

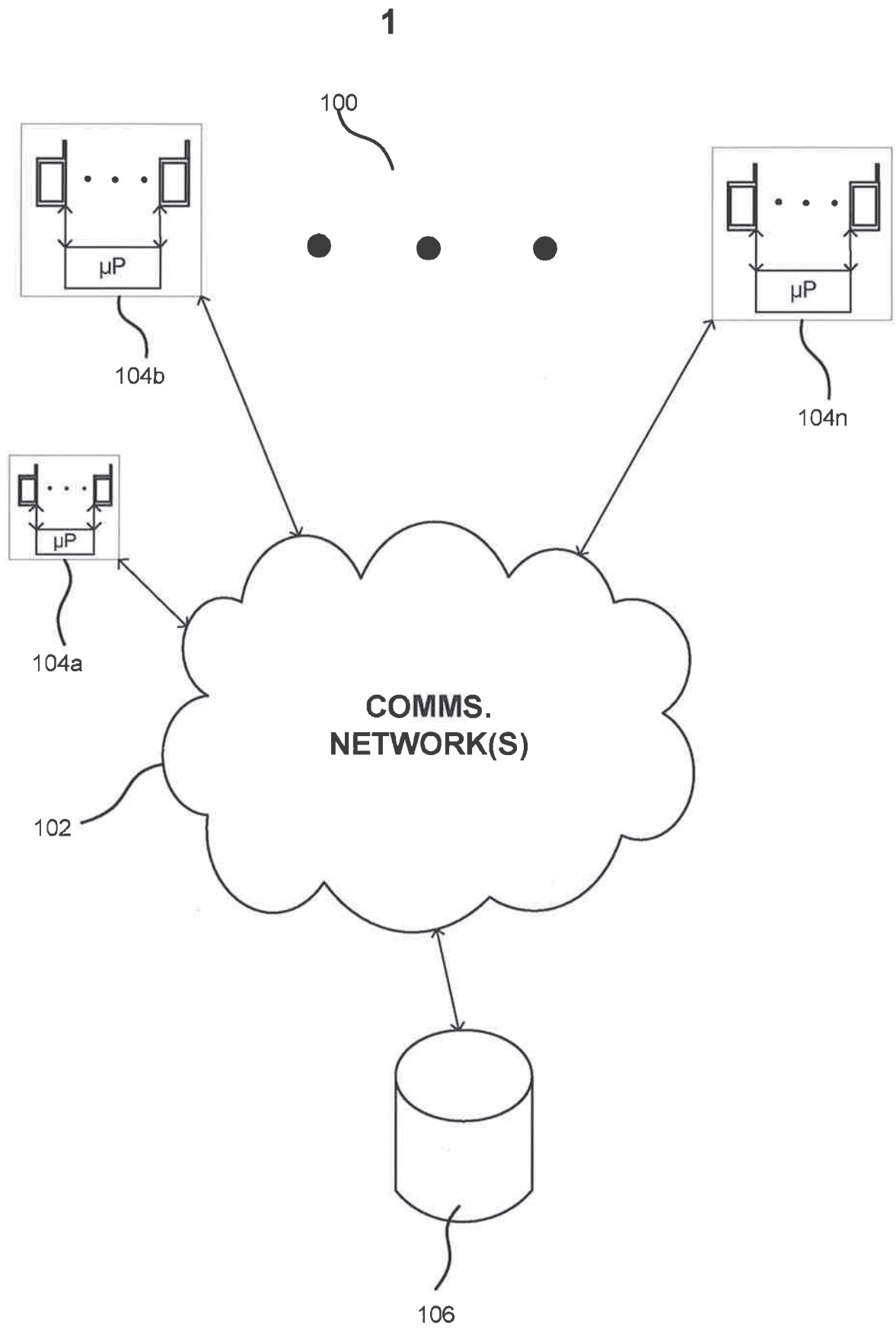


FIG. 1

2

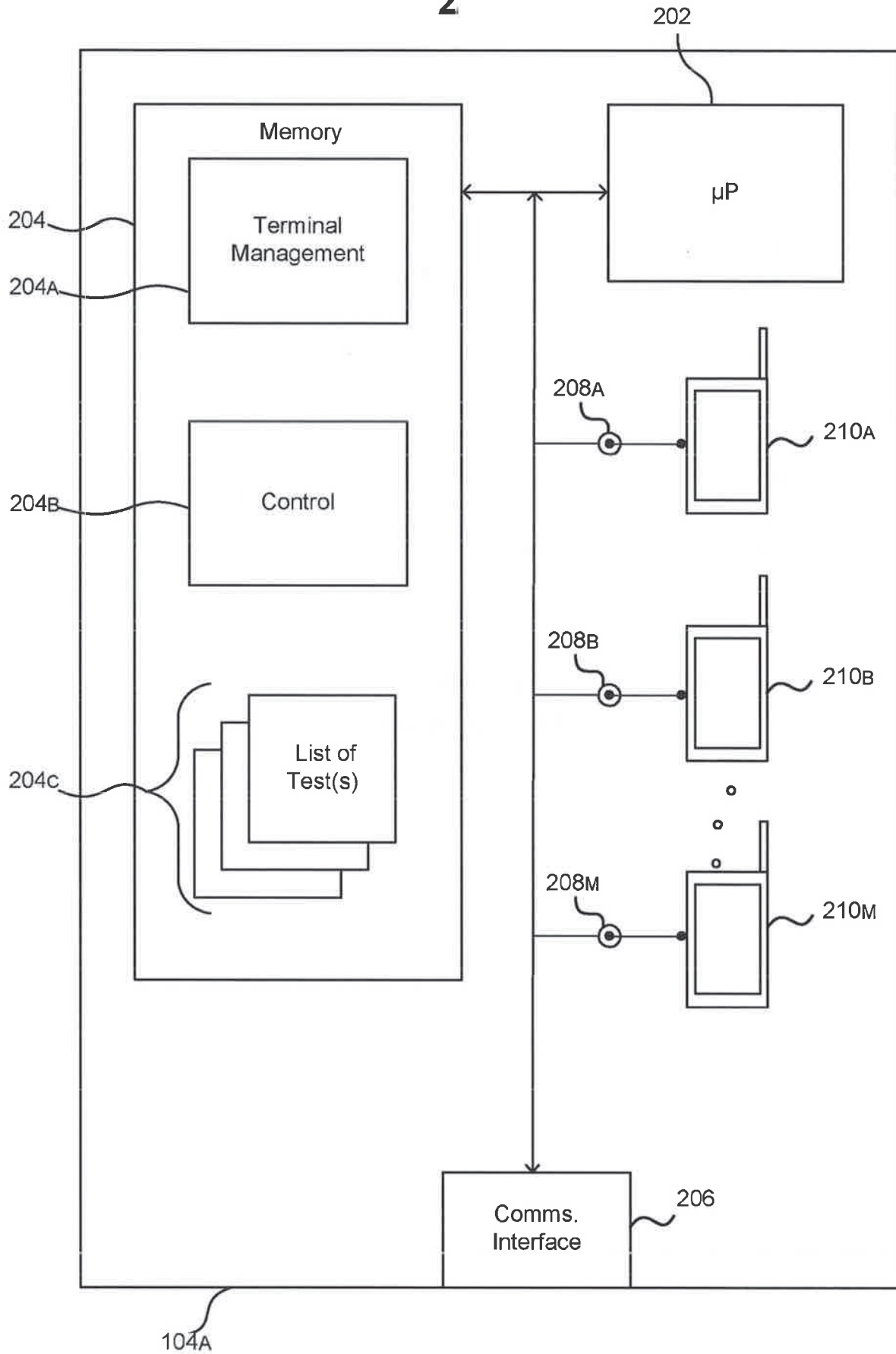


FIG. 2

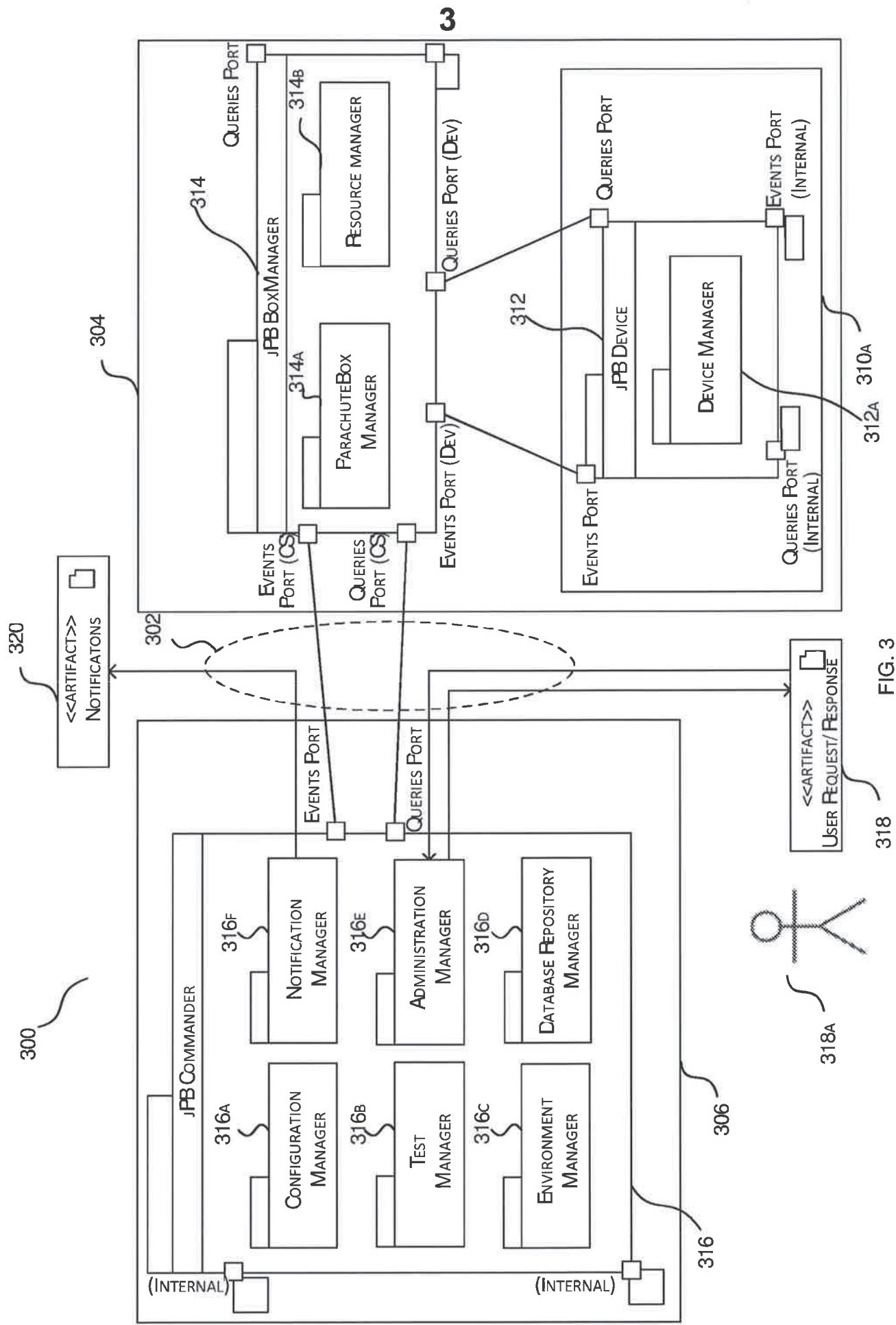


FIG. 3

400

4

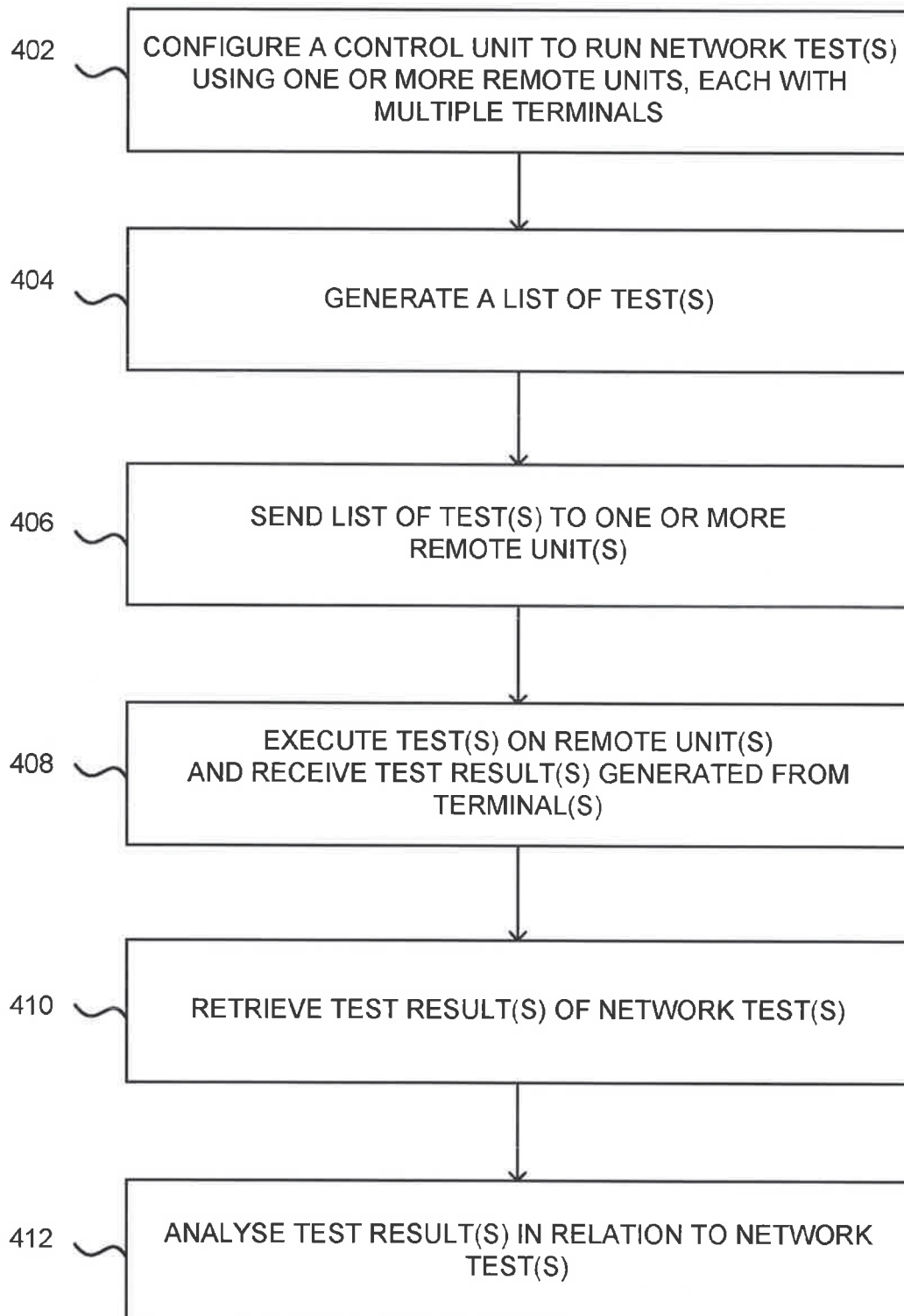


FIG. 4

5

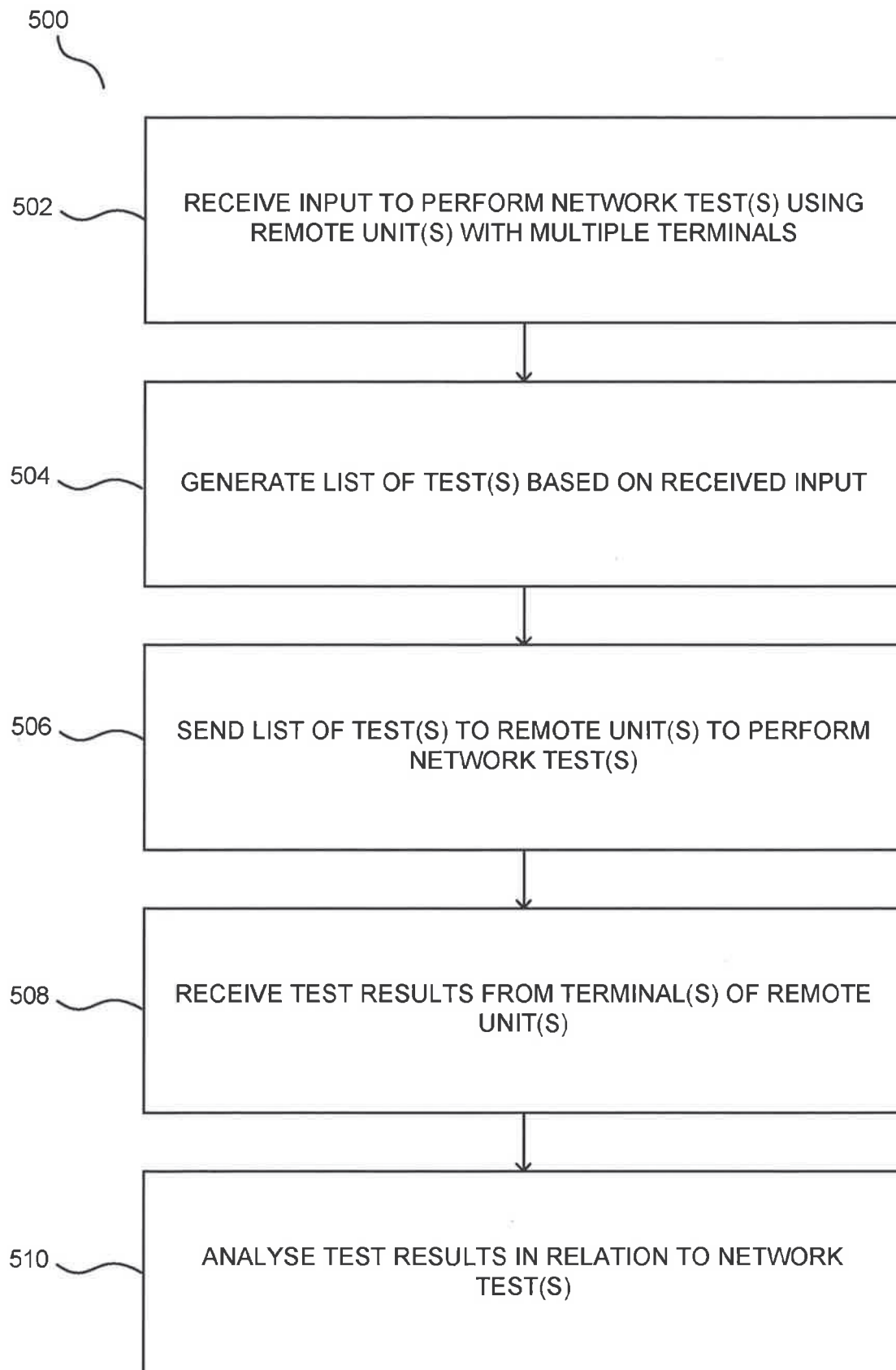


FIG. 5

6

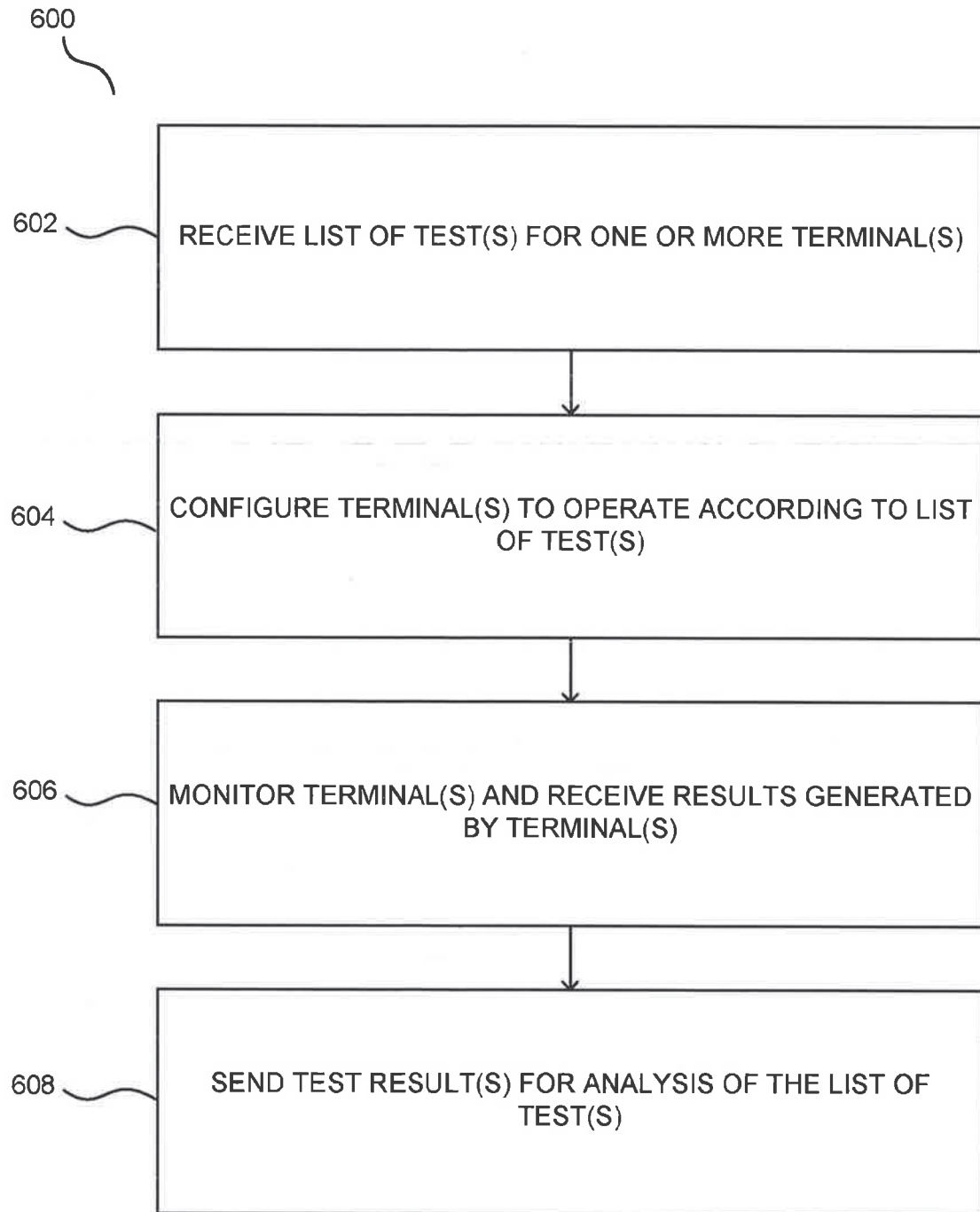


FIG. 6

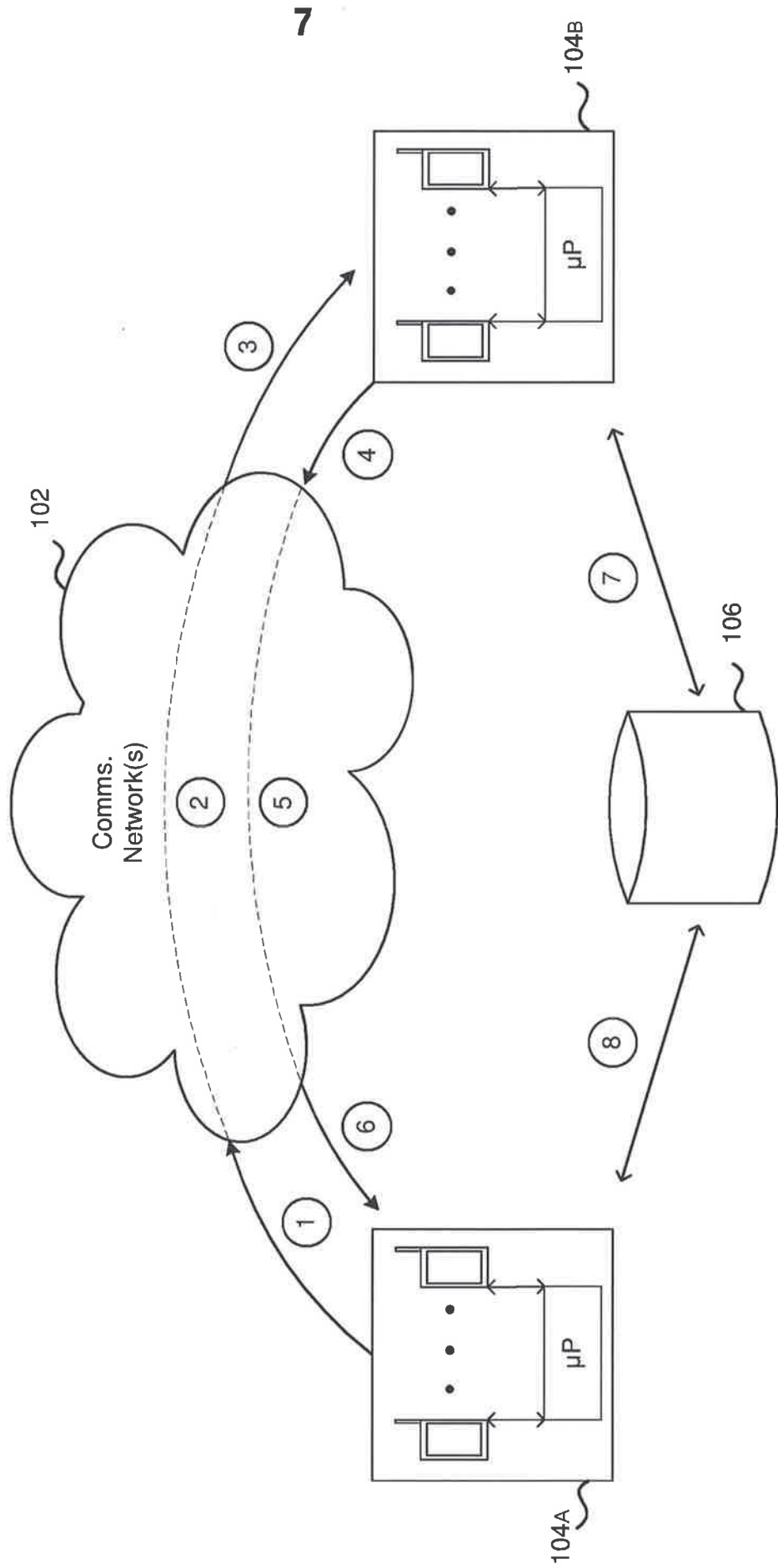


FIG. 7

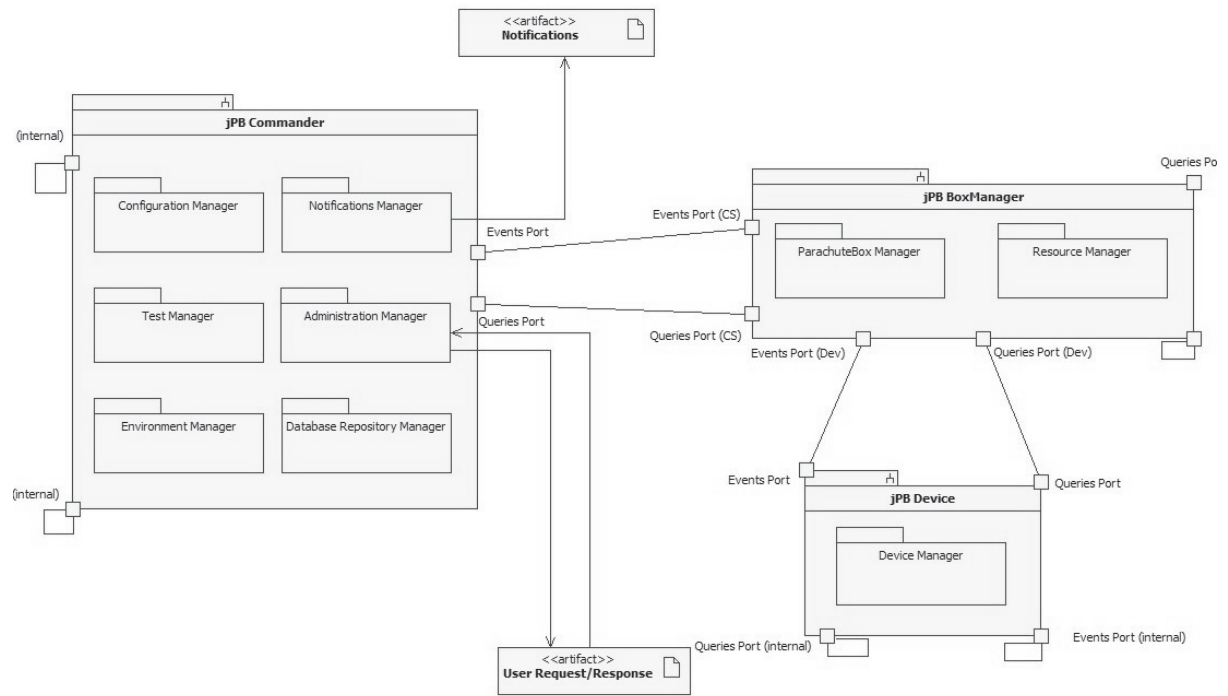


Fig. 8

Visual Paradigm for UML Community Edition [not for commercial use]

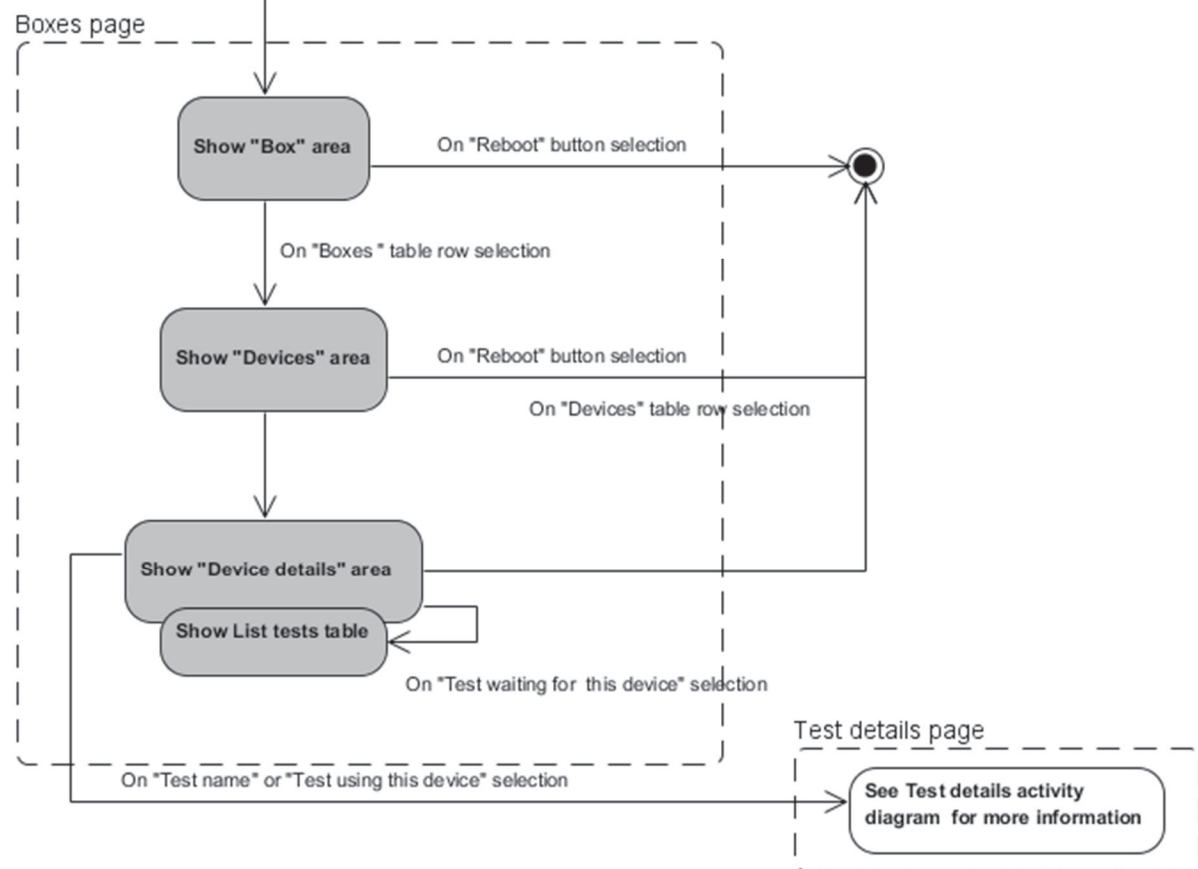


Fig. 9

The screenshot shows a web application interface with a sidebar on the left and a main content area. The sidebar contains the following links: Overview, Parachute Box, Resources, List Boxes, List Devices, Executions, In progress, planned and finished, List Executions, Scenarios, List Scenarios, Tests, List Tests, Schedule, Scenario, Test, and Upload file. The main content area is titled 'Boxes' and contains a table with the following data:

Box id	IP	Country	City	Count online devices
fr1	111.11.11.1	France	Paris	1
pt1	000.00.000.0	Portugal	Lisbon	4

Below the table, there is a 'Devices' section with a heading 'Devices' and a sub-heading 'Select a "Boxes" table row to see online devices connected to selected box'. A 'Reboot' button is located to the right of the 'Devices' heading. The interface also includes a search bar at the top right and a 'Loading...' status at the bottom left.

Fig. 10

Visual Paradigm for UML Community Edition [not for commercial use]

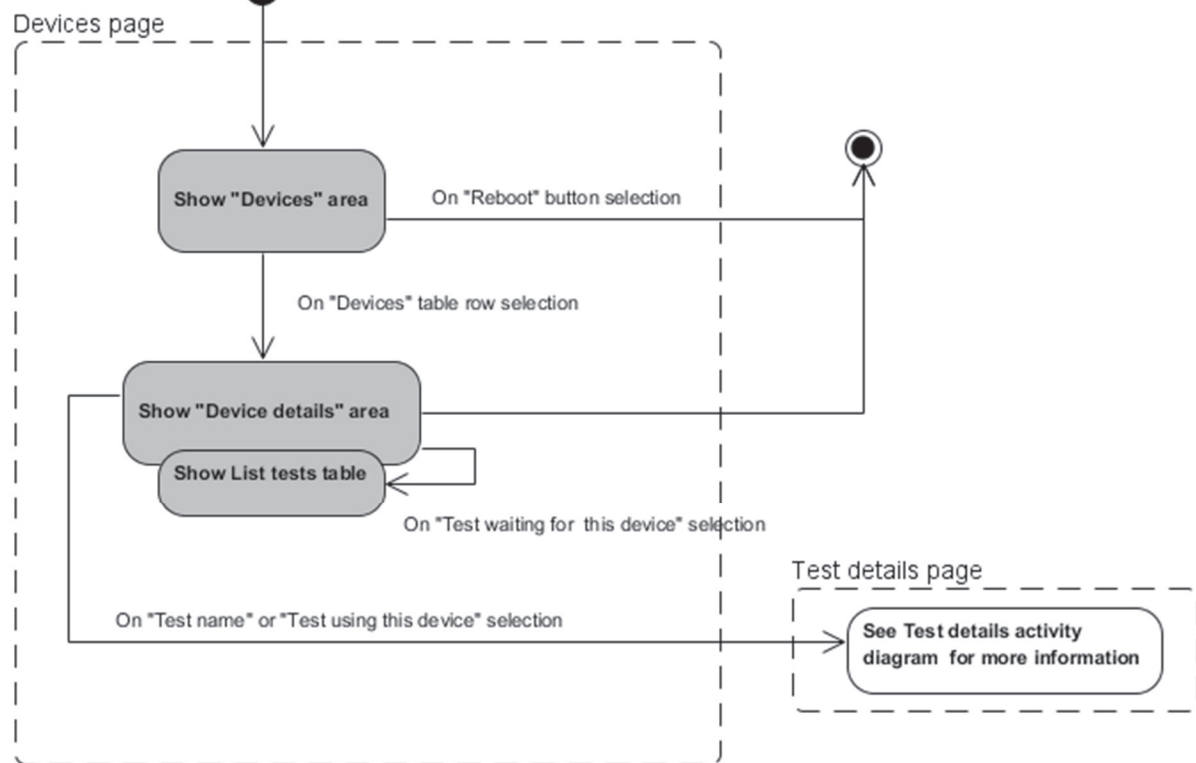


Fig. 11

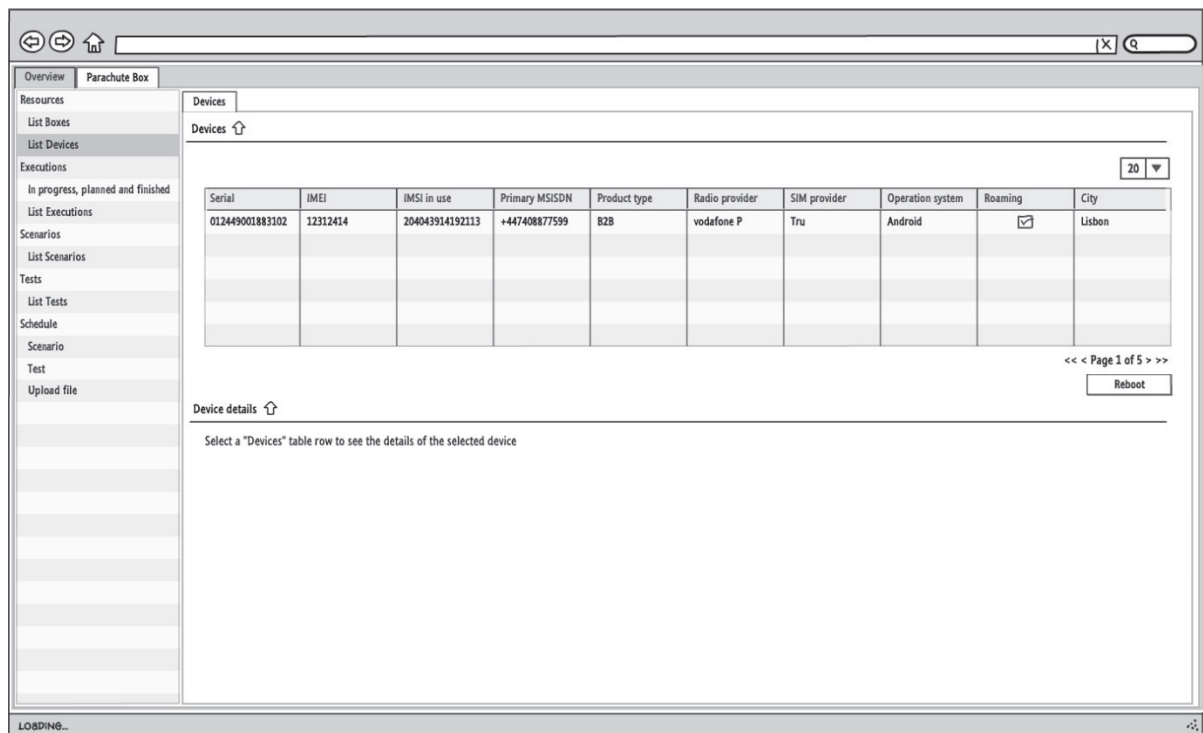


Fig. 12

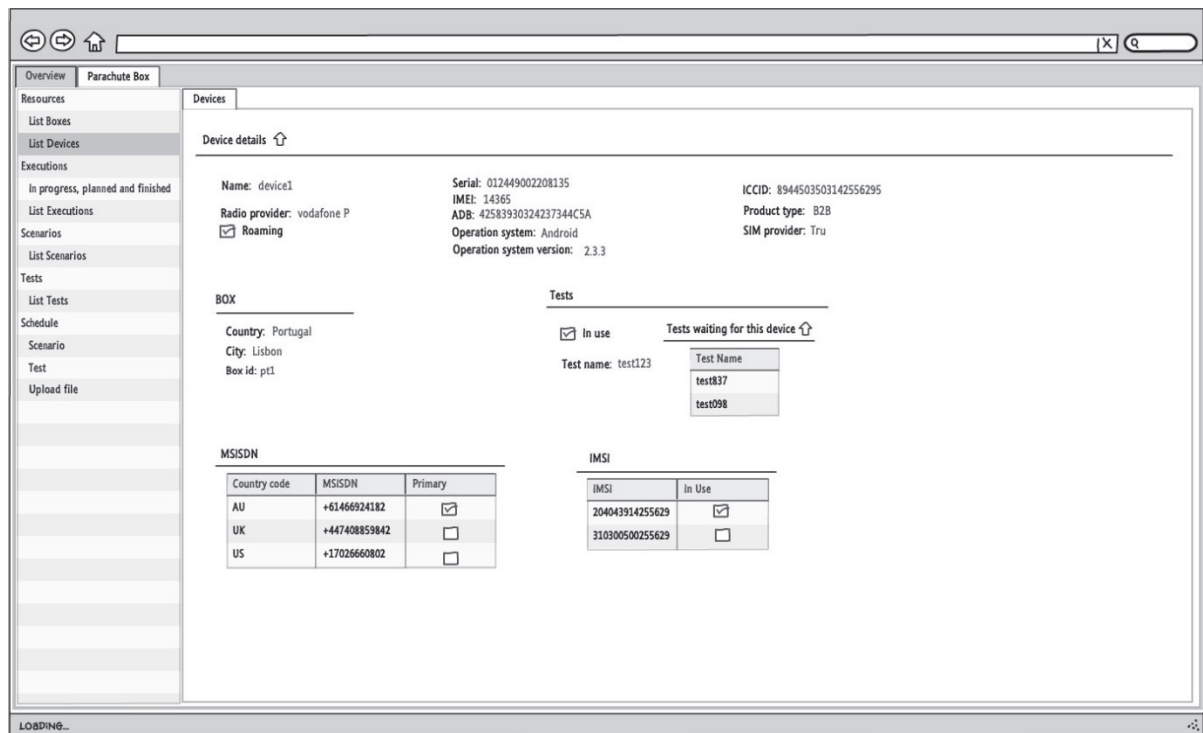


Fig. 13

Visual Paradigm for UML Community Edition (not for commercial use)

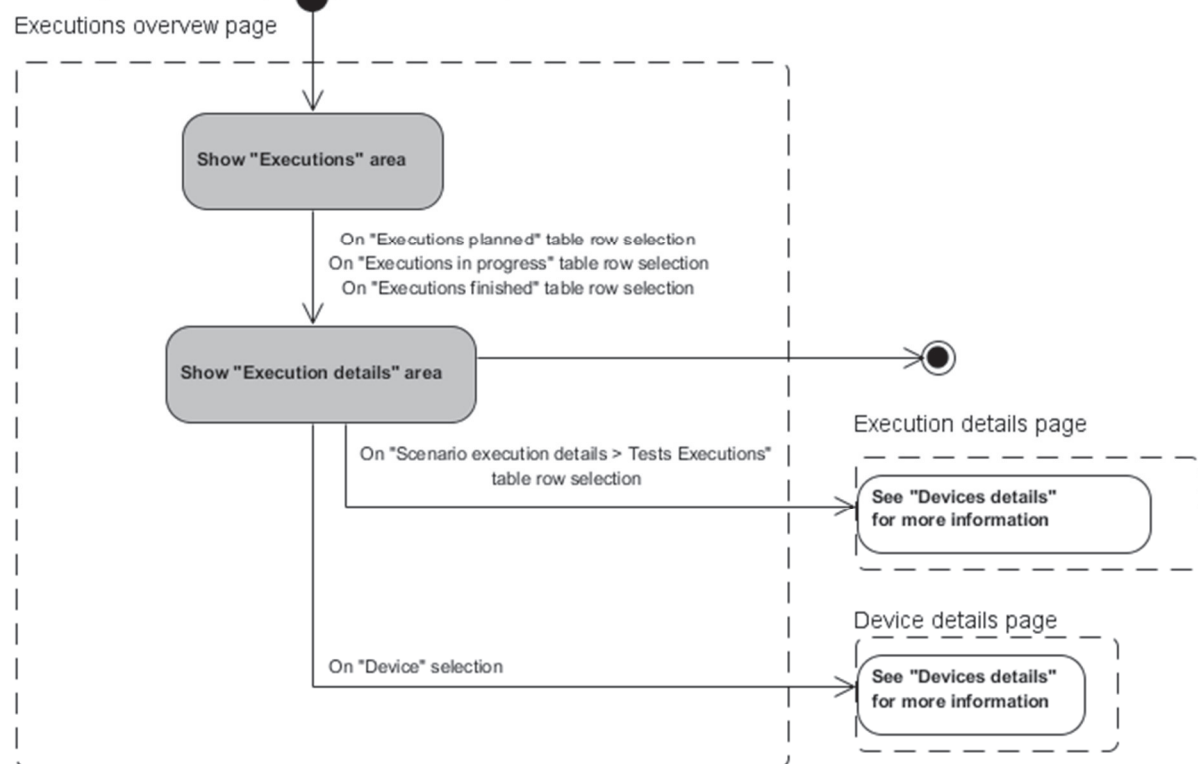


Fig. 14

The screenshot displays a web application interface for managing test executions. The left sidebar contains a navigation menu with categories: Resources (List Boxes, List Devices), Executions (Overview, List Executions), Scenarios (List Scenarios), Tests (List Tests), Schedule, Scenario, Test, and Upload file. The 'Overview' tab is selected under the 'Executions' category.

The main content area is titled 'Executions overview' and contains three sections, each with a table of execution data. Each table has a '20' items per page selector and an 'Export' button.

Executions planned

Name	Type	Start execution	MO City	MO Product type	MT City	MT Product type
execution1	Call	10-05-2013	Lisbon	B2B	Hong Kong	B2B
execution2	Incoming Call	11-10-2012	Lisbon	B2B	Hong Kong	B2B

<< < Page 1 of 5 > >>

Executions in progress

Name	Type	Start execution	MO City	MO Product type	MT City	MT Product type
execution1	Call	10-05-2013	Lisbon	B2B	Hong Kong	B2B
execution2	Incoming Call	11-10-2012	Lisbon	B2B	Hong Kong	B2B

<< < Page 1 of 5 > >>

Executions finished

Name	Type	Start execution	Stop execution	MO City	MO Product type	MT City	MT Product type	Result
execution1	Scenario	10-10-2012	11-11-2012	Lisbon	B2B	Hong Kong	B2B	Fail
execution2	SMS	10-10-2012	11-10-2012	Lisbon	B2B	Hong Kong	B2B	Success

<< < Page 1 of 5 > >>

Execution details

Select a "Executions planned", "Executions in progress" or "Executions finished" table row to see the details of the selected execution

LOADING...

Fig. 15

Visual Paradigm for UML Community Edition [not for commercial use]

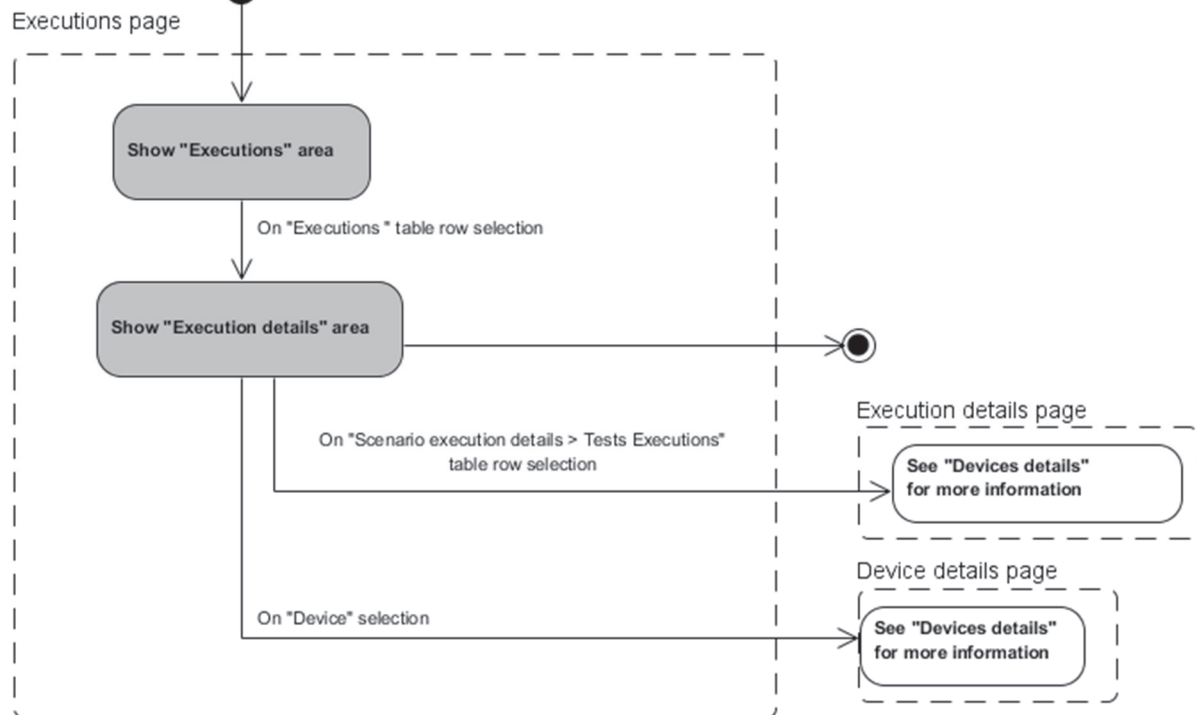


Fig. 16

Overview | Parachute Box

Resources

- List Boxes
- List Devices

Executions

- Overview
- List Executions
- Scenarios
- List Scenarios
- Tests
- List Tests
- Schedule
- Scenario
- Test
- Upload file

Executions

Executions ↑

Type	Priority	Start execution	Stop execution	MO City	MO Product type	MT City	MT Product type	Result
Scenario	Scheduled	10-10-2012 14:51:2	-	-	-	-	-	-
Call	Manual	10-10-2012 14:51:2	11-10-2012 14:51:2	Lisbon	B2B	Hong Kong	B2B	Success
Outgoing call	Manual	10-10-2012 14:51:2	11-10-2012 14:51:2	Lisbon	B2B	-	-	Success
Incoming call	Manual	10-10-2012 14:51:2	11-10-2012 14:51:2	-	-	Hong Kong	B2B	Success
SMS	Manual	10-10-2012 14:51:2	11-10-2012 14:51:2	Lisbon	B2B	Hong Kong	B2B	Success
Outgoing SMS	Manual	10-10-2012 14:51:2	11-10-2012 14:51:2	Lisbon	B2B	-	-	Success
Incoming SMS	Manual	10-10-2012 14:51:2	11-10-2012 14:51:2	-	-	Hong Kong	B2B	Success

<< < Page 1 of 5 > >>

Export

Execution details ↑

Select a "Executions" table row to see the details of the selected execution

LOADING...

Fig. 17

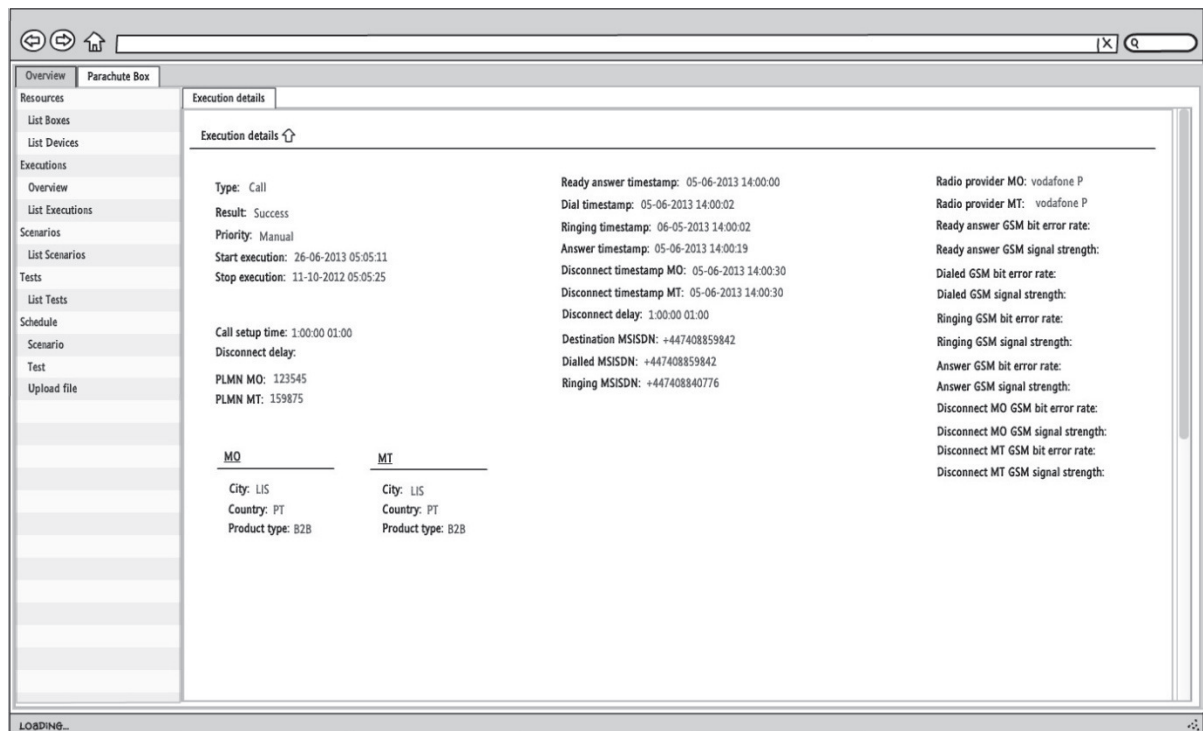


Fig. 18

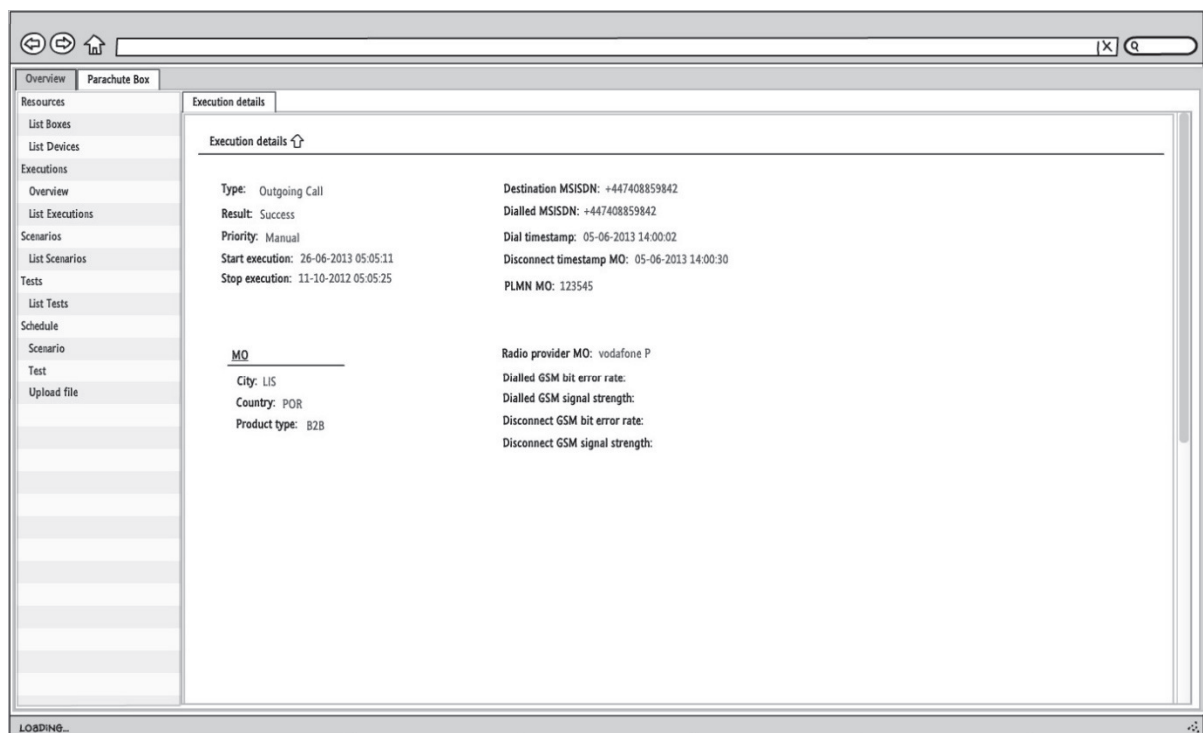


Fig. 19

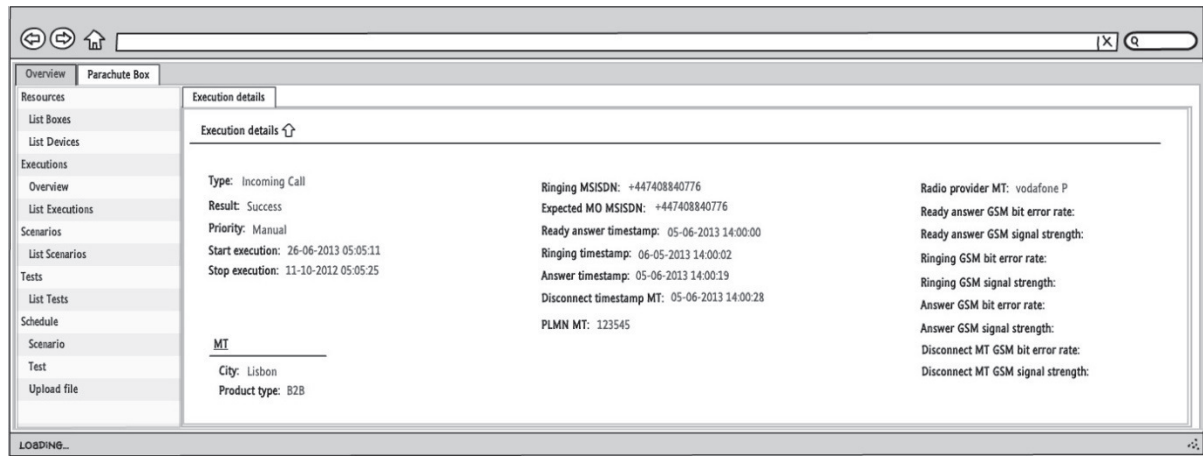


Fig. 20

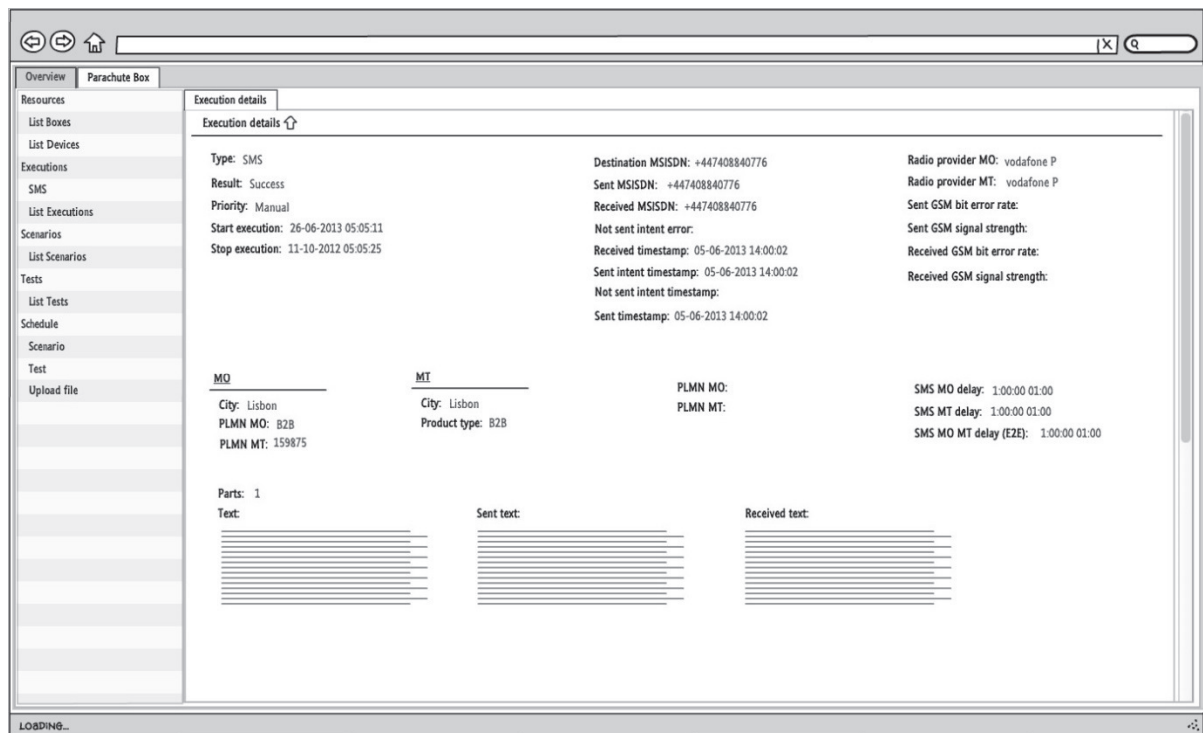


Fig. 21

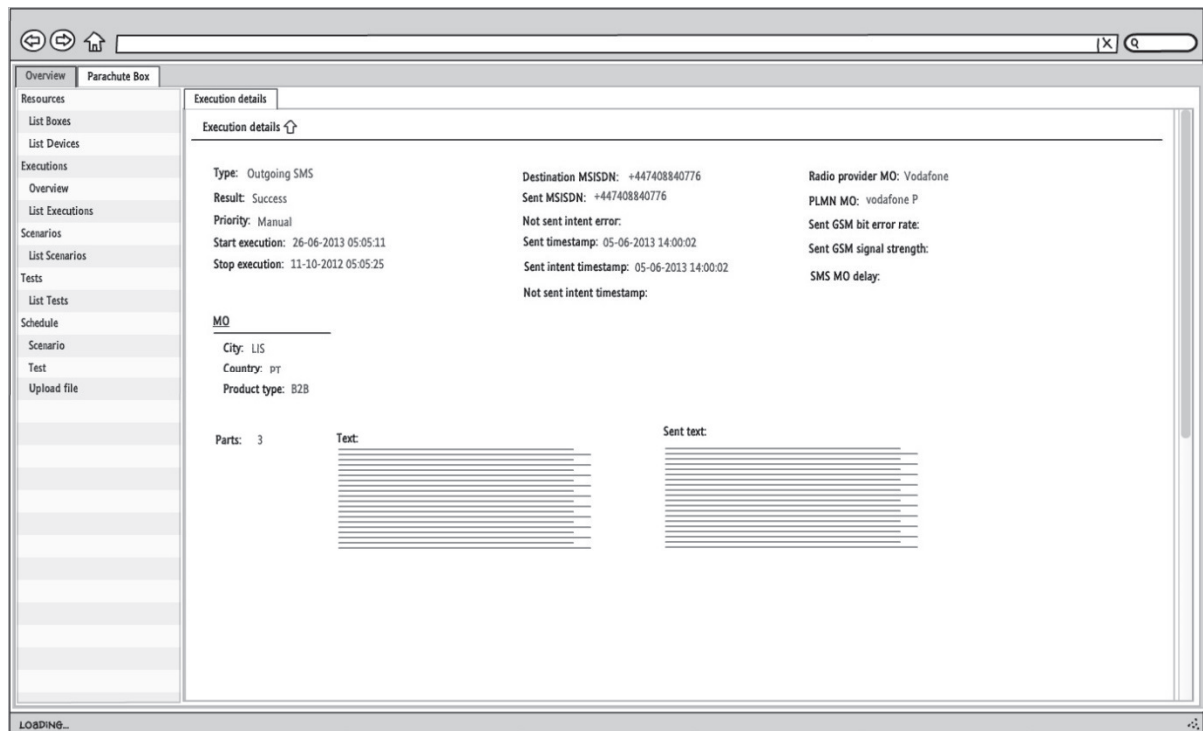


Fig. 22

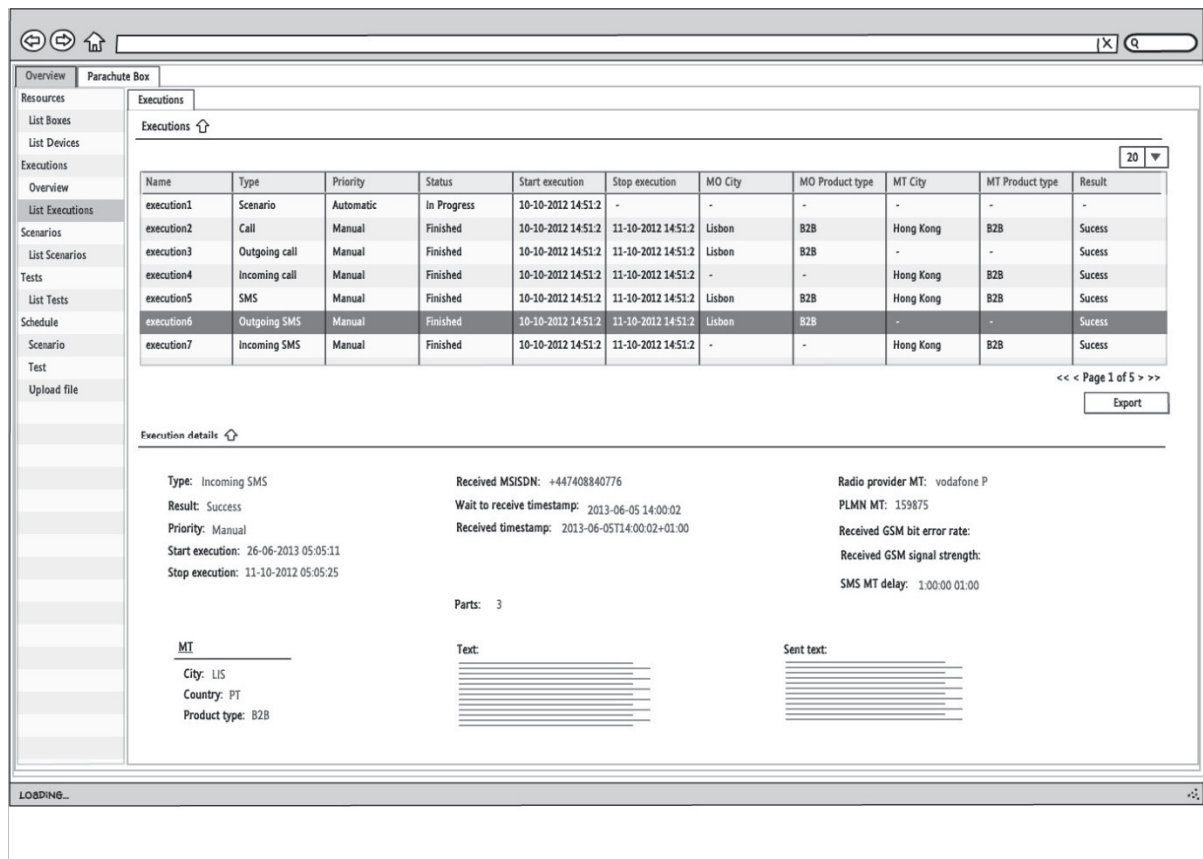


Fig. 23

The screenshot displays a web application interface with a sidebar on the left and a main content area on the right. The sidebar contains a navigation menu with the following items: Overview, Resources, List Boxes, List Devices, Executions, Overview, List Executions, Scenarios, List Scenarios, Tests, List Tests, Schedule, Scenario, Test, and Upload file. The main content area is titled 'Execution details' and shows information for a scenario named 'Parachute Box'.

Execution details

Type: Scenario Start execution: 10-10-2012 14:51:2 Execution Result: -
Priority: Automatic Stop execution: -

Tests executions

Type	Start execution	Stop execution	MO City	MO Product Type	MT City	MT Product Type	Result
Call	17/09/2013 14:00:03	17/09/2013 14:10:03	LIS	B2B	Hong Kong	B2B	Success
SMS	18/09/2013 14:00:03	18/09/2013 14:10:03	LIS	B2B	Hong Kong	B2B	Error

At the bottom of the interface, there is a status bar that says 'LOADING...'.

Fig. 24

Visual Paradigm for UML Community Edition [not for commercial use]

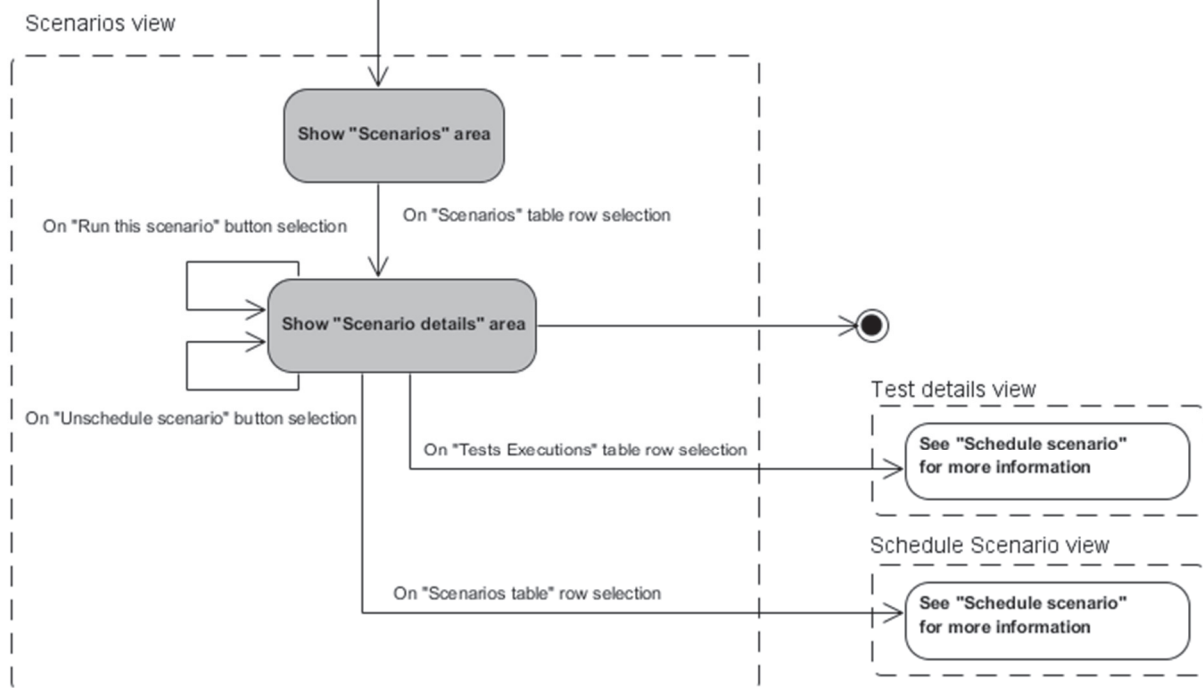


Fig. 25

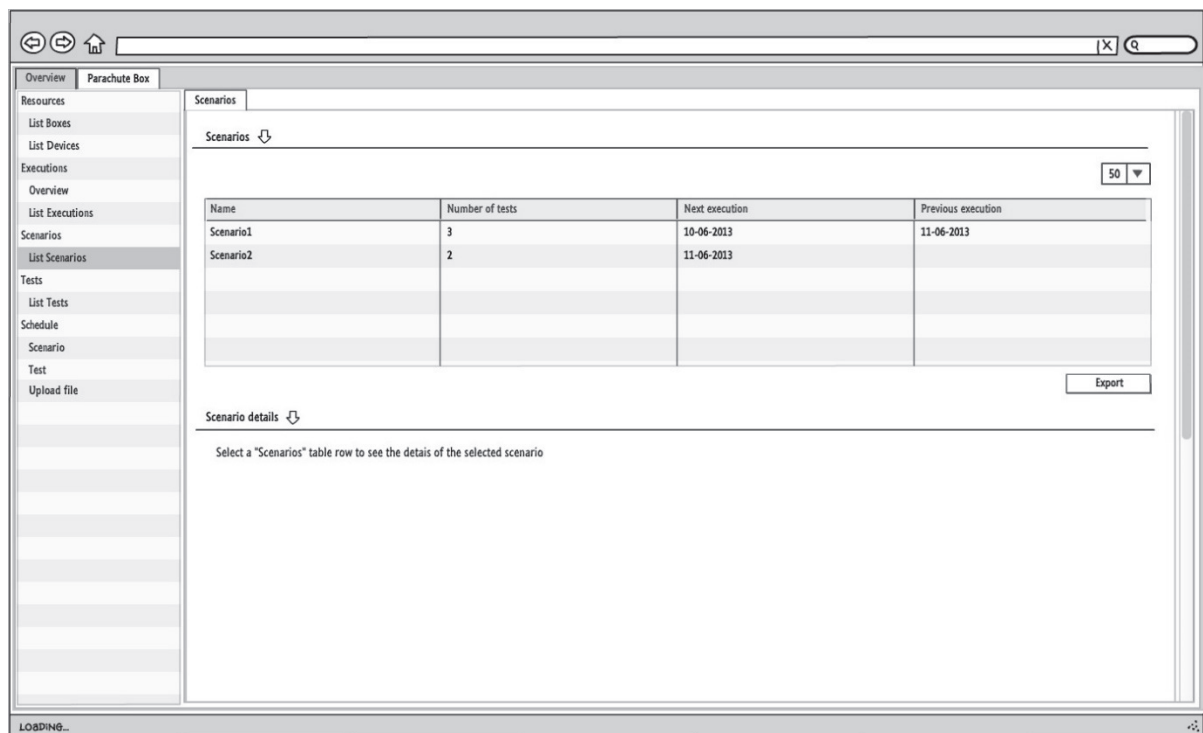


Fig. 26

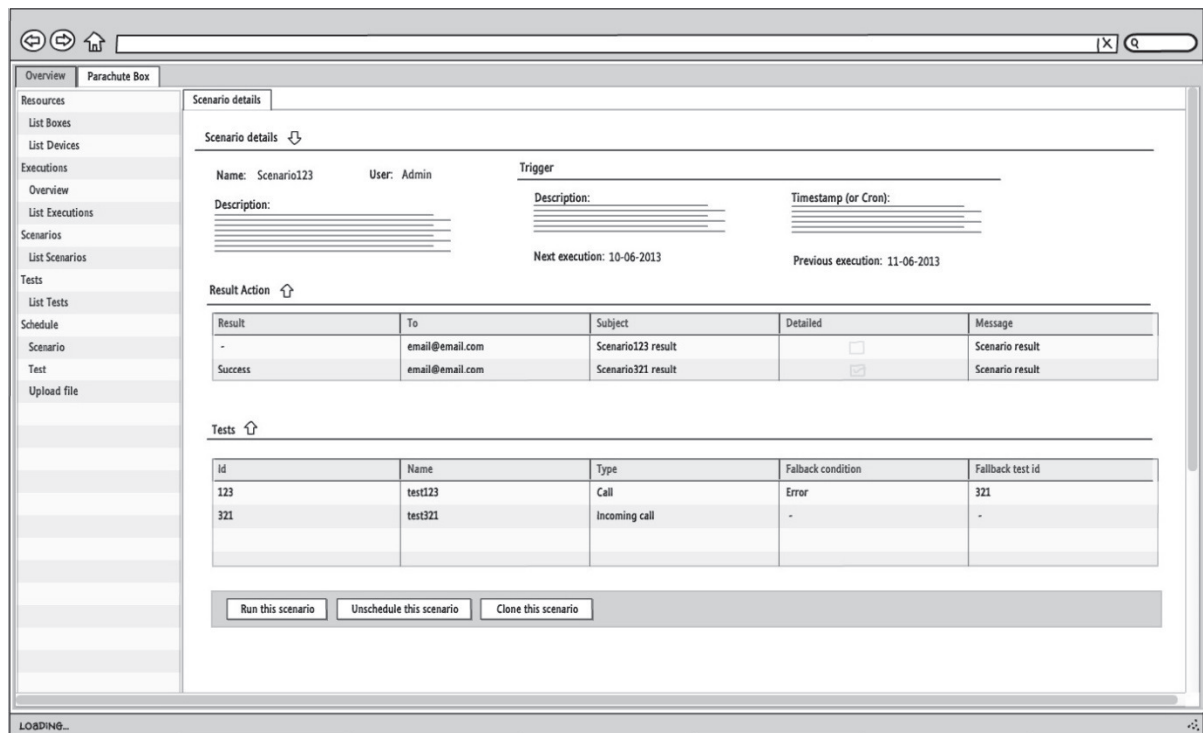


Fig. 27

Visual Paradigm for UML Community Edition [not for commercial use]

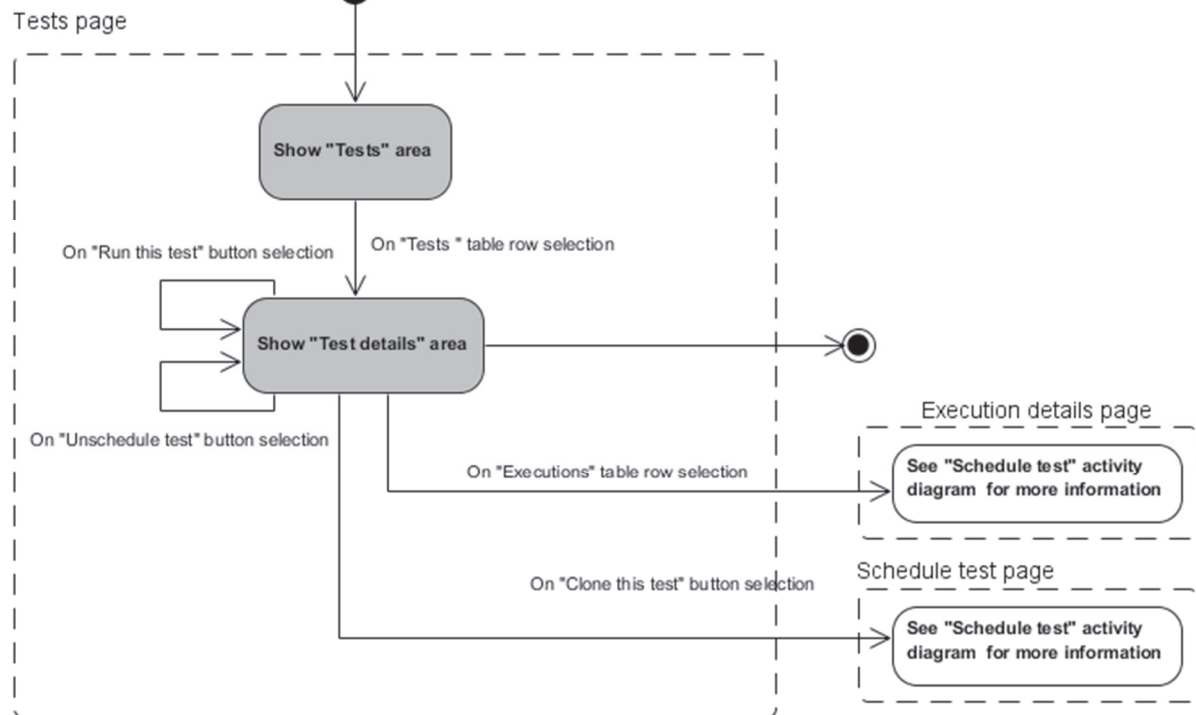


Fig. 28

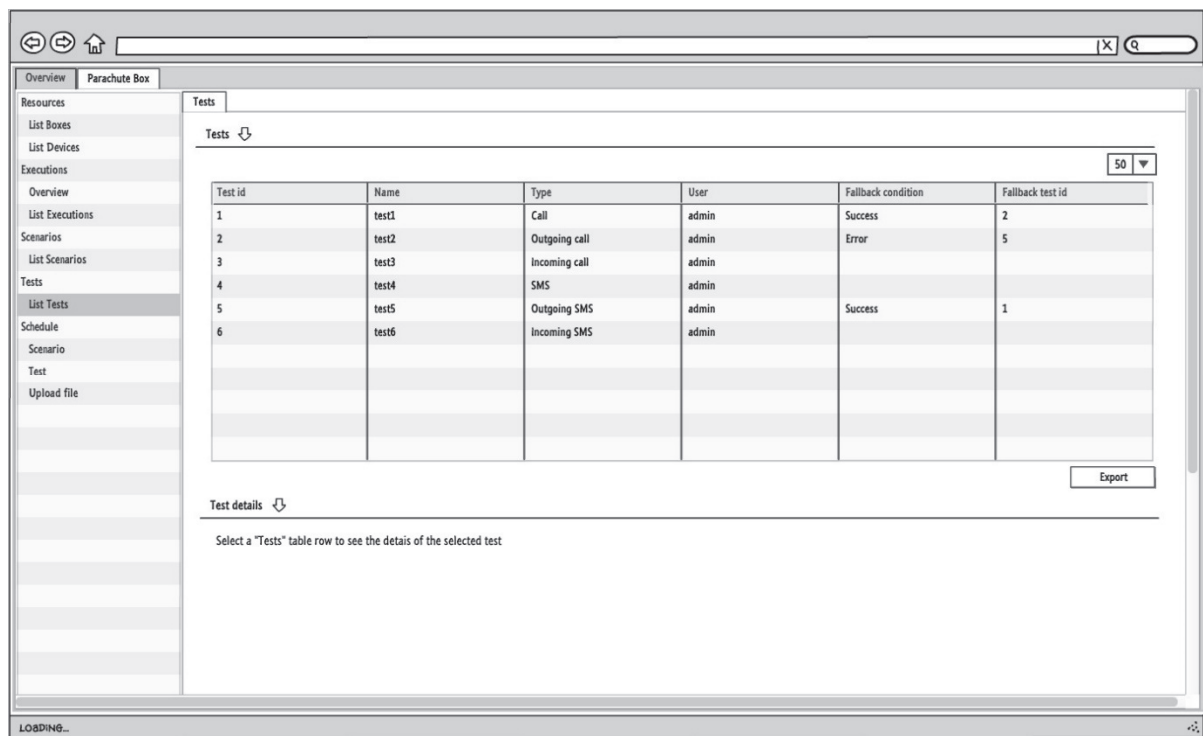


Fig. 29

Overview | Parachute Box

Executions

Overview

List Executions

Scenarios

List Scenarios

Tests

List Tests

Schedule

Scenario

Test

Upload file

Name: test123

Type: Call

User: admin

Description:

Wait resources timeout: 3000

Duration: 200

Max dialling delay: 1000

Ringing time: 3000

Max disconnect delay: 1000

MSISDN format: International format

Disconnect call MO: True

Disconnect call MT: False

Fallback Condition

Execute unexistent condition: True

Result to met condition: Success, Error

Test id: test1321

Device selection MO

Device selection MT

Executions

Priority	Start execution	Stop execution	MO City	MO Product type	MT City	MT Product type	Result
Scheduled	10/10/2012 14:51:02	-	Lisbon	B2B	Hong Kong	B2B	-
Scheduled	10/10/2012 14:51:02	11/10/2012 14:51:02	Lisbon	B2B	Hong Kong	B2B	Success

Schedule Unschedule Clone

LOADING...

Fig. 30

Overview | Parachute Box

List Devices

Executions

Overview

List Executions

Scenarios

List Scenarios

Tests

List Tests

Schedule

Scenario

Test

Upload file

Test details

Name: test123

Type: Outgoing Call

User: admin

Description:

Wait resources timeout: 3000

Destination MSISDN: 965845689

Duration: 1000

Fallback Condition

Execute unexistent condition: True

Result to met condition: Success, Error

Test id: test1321

Device selection MO

Executions

Priority	Start execution	Stop execution	MO City	MO Product type	Result
Manual	10-10-2012 14:51:2	-	Lisbon	B2B	Hong Kong
Schedule	10-10-2012 14:51:2	11-10-2012 14:51:2	Lisbon	B2B	Success

Schedule Unschedule Clone

LOADING...

Fig. 31

Overview | Parachute Box

Resources

- List Boxes
- List Devices

Executions

- Overview
- List Executions

Scenarios

- List Scenarios

Tests

- List Tests
- Schedule
- Scenario
- Test
- Upload file

Test details

Test details ↓

Name: test123
Type: Incoming Call
User: admin

Description:

Wait resources timeout: 3000
Disconnect call MT:
Duration: 1000
Expected MO MSISDN:
Max disconnection delay:
Ringing time:
Wait ringing time:
MO MSISDN: 965845689

Device selection MT

Fallback Condition

Execute unexistent condition: True
Result to met condition: Success, Error
Test id: test321

Executions ↓

Priority	Start execution	Stop execution	MT City	MT Product type	Result
Manual	10-10-2012 14:51:2	-	Lisbon	B2B	Hong Kong
Scheduled	10-10-2012 14:51:2	11-10-2012 14:51:2	Lisbon	B2B	Success

Schedule Unschedule Clone

LOADING...

Fig. 32

Overview | Parachute Box

Resources

- List Boxes
- List Devices

Executions

- Overview
- List Executions

Scenarios

- List Scenarios

Tests

- List Tests
- Schedule
- Scenario
- Test
- Upload file

Test details

Test details ↓

Name: test123
Type: SMS
User: admin

Description:

Wait resources timeout: 3000
Max Duration: 2000
Late: 1000
MSISDN format: International standard

Text:

MO MT Fallback Condition

MO MT Fallback Condition

Executions ↓

Priority	Start execution	Stop execution	MO City	MO Product type	MT City	MT Product type	Result
Scheduled	10/10/2012 14:51:02	-	Lisbon	B2B	Hong Kong	B2B	-
Scheduled	10/10/2012 14:51:02	11/10/2012 14:51:02	Lisbon	B2B	Hong Kong	B2B	Success

Schedule Unschedule Clone

LOADING...

Fig. 33

Overview Parachute Box

Resources

- List Boxes
- List Devices

Executions

- Overview
- List Executions

Scenarios

- List Scenarios

Tests

- List Tests
- Schedule
- Scenario
- Test
- Upload file

Test details

Test details

Name: test123 Wait resources timeout: 3000 Description:

Type: Outgoing SMS Max Duration: 2000

User: admin Destination MSISDN: 95687455

Device selection MO Fallback Condition Text:

...

N/A

Executions

Priority	Start execution	Stop execution	MO City	MO Product type	Result
Manual	10-10-2012 14:51:2	-	Lisbon	B2B	Hong Kong
Schedule	Finished	10-10-2012 14:51:2	11-10-2012 14:51:2	Lisbon	B2B

Schedule Unschedule Clone

LOADING...

Fig. 34

Overview Parachute Box

Resources

- List Boxes
- List Devices

Executions

- Overview
- List Executions

Scenarios

- List Scenarios

Tests

- List Tests
- Schedule
- Scenario
- Test
- Upload file

Test details

Test details

Name: test123 Wait resources timeout: 3000 Description:

Type: Incoming SMS Max Duration: 2000

User: admin Late: 1000

MO MSISDN: 95687455

Device selection MO Device selection MT Fallback Condition Text:

...

N/A

Executions

Priority	Start execution	Stop execution	MO City	MO Product type	Result
Manual	10-10-2012 14:51:2	-	Lisbon	B2B	Hong Kong
Scheduled	10-10-2012 14:51:2	11-10-2012 14:51:2	Lisbon	B2B	Success

Schedule Unschedule Clone

LOADING...

Fig. 35

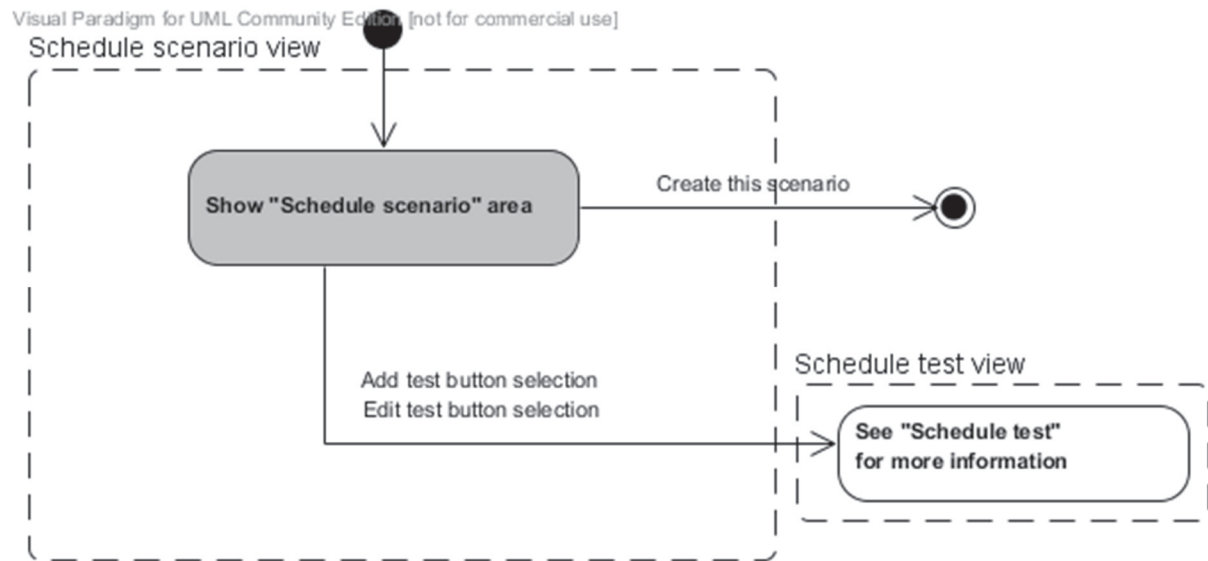


Fig. 36

Overview Parachute Box

Resources

- List Boxes
- List Devices
- Executions
- Overview
- List Executions
- Scenarios
- List Scenarios
- Tests
- List Tests
- Schedule
- Scenario
- Test
- Upload file

Schedule scenario

Schedule scenario ↕

Name: Description:

Trigger ↕

Type: ▼

Result Action ↕

Result	To	Subject	Detailed	Message

Tests ↕

Id	Name	Type	MO City	MO Product Type	MT City	MT Product Type	Fallback Condition	Fallback Test Id

LOADING...

Fig. 37

Visual Paradigm for UML Community Edition [not for commercial use]

Schedule test view

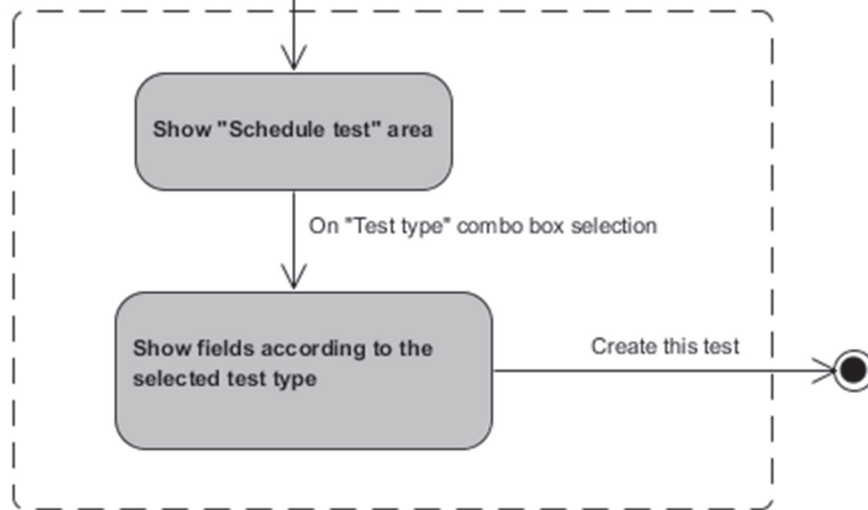


Fig. 38

The screenshot shows the 'Schedule test' view in the Visual Paradigm for UML Community Edition interface. The left sidebar contains a tree view with the following items: Overview, Parachute Box, Resources, List Boxes, List Devices, Executions, Overview, List Executions, Scenarios, List Scenarios, Tests, List Tests, Schedule, Scenario, Test, and Upload file. The main area is titled 'Schedule test' and contains the following fields and controls:

- Schedule test** (header)
- Test name:**
- Test type:**
- Description:**
- Scenario name:** scenario123
- Trigger** (header)
- Type:**
- Result Action** (header)
- | Result | To | Subject | Detailed | Message |
|--------|----|---------|----------|---------|
| | | | | |
-

The bottom status bar shows 'LOADING...'.

Fig. 39

The screenshot shows a web application interface for configuring a test. On the left is a sidebar with a tree view containing: Overview, Resources (List Boxes, List Devices), Executions (Overview, List Executions), Scenarios (List Scenarios), Tests (List Tests), Schedule, Scenario, Test, and Upload file. The 'Test' item is selected. The main area is titled 'Schedule test' and contains the following fields:

- Test name:
- Test type: **Call** (dropdown)
- Description:
- Scenario name: scenario123
- Wait resources timeout: MO MT
- Duration:
- Max dialling delay:
- Ringing time:
- Trigger:
- Type: **Execute Now** (dropdown)
- Result Action:

Below these fields is a table with 5 columns: Result, To, Subject, Detailed, and Message. The table is currently empty. At the bottom right of the table are 'Add' and 'Remove' buttons. At the bottom left of the main area is a 'Create this test' button. The status bar at the bottom left says 'LOADING...'.

Fig. 40

This screenshot is similar to Fig. 40, showing the 'Schedule test' configuration window, but with the 'Test type' set to 'Outgoing call'. The fields are:

- Test name:
- Test type: **Outgoing call** (dropdown)
- Description:
- Scenario name: scenario123
- Wait resources timeout: MO
- Destination MSISDN:
- Duration:
- Trigger:
- Type: **Execute Now** (dropdown)
- Result Action:

The table structure and 'Add/Remove' buttons are identical to Fig. 40. The 'Create this test' button is at the bottom left. The status bar at the bottom left says 'LOADING...'.

Fig. 41

The screenshot shows a web application interface for scheduling a test. The left sidebar contains a navigation menu with items: Overview, Parachute Box, Resources (List Boxes, List Devices), Executions (Overview, List Executions), Scenarios (List Scenarios), Tests (List Tests), Schedule, Scenario, Test, and Upload file. The main content area is titled 'Schedule test' and includes a 'Schedule test' link. The test configuration is as follows:

- Test name:** [Text input field]
- Test type:** Incoming call (dropdown menu)
- Description:** [Text input field]
- Scenario name:** scenario123
- Wait resources timeout:** [Text input field]
- Duration:** [Text input field]
- Waiting ringing time:** [Text input field]
- Ringing time:** [Text input field]
- MO MSISDN:** [List box containing MSISDN numbers]
- MT:** [Text input field]
- Expected MO MSISDN:** [Text input field]
- Trigger:**
 - Type: Execute Now (dropdown menu)
- Result Action:**

Result	To	Subject	Detailed	Message

Buttons at the bottom right: Add, Remove. A 'LOADING...' status bar is at the bottom.

Fig. 42

The screenshot shows the same web application interface, but for an 'SMS' test type. The configuration is as follows:

- Test name:** [Text input field]
- Test type:** SMS (dropdown menu)
- Description:** [Text input field]
- Scenario name:** scenario123
- Wait resources timeout:** [Text input field]
- Max duration:** [Text input field]
- Late:** [Text input field]
- Text:** [Text input field]
- MO:** [Text input field]
- MT:** [Text input field]
- Trigger:**
 - Type: Execute Now (dropdown menu)
- Result Action:**

Result	To	Subject	Detailed	Message

A 'Create this test' button is located at the bottom left of the main content area. A 'LOADING...' status bar is at the bottom.

Fig. 43

Overview | Parachute Box

Resources

- List Boxes
- List Devices

Executions

- Overview
- List Executions

Scenarios

- List Scenarios

Tests

- List Tests

Schedule

- Scenario
- Test**
- Upload file

Schedule test ↕

Test name: Test type: Outgoing SMS ▼ Description:

Scenario name: scenario123

Wait resources timeout:

Max duration:

Destination MSISDN:

MO ↕

Text:

Trigger ↕

Type: Execute Now ▼

Result Action ↕

Result	To	Subject	Detailed	Message

Add Remove

Create this test

LOADING...

Fig. 44

Overview | Parachute Box

Executions

- Overview
- List Executions

Scenarios

- List Scenarios

Tests

- List Tests

Schedule

- Scenario
- Test**
- Upload file

Test name: Test type: Incoming SMS ▼ Description:

Scenario name: scenario123

Wait resources timeout:

Max duration:

Late:

Expected MO MSISDN:

MO MSISDN:

MSISDN:

MT ↕

Text:

Trigger ↕

Type: Execute Now ▼

Result Action ↕

Result	To	Subject	Detailed	Message

Add Remove

Create this test

LOADING...

Fig. 45

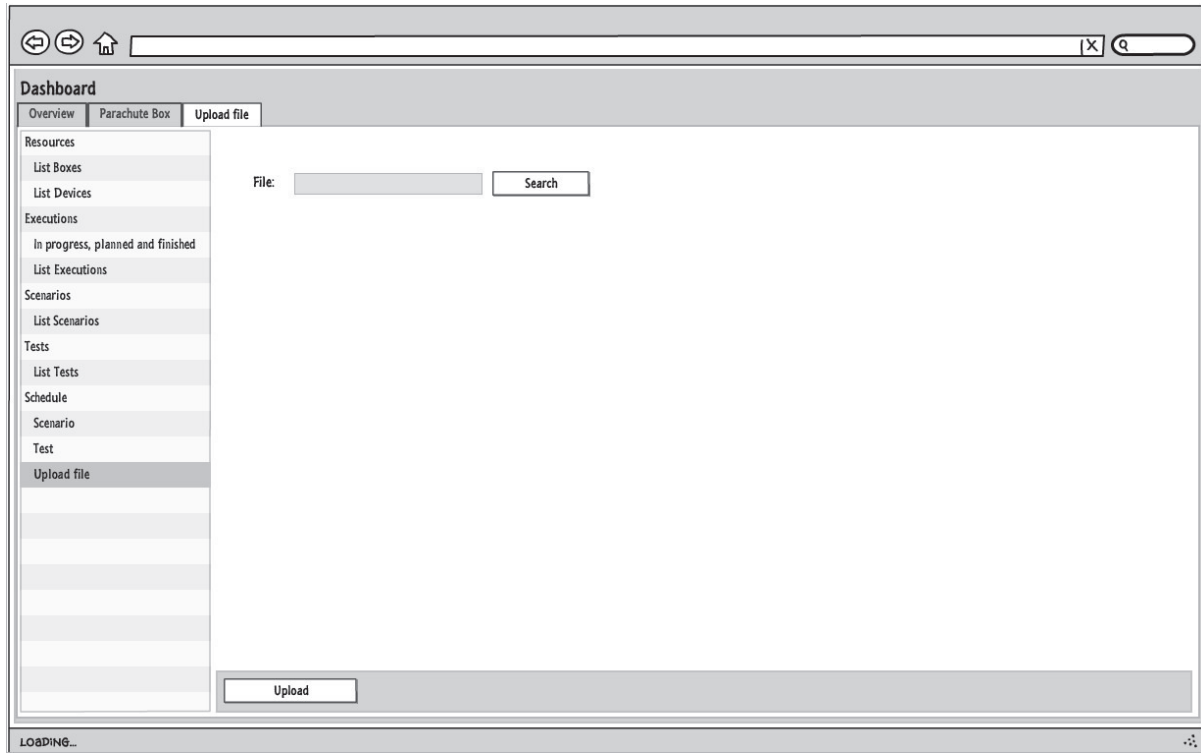


Fig. 46

Trigger 

Type: ▼ Description:

Fig. 47a

Trigger 

Type: ▼ Timestamp:

Description:

Fig. 47b

Trigger 

Type: ▼ Cron:

Description:

Fig. 47c

Trigger 

Type:

Find a Trigger



	Type	Description	Timestamp or Cron
☐	Cron	description123	cron123
☒	Timestamp	description321	timestamp321

Fig. 47d

Specific device selection ▼	
ICCID:	<input type="text"/>
MSISDN to use:	<input type="text"/>
Name:	<input type="text"/>
Serial:	<input type="text"/>

Fig. 48

Characteristics device selection ▼	
Location	
City:	<input type="text"/>
Country:	<input type="text"/>
MSISDN	
Country code	Primary
<input type="text"/>	☐
<div> Radio provider: <input type="text"/> ▼ </div> <div> SIM provider: <input type="text"/> ▼ </div> <div> Product type: <input type="text"/> ▼ </div> <div> Operating system: <input type="text"/> ▼ </div>	

Fig. 49