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AutoTester

Documentation

Petr Rašek

Title	Version	Version date
AutoTester documentation	1.2	08.02.2015

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1.0	04.01.2015	Petr Rašek	48	Initial revision	
1.1	31.01.2015	Petr Rašek	53	Added LOV functions, test data repository, maintenance	
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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 https://github.com/lynusbowman/AutoTester/tree/1.0

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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 http://localhost:8080/AutoTester

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, 2).

Each user control is explained in tab 1.

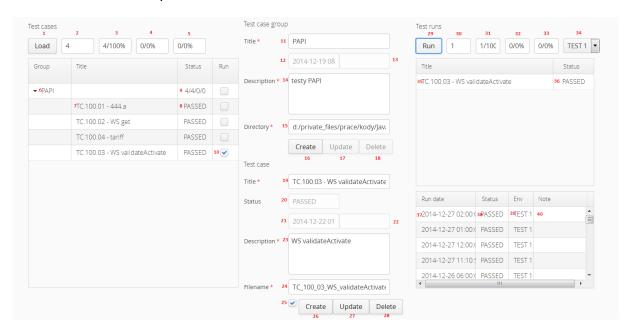


Figure 1: GUI Test cases

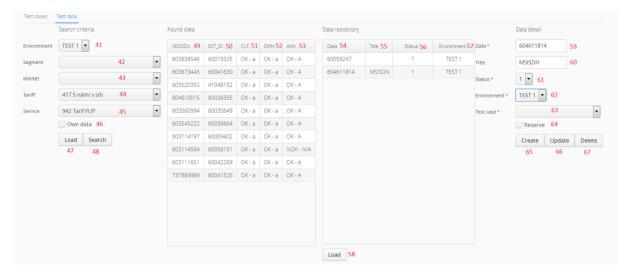


Figure 2 - GUI Test data

Control ID	Control title	Description
1	Load test cases	 Load all test cases and groups from DB
		 Populate table and counters (controls 2-5)
		Clear test runs
2	Total test cases	Count of test cases in DB
3	Passed test cases	 Count of passed test cases in DB (including percentage)

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4	Failed test cases	 Count of failed test cases in DB (including percentage)
5	Not run test cases	Count of not run test cases in DB (including percentage)
6	Test case group title	Test case group title
		Form Test case group is pre-filled after cell
		click event
7	Test case title	Test case title
		 Forms Test case group and Test case after pre-filled after cell click event
8	Test case status	Test case status
		 Options PASSED, FAILED, NOTRUN
9	Group counters	Test case status counters within group
		Total/Passed/Failed/Not run
10	Run test case	Add/Remove test case to/from test runs table
		Checkbox in group row adds/removes all test
44	One we title	cases within group
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	Test case group directory, mandatory, stored
		in column DIRECTORY
		The field is pre-filled with configured property
10	Create group	testCasesPath
16	Create group	Create test case group
		 Insert record to table TEST_CASE_GROUP and create directory on filesystem
		Mandatory fields Title, Description, Directory
17	Update group	Update test case group
1,	opadic group	 Update record in table TEST_CASE_GROUP
		and directory on filesystem
		Available fields Title, Description, Directory
18	Delete group	Delete test case group
		Delete record in table TEST_CASE_GROUP
		and directory on filesystem
		Test cases within group are also deleted
19	Case title	Test case title, mandatory, stored in column TITLE
20	Case status	Test case status, stored in column STATUS
		Options PASSED, FAILED, NOTRUN
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
-	<u>'</u>	

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		column DESCRIPTION
24	Case filename	Test case filename, mandatory, stored in
	Guss mename	column FILENAME
		The field is pre-filled with configured property
		testCaseSuffix
25	Auto test case	Test case will be executed automatically by
		scheduler, stored in column AUTO
26	Create case	Create test case
		Insert record to table TEST_CASE an create
		file on filesystem
		Mandatory fields Title, Description, Filename, Test again group Title
27	Undata casa	Test case group Title
21	Update case	Update test case Update record in table TEST CASE and file
		 Update record in table TEST_CASE and file on filesystem
		Available fields Title, Description, Filename,
		Auto test case, Test case group
28	Delete case	Delete test case
		Delete record in table TEST_CASE and file
		on filesystem
		Test case history is also deleted
29	Run test cases	Run test cases in table on selected
		environment
		Populate counters (controls 30-33)
30	Total test cases	Count of test cases
31	Passed test cases	Count of passed test cases
32	Failed test cases	Count of failed test cases
33	Not run test cases	Count of not run test cases
34	Environment	Test environment
		Options TEST1, TEST2
35	Case title	Title of run test case
36	Case status	Status of run test case
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 Note of test case run
4.4	Coords on the mart	It is editable in DB only
41	Search environment	Search data on given environment Ontions TESTA TESTS.
42	Soarch coamont	Options TEST1, TEST2 Search data with given aggregate
444	Search segment	Search data with given segmentFilled by Load button
43	Search market	
43	Staron market	Search data with given marketFilled by Load button
44	Search tariff	Search data with given tariff
	Joans talli	Filled by Load button
45	Search service	Search data with given service
	Joan Sir Gol VIOC	Filled by Load button
46	Search own data	Search only reserved data owned by app
	304.0.1 0.1111 44.44	If not checked search free data
L		ii not onconsu coulon noc data

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47	Load Lovs	Fill Segment, Market, Tariff, Service listboxes
48	Search data	Search data in CLF according to set criteria
		Data are checker also in DWH, AMX
		Populate table Found data
49	MSISDN	Data MSISDN
50	EXT ID	Data EXTID_SU
51	CLF status	Data status in CLF
		OK if active
52	DWH status	Data status in DWH
		OK if active, NOK if not active or missing
53	AMX status	Data status in AMX
		 OK if active, NOK if not active or missing
54	Data	Data ID, stored in column DATA_ID
		Form Data detail pre-filled after cell click
		event
55	Data title	Data title, stored in column TITLE
56	Data status	Data status, stored in column STATUS
		 Options 1, 0 (valid, invalid)
57	Data environment	Data environment, stored in column
		ENVIRONMENT
		Options TEST1, TEST2
58	Load test data	 Load all test data from DB
		 Populate table Data repository
		Fill Test case listbox
59	Data	 Data ID, mandatory, stored in column
		DATA_ID
60	Data title	Data title, stored in column TITLE
61	Data status	Data status, mandatory, stored in column
		STATUS
	<u> </u>	Options 1, 0
62	Data environment	Data environment, mandatory, stored in
		column ENVIRONMENT
62	Data toot coop	Options TEST1, TEST2 Pate test ages mandatomy stored in each year.
63	Data test case	 Data test case, mandatory, stored in column TEST_CASE_FK
64	Reserve data	 Filled by Load button Reserve data in DB after creation
65	Create test data	0
0.5	Create lest data	 Create test data Insert record to table TEST_DATA
		 Insert record to table PEST_DATA Insert record to table DATA_RESERVATION
		(QAP DB)if checked
		Mandatory fields Data, Status, Environment,
		Test case
66	Update test data	Update test data
		Update record in table TEST_DATA
		Available fields Data, Title, Status,
		Environment, Test case
67	Delete test data	Delete test data
		 Delete record in table TEST_DATA

Table 1 - User controls

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3.2 Test case workflow

Typical application usage is displayed on fig 2.

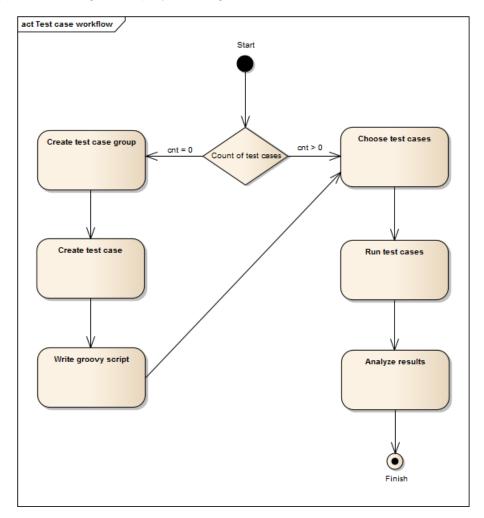


Figure 3 - Test case workflow

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 petr.rasek@t-mobile.cz), 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 4 - 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, LOVs
- DWH
- operates with QDTW DB
- covers customer structure (in ODS), services (in ODS, MTX), LOVs (in ODS and replication to QAP)
- Billing
- operates with QAMECU DB
- covers customer structure, offers on SU level, LOVs
- 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.qetCustHierarchy(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 = 0util = 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 = 1catch (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

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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)
// 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")
== 1
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
```

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```
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
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

```
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
```

// initialization

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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
```

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```
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
```

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```
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
```

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4.2.3 AMX

result = 0

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
```

Title	Version	Version date
AutoTester documentation	1.2	08.02.2015

```
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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```
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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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

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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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```
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 getTestData

public int getTestData (String sEnvironment)

4.3.1.9 log

• public void log (Object oLog)

4.3.1.10 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)

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4.3.2.13 getEU

public int getEU (String sMSISDN)

4.3.2.14 getLE

• public int getLE (String sMSISDN)

4.3.2.15 getLov

- public Lov getLE (String sLovType, Object oID)
- covered LOVs: TARIFF, NON_PUBLIC_OFFER, TARIFF_PROMO, RETENTION_OFFER, SERVICE (details, parameters, resource, offers), PAPI (actions, attributes)

4.3.2.16 *getMarket*

• public Market getMarket (String sMSISDN)

4.3.2.17 getOU

• public int getOU (String sMSISDN)

4.3.2.18 getOUDetail

• public OUDetail getOUDetail (int iExtID)

4.3.2.19 getOUService

• public Service getOUService (int iExtID, int iServiceIS)

4.3.2.20 getOUServices

public List<Service> getOUServices (int iExtID)

4.3.2.21 getSU

• public int getSU (String sMSISDN)

4.3.2.22 getSUDetail

• public SUDetail getSUDetail (int iExtID)

4.3.2.23 getSUService

• public Service getSUService (int iExtID, int iServiceID)

4.3.2.24 getSUServices

public List<Service> getSUServices (int iExtID)

4.3.2.25 getSegment

public Segmet getSegment (String sMSISDN)

4.3.2.26 getStatus

• public String getStatus (String sMSISDN)

4.3.2.27 *getTariff*

public Tariff getTariff (String sMSISDN)

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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)

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 getLov

- public Lov getLov (String sLovType, Object oID)
- covered LOVs: TARIFF, NON_PUBLIC_OFFER, TARIFF_PROMO, DISCOUNT_PROPERTY, RETENTION_OFFER, SERVICE (parameters)

4.3.3.13 getMTXService

• public Service getMTXService (int iExtID, int iServiceID)

4.3.3.14 *getMarket*

• public Market getMarket (String sMSISDN)

4.3.3.15 getOU

public int getOU (String sMSISDN)

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4.3.3.16 getOUService

• public Service getOUService (int iExtID, int iServiceID)

4.3.3.17 getOUServices

• public List<Service> getOUServices (int iExtID)

4.3.3.18 getSU

• public int getSU (String sMSISDN)

4.3.3.19 getSUService

public Service getSUService (int iExtID, int iServiceID)

4.3.3.20 getSUServices

• public List<Service> getSUServices (int iExtID)

4.3.3.21 getSegment

• public Segment getSegment (String sMSISDN)

4.3.3.22 *getStatus*

public String getStatus (String sMSISDN)

4.3.3.23 *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 getLov

- public Lov getLov (String sLovType, Object oID)
- covered LOVs: OFFER (details)

4.3.4.5 *getStatus*

• public String getStatus (String sMSISDN)

4.3.4.6 getSU

• public int getSU (String sMSISDN)

4.3.4.7 getSUOffer

• public Offer getSUOffer (int iExtID, int iOfferID)

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4.3.4.8 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 ()

4.3.5.4 getLov

- public Lov getLov (String sLovType, Object oID)
- covered LOVs: TARIFF, NON_PUBLIC_OFFER, TARIFF_PROMO, DISCOUNT_PROPERTY, RETENTION_OFFER, SERVICE (parameters)

4.3.6 CNH

4.3.6.1 connect

public int connect (String sEnvironment)

4.3.6.2 disconnect

• public int disconnect ()

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

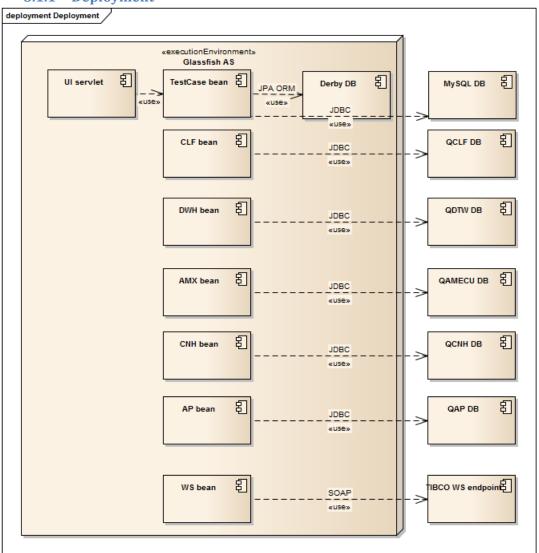


Figure 5 - Deployment

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5.1.2 Test case administrativ

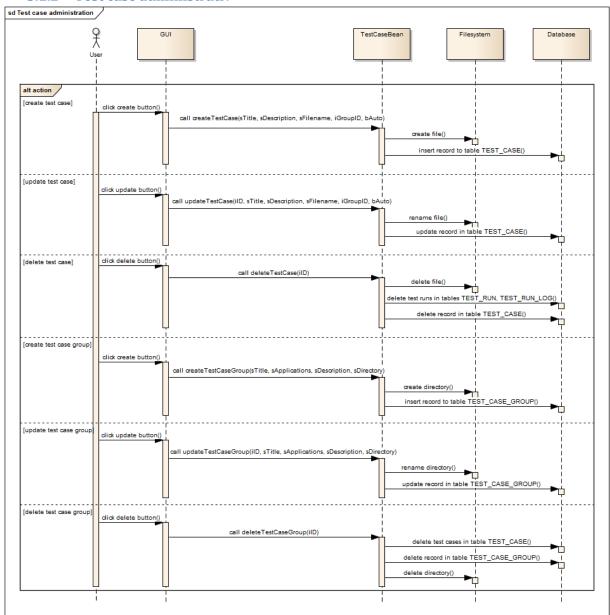


Figure 6 - Test case administration

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5.1.3 Test case execution

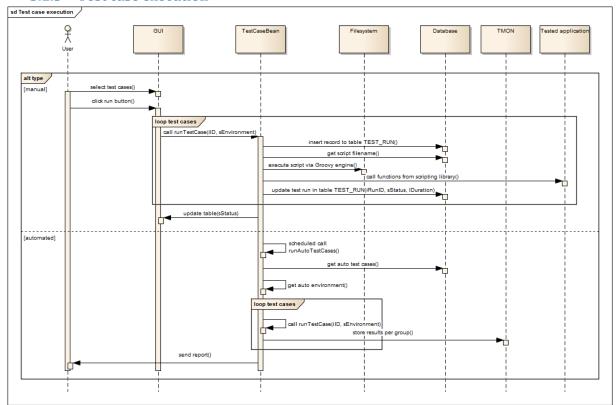


Figure 7 - Test case execution

Title	Version	Version date
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5.2 Class diagrams

5.2.1 Utilities

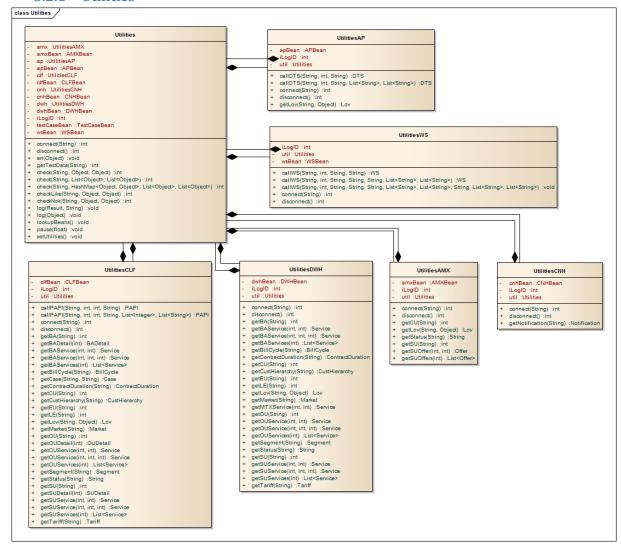


Figure 8 - Utilities

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5.2.2 Beans



Figure 9 - Beans

Title	Version	Version date
AutoTester documentation	1.2	08.02.2015

5.2.3 Database model

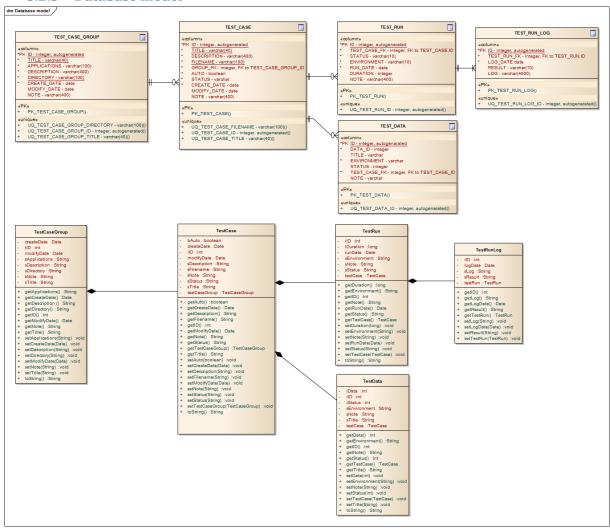


Figure 10 - Database model

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5.2.4 Customer structure

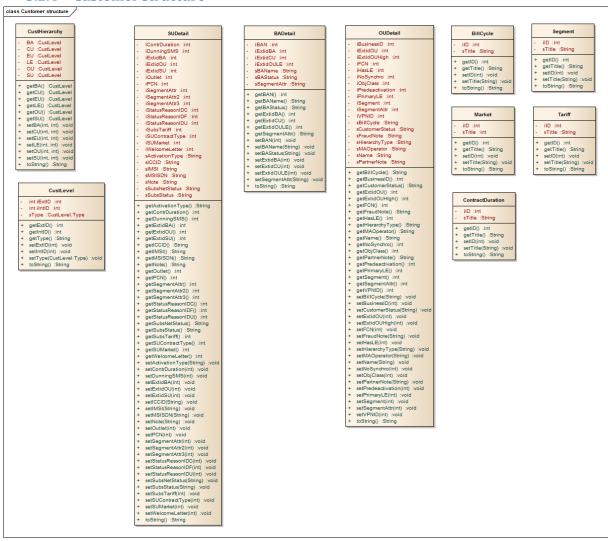


Figure 11 - Customer structure

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5.2.5 Services

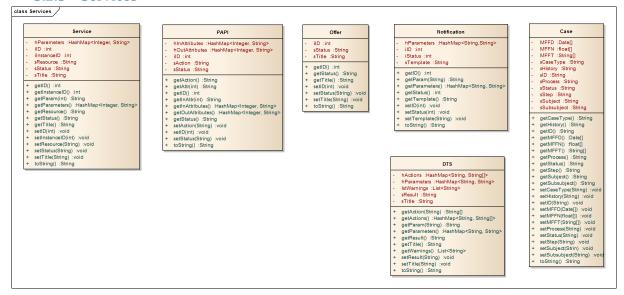


Figure 12 - Services

5.2.6 Business services

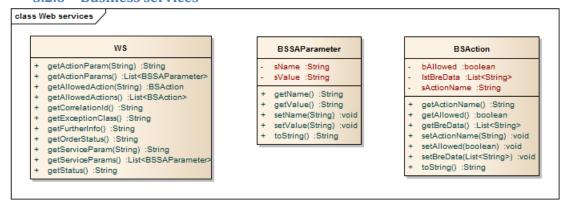


Figure 13 - Web services

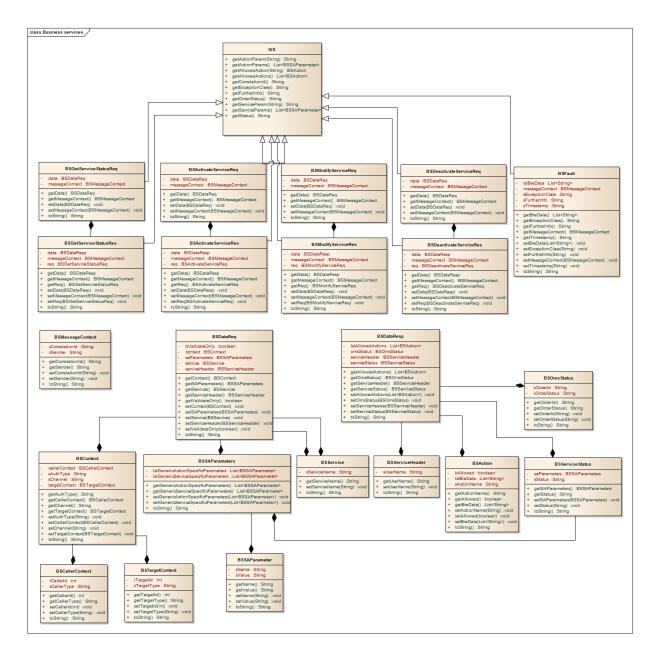


Figure 14 - Business services

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5.2.7 LOV

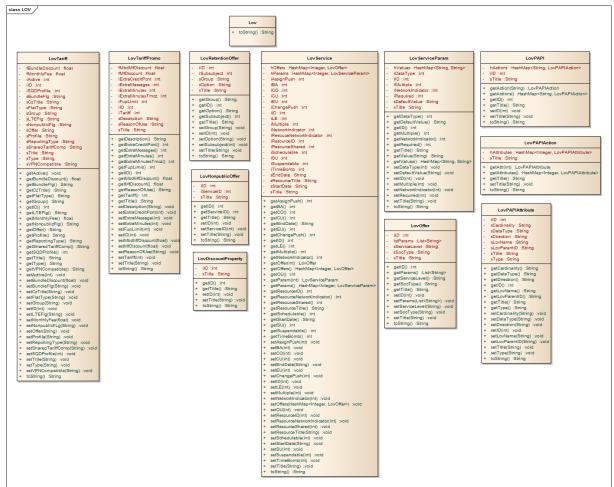


Figure 15 - LOV

5.2.8 Properties

Name	Value
testCasesPath	/home/lynus/private/autotester/tests/
testCaseSuffix	.groovy
autoEnvironment	test1
test1	test1
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
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

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test1AMXUser	TMCDB2
test1AMXPass	TMCDB2
test1TIBCO	http://hktibt1.cz.tmo:9990
testWSEndpoint	/WebServices/SA/SA.serviceagent/SaPortTypeEndpoint
test2	test2
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	TMCDB3
test2AMXPass	TMCDB3
test2TIBCO	http://hktibt2.cz.tmo:9990
reserveDBUrl	jdbc:oracle:thin:@rztapt.cz.tmo:1584/QAP01.world
reserveDBUser	BOLINAM
reserveDBPass	paegas
tmonDBUrl	<pre>jdbc:mysql://kiss.cz.tmo:3306/tmon01</pre>
tmonDBUser	tmon
tmonDBPass	paegas

Table 2 – Properties

5.3 Maintenance

Logfiles older than 30 days are deleted. This is implemented using log4j configuration.

Records in tables TEST_RUN and TEST_RUN_LOG older than 1 month are deleted. Function execMaintenance is scheduled to 23:15.