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AutoTester documentation	1.0	04.01.2015

# AutoTester

# Documentation

Petr Rašek

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# 1. Introduction

# 1.1 Purpose

AutoTester is application designed for preparation, execution and maintenance of automated test cases.

# **1.2 Scope**

The scope of this document is to

- Describe installation of the AutoTester application
- Describe the application usage
- Describe scripting capabilities
- Describe system design

#### 1.3 Download

The application is distributed under GNU GPL v2 license.

Source code is available on <a href="https://github.com/lynusbowman/AutoTester/tree/1.0">https://github.com/lynusbowman/AutoTester/tree/1.0</a>

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### 2. Installation

# 2.1 Operating system

The AutoTester application is implemented on J2EE technology so it can be deployed on any usual operating system (verified on Windows and Linux). Following manual describes detailed installation procedure for Linux (target OS in TMCZ).

### 2.2 Java

Install Java 7 development kit (i.e. JDK 1.7.0\_80).

Extract the archive to folder /usr/java.

Set environment variables PATH and JAVA\_HOME which point to Java bin folder.

```
export PATH=$PATH:/usr/java/jdk1.7.0_80/bin
export JAVA HOME=/usr/java/jdk1.7.0 80/bin
```

# 2.3 Application server

Install Glassfish 4.1 application server.

Extract the archive to folder /opt/glassfish

Create maintenance script /etc/init.d/glassfish and set execute permission (chmod a+x).

Add the script to RC update-rc.d glassfish defaults

# 2.3.1 Maintenance script

The script is used to start, stop or restart application server and database.

```
#! /bin/sh
GLASSFISHPATH=/opt/glassfish/bin
case "$1" in
start)
echo "starting glassfish from $GLASSFISHPATH"
```

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```
sudo $GLASSFISHPATH/asadmin start-domain domain1
sudo $GLASSFISHPATH/asadmin start-database
;;
stop)
echo "stopping glassfish from $GLASSFISHPATH"
sudo $GLASSFISHPATH/asadmin stop-database
sudo $GLASSFISHPATH/asadmin stop-domain domain1
;;
restart)
$0 stop
$0 start
;;
*)
echo $"usage: $0 {start|stop|restart}"
exit 3
;;
esac
```

#### 2.4 Database

Glassfish contains embedded Derby database which is used as test case repository. Separate installation is not needed.

# 2.5 Application

### 2.5.1 Glassfish configuration

Configure JDBC connection pool for Derby database.

#### Configuration file is located in

/opt/glassfish/domains/domain1/config/domain.xml.

#### Add following text to element resources

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```
<property name="ConnectionAttributes" value="create=true"></property>
  <property name="User" value="APP"></property>
  <property name="DatabaseName" value="TEST"></property>
  <property name="Ssl" value="off"></property>
  <property name="RetrieveMessageText" value="true"></property>
  <property name="LoginTimeout" value="0"></property>
  <property name="ServerName" value="localhost"></property>
  <property name="TraceLevel" value="-1"></property>
  <property name="TraceLevel" value="-1"></property>
  <property name="PortNumber" value="1527"></property>
  <property name="Password" value="APP"></property>
  </property name="Password" value="APP"></property>
  </property name="possword" value="app"></property>
  </property name="possword" value="app"></property>
```

#### Add following test to element servers

<resource-ref ref="jdbc/TestDS"></resource-ref>

#### 2.5.2 Application configuration

Configure application log folder in file log4j2.xml

<Property name="log-path">/home/lynus/private/autotester/log</Property>

Configure test case folder in file config.properties

testCasesPath=/home/lynus/private/autotester/tests/

# 2.6 Deployment

Make new build AutoTester-1.0.war with updated configuration files.

Start application server (default admin port 4848, default application port 8080) and database (default port 1527). Try to ping connection pool.

Copy war file AutoTester-1.0.war to

/opt/glassfish/glassfish/domains/domain1/autodeploy/AutoTester.war

Open URL <a href="http://localhost:8080/AutoTester">http://localhost:8080/AutoTester</a>

Check server.log (located in

/opt/glassfish/glassfish/domains/domain1/logs) and app.log (located in log4j2 folder) for exceptions.

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Check database - connection string:jdbc:derby://localhost:1527/TEST, user APP, pass APP. Following tables are created TEST\_CASE\_GROUP, TEST\_CASE, TEST\_RUN, TEST\_RUN\_LOG.

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# 3. User manual

# 3.1 User interface

Application has web graphical interface (see fig 1).

Each user control is explained in tab 1.

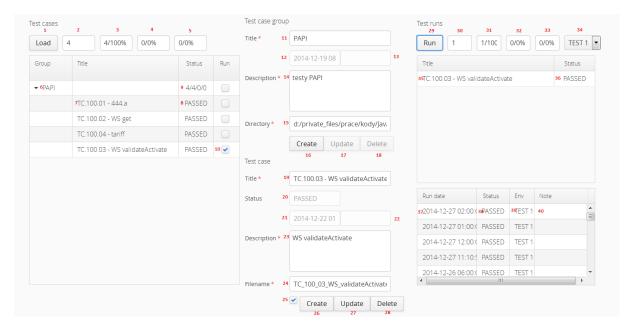


Figure 1: GUI

Control ID	Control title	Description
1	Load test cases	<ul> <li>Load all test cases and groups from DB</li> <li>Populate table and counters (controls 2-5)</li> <li>Clear test runs</li> </ul>
2	Total test cases	Count of test cases in DB
3	Passed test cases	<ul> <li>Count of passed test cases in DB (including percentage)</li> </ul>
4	Failed test cases	<ul> <li>Count of failed test cases in DB (including percentage)</li> </ul>
5	Not run test cases	<ul> <li>Count of not run test cases in DB (including percentage)</li> </ul>
6	Test case group title	<ul> <li>Test case group title</li> <li>Form Test case group is pre-filled after cell click event</li> </ul>
7	Test case title	<ul> <li>Test case title</li> <li>Forms Test case group and Test case after pre-filled after cell click event</li> </ul>
8	Test case status	Test case status     Options PASSED, FAILED, NOTRUN
9	Group counters	<ul><li>Test case status counters within group</li><li>Total/Passed/Failed/Not run</li></ul>

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10	Run test case	Add/Remove test case to/from test runs table  Obsallbasis group rous adds/removes all test
		<ul> <li>Checkbox in group row adds/removes all test cases within group</li> </ul>
11	Group title	Test case group title, mandatory, stored in column TITLE
12	Group create date	Test case group create date, stored in column CREATE DATE
13	Group modify date	Test case group modify date, stored in column MODIFY DATE
14	Group description	Test case group description, mandatory, stored in column DESCRIPTION
15	Group directory	<ul> <li>Test case group directory, mandatory, stored in column DIRECTORY</li> <li>The field is pre-filled with configured property testCasesPath</li> </ul>
16	Create group	<ul> <li>Create test case group</li> <li>Insert record to table TEST_CASE_GROUP and create directory on filesystem</li> <li>Mandatory fields Title, Description, Directory</li> </ul>
17	Update group	<ul> <li>Update test case group</li> <li>Update record in table TEST_CASE_GROUP and directory on filesystem</li> <li>Available fields Title, Description, Directory</li> </ul>
18	Delete group	<ul> <li>Delete test case group</li> <li>Delete record in table TEST_CASE_GROUP and directory on filesystem</li> <li>Test cases within group are also deleted</li> </ul>
19	Case title	Test case title, mandatory, stored in column TITLE
20	Case status	<ul> <li>Test case status, stored in column STATUS</li> <li>Options PASSED, FAILED, NOTRUN</li> </ul>
21	Case create date	Test case create date, stored in column CREATE_DATE
22	Case modify date	Test case modify date, stored in colum     MODIFY_DATE
23	Case description	Test case description, mandatory, stored in column DESCRIPTION
24	Case filename	<ul> <li>Test case filename, mandatory, stored in column FILENAME</li> <li>The field is pre-filled with configured property testCaseSuffix</li> </ul>
25	Auto test case	Test case will be executed automatically by scheduler, stored in column AUTO
26	Create case	<ul> <li>Create test case</li> <li>Insert record to table TEST_CASE an create file on filesystem</li> <li>Mandatory fields Title, Description, Filename, Test case group Title</li> </ul>
27	Update case	<ul><li>Update test case</li><li>Update record in table TEST_CASE and file</li></ul>

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		<ul><li>on filesystem</li><li>Available fields Title, Description, Filename,</li></ul>
		Auto test case, Test case group
28	Delete case	Delete test case
		<ul> <li>Delete record in table TEST_CASE and file on filesystem</li> </ul>
		Test case history is also deleted
29	Run test cases	<ul> <li>Run test cases in table on selected environment</li> </ul>
		<ul> <li>Populate counters (controls 30-33)</li> </ul>
30	Total test cases	<ul> <li>Count of test cases</li> </ul>
31	Passed test cases	<ul> <li>Count of passed test cases</li> </ul>
32	Failed test cases	<ul> <li>Count of failed test cases</li> </ul>
33	Not run test cases	<ul> <li>Count of not run test cases</li> </ul>
34	Environment	<ul> <li>Test environment</li> </ul>
		<ul> <li>Options TEST1, TEST2</li> </ul>
35	Case title	<ul> <li>Title of run test case</li> </ul>
36	Case status	<ul> <li>Status of run test case</li> </ul>
37	Case run date	Date of test case run
38	Case run status	Status of test case run
39	Case run environment	Enviroment of test case run
40	Case run note	Note of test case run
		<ul> <li>It is editable in DB only</li> </ul>

Table 1 - User controls

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# 3.2 Test case workflow

Typical application usage is displayed on fig 2.

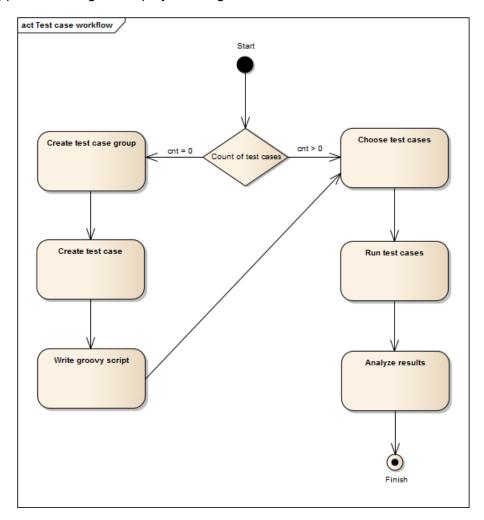


Figure 2 - Test case workflow

# 3.3 Scheduled execution

Test cases which are markered with checkbox Auto test case are executed automatically by scheduler (currently configured at 17:15).

The result is reported via email (currently sent to <a href="mailto:petr.rasek@t-mobile.cz">petr.rasek@t-mobile.cz</a>), see fig 3.

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# **AUTOTESTER report**

autotester@t-mobile.cz

Sent: ne 28.12.2014 17:15

To: Rašek Petr

This is automatic report for executed test cases

# Status report

Туре	Count	Percentage
Total	4	
Passed	4	100%
Failed	0	0%
Not run	0	0%

# Test case report

Group	Title	Status
PAPI	TC.100.01 - 444.a	PASSED
PAPI	TC.100.02 - WS get	PASSED
PAPI	TC.100.04 - tariff	PASSED
PAPI	TC.100.03 - WS validateActivate	PASSED

Figure 3 - Email report

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# 4. Scripting

#### 4.1 Introduction

Test scripts are written in Groovy language which runs on JVM so it can easily cooperate with Java. AutoTester application contains functions which facilitate testing of TMCZ applications.

### Covered applications:

- Clarify
- operates with QCLF DB
- covers customer structure, services, PAPI
- DWH
- operates with QDTW DB
- covers customer structure (in ODS), services (in ODS, MTX)
- Billing
  - operates with QAMECU DB
  - covers customer structure, offers on SU level
- DTS
- operates with QAP DB
- covers DTS tables designed for any consumer (VCC, CRM applications)
- Notifications
  - operates with QCNH DB
  - covers notifications triggered by any application which uses CNH
- Business services
  - operates with SA web service endpoint
  - covers operations: get, activate, modify, deactivate (including validation)

#### 4.2 Examples

#### 4.2.1 CLF

#### 4.2.1.1 Customer structure

Script TC\_EX\_CLF\_01\_Customer\_structure.groovy

```
// initialization
import com.bowman.autotester.Utilities
result = 0
util = new Utilities(logID)

try {
// start
util.log("START")
```

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```
// setup
MSISDN = "603847346"
util.clf.connect(env)
// get customer hierarchy
hier = util.clf.getCustHierarchy(MSISDN)
CU = util.clf.getCU(MSISDN)
LE = util.clf.getLE(MSISDN)
OU = util.clf.getOU(MSISDN)
EU = util.clf.getEU(MSISDN)
BA = util.clf.getBA(MSISDN)
SU = util.clf.getSU(MSISDN)
// check hierarchy
assert util.check("CU", hier.getCU().getExtID(), CU) == 1
assert util.check("LE", hier.getLE().getExtID(), LE) == 1
assert util.check("OU", hier.getOU().getExtID(), OU) == 1
assert util.check("EU", hier.getEU().getExtID(), EU) == 1
assert util.check("BA", hier.getBA().getExtID(), BA) == 1
assert util.check("SU", hier.getSU().getExtID(), SU) == 1
// bilcycle
BC = util.clf.getBillCycle(MSISDN)
assert util.check("BC", BC.getID(), 52) == 1
// segment
segment = util.clf.getSegment(MSISDN)
assert util.check("Segment", segment.getTitle(), "LE") == 1
// market
market = util.clf.getMarket(MSISDN)
assert util.check("Market", market.getTitle(), "GSM") == 1
// tariff
tariff = util.clf.getTariff(MSISDN)
assert util.check("Tariff", tariff.getID(), 204) == 1
// contract duration
contr = util.clf.getContractDuration(MSISDN)
assert util.check("Contract duration", contr.getTitle(), "Indefinite") == 1
// teardown
util.clf.disconnect()
// finish, test passed
util.log("FINISH")
result = 1
catch (AssertionError e) {
// teardown
util.clf.disconnect()
// error, test failed
util.err("ERR")
result = 0
```

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# 4.2.1.2 Services

```
Script TC_EX_CLF_02_Services.groovy
// initialization
import com.bowman.autotester.Utilities
result = 0
util = new Utilities(logID)
try {
// start
util.log("START")
// setup
MSISDN = "603847346"
util.clf.connect(env)
// SU services
SU = util.clf.getSU(MSISDN)
suSrv = util.clf.getSUServices(SU)
suSrv.each { srv -> util.log(srv.getID()) }
// service 897
srv = util.clf.getSUService(SU, 897)
assert util.checkNok("Instance", srv.getInstanceID(), 0) == 1
assert util.check("Status", srv.getStatus(), "a") == 1
assert util.checkNok("Param 1531", srv.getParam(1531), "0") == 1
assert util.checkLike("Param 1534", srv.getParam(1534), "Z1-2") == 1
// teardown
util.clf.disconnect()
// finish, test passed
util.log("FINISH")
result = 1
catch (AssertionError e) {
// teardown
util.clf.disconnect()
// error, test failed
util.err("ERR")
result = 0
   4.2.1.3 PAPI get
Script TC_EX_CLF_03_PAPI_get.goovy
// initialization
import com.bowman.autotester.Utilities
```

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```
result = 0
util = new Utilities(logID)
try {
// start
util.log("START")
// setup
MSISDN = "603847346"
util.clf.connect(env)
// PAPI 506, service deactive
util.log("PAPI 506")
SU = util.clf.getSU(MSISDN)
PAPI = util.clf.callPAPI("SU", SU, 506, "G")
assert util.check("Status", PAPI.getStatus(), "d") == 1
// PAPI 430, service active
util.log("PAPI 430")
PAPI = util.clf.callPAPI("SU", SU, 430, "G")
assert util.check("Status", PAPI.getStatus(), "a") == 1
assert util.check("Attr 1 reason_status", PAPI.getAttr(1), "1") == 1
assert util.check("Attr 1738 national calls", PAPI.getAttr(1738),
"CZ=1000,") == 1
// teardown
util.clf.disconnect()
// finish, test passed
util.log("FINISH")
result = 1
catch (AssertionError e) {
// teardown
util.clf.disconnect()
// error, test failed
util.err("ERR")
result = 0
}
   4.2.1.4 PAPI activate
Script TC_EX_CLF_04_PAPI_activate.groovy
// initialization
import com.bowman.autotester.Utilities
result = 0
util = new Utilities(logID)
try {
```

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```
// start
util.log("START")
// setup
MSISDN = "603847346"
util.clf.connect(env)
// get, service deactive
util.log("Get")
SU = util.clf.getSU(MSISDN)
PAPI = util.clf.callPAPI("SU", SU, 1, "G")
assert util.check("Status", PAPI.getStatus(), "d") == 1
// activation
util.log("Activation")
PAPI = util.clf.callPAPI("SU", SU, 1, "a", [1, 735, 736, 813], [21, "OBE",
"OBE", "lynus@seznam.cz"])
// get, service active
util.log("Get")
PAPI = util.clf.callPAPI("SU", SU, 1, "G")
assert util.check("Status", PAPI.getStatus(), "a") == 1
assert util.check("Attr 1 reason_status", PAPI.getAttr(1), "21") == 1
assert util.check("Attr 735 notification type", PAPI.getAttr(735), "OBE")
assert util.check("Attr 736 message type", PAPI.getAttr(735), "OBE") == 1
assert util.check("Attr 813 email address", PAPI.getAttr(813),
"lynus@seznam.cz") == 1
assert util.check("Attr 1223 inkaso", PAPI.getAttr(1223), "N") == 1
// teardown
util.clf.disconnect()
// finish, test passed
util.log("FINISH")
result = 1
catch (AssertionError e) {
// teardown
util.clf.disconnect()
// error, test failed
util.err("ERR")
result = 0
}
   4.2.1.5 PAPI modify
Script TC_EX_CLF_05_PAPI_modify.groovy
// initialization
import com.bowman.autotester.Utilities
result = 0
util = new Utilities(logID)
```

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```
try {
// start
util.log("START")
// setup
MSISDN = "603847346"
util.clf.connect(env)
// get, service active
util.log("Get")
SU = util.clf.getSU(MSISDN)
PAPI = util.clf.callPAPI("SU", SU, 1, "G")
assert util.check("Status", PAPI.getStatus(), "a") == 1
assert util.check("Attr 1 reason_status", PAPI.getAttr(1), "21") == 1
assert util.check("Attr 735 notification type", PAPI.getAttr(735), "OBE")
assert util.check("Attr 736 message_type", PAPI.getAttr(736), "OBE") == 1
assert util.check("Attr 813 email address", PAPI.getAttr(813),
"lynus@seznam.cz") == 1
assert util.check("Attr 1223 inkaso", PAPI.getAttr(1223), "N") == 1
// modification
util.log("Modification")
PAPI = util.clf.callPAPI("SU", SU, 1, "m", [735, 736, 813, 1223],
["UHRADA", "EMAIL", "lynus@centrum.cz", "A"])
// get, service modified
util.log("Get")
PAPI = util.clf.callPAPI("SU", SU, 1, "G")
assert util.check("Status", PAPI.getStatus(), "a") == 1
assert util.check("Attr 735 notification type", PAPI.getAttr(735),
"UHRADA") == 1
assert util.check("Attr 736 message_type", PAPI.getAttr(736), "EMAIL") == 1
assert util.check("Attr 813 email address", PAPI.getAttr(813),
"lynus@centrum.cz") == 1
assert util.check("Attr 1223 inkaso", PAPI.getAttr(1223), "A") == 1
// teardown
util.clf.disconnect()
// finish, test passed
util.log("FINISH")
result = 1
catch (AssertionError e) {
// teardown
util.clf.disconnect()
// error, test failed
util.err("ERR")
result = 0
}
```

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#### 4.2.1.6 PAPI deactivate

// initialization

```
Script TC_EX_CLF_06_PAPI_deactivate.groovy
```

```
// initialization
import com.bowman.autotester.Utilities
result = 0
util = new Utilities(logID)
try {
// start
util.log("START")
// setup
MSISDN = "603847346"
util.clf.connect(env)
// get, service active
util.log("Get")
SU = util.clf.getSU(MSISDN)
PAPI = util.clf.callPAPI("SU", SU, 1, "G")
assert util.check("Status", PAPI.getStatus(), "a") == 1
// deactivation
util.log("Dectivation")
PAPI = util.clf.callPAPI("SU", SU, 1, "d", [1], [22])
// get, service deactive
util.log("Get")
PAPI = util.clf.callPAPI("SU", SU, 1, "G")
assert util.check("Status", PAPI.getStatus(), "d") == 1
assert util.check("Attr 1 reason_status", PAPI.getAttr(1), "22") == 1
// teardown
util.clf.disconnect()
// finish, test passed
util.log("FINISH")
result = 1
catch (AssertionError e) {
// teardown
util.clf.disconnect()
// error, test failed
util.err("ERR")
result = 0
}
   4.2.1.7 Cases
Script TC_EX_CLF_07_Cases.groovy
```

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```
import com.bowman.autotester.Utilities
result = 0
util = new Utilities(logID)
try {
// start
util.log("START")
// setup
MSISDN = "603847346"
util.clf.connect(env)
// CASE C1878
cas = util.clf.getCase(MSISDN, "C1878")
assert cas != null
util.log(cas.getID())
assert util.check("Process", cas.getProcess(), "ZMĚNY ZÁKAZNICKÉHO
PROFILU") == 1
assert util.check("Subject", cas.getSubject(), "Tarif") == 1
assert util.check("Subsubject", cas.getSubsubject(), "Žádost zákazníka") ==
assert util.check("Step", cas.getStep(), "...") == 1
assert util.check("Status", cas.getStatus(), "OPEN") == 1
assert util.check("MFFT1 Predchozi tarif", cas.getMFFT()[0], "Profi na míru
1") == 1
assert util.check("MFFT2 Novy tarif", cas.getMFFT()[1], "Profi na míru 2")
== 1
// teardown
util.clf.disconnect()
// finish, test passed
util.log("FINISH")
result = 1
catch (AssertionError e) {
// teardown
util.clf.disconnect()
// error, test failed
util.err("ERR")
result = 0
   4.2.2 DWH
   4.2.2.1 Customer structure
Script TC_EX_DWH_01_Customer_structure.groovy
// initialization
import com.bowman.autotester.Utilities
```

Title	Version	Version date
AutoTester documentation	1.0	04.01.2015

```
result = 0
util = new Utilities(logID)
try {
// start
util.log("START")
// setup
MSISDN = "603847346"
util.dwh.connect(env)
// get customer hierarchy
hier = util.dwh.getCustHierarchy(MSISDN)
CU = util.dwh.getCU(MSISDN)
LE = util.dwh.getLE(MSISDN)
OU = util.dwh.getOU(MSISDN)
EU = util.dwh.getEU(MSISDN)
BA = util.dwh.getBA (MSISDN)
SU = util.dwh.getSU(MSISDN)
// check hierarchy
assert util.check("CU", hier.getCU().getExtID(), CU) == 1
assert util.check("LE", hier.getLE().getExtID(), LE) == 1
assert util.check("OU", hier.getOU().getExtID(), OU) == 1
assert util.check("EU", hier.getEU().getExtID(), EU) == 1
assert util.check("BA", hier.getBA().getExtID(), BA) == 1
assert util.check("SU", hier.getSU().getExtID(), SU) == 1
// bilcycle
BC = util.dwh.getBillCycle(MSISDN)
assert util.check("BC", BC.getID(), 52) == 1
// segment
segment = util.dwh.getSegment(MSISDN)
assert util.check("Segment", segment.getTitle(), "LE") == 1
// market
market = util.dwh.getMarket(MSISDN)
assert util.check("Market", market.getTitle(), "GSM") == 1
// tariff
tariff = util.dwh.getTariff(MSISDN)
assert util.check("Tariff", tariff.getID(), 204) == 1
// teardown
util.clf.disconnect()
// finish, test passed
util.log("FINISH")
result = 1
catch (AssertionError e) {
// teardown
util.dwh.disconnect()
// error, test failed
```

Title	Version	Version date
AutoTester documentation	1.0	04.01.2015

```
util.err("ERR")
result = 0
}
   4.2.2.2 Services
Script TC_EX_DWH_02_Services.groovy
// initialization
import com.bowman.autotester.Utilities
result = 0
util = new Utilities(logID)
try {
// start
util.log("START")
// setup
MSISDN = "603847346"
util.dwh.connect(env)
// SU services
SU = util.dwh.getSU(MSISDN)
suSrv = util.dwh.getSUServices(SU)
suSrv.each { srv -> util.log(srv.getID()) }
// service 897
srv = util.dwh.getSUService(SU, 897)
assert util.checkNok("Instance", srv.getInstanceID(), 0) == 1
assert util.check("Status", srv.getStatus(), "a") == 1
assert util.checkNok("Param 1531", srv.getParam(1531), "0") == 1
assert util.checkLike("Param 1534", srv.getParam(1534), "Z1-2") == 1
// service 501 in MTX
srv = util.dwh.getMTXService(SU, 501)
assert util.check("Status", srv.getStatus(), "d") == 1
// teardown
util.dwh.disconnect()
// finish, test passed
util.log("FINISH")
result = 1
catch (AssertionError e) {
// teardown
util.dwh.disconnect()
// error, test failed
util.err("ERR")
result = 0
```

Title	Version	Version date
AutoTester documentation	1.0	04.01.2015

#### 4.2.3 AMX

#### 4.2.3.1 Customer structure

```
Script TC_EX_AMX_01_Customer_structure.groovy
// initialization
import com.bowman.autotester.Utilities
result = 0
util = new Utilities(logID)
try {
// start
util.log("START")
// setup
MSISDN = "603847346"
util.amx.connect(env)
// SU
SU = util.amx.getSU(MSISDN)
assert util.check("SU", SU, 41999702)
// CU
CU = util.amx.getCU(MSISDN)
assert util.check("CU", CU, 100005344)
// teardown
util.amx.disconnect()
// finish, test passed
util.log("FINISH")
result = 1
catch (AssertionError e) {
// teardown
util.amx.disconnect()
// error, test failed
util.err("ERR")
result = 0
}
   4.2.3.2 Offers
Script TC_EX_AMX_02_Offers.groovy
// initialization
import com.bowman.autotester.Utilities
result = 0
```

Title	Version	Version date
AutoTester documentation	1.0	04.01.2015

```
util = new Utilities(logID)
try {
// start
util.log("START")
// setup
MSISDN = "603847346"
util.amx.connect(env)
// SU offers
SU = util.amx.getSU(MSISDN)
suOffer = util.amx.getSUOffers(SU)
suOffer.each { offer -> util.log(offer.getID() + ":" + offer.getStatus()) }
// offer 457028096
offer = util.amx.getSUOffer(SU, 457028096)
assert util.check("Status", offer.getStatus(), "A") == 1
assert util.check("Title", offer.getTitle(), "Tariff Profi (60+1)") == 1
// offer 983
offer = util.amx.getSUOffer(SU, 983)
assert util.check("Status", offer.getStatus(), "C") == 1
assert util.check("Title", offer.getTitle(), "FUOM Bez hranic na miru") ==
1
// teardown
util.amx.disconnect()
// finish, test passed
util.log("FINISH")
result = 1
catch (AssertionError e) {
// teardown
util.amx.disconnect()
// error, test failed
util.err("ERR")
result = 0
}
   4.2.4 CNH
   4.2.4.1 Notifications
Script TC_EX_CNH_01_Notifications.groovy
// initialization
import com.bowman.autotester.Utilities
result = 0
util = new Utilities(logID)
```

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AutoTester documentation	1.0	04.01.2015

```
try {
// start
util.log("START")
// setup
util.cnh.connect(env)
// SMS
util.log("SMS")
MSISDN = "603713546"
notif = util.cnh.getNotification(MSISDN)
assert util.check("Template", notif.getTemplate(),
"pactum2 insurance deactivate sms") == 1
assert util.check("Status", notif.getStatus(), 108) == 1
params = notif.getParameters()
params.each {key, value -> util.log(key + ":" + value)}
assert util.check("SERVICE", notif.getParam("SERVICE"), "T-Mobile pro
jistotu") == 1
// EMAIL
util.log("EMAIL")
EMAIL = "martin.zima@t-mobile.cz"
notif = util.cnh.getNotification(EMAIL)
assert util.check("Template", notif.getTemplate(),
"pactum2 insurance deactivate email") == 1
assert util.check("Status", notif.getStatus(), 103) == 1
params = notif.getParameters()
params.each {key, value -> util.log(key + ":" + value)}
assert util.checkNok("CODE", notif.getParam("CODE"), "0") == 1
// teardown
util.cnh.disconnect()
// finish, test passed
util.log("FINISH")
result = 1
catch (AssertionError e) {
// teardown
util.cnh.disconnect()
// error, test failed
util.err("ERR")
result = 0
}
```

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AutoTester documentation	1.0	04.01.2015

#### 4.2.5 AP

```
4.2.5.1 DTS for VCC
Script TC_EX_AP_01_DTS_for_VCC.groovy
// initialization
import com.bowman.autotester.Utilities
result = 0
util = new Utilities(logID)
try {
// start
util.log("START")
// setup
SU = 41999702
util.ap.connect(env)
// RC SWITCH
util.log("RC SWITCH")
dts = util.ap.callDTS("SU", SU, "RC_SWITCH", ["NEW_TARIFF"], ["433"])
assert util.check("Result", dts.getResult(), "RC T8") == 1
assert util.check("Action 1",
dts.getAction("WARN ABOUT UNUSED FUOMS LOST")[0],
"WARN ABOUT UNUSED FUOMS LOST") == 1
assert util.check("Action 2",
dts.getAction("ROAMING DAILY PASS ACTIVATE")[0],
"ROAMING_DAILY_PASS_ACTIVATE") == 1
params = dts.getParameters()
params.each { key, value -> util.log(key + ":" + value) }
// teardown
util.ap.disconnect()
// finish, test passed
util.log("FINISH")
result = 1
catch (AssertionError e) {
// teardown
util.ap.disconnect()
// error, test failed
util.err("ERR")
result = 0
   4.2.5.2 DTS for CCM
```

Script TC\_EX\_AP\_02\_DTS\_for\_CCM.groovy

Title	Version	Version date
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```
// initialization
import com.bowman.autotester.Utilities
result = 0
util = new Utilities(logID)
try {
// start
util.log("START")
// setup
SU = 41999702
util.ap.connect(env)
// TO SU
util.log("TO SU")
dts = util.ap.callDTS("SU", SU, "TO SU")
assert util.check("Result", dts.getResult(), "2") == 1
assert util.checkLike("Warning", dts.getWarnings()[0], "vod je mo")
params = dts.getParameters()
params.each { key, value -> util.log(key + ":" + value) }
// teardown
util.ap.disconnect()
// finish, test passed
util.log("FINISH")
result = 1
catch (AssertionError e) {
// teardown
util.ap.disconnect()
// error, test failed
util.err("ERR")
result = 0
}
   4.2.6 WS
   4.2.6.1 GetStatus
Script TC_EX_WS_01_GetStatus.groovy
// initialization
import com.bowman.autotester.Utilities
result = 0
util = new Utilities(logID)
try {
// start
```

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```
util.log("START")
// setup
SU = 41999702
util.ws.connect(env)
// MissedCallsRegister - service deactive
WS = util.ws.callWS("SU", SU, "MissedCallsRegister", "getStatus")
assert util.check("Status", WS.getStatus(), "d") == 1
assert util.checkNok("CorrelationId", WS.getCorrelationId(), "") == 1
// allowed action - MissedCallsRegister.ACTIVATE
util.log("AA MissedCallsRegister.ACTIVATE")
AA = WS.getAllowedAction("MissedCallsRegister.ACTIVATE")
assert util.check("Allowed", AA.getAllowed(), true) == 1
// allowed action - MissedCallsRegister.DEACTIVATE
util.log("AA MissedCallsRegister.DEACTIVATE")
AA = WS.getAllowedAction("MissedCallsRegister.DEACTIVATE")
assert util.check("Allowed", [AA.getAllowed(), AA.getBreData().get(0)],
[false, "SERVICE_NOT_ACTIVE"]) == 1
// teardown
util.ws.disconnect()
// finish, test passed
util.log("FINISH")
result = 1
catch (AssertionError e) {
// teardown
util.ws.disconnect()
// error, test failed
util.err("ERR")
result = 0
}
   4.2.6.2 Activate
Script TC_EX_WS_02_Activate.groovy
// initialization
import com.bowman.autotester.Utilities
result = 0
util = new Utilities(logID)
try {
// start
util.log("START")
// setup
SU = 41999702
```

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```
util.ws.connect(env)
// getStatus - service deactive
util.log("GetStatus");
WS = util.ws.callWS("SU", SU, "MyBill", "getStatus")
assert util.check("Status", WS.getStatus(), "d") == 1
// validateActivate
util.log("ValidateActivate");
WS = util.ws.callWS("SU", SU, "MyBill", "validateActivate",
                    "service", ["notificationType", "messageType",
"emailAddress", "directDebit"], ["OBE", "OBE", "lynus@seznam.cz", "A"],
                    "action", ["reason_status"], [21])
assert util.check("OrderStatus", WS.getOrderStatus(), "VALIDATED") == 1
// activate
util.log("activate");
WS = util.ws.callWS("SU", SU, "MyBill", "activate",
                    "service", ["notificationType", "messageType",
"emailAddress", "directDebit"], ["OBE", "OBE", "lynus@seznam.cz", "A"],
                    "action", ["reason status"], [21])
assert util.check("OrderStatus", WS.getOrderStatus(), "COMPLETED") == 1
// getStatus - service active
util.log("GetStatus");
WS = util.ws.callWS("SU", SU, "MyBill", "getStatus")
assert util.check("Status", WS.getStatus(), "a") == 1
assert util.check("notificationType",
WS.getServiceParam("notificationType"), "OBE") == 1
assert util.check("messageType", WS.getServiceParam("messageType"), "OBE")
assert util.check("emailAddress", WS.getServiceParam("emailAddress"),
"lynus@seznam.cz") == 1
assert util.check("directDebit", WS.getServiceParam("directDebit"), "A") ==
assert util.check("reason status", WS.getActionParam("reason status"),
"21") == 1
// teardown
util.ws.disconnect()
// finish, test passed
util.log("FINISH")
result = 1
}
catch (AssertionError e) {
// teardown
util.ws.disconnect()
// error, test failed
util.err("ERR")
result = 0
```

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#### 4.2.6.3 Modify

```
Script TC_EX_WS_03_Modify.groovy
```

```
// initialization
import com.bowman.autotester.Utilities
result = 0
util = new Utilities(logID)
try {
// start
util.log("START")
// setup
SU = 41999702
util.ws.connect(env)
// getStatus - service active
util.log("GetStatus");
WS = util.ws.callWS("SU", SU, "MyBill", "getStatus")
assert util.check("Status", WS.getStatus(), "a") == 1
assert util.check("notificationType",
WS.getServiceParam("notificationType"), "OBE") == 1
assert util.check("messageType", WS.getServiceParam("messageType"), "OBE")
assert util.check("emailAddress", WS.getServiceParam("emailAddress"),
"lynus@seznam.cz") == 1
assert util.check("directDebit", WS.getServiceParam("directDebit"), "A") ==
// validateModify
util.log("ValidateModify");
WS = util.ws.callWS("SU", SU, "MyBill", "validateModify",
                    "service", ["notificationType", "messageType",
"emailAddress", "directDebit"], ["UHRADA", "EMAIL", "lynus@centrum.cz",
"N"])
assert util.check("OrderStatus", WS.getOrderStatus(), "VALIDATED") == 1
// modify
util.log("modify");
WS = util.ws.callWS("SU", SU, "MyBill", "modify",
                    "service", ["notificationType", "messageType",
"emailAddress", "directDebit"], ["UHRADA", "EMAIL", "lynus@centrum.cz",
"N"])
assert util.check("OrderStatus", WS.getOrderStatus(), "COMPLETED") == 1
// getStatus - service modified
util.log("GetStatus");
WS = util.ws.callWS("SU", SU, "MyBill", "getStatus")
assert util.check("Status", WS.getStatus(), "a") == 1
assert util.check("notificationType",
WS.getServiceParam("notificationType"), "UHRADA") == 1
assert util.check("messageType", WS.getServiceParam("messageType"),
"EMAIL") == 1
assert util.check("emailAddress", WS.getServiceParam("emailAddress"),
"lynus@centrum.cz") == 1
```

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AutoTester documentation	1.0	04.01.2015

```
assert util.check("directDebit", WS.getServiceParam("directDebit"), "N") ==
// teardown
util.ws.disconnect()
// finish, test passed
util.log("FINISH")
result = 1
catch (AssertionError e) {
// teardown
util.ws.disconnect()
// error, test failed
util.err("ERR")
result = 0
}
   4.2.6.4 Deactivate
Script TC_EX_WS_04_Deactivate.groovy
// initialization
import com.bowman.autotester.Utilities
result = 0
util = new Utilities(logID)
try {
// start
util.log("START")
// setup
SU = 41999702
util.ws.connect(env)
// getStatus - service active
util.log("GetStatus");
WS = util.ws.callWS("SU", SU, "MyBill", "getStatus")
assert util.check("Status", WS.getStatus(), "a") == 1
// validateDeactivate
util.log("ValidateDeactivate");
// modify
util.log("deactivate");
WS = util.ws.callWS("SU", SU, "MyBill", "deactivate",
                   "action", ["reason_status"], ["22"])
assert util.check("OrderStatus", WS.getOrderStatus(), "COMPLETED") == 1
```

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```
// getStatus - service deactivated
util.log("GetStatus");
WS = util.ws.callWS("SU", SU, "MyBill", "getStatus")
assert util.check("Status", WS.getStatus(), "d") == 1
// teardown
util.ws.disconnect()
// finish, test passed
util.log("FINISH")
result = 1
catch (AssertionError e) {
// teardown
util.ws.disconnect()
// error, test failed
util.err("ERR")
result = 0
}
   4.3 Functions
   4.3.1 Common
```

#### **4.3.1.1 Utilities**

• public Utilities (int iLogID)

#### 4.3.1.2 check

- public int check (String sLog, Object oValue, Object oCheck)
- public int check (String sLog, List<Object> oValues, List<Object> oChecks)
- public int check (String sLog, HashMap<Object, Object> oValues, List<Object> oCheckedKeys, List<Object> oCheckedValues)

#### 4.3.1.3 checkLike

public int checkLike (String sLog, Object oValue, Object oCheck)

#### 4.3.1.4 checkNok

• public int checkNok (String sLog, Object oValue, Object oCheck)

#### 4.3.1.5 connect

• public int connect (String sEnvironment)

#### 4.3.1.6 disconnect

public int disconnect ()

#### 4.3.1.7 err

• public void err (Object oErr)

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#### 4.3.1.8 log

public void log (Object oLog)

#### 4.3.1.9 pause

• public void pause (float fDuration)

#### 4.3.2 CLF

#### 4.3.2.1 *callPAPI*

- public PAPI callPAPI (String sLevel, int iExtID, int iPropertyID, String sAction)
- public PAPI callPAPI (String sLevel, int iExtID, int iPropertyID, String sAction, List<Integer>iAttrIDs, List<String> sAttrValues)

#### 4.3.2.2 connect

public int connect (String sEnvironment)

#### 4.3.2.3 disconnect

public int disconnect ()

#### 4.3.2.4 getBA

• public int getBA (String sMSISDN)

#### 4.3.2.5 getBADetail

public BADetail getBADetail (int iExtID)

#### 4.3.2.6 getBAService

public Service getBAService (int iExtID, int iServiceID)

#### 4.3.2.7 getBAServices

• public List<Service> getBAServices (int iExtID)

#### 4.3.2.8 getBillCycle

• public BillCycle getBillCycle (String sMSISDN)

#### 4.3.2.9 getCU

• public int getCU (String sMSISDN)

#### 4.3.2.10 getCase

• public Case getCase (String sMSISDN, String sCaseType)

#### 4.3.2.11 getContractDuration

• public ContractDuration getContractDuration (String sMSISDN)

#### 4.3.2.12 getCustHierarchy

• public CustHierarchy getCustHierarchy (String sMSISDN)

#### 4.3.2.13 getEU

• public int getEU (String sMSISDN)

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### 4.3.2.14 getLE

public int getLE (String sMSISDN)

# 4.3.2.15 getMarket

• public Market getMarket (String sMSISDN)

# 4.3.2.16 getOU

public int getOU (String sMSISDN)

#### *4.3.2.17 getOUDetail*

• public OUDetail getOUDetail (int iExtID)

#### 4.3.2.18 getOUService

• public Service getOUService (int iExtID, int iServiceIS)

#### 4.3.2.19 getOUServices

• public List<Service> getOUServices (int iExtID)

#### 4.3.2.20 getSU

public int getSU (String sMSISDN)

#### 4.3.2.21 getSUDetail

public SUDetail getSUDetail (int iExtID)

#### 4.3.2.22 getSUService

• public Service getSUService (int iExtID, int iServiceID)

#### 4.3.2.23 getSUServices

• public List<Service> getSUServices (int iExtID)

#### 4.3.2.24 getSegment

public Segmet getSegment (String sMSISDN)

# **4.3.2.25** *getStatus*

public String getStatus (String sMSISDN)

# **4.3.2.26** *getTariff*

• public Tariff getTariff (String sMSISDN)

#### 4.3.3 DWH

#### 4.3.3.1 connect

public int connect (String sEnvironment)

#### 4.3.3.2 disconnect

public int disconnect ()

#### 4.3.3.3 getBA

public int getBA (String sMSISDN)

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## 4.3.3.4 getBAService

• public Service getBAService (int iExtID, int iServiceID)

## 4.3.3.5 getBAServices

• public List<Service> getBAServices (int iExtID)

# 4.3.3.6 getBillCycle

• public BillCycle getBillCycle (String sMSISDN)

## 4.3.3.7 getCU

• public int getCU (String sMSISDN)

## 4.3.3.8 getContractDuration

• public ContractDuration getContractDuration (String sMSISDN)

## 4.3.3.9 getCustHierarchy

• public CustHierarchy getCustHierarchy (String sMSISDN)

#### 4.3.3.10 getEU

public int getEU (String sMSISDN)

## 4.3.3.11 getLE

public int getLE (String sMSISDN)

## 4.3.3.12 getMTXService

• public Service getMTXService (int iExtID, int iServiceID)

## *4.3.3.13 getMarket*

• public Market getMarket (String sMSISDN)

## 4.3.3.14 getOU

public int getOU (String sMSISDN)

# 4.3.3.15 getOUService

• public Service getOUService (int iExtID, int iServiceID)

## 4.3.3.16 getOUServices

public List<Service> getOUServices (int iExtID)

## 4.3.3.17 getSU

• public int getSU (String sMSISDN)

## 4.3.3.18 getSUService

• public Service getSUService (int iExtID, int iServiceID)

#### 4.3.3.19 getSUServices

public List<Service> getSUServices (int iExtID)

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# 4.3.3.20 getSegment

• public Segment getSegment (String sMSISDN)

## 4.3.3.21 *getStatus*

• public String getStatus (String sMSISDN)

## *4.3.3.22 getTariff*

• public Tariff getTariff (String sMSISDN)

#### 4.3.4 AMX

## 4.3.4.1 connect

• public int connect (String sEnvironment)

#### 4.3.4.2 disconnect

• public int disconnect ()

## 4.3.4.3 getCU

• public int getCU (String sMSISDN)

## 4.3.4.4 getSU

public int getSU (String sMSISDN)

## 4.3.4.5 getSUOffer

• public Offer getSUOffer (int iExtID, int iOfferID)

## 4.3.4.6 getSUOffers

• public List<Offer> getSUOffers (int iExtID)

#### 4.3.5 AP

## 4.3.5.1 callDTS

- public DTS callDTS (String sLevel, int iExtID, String sTitle)
- public DTS callDTS (String sLevel, int iExtID, String sTitle, List<String> sParamNames, List<String> sParamValues)

## 4.3.5.2 connect

• public int connect (String sEnvironment)

## 4.3.5.3 disconnect

• public int disconnect ()

## 4.3.6 CNH

#### 4.3.6.1 connect

• public int connect (String sEnvironment)

## 4.3.6.2 disconnect

• public int disconnect ()

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## 4.3.6.3 getNotification

• public Notification getNotification (String sMSISDN)

#### 4.3.7 WS

## 4.3.7.1 callWS

- public WS callWS (String sLevel, int iExtID, String sService, String sAction)
- public WS callWS (String sLevel, int iExtID, String sService, String sAction, String sParamsType, List<String> sParamNames, List<String> sParamValues)
- public WS callWS (String sLevel, int iExtID, String sService, String sAction, String sParamsType1, List<String> sParamNames1, List<String> sParamValues1, String sParamsType2, List<String> sParamNames2, List<String> sParamValues2)

## 4.3.7.2 connect

• public int connect (String sEnvironment)

#### 4.3.7.3 disconnect

• public int disconnect ()

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# 5. System documentation

# **5.1 Architecture**

## 5.1.1 Deployment

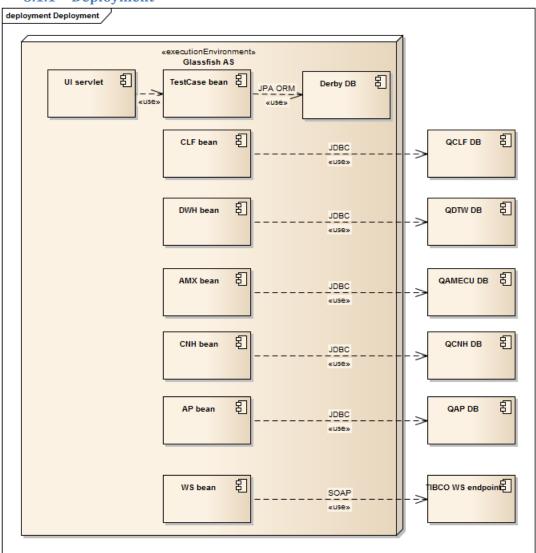


Figure 4 - Deployment

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## 5.1.2 Test case administration

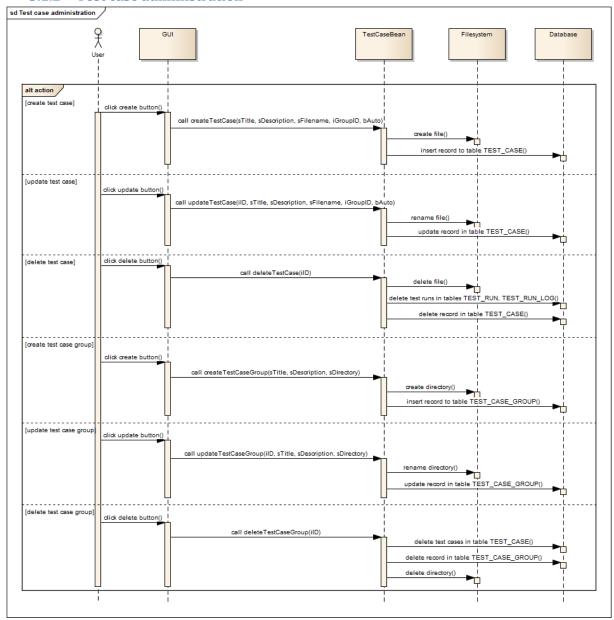


Figure 5 - Test case administration

Title	Version	Version date
AutoTester documentation	1.0	04.01.2015

# 5.1.3 Test case execution

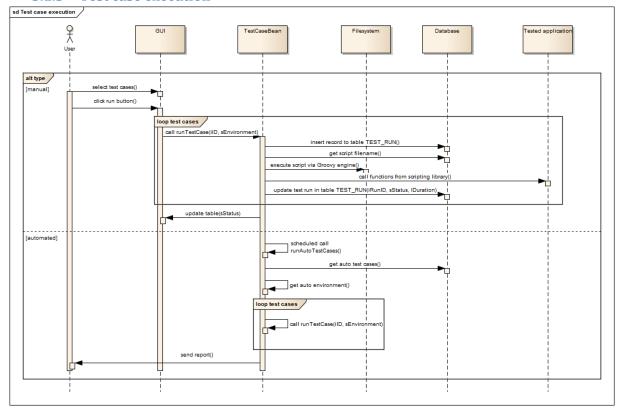


Figure 6 - Test case execution

Title	Version	Version date
AutoTester documentation	1.0	04.01.2015

## 5.2 Class diagrams

#### 5.2.1 Utilities

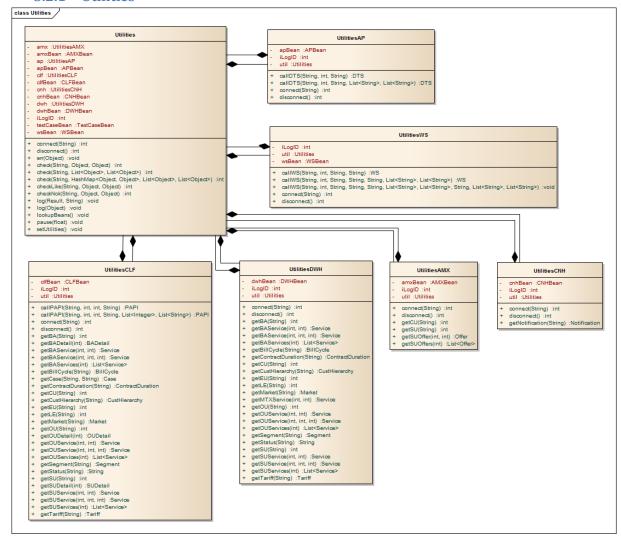


Figure 7 - Utilities

Title	Version	Version date
AutoTester documentation	1.0	04.01.2015

#### **5.2.2** Beans

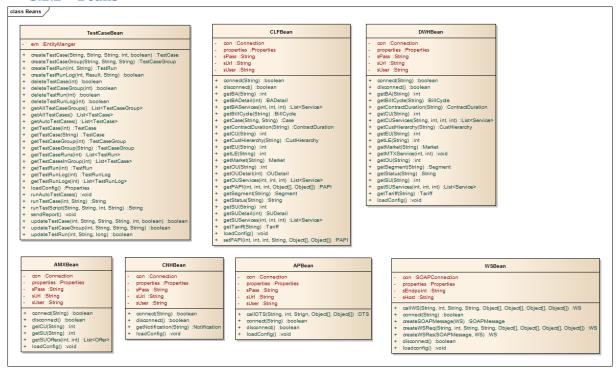


Figure 8 - Beans

#### 5.2.3 Database model

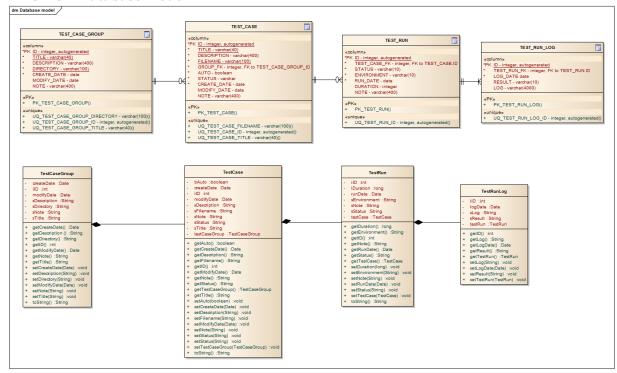


Figure 9 - Database model

Title	Version	Version date
AutoTester documentation	1.0	04.01.2015

## 5.2.4 Customer structure

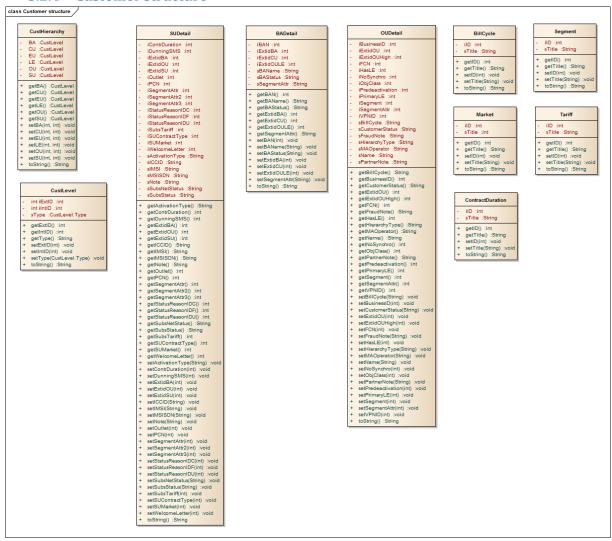


Figure 10 - Customer structure

Title	Version	Version date
AutoTester documentation	1.0	04.01.2015

## 5.2.5 Services

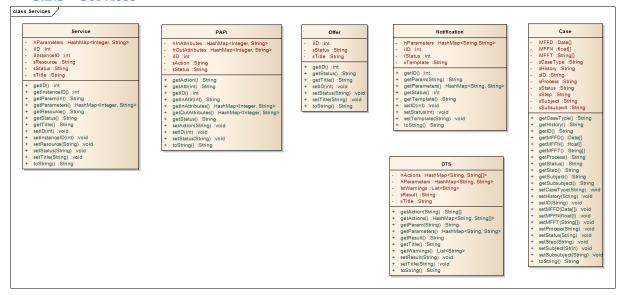


Figure 11 - Services

## 5.2.6 Business services

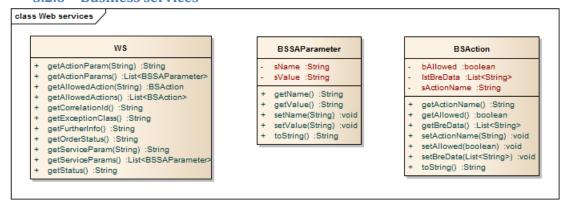


Figure 12 - Web services

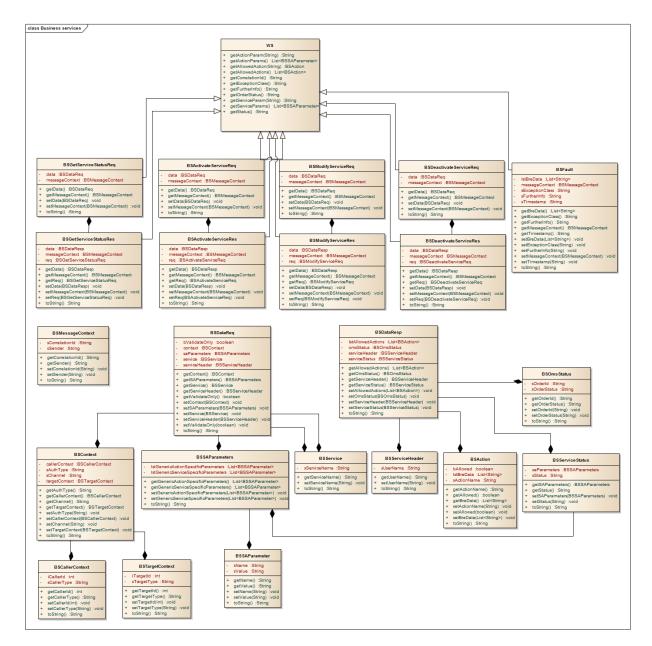


Figure 13 - Business services

#### **5.2.7** Properties

Name	Value
testCasesPath	/home/lynus/private/autotester/tests/
testCaseSuffix	.groovy
autoEnvironment	TEST 1
test1	TEST 1
test1CLFUrl	jdbc:oracle:thin:@rztclt13.cz.tmo:1526/QCLF12.world
test1CLFUser	APPTEST
test1CLFPass	ittc
test1DWHUrl	jdbc:oracle:thin:@rztdtwt.cz.tmo:1580/QDTW2.world
test1DWHUser	APPTEST
test1DWHPass	ittc
test1APUrl	jdbc:oracle:thin:@rztapt.cz.tmo:1584/QAP01.world

Title	Version	Version date
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test1APUser	TIBUSR
test1APPass	tibco
test1CNHUrl	jdbc:oracle:thin:@hkpow104.cz.tmo:1529/QCNH01.world
test1CNHUser	APPTEST
test1CNHPass	ittc
test1AMXUrl	jdbc:oracle:thin:@hkpowm02.cz.tmo:1520/QAMECU01.world
test1AMXUser	TMCDB2
test1AMXPass	TMCDB2
test1TIBCO	http://hktibt1.cz.tmo:9990
testWSEndpoint	/WebServices/SA/SA.serviceagent/SaPortTypeEndpoint
test2	TEST 2
test2CLFUrl	jdbc:oracle:thin:@rztclt14.cz.tmo:1626/Q2CLF12.world
test2CLFUser	APPTEST
test2CLFPass	ittc
test2DWHUrl	jdbc:oracle:thin:@hkpowm03.cz.tmo:1680/Q2DTW2.world
test2DWHUser	APPTEST
test2DWHPass	ittc
test2APUrl	jdbc:oracle:thin:@hkpowm03.cz.tmo:1684/Q2AP01.world
test2APUser	TIBUSR
test2APPass	tibco
test2CNHUrl	jdbc:oracle:thin:@hkpow104.cz.tmo:1529/QCNH01.world
test2CNHUser	APPTEST
test2CNHPass	ittc
test2AMXUrl	jdbc:oracle:thin:@hkpowm02.cz.tmo:1520/QAMECU01.world
test2AMXUser	TMCDB2
test2AMXPass	TMCDB2
test2TIBCO	http://hktibt2.cz.tmo:9990

Table 2 - Properties