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| ID | GWP and INS Integration |
| GWP&INS127 | 2 TC\_Replication\_from\_to\_GWP |
| GWP&INS44 | 2.1 Purpose The purpose of this test case is to verify as a Regression Data Replication between GWP and Instrument |
| GWP&INS45 | 2.2 Setup and Configuration |
| GWP&INS46 | This test case has to be executed on GWP Enviroment.  A compatible GEMNet version instrument needs to be connected:  Optional would be:  1. Configure clients AA and AB to be in area A. Configure client BB to be in area B.  2. Internal printer is enabled. External printer (networked) must be configured and enabled.  3. Set security for analyze samples to unrestricted.  4. Analyzer is in the ‘Ready’ status.  5. External keyboard is enabled.  6. Sample types configuration from ‘Sample Types Setup’ screen is set to default (Arterial-Syringe, Capillary-Capillary, Mixed Venous-Syringe, Venous-Syringe, Other-Syringe, Other-Capillary) plus GEM Evaluators  7. Patient sample results with corresponding patient IDs, Patient Last Name, Patient First Name, Patient Birth Date, Order Number, Operator ID, Sample Number, and Clinician must already exist. Run all samples from spreadsheet SEARCH\_SAMPLES.xls located in farpoint ‘…\g4K\doc\sqa\test\_datafiles\SearchResFromMenu\’.  Note: Spreadsheet can be found in AccuRev also in same directory. |
| GWP&INS47 | 2.3 Replication from GWP to instrument |
| GWP&INS48 | Go to Config > Global > Manage areas  Change the area name in which the instrument belongs  Save the change |
| GWP&INS49 | Verify on the instrument that the area name has been changed |
| GWP&INS50 | Go to Config > Global > Units of Measure  Change some units of different analytes  Save changed |
| GWP&INS51 | Verify, on the samples of the instrument, that it is displayed the analytes changed values with the units selected. |
| GWP&INS52 | Go to Config > Global > CVP Material Setup  Add a new CVP material.  On the instrument, try to run a CVP sample |
| GWP&INS53 | Verify you can see the new CVP material in the list of CVPs. |
| GWP&INS54 | Go to Config > Global > Other Material Setup  Add a new material.  On the instrument, try to run a QC (GEM EVAL) sample with the new material. |
| GWP&INS55 | Verify you can see the new material in the list of GEM EVALs. |
| GWP&INS58 | Go to Config > Global > Date and Number Format  Change the date and the number format  Save changes. |
| GWP&INS59 | Verify, on the samples of the instrument, that it is displayed the analytes values with the number format selected. |
| GWP&INS60 | Go to Config > Global > Patient Id Drop Down  Uncheck the option.  run a sample throughout the instrument with different id patients |
| GWP&INS61 | Verify on the instrument that the previously entered ids are not displayed. |
| GWP&INS62 | Go to Config > Global > Patient Id Drop Down  Check the option.  run a sample throughout the instrument with different id patients |
| GWP&INS63 | Verify, on the instrument, that you can see the ids patients previously introduced |
| GWP&INS64 | Go to Config > Global > Custom Demographics  Create new custom demographic fields of each type  Save changes  run a sample throughout the instrument |
| GWP&INS65 | Verify that the custom fields appears in their respective columns |
| GWP&INS66 | Go to Config > Global > Custom Parameters  Create a new custom parameter (entered and o2vent)  Save changes  On the instrument, go to Management > Analyzer > Configuration > Parameters Setup.  Click on the parameter type |
| GWP&INS67 | Verify that the new custom parameter appears |
| GWP&INS68 | Go to Config > Global > Custom Sample Types  Create a new custom sample type  Save changes  Go to Config > Area > Sample Types Setup  Search the new type and check any icon  Save changes  On the instrument, try to run a sample |
| GWP&INS69 | Verify that appear the new type where it is select the type sample. |
| GWP&INS70 | Go to Config > Global > Network Printers  Create a new network printer  On the instrument, go to Management > Analyzer > Configuration > Printers Setup > Select Network Printer |
| GWP&INS71 | Verify the existence of the new network printer |
| GWP&INS72 | Go to Config > Global > Global Print Options.  Configure the report title.  Configure the network printer on the instrument  Go to the View Last Result and print it. |
| GWP&INS73 | Verify that the report title is displayed in the printed report |
| GWP&INS74 | Go to Config > Global > Patient Ranges  Introduce some values in any parameter  Save changes  On the instrument, run a new sample. |
| GWP&INS75 | Verify that the sample result displays the parameter with a background color depending on the value and range introduced. |
| GWP&INS76 | Go to Config > Area > Demographics Setup  Disable any parameter and mark another as required  Save changes  On the instrumetn, go to View Last Results > Enter Info |
| GWP&INS77 | Verify on the instrument that the required parameter is displayed in the correct column and the parameter removed is not displayed |
| GWP&INS78 | Go to Config > Area > Test Panel Setup  Create a new Test. |
| GWP&INS79 | Verify that the new Test is displayed on the instrument and that you can run a sample using it. |
| GWP&INS80 | Go to Config > Area > Sample Types Setup  Change any source type |
| GWP&INS81 | Verify on the instrument that the resource icon is changed |
| GWP&INS82 | Go to Config > Area > Sample Comments Setup  Add new comment.  Save changes  Go to the instrument > View Last Results > Comment > Select Predefined Comment |
| GWP&INS83 | Verify that the previously entered comment is displayed |
| GWP&INS84 | Go to Config > Area > Ventilator Setup  Add a new ventilator and device name  Save changes  Go to Config > Analyzer  Select the analyzer  Go to Parameter Setup > O2 & Vent  Mark: Mode #1, Mode #2, O2 Device #1 and O2 Device #2  Save changes  Go to the configured instrument  run a new sample |
| GWP&INS85 | Verify that in the selectors "Mode #1" and "Mode #2" the ventilator previously created is displayed |
| GWP&INS86 | Verify that in the selectors "O2 Device #1" and "O2 Device #2" the device previously created is displayed |
| GWP&INS87 | Go to Config > Area > Reportable Range  Modify the User Defined Upper Limit of any parameter with the lowest value that can  Save changes  Go to the instrument  run a new sample. |
| GWP&INS88 | Verify that the modified parameter has the correct background color |
| GWP&INS89 | Verify that the tag Outside Reportable Range is displayed |
| GWP&INS90 | Go to Config > Area > Results Verification Setup  Mark all options  run a new patient sample by deactivating parameters that are not within range and inform Patient Id |
| GWP&INS91 | Verify that the sample has been accepted automatically. |
| GWP&INS92 | run a new QC (GEM EVAL) sample. All its parameters must be in range |
| GWP&INS93 | Verify that the QC (GEM EVAL) sample has been accepted automatically |
| GWP&INS94 | Go to Config > Area > Flag Sample Results  Enable the option  run a new patient sample |
| GWP&INS95 | Verify the message 'Checking for presence of interference and micro-clots' is displayed |
| GWP&INS96 | Go to Config > Global > Patient Ranges  Config any parameter (e.x. 0 1 2 3) to force an outside critical error  Go to Config > Area > Notification Setup  Enable both options  run a new patient sample |
| GWP&INS97 | Verify that appear the notify button |
| GWP&INS98 | Verify that it is not possible to validate the sample without prior notification |
| GWP&INS99 | Go to Config > Global > Global Print Options  Populate all the fields  Save changes  run a new patient sample  Print it |
| GWP&INS100 | Verify that the printed report shows the new fields. |
| GWP&INS101 | Go to Config > Analyzer > Change Analyzer Name  Rename the analyzer  Save changes |
| GWP&INS102 | Verify that the analyzer's new name is displayed at the top of the analyzer |
| GWP&INS103 | Go to Config > Analyzer > Parameters Setup  Disable some parameters  Save changes  run a new patient sample |
| GWP&INS104 | Verify that previously disabled parameters are not displayed |
| GWP&INS105 | run a new patient sample.  Go to Config > Analyzer > Correlation Factors  Change the values of some parameters  Save changes  run a new patient sample  Compare the first and second samples |
| GWP&INS106 | Verify that the modified parameters has been changed |
| GWP&INS107 | Go to Config > Analyzer > Sample Removal Confirmation  Enable the option 'Require Operator to Press OK to Confirm Sample Removal'  Save changes  run a new arterial sample of the patient  Start aspiration |
| GWP&INS108 | Verify that at the end of the aspiration, appear an "OK" button and a 15 second countdown |
| GWP&INS109 | Go to Config > Analyzer > Local Interface  Create a new local interface  Go to the instrument  Click the connectivity button at the top of the screen. |
| GWP&INS110 | Verify that the new interface appears . |
| GWP&INS111 | run a new patient sample and populate all patient, clinician and operator information  Go to Config > Analyzer > Default Values  Mark all options  run a new patient sample |
| GWP&INS112 | Verify that all patient, clinician, and operator fields have been auto-populated |
| GWP&INS113 | Go to Config > Analyzer > External Keyboard  Enable the option  Save changes  Go to the instrument > Management > Analyzer > Configuration |
| GWP&INS114 | Verify that the External Keyboard is enabled |
| GWP&INS115 | Go to Config > Analyzer > iQM Process "C" Time  Change the time value  Save changes  Go to the instrument > Management > Analyzer > Configuration |
| GWP&INS116 | Verify that the iQM Process has the same value that in GWP |
| GWP&INS117 | In GWP, find the last samples run from the instrument  Click the Comments button  Add a new comment.  On the instrument, go to 'View Last Results'.  Click the Comments button |
| GWP&INS118 | Verify that the last comment added in GWP is displayed |
| GWP&INS119 | In GWP, find the last samples run from the instrument  Click on the Sample Information button  Change some values in the "Demographic Patient"  In the instrument, go to "View last results".  Click on the sample information section |
| GWP&INS120 | Verify that changes in GWP are displayed on the instrument |
| GWP&INS121 | Go to Config > Area  Select "A" area  Go to "Ventilator Setup"  Change the configuration and save  Click the "Copy to Area" button  run a new sample of patient with the instrument that belongs to area "B" |
| GWP&INS122 | Verify that the "Other" fields show the same options as in an instrument belonging to area "A" |
| GWP&INS123 | Go to Config > Global > Interface Setup  Set up a new HL7 interface with the "Get orders" option enabled.  run some orders through a simulator |
| GWP&INS124 | Verify that the orders sections appear and there are all the orders sent |
| GWP&INS154 | 2.4 Replication from instrument to GWP |
| GWP&INS129 | Run a patient sample through an instrument.  In GWP, search the last sample of this instrument. |
| GWP&INS130 | Verify that there is the same sample |
| GWP&INS131 | Run a QC sample through an instrument.  In GWP, search the last sample of this instrument. |
| GWP&INS132 | Verify that there is the same sample |
| GWP&INS133 | Run a CVP sample through an instrument.  In GWP, search the last sample of this instrument. |
| GWP&INS134 | Verify that there is the same sample |
| GWP&INS135 | Run a PVP sample through an instrument.  In GWP, search the last sample of this instrument. |
| GWP&INS136 | Verify that there is the same sample |
| GWP&INS137 | Run a GEM Evaluator sample through an instrument.  In GWP, search the last sample of this instrument. |
| GWP&INS138 | Verify that there is the same sample |
| GWP&INS139 | Run a Proficiency sample through an instrument.  In GWP, search the last sample of this instrument. |
| GWP&INS140 | Verify that there is the same sample |
| GWP&INS219 | Go to Menu > Management > Anayzer > Local Configuration  Access to the following configuration screens and perform some changes. Write them down.  Parameters Setup  Correlation Factors  Sample Removal Confirmation  Sound Volume  External keyboard  iQM Process "C" Time  Default Clinitian  Default Patient ID  Default Operator ID  Local Interface  CVP Material  GSE/GHE Schedule setup if the license is enabled in your system |
| GWP&INS220 | Verify on the GWP that the changes have been replicated |
| GWP&INS141 | Disconnect the instrument from the network  run three patients samples through an instrument. Leave one not validated, accept the other 2 and amend one of the accepted saples  Reconnect the instrument.  In GWP, search the lasts sample of this instrument. |
| GWP&INS142 | Verify that there are the three samples previously run |
| GWP&INS143 | Disconnect the instrument from the network  run three QCs samples through an instrument.  Reconnect the instrument.  In GWP, search the lasts sample of this instrument. |
| GWP&INS144 | Verify that there are the three samples previously run |
| GWP&INS145 | Disconnect the instrument from the network  run three CVPs samples through an instrument.  Reconnect the instrument.  In GWP, search the lasts sample of this instrument. |
| GWP&INS146 | Verify that there are the three samples previously run |
| GWP&INS147 | Disconnect the instrument from the network  run three PVPs samples through an instrument.  Reconnect the instrument.  In GWP, search the lasts sample of this instrument. |
| GWP&INS148 | Verify that there are the three samples previously run |
| GWP&INS149 | Disconnect the instrument from the network  run three GEM Evaluators samples through an instrument.  Reconnect the instrument.  In GWP, search the lasts sample of this instrument. |
| GWP&INS150 | Verify that there are the three samples previously run |
| GWP&INS151 | Disconnect the instrument from net  run three Proficiency samples through an instrument.  Reconnect the instrument.  In GWP, search the lasts sample of this instrument. |
| GWP&INS152 | Verify that there are the three samples previously run |
| GWP&INS128 | Disconnect the instrument from network |
| GWP&INS125 | Go to Menu > Management > Anayzer > Local Configuration  Access to the following configuration screens and perform some changes. Write them down.  Parameters Setup  Correlation Factors  Sample Removal Confirmation  Sound Volume  External keyboard  iQM Process "C" Time  Default Clinitian  Default Patient ID  Default Operator ID  Local Interface  CVP Material  GSE/GHE Schedule setup if the license is enabled in your system |
| GWP&INS31 | Reconnect the instrument back to the server |
| GWP&INS20 | Verify on the GWP that the changes have been replicated |
| GWP&INS155 | 3 TC-Analytes-Analyzer\_Replication |
| GWP&INS156 | 3.1 Purpose The purpose of this test case is to verify as a Regression that the parametres and the analyzer status is replicated to the server and therefore displayed on the whole system. |
| GWP&INS157 | 3.2 Setup and Configuration To run the test case work on a system with a G5K and/or a G4K instruments connected. You will need 2 instruments to run this test.  For G5k instrument enable GEM Eval and add some materials so you can run the GEM Eval |
| GWP&INS158 | 3.3 Connection |
| GWP&INS159 | Login into GWP  Verify that instruments (G4k/G5K) are shown as connected |
| GWP&INS160 | 3.4 Without cartridge |
| GWP&INS161 | From instruments, remove cartridge.  Verify that instrument is shown without analyte details |
| GWP&INS162 | 3.5 With Cartridge - Warming up |
| GWP&INS163 | Insert a cartridge in the instruments |
| GWP&INS164 | Go to Analyzer details screen and verify the instrument status is warming up |
| GWP&INS165 | Verify analytes are displayed are the ones set in the cartridge and shown correctly |
| GWP&INS203 | Verify that the number of tests and remaining days of the cartridge is the same as the one displayed in the instrument |
| GWP&INS198 | 3.6 Analyzer CVP Due Status |
| GWP&INS201 | For instruments with CVP due status  Verify that in analyzer status bar the CVP due status is shown |
| GWP&INS202 | Verify that in less than 15 seconds the status has been replicated to the server, the other client and web client |
| GWP&INS215 | 3.7 Extending Probe - Present/Remove Sample - Analyzing - Processing Status |
| GWP&INS217 | GWP: On AnalyzerA select to run a CVP. On sw test mode the states happen too quick to be able to see them all replicated; so along the CVPs and sample run try to see as much status as possible. An other option would be to be able to run the test case on a production system and this might be easyer to get though all the status.  verify the status are shown in the same way in the analyzer and in GWP |
| GWP&INS205 | 3.8 Ready Status |
| GWP&INS206 | After running the last CVP, or finishing warming up -depending on the insturment model-  Verify that in analyzer status bar the Ready status is shown |
| GWP&INS207 | Verify that in less than 15 seconds the status has been replicated to the server, the other client and web client |
| GWP&INS208 | 3.9 Locked/Unlocked Status |
| GWP&INS209 | From the server, web client or Analyzer B select AnalyzerA icon. On Analyzer detail screen select Lock Analyzer button. Accept the message |
| GWP&INS210 | Verify that in AnalyzerA, status bar the Locked status is shown |
| GWP&INS211 | Verify that in less than 15 seconds the status has been replicated to the server, the other client and web client |
| GWP&INS212 | From the server, web client or Analyzer B select AnalyzerA icon. On Analyzer detail screen select Unlock Analyzer button. Accept the message |
| GWP&INS213 | Verify that in AnalyzerA, status bar the Ready status is shown |
| GWP&INS214 | Verify that in less than 15 seconds the status has been replicated to the server, the other client and web client |
| GWP&INS174 | 3.10 Analyte Locked/Unlocked Status |
| GWP&INS175 | GWP: For each analyte lock/unlock the analyte |
| GWP&INS176 | Instrument: Verify the analyte gets locked/unlocked |
| GWP&INS180 | 3.11 APV/Amp. Due Status- Only G5K |
| GWP&INS181 | GWP: Select the G5K instrument in analyzer combo |
| GWP&INS182 | Go to GSE/GHE Schedule Setup, Set an schedule for a GSE/GHE |
| GWP&INS184 | G5K instrument: From the instrument run a GEM Evaluator (Ampoule) with some analytes failing |
| GWP&INS185 | G5K instrument: Go to sample search and check that there are failed parameters |
| GWP&INS186 | GWP and G5K Instrument: Go to Analyzer screen |
| GWP&INS187 | Verify the failed parameters are in APV/Amp. Due status |
| GWP&INS196 | 3.12 Analyte IQM Fail, Fixing, Unvail Status |
| GWP&INS190 | At the instrument: Open /opt/il/gem4k/bin/demosensor.csv in the instrumnt (perform a copy backup first of the csv file)  modify values for column 7 (K+) from A row to 99  This numbers are orientative, if the coeficients and limits change, you may not get the expected results |
| GWP&INS191 | At the instrument: run 2 iQM process in the instrument |
| GWP&INS188 | At the instrument: Open /opt/il/gem4k/bin/demosensor.csv in the instrumnt (perform a copy backup first of the csv file)  modify values for column 6 (Na+) from A row to 70  This numbers are orientative, if the coeficients and limits change, you may not get the expected results |
| GWP&INS167 | At the instrument: run another iQM process in the instrument |
| GWP&INS192 | At the and GWP: Go to Analyzer screen |
| GWP&INS193 | At the and GWP: verify Na+ analyte is in "Fixing" status |
| GWP&INS194 | At the and GWP: verify K+ analyte is in "iQM Fail" status |
| GWP&INS195 | At the and GWP: verify Hct analyte is in "Unavail" status |
| GWP&INS166 | Verify also that the number of tests and remaining days of the cartridge is the same as the one displayed in the instrument |