |
| 5 | User Select the month and year | User should be able to select the month and year |
| 6 | User clicks on Download button | User should be able to download report as excel as per browser's download settings and navigate back to Projects dashboard. |
| 7 | User checks the excel | **Downloaded excel should match with excel template given. Column should include**  #Commissioned CTC Luminaires  #Commissioned Starsense RF Luminaries  #Mobile Service Provider based view - Vodafone, Aspyder, Others  #Commissioned Cabinets (Amplight only  Total Number of connected luminaries (sum of the above)  Is API enabled yes/no  Internal/Customer site column for each site. We can map this flag to "Internal (demo)"/"Customer" flag in CTX for migration purpose.  For every site listed, the country information listed in a column |
| **Execution type:** | Manual |  |
| **Estimated exec. Duration (min):** | 5 Min |  |
| **Priority:** | High |  |
| **Requirements:** | VE-2901 - Operation Efficiency - Invoicing IAC |  |

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| **Test case Number: 10 Test case Title : Validate downloaded excel values should match database** | | |
|
| **Summary:** **Validate downloaded excel values should match database.** | | |
| **Preconditions: 1.** Ensure that the User should have access to the application and valid credentials.  **2**. Projects should be created. | | |
| #. | **Steps action:** | **Expected results:** |
| 1 | Launch the Application. | Login Screen should be displayed. |
| 2 | In the Login screen, enter the  credentials and click "Sign In". | Home Screen should be displayed. |
| 3 | Navigate to the projects dashboard. | It should be navigated to the projects dashboard and Should see “Invoicing” Button |
| 4 | User click on “Invoicing” Button | User should see **Download dialog opens** |
| 5 | User Select the month and year | User should be able to select the month and year |
| 6 | User clicks on Download button | User should be able to download report as excel as per browser's download settings and navigate back to Projects dashboard. |
| 7 | User checks the excel | **Downloaded excel values should match with database** |
| **Execution type:** | Manual |  |
| **Priority:** | High |  |
| **Requirements:** | VE-2901 - Operation Efficiency - Invoicing IAC |  |

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| **Test case Number: 11 Test case Title : Validate downloaded excel values should match for example Feb month and 2021 year.** | | |
|
| **Summary:** **Validate downloaded excel values should match for example Feb month and 2021 year.** | | |
| **Preconditions: 1.** Ensure that the User should have access to the application and valid credentials.  **2**. Projects should be created. | | |
| #. | **Steps action:** | **Expected results:** |
| 1 | Launch the Application. | Login Screen should be displayed. |
| 2 | In the Login screen, enter the  credentials and click "Sign In". | Home Screen should be displayed. |
| 3 | Navigate to the projects dashboard. | It should be navigated to the projects dashboard and Should see “Invoicing” Button |
| 4 | User click on “Invoicing” Button | User should see **Download dialog opens** |
| 5 | User Select the month and year | User select Feb month and 2021 year |
| 6 | User clicks on Download button | User should be able to download report as excel as per browser's download settings and navigate back to Projects dashboard. |
| 7 | User checks the excel | **Downloaded excel values should have Jan, Feb months columns and Jan month should have summation of pervious year also. (from site creation date)** |
| **Execution type:** | Manual |  |
| **Estimated exec. Duration (min):** | 5 Min |  |
| **Priority:** | High |  |
| **Requirements:** | VE-2901 - Operation Efficiency - Invoicing IAC |  |

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| **Test case Number: 12 Test case Title : Validate downloaded excel values should match for example April month and 2021 year.** | | |
|
| **Summary:** **Validate downloaded excel values should match for example April month and 2021 year.** | | |
| **Preconditions: 1.** Ensure that the User should have access to the application and valid credentials.  **2**. Projects should be created. | | |
| #. | **Steps action:** | **Expected results:** |
| 1 | Launch the Application. | Login Screen should be displayed. |
| 2 | In the Login screen, enter the  credentials and click "Sign In". | Home Screen should be displayed. |
| 3 | Navigate to the projects dashboard. | It should be navigated to the projects dashboard and Should see “Invoicing” Button |
| 4 | User click on “Invoicing” Button | User should see **Download dialog opens** |
| 5 | User Select the month and year | User select April month and 2021 year |
| 6 | User clicks on Download button | User should be able to download report as excel as per browser's download settings and navigate back to Projects dashboard. |
| 7 | User checks the excel | **Downloaded excel values should have Jan, Feb, March and April months columns and Jan month should have summation of pervious year also. (from site creation date)** |
| **Execution type:** | Manual |  |
| **Estimated exec. Duration (min):** | 5 Min |  |
| **Priority:** | High |  |
| **Requirements:** | VE-2901 - Operation Efficiency - Invoicing IAC |  |

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| **Test case Number: 13 Test case Title : Validate downloaded excel values should match for example Dec month and 2020 year.** | | |
|
| **Summary:** **Validate downloaded excel values should match for example Dec month and 2020 year.** | | |
| **Preconditions: 1.** Ensure that the User should have access to the application and valid credentials.  **2**. Projects should be created. | | |
| #. | **Steps action:** | **Expected results:** |
| 1 | Launch the Application. | Login Screen should be displayed. |
| 2 | In the Login screen, enter the  credentials and click "Sign In". | Home Screen should be displayed. |
| 3 | Navigate to the projects dashboard. | It should be navigated to the projects dashboard and Should see “Invoicing” Button |
| 4 | User click on “Invoicing” Button | User should see **Download dialog opens** |
| 5 | User Select the month and year | User select Dec month and 2020 year |
| 6 | User clicks on Download button | User should be able to download report as excel as per browser's download settings and navigate back to Projects dashboard. |
| 7 | User checks the excel | **Downloaded excel values should have Jan to Dec months columns and Jan month should have summation of pervious year also. (from site creation date)** |
| **Execution type:** | Manual |  |
| **Estimated exec. Duration (min):** | 5 Min |  |
| **Priority:** | High |  |
| **Requirements:** | VE-2901 - Operation Efficiency - Invoicing IAC |  |

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| **Test case Number: 13 Test case Title : Validate downloaded excel values should match for example Dec month and 2020 year.** | | |
|
| **Summary:** **Validate downloaded excel values should match for example Dec month and 2020 year.** | | |
| **Preconditions: 1.** Ensure that the User should have access to the application and valid credentials.  **2**. Projects should be created. | | |
| #. | **Steps action:** | **Expected results:** |
| 1 | Launch the Application. | Login Screen should be displayed. |
| 2 | In the Login screen, enter the  credentials and click "Sign In". | Home Screen should be displayed. |
| 3 | Navigate to the projects dashboard. | It should be navigated to the projects dashboard and Should see “Invoicing” Button |
| 4 | User click on “Invoicing” Button | User should see **Download dialog opens** |
| 5 | User Select the month and year | User select Dec month and 2020 year |
| 6 | User clicks on Download button | User should be able to download report as excel as per browser's download settings and navigate back to Projects dashboard. |
| 7 | User checks the excel | **Downloaded excel values should have Jan to Dec months columns and Jan month should have summation of pervious year also. (from site creation date)** |
| **Execution type:** | Manual |  |
| **Estimated exec. Duration (min):** | 5 Min |  |
| **Priority:** | High |  |
| **Requirements:** | VE-2901 - Operation Efficiency - Invoicing IAC |  |

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| **Test case Number: 13 Test case Title : Validate downloaded excel values should match for example Dec month and 2020 year.** | | |
|
| **Summary:** **Validate downloaded excel values should match for example Dec month and 2020 year.** | | |
| **Preconditions: 1.** Ensure that the User should have access to the application and valid credentials.  **2**. Projects should be created. | | |
| #. | **Steps action:** | **Expected results:** |
| 1 | Launch the Application. | Login Screen should be displayed. |
| 2 | In the Login screen, enter the  credentials and click "Sign In". | Home Screen should be displayed. |
| 3 | Navigate to the projects dashboard. | It should be navigated to the projects dashboard and Should see “Invoicing” Button |
| 4 | User click on “Invoicing” Button | User should see **Download dialog opens** |
| 5 | User Select the month and year | User select Dec month and 2020 year |
| 6 | User clicks on Download button | User should be able to download report as excel as per browser's download settings and navigate back to Projects dashboard. |
| 7 | User checks the excel | **Downloaded excel values should have Jan to Dec months columns and Jan month should have summation of pervious year also. (from site creation date)** |
| **Execution type:** | Manual |  |
| **Estimated exec. Duration (min):** | 5 Min |  |
| **Priority:** | High |  |
| **Requirements:** | VE-2901 - Operation Efficiency - Invoicing IAC |  |

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| **Test case Number: 14 Test case Title : Validate Each site name have a unique identifier in the excel** | | |
|
| **Summary:** **Validate Each site name have a unique identifier in the excel.** | | |
| **Preconditions: 1.** Ensure that the User should have access to the application and valid credentials.  **2**. Projects should be created. | | |
| #. | **Steps action:** | **Expected results:** |
| 1 | Launch the Application. | Login Screen should be displayed. |
| 2 | In the Login screen, enter the  credentials and click "Sign In". | Home Screen should be displayed. |
| 3 | Navigate to the projects dashboard. | It should be navigated to the projects dashboard and Should see “Invoicing” Button |
| 4 | User click on “Invoicing” Button | User should see **Download dialog opens** |
| 5 | User Select the month and year | User select Dec month and 2020 year |
| 6 | User clicks on Download button | User should be able to download report as excel as per browser's download settings and navigate back to Projects dashboard. |
| 7 | User checks the excel | **User should see Each site name have a unique identifier in the excel**  **Ex: IAC-EU-12345678** |
| **Execution type:** | Manual |  |
| **Estimated exec. Duration (min):** | 5 Min |  |
| **Priority:** | High |  |
| **Requirements:** | VE-2901 - Operation Efficiency - Invoicing IAC |  |

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| **Test case Number: 15 Test case Title : Validate report contains an aggregated view total commissioned light point per country** | | |
|
| **Summary:** **Validate report contains an aggregated view total commissioned light point per country.** | | |
| **Preconditions: 1.** Ensure that the User should have access to the application and valid credentials.  **2**. Projects should be created. | | |
| #. | **Steps action:** | **Expected results:** |
| 1 | Launch the Application. | Login Screen should be displayed. |
| 2 | In the Login screen, enter the  credentials and click "Sign In". | Home Screen should be displayed. |
| 3 | Navigate to the projects dashboard. | It should be navigated to the projects dashboard and Should see “Invoicing” Button |
| 4 | User click on “Invoicing” Button | User should see **Download dialog opens** |
| 5 | User Select the month and year | User select Dec month and 2020 year |
| 6 | User clicks on Download button | User should be able to download report as excel as per browser's download settings and navigate back to Projects dashboard. |
| 7 | User checks the excel | **User should see report contains an aggregated view total commissioned light point per country** |
| **Execution type:** | Manual |  |
| **Estimated exec. Duration (min):** | 5 Min |  |
| **Priority:** | High |  |
| **Requirements:** | VE-2901 - Operation Efficiency - Invoicing IAC |  |

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| **Test case Number: 16 Test case Title : Validate downloaded file name for the report.** | | |
|
| **Summary:** **Validate downloaded file name for the report.** | | |
| **Preconditions: 1.** Ensure that the User should have access to the application and valid credentials.  **2**. Projects should be created. | | |
| #. | **Steps action:** | **Expected results:** |
| 1 | Launch the Application. | Login Screen should be displayed. |
| 2 | In the Login screen, enter the  credentials and click "Sign In". | Home Screen should be displayed. |
| 3 | Navigate to the projects dashboard. | It should be navigated to the projects dashboard and Should see “Invoicing” Button |
| 4 | User click on “Invoicing” Button | User should see **Download dialog opens** |
| 5 | User Select the month and year | User select Dec month and 2020 year |
| 6 | User clicks on Download button | User should be able to download report as excel as per browser's download settings and navigate back to Projects dashboard. |
| 7 | User checks the excel file name | **User should see appropriate name for report.** |
| **Execution type:** | Manual |  |
| **Estimated exec. Duration (min):** | 5 Min |  |
| **Priority:** | High |  |
| **Requirements:** | VE-2901 - Operation Efficiency - Invoicing IAC |  |

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| **Test case Number: 17 Test case Title : Compare two reports one downloaded in Feb month and other downloaded in April of 2021** | | |
|
| **Summary:** **Compare two reports one downloaded in Feb month and other downloaded in April of 2021.** | | |
| **Preconditions: 1.** Ensure that the User should have access to the application and valid credentials.  **2**. Projects should be created. | | |
| #. | **Steps action:** | **Expected results:** |
| 1 | Launch the Application. | Login Screen should be displayed. |
| 2 | In the Login screen, enter the  credentials and click "Sign In". | Home Screen should be displayed. |
| 3 | Navigate to the projects dashboard. | It should be navigated to the projects dashboard and Should see “Invoicing” Button |
| 4 | User click on “Invoicing” Button | User should see **Download dialog opens** |
| 5 | User Select the month and year | User select Feb month and 2021 year |
| 6 | User clicks on Download button | User should be able to download report as excel as per browser's download settings and navigate back to Projects dashboard. |
| 7 | User Select the month and year | User select April month and 2021 year |
| **8** | User clicks on Download button | User should be able to download report as excel as per browser's download settings and navigate back to Projects dashboard. |
| **9** | User compare the reports downloaded. | **Feb month report should have Jan, Feb months columns and Jan month should have summation of pervious year also (from site creation date) and**  **April month report should have Jan, Feb, March and April months columns and Jan month should have summation of pervious year also (from site creation date).** |
| **Execution type:** | Manual |  |
| **Estimated exec. Duration (min):** | 5 Min |  |
| **Priority:** | High |  |
| **Requirements:** | VE-2901 - Operation Efficiency - Invoicing IAC |  |