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| 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 Integration Function**  **API Used** | **verifySample(String analyzerName, String patientId, String sampleType, String sampleAnalyzedTime)**  **GWP\_IP + api/samples?sampleNumber=\*&operatorId=\*&clinician=\*&orderNumber=\*&limit=50&offset=0** |
| 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 Integration Function**  **API Used** | **verifyLastThreeSamples(String analyzerName, String patientId, String sampleType, String sampleStatus)**  **GWP\_IP + “api/samples?sampleNumber=\*&operatorId=\*&clinician=\*&orderNumber=\*&limit=50&offset=0”** |
| \*\*\*\*\*\*\*\*\*\*\*\*\*\*\* | \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* |
| GWP&INS125 | Go to Menu > Management > Anayzer > Local Configuration  Access to the following configuration screens and perform some changes. Write them down. |
| **Parameters Setup**  **API Used** | **verifyParametersSetup(String analyzerName, String parameter, boolean enabled)**  **GWP\_IP + "api/analyzers/"+ analyzerId + “config/parameter\_setup”** |
| **Correlation**  **Factors**  **API Used** | **verifyCorrelationFactors(String analyzerName, String parameter, double slope, double offset)**  **GWP\_IP + "api/analyzers/"+ analyzerId + “config/correlation\_factors”** |
| **Sample Removal Confirmation**  **API Used** | **verifySampleRemovalConfirmation(String analyzerName, boolean confirmSampleRemoval, int retractProbeTimeout)**  **GWP\_IP + "api/analyzers/"+ analyzerId + "/config/sample\_removal\_confirmation"** |
| **Sound Volume**  **API Used** | **verifySoundVolume(String analyzerName, String touchKeySound)**  **GWP\_IP + "api/analyzers/"+ analyzerId + "/config/sound\_volume"** |
| **External keyboard**  **API Used** | **verifyExternalKeyboard(String analyzerName, boolean useExternalKeyboard)**  **GWP\_IP + "api/analyzers/"+ analyzerId + "/config/ external\_keyboard"** |
| **iQM Process "C" Time**  **API Used** | **verifyIQMProcessCTime(String analyzerName, String time)**  **GWP\_IP + "api/analyzers/"+ analyzerId + " /config/ccal\_time"** |
| **Default Clinician**  **API Used** | **verifyDefaultClinician(String analyzerName, boolean defaultClinician)**  **GWP\_IP + "api/analyzers/"+ analyzerId + " /config/ default\_values"** |
| **Default Patient ID**  **API Used** | **verifyDefaultPatientID(String analyzerName, boolean defaultPatientID)**  **GWP\_IP + "api/analyzers/"+ analyzerId + " /config/ default\_values"** |
| **Default Operator ID**  **API Used** | **verifyDefaultOperatorID(String analyzerName, boolean defaultOperatorID)**  **GWP\_IP + "api/analyzers/"+ analyzerId + " /config/ default\_values"** |
| **Global Interface**  **API Used** | **verifyGlobalInterfaceSetup(String connectionName, String connectionType, String highLevelProtocol, String postResults, boolean recieveOrders)**  **GWP\_IP + "api/ecm"** |
| **Local Interface**  **API Used** | **verifyLocalInterfaceSetup(String analyzerName, String connectionName, String connectionType, String highLevelProtocol, boolean sendPatientResults, boolean sendIQMProcessData, boolean sendQualityReports, boolean sendGEMEvaulatorResults)**  **GWP\_IP + "api/analyzers/"+ analyzerId + /ecm"** |
| **CVP Material**  **API Used** | **verifyCVPMaterialSetup(String lOTNumber, String lotDesc, String model)**  **GWP\_IP + "api/qc\_lot/CVP"** |
| **Other Material Setup**  **API Used** | **verifyOtherMaterialSetup(String lOTNumber, String lotDesc, String model)**  **GWP\_IP + "api/qc\_lot/GEM\_EVALUATOR"** |
| 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 Integration Function**  **API Used** | **verifyAnalyzerConnected(String analyzerName)**  **GWP\_IP + "api/analyzers/"+ analyzerId + " /status"** |
| GWP&INS160 | **3.4 Without cartridge** |
| GWP&INS161 | From instruments, remove cartridge.  Verify that instrument is shown without analyte details |
| **GWP Integration Function**  **API Used** | **verifyAnalytesWithoutCartridge(String analyzerName)**  **GWP\_IP + "api/analyzers/"+ analyzerId + " /status"** |
| 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 Integration Function**  **API Used** | **verifyStatusWithCartridge(String analyzerName)**  **GWP\_IP + "api/analyzers/"+ analyzerId + " /status"** |
| GWP&INS165 | Verify analytes are displayed are the ones set in the cartridge and shown correctly |
| **GWP Integration Function**  **API Used** | **verifyAnalytesWithCartridge(String analyzerName, List<String> analytesList)**  **GWP\_IP + "api/analyzers/"+ analyzerId + " /status"** |
| 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 Integration Function**  **API Used** | **verifyTestsAndDaysWithCartridge(String analyzerName, int tests, int days)**  **GWP\_IP + "api/analyzers/"+ analyzerId + " /status"** |
| 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. Another 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 instrument 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 Integration Function**  **API Used** | **verifyAnalyzerStatusBar(String analyzerName, String instrumentStatus)**  **GWP\_IP + "api/analyzers/"+ analyzerId + " /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 |
| **GWP Integration Function**  **API Used** | **verifyAnalyteStatus(String analyzerName, String analyte, String status)**  **GWP\_IP + "api/analyzers/"+ analyzerId + " /status"** |