



Boeing 737NG Sixpack System

Manual (Version 1.0.0.0)

FSPS produces Flight Simulator addon software designed to be run across a computer network or as well on a single PC. Primary usage is for flight simulators or flight training devices. **The software can be used in professional or private use.** Any of our software **isn't** visible in **FS Full Screen Mode when it runs on FS's PC** because it is **not** part of Microsoft's FS panels, they are standalone applications. **But** that means when any of our software is running on a different PC over the Network it doesn't matter in what mode FS is running. All of the FSPS software follows very similar install procedures.

Requirements

- MSFS FS9 (FS2004) / FSX
- Project magenta pmsystems
- Windows 2000 / XP / Vista 32 / Vista 64
- Full registered version of FSUIPC
- Full registered version of WideFS for network installation
- Computer Network TCP/IP or IPX for network installation, check WideFS documentation
- .Net Framework 3.5 (or higher) must be installed on that PC

Caution:

All FSPS software requires that the Microsoft .NET Framework 3.5 be installed. Without .NET Framework 3.5 installed, our software will not launch properly and the user will see an error message.

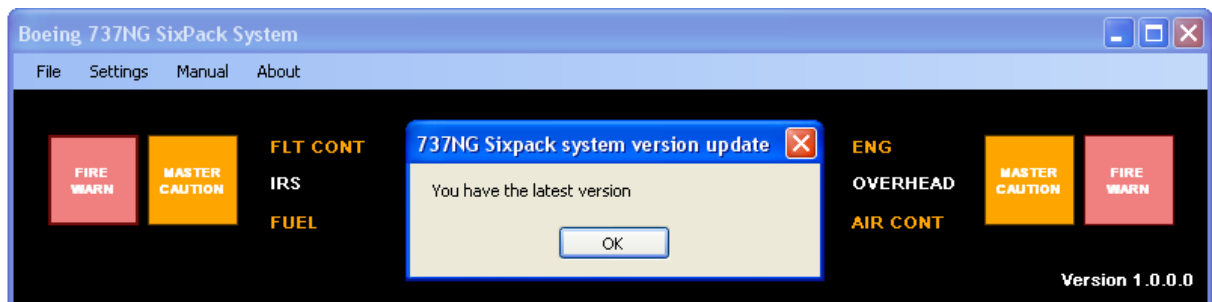
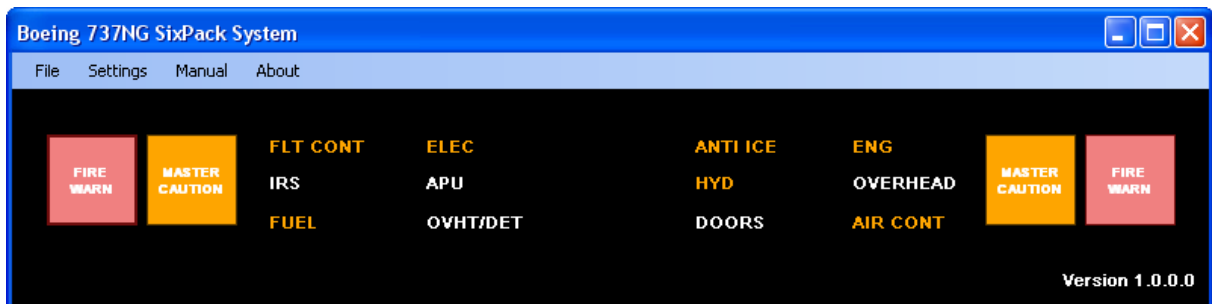
Compatibility:

Windows 2000 / XP / Vista 32 / Vista 64

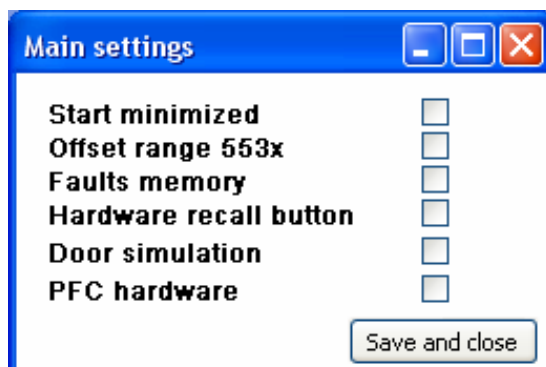
The software uses the FSUIPCClient.dll by **Paul Henty** to communicate with FSUIPC / FS (by **Peter Dowson**).

Software pictures

Main screen



Setting screens



Hardware pictures



Description

Sixpack indicator

- Illuminated = an amber light relating to illuminated system annunciator has illuminated on forward overhead, aft overhead, or overheat/fire protection panel (except FAULT light)
- Captain and First officer annunciators are different; show respective panel indications
- To extinguish, press either MASTER CAUTION

Recall button

- All system annunciator lights come on
- When you release the "6-pack", the system annunciator lights that remain illuminated shows which system have faults

Fire warn button / Bell cut-out

- Illuminated = indicates fire warning or system test in engine, APU or main gear wheel well
- gives a fire warning bell, and remote APU horn if on ground
- press to extinguish both master FIRE WARN lights, silence the bell and remote horn
- Pushing the bell cut-out on Fire Panel (aft electronic panel) accomplishes the same thing

Master Caution button

- Illuminated = a system annunciator has come on
- press to reset MASTER CAUTION light and system annunciator light
 - if a fault condition remains, the MASTER CAUTION light come on again
- resets system for additional MASTER CAUTION situations
- Lights on forward panel do not light the MASTER CAUTION light, only "out of view" lights
- Do not leave lights on when they are not necessary as extensive heat can distort the lenses

Master Fire Warning Lights

Two master FIRE WARN lights illuminate when any fire warning condition occurs. The lights remain illuminated as long as the condition exists. Pushing either master FIRE WARN light or fire warning bell cutout switch extinguishes both lights, silences the fire warning bell and resets the system for future warnings. Further information appears in the Fire Protection section.

Master Caution Lights

Two MASTER CAUTION lights illuminate when any caution occurs outside the normal field of vision of the flight crew. The lights remain illuminated as long as the caution condition exists, or until the crew resets the system. Pushing either MASTER CAUTION light extinguishes both lights and resets the master caution system for further cautions. Pushing either annunciator light panel recalls all existing fault annunciations.

A single fault in certain redundant systems, or some simple faults, do not illuminate the MASTER CAUTION or system annunciator lights. These faults, however, are stored in the master caution system. Pushing the system annunciator recalls the single fault on the system annunciator panel.

When the MASTER CAUTION recall is pressed, all twelve system lights should illuminate while the press-to-test feature is held. If a system annunciator light does not illuminate, refer to the dispatch deviation procedures guide (DDPG).

System Annunciator Lights

Two system annunciator light panels are located on the glare shield. The annunciator light panels include only those systems located on the forward overhead, aft overhead, and fire control panels. If a caution condition exists, the appropriate system annunciator(s) and MASTER CAUTION lights illuminate.

System Annunciators and Related Amber Lights – Left Side

FLT CONT		ELEC						
LOW QUANTITY LOW PRESSURE FEEL DIFF PRESS SPEED TRIM FAIL MACH TRIM FAIL AUTO SLAT FAIL YAW DAMPER STBY RUD ON		DRIVE STANDBY PWR OFF TRANSFER BUS OFF SOURCE OFF TR UNIT BATTERY DISCHARGE ELEC						
	<table border="1" style="width: 100%; text-align: center;"> <tr> <td style="background-color: black; color: yellow;">FLT CONT</td> <td style="background-color: black; color: yellow;">ELEC</td> </tr> <tr> <td style="background-color: black; color: yellow;">IRS</td> <td style="background-color: black; color: yellow;">APU</td> </tr> <tr> <td style="background-color: black; color: yellow;">FUEL</td> <td style="background-color: black; color: yellow;">OVHT/DET</td> </tr> </table>	FLT CONT	ELEC	IRS	APU	FUEL	OVHT/DET	
FLT CONT	ELEC							
IRS	APU							
FUEL	OVHT/DET							
IRS	LEFT SIDE GLARESHIELD	APU						
FAULT ON DC DC FAIL GPS		LOW OIL PRESSURE FAULT OVERSPEED						
FUEL		OVHT/DET						
LOW PRESSURE FILTER BYPASS		ENGINE 1 OVERHEAT ENGINE 2 OVERHEAT APU DET INOP						

System Annunciators and Related Amber Lights – Right Side

[Option - 737-800/900, ICE DETECTOR, AIRSTAIR, ELT, HIGH ALTITUDE LANDING - INOP, lavatory SMOKE detector]

ANTI-ICE		ENG						
WINDOW OVERHEAT PITOT HEAT COWL ANTI-ICE ICE DETECTOR		REVERSER EEC ALTN MODE ENGINE CONTROL						
HYD		OVERHEAD						
OVERHEAT LOW PRESSURE	<table border="1"> <tr> <td>ANTI-ICE</td> <td>ENG</td> </tr> <tr> <td>HYD</td> <td>OVERHEAD</td> </tr> <tr> <td>DOORS</td> <td>AIR COND</td> </tr> </table> <p>RIGHT SIDE GLARESHIELD</p>	ANTI-ICE	ENG	HYD	OVERHEAD	DOORS	AIR COND	ELT EQUIP COOLING- OFF EMER EXIT LIGHTS-NOT ARMED FLIGHT RECORDER-OFF PASS OXY-ON PSEU SMOKE
ANTI-ICE	ENG							
HYD	OVERHEAD							
DOORS	AIR COND							
DOORS		AIR COND						
FWD/AFT ENTRY AIRSTAIR EQUIP FWD/AFT CARGO FWD/AFT SERVICE LEFT/RIGHT OVERWING		ZONE TEMP DUAL BLEED PACK WING-BODY OVERHEAT BLEED TRIP OFF AUTO FAIL OFF SCHED DESCENT HIGH ALTITUDE LANDING - INOP						

Settings.ini file

Start-minimized=No 'Yes or No

This will set the program to start minimized or not.

Note: Does not work at demo mode.

Offset-range-553x=No 'Yes or No

This will set the program to use 5530 and 5531 offset range or not.

Memory-faults=No 'Yes or No

If set to No, then sixpackleds will be cleared in real time.

Hardware-recall-button-available= No 'Yes or No

Set to YES if you have a hardware recall button. Otherwise, leave it to no and Master caution button will be the recall button also.

Door-Simulation=Yes 'Yes or No

Set to YES to use internal door simulation logic.

'Delete door-simulation logic from pmsys737ng.lgc

'You have to assign the doors at doors.ini file

Set to NO in order to use pmsystems door simulation

PFC-Hardware=No 'Yes or No

If you have PFC hardware then set this option to Yes

Doors.ini file

door1-type=1

door2-type=2

door3-type=3

door4-type=4

//TYPE OF DOORS

FWD ENTRY=1

AFT ENTRY=2

FWD CARGO ENTRY=3

AFT CARGO ENTRY=4

LEFT FWD OVERWING=5

LEFT AFT OVERWING=6

RIGHT FWD OVERWING=7

RIGHT AFT OVERWING=8

FWD SERVICE=9

AFT SERVICE=10

EQUIP=11

Set door1-type=1 if 1st door is FTW ENTRY

Set door1-type=2 if 1st door is AFT ENTRY

Set door1-type=3 if 1st door is FTW CARGO ENTRY

Set door1-type=4 if 1st door is AFT CARGO ENTRY

Set door1-type=5 if 1st door is LEFT FWD OVERWING

Set door1-type=6 if 1st door is LEFT AFT OVERWING

Set door1-type=7 if 1st door is RIGHT FWD OVERWING

Set door1-type=8 if 1st door is RIGHT AFT OVERWING

Set door1-type=9 if 1st door is FWD SERVICE

Set door1-type=10 if 1st door is AFT SERVICE

Set door1-type=11 if 1st door is EQUIP

Follow the same procedure for the other doors.

Note: You must define the number of exits at aircraft.cfg file.

[EXITS]

number_of_exis=4

Output offsets (Use this for the leds)

Project magenta offset range from 5530 up to 5531 (1 byte)

```
5530 .0 SixPackFire
5530 .1 SixPackCaution
5530 .2 SixPackFltCont
5530 .3 SixPackElec
5530 .4 SixPackIRS
5530 .5 SixPackAPU
5530 .6 SixPackEng
5530 .7 SixPackOverheat
```

```
5531 .0 SixPackAntiIce
5531 .1 SixpackAirCond
5531 .2 SixPackHyd
5531 .3 SixPackFuel
5531 .4 SixpackOverhead
5531 .5 SixPackDoors
```

Project magenta offset range from 5540 up to 5541 (1 byte)

```
5540 .0 SixPackFireDisp
5540 .1 SixPackCautionDisp
5540 .2 SixPackFltContDisp
5540 .3 SixPackElecDisp
5540 .4 SixPackIRSDisp
5540 .5 SixPackAPUDisp
5540 .6 SixPackEngDisp
5540 .7 SixPackOvheDetDisp
```

```
5541 .0 SixPackAntiIceDisp
5541 .1 SixpackAirCondDisp
5541 .2 SixPackHydDisp
5541 .3 SixPackFuelDisp
5541 .4 SixpackOverheadDisp
5541 .5 SixPackDoorsDisp
```

Input offsets (Use this for the buttons)

Project magenta offset 56F8 (1 byte)

```
56F8 .0 MasterCautionSwitch
56F8 .1 RecallSwitch
56F8 .4 MasterFireSwitch
```

*If you are using Phidgets cards then you can make use of the supplied file
Project Magenta Sixpack Variables.ini*

Logics to remove from pmsys737.lgc file

```
sixpackfltcont = yawdamperfault or feeldiffpress
sixpackelec = source1off or source2off or (standbypower = 0) or battdischarge
sixpackhyd = hydeng1fault or hydeng2fault or hydelec1fault or hydelec2fault
sixpackapu = apulowpress or apufault
'sixpackfire = 0
'sixpackeng = 0
sixpackantiice = (fspitot = 0) or (testheat=0)
sixpackdoors = doorflags <> 0
sixpackfuel = aft1pumpfault or fwd1pumpfault or fwd2pumpfault or aft2pumpfault

if recallswitch then
    sixpackfltcontdisp = 0
    sixpackelecdisp = 0
    sixpackhyddisp = 0
    sixpackapudisp = 0
    sixpackfiredisp = 0
    sixpackengdisp = 0
    sixpackantiicedisp = 0
    sixpackdoorsdisp = 0
    sixpackfueldisp = 0
else
    sixpackfltcontdisp = sixpackfltcont
    sixpackelecdisp = sixpackelec
    sixpackhyddisp = sixpackhyd
    sixpackapudisp = sixpackapu
    sixpackfiredisp = sixpackfire
    sixpackengdisp = sixpackeng
    sixpackantiicedisp = sixpackantiice
    sixpackdoorsdisp = sixpackdoors
    sixpackfueldisp = sixpackfuel
endif

testbit = sixpackelec

if mastercautionswitch then
    sixpackcaution = 0
    mastercautionswitch = 0 [1]
endif

'Delete this section only if you set Door-Simulation=Yes inside settings.ini file
// door simulation
if fsPrkBrake and ((fsstartflag1 = 0) and (fsstartflag2 = 0)) and (beacon = 0)
    if OptDoors then
        pdoor1 = fsdoor1
        cdoor1 = fsdoor2
    else
        pdoor1 = 1 [2]
        cdoor1 = 1 [20]
    endif
    pdoor4 = 1 [10]
    cdoor2 = 1 [25]
else
    if fsdoors = 0
        pdoor1 = 0 [2]
        pdoor4 = 0 [3]
        cdoor1 = 0 [2]
        cdoor2 = 0 [1]
    endif
endif
endif
```

ACTIVATION CENTER

This interface is intended for clients (end users).

LOGIN PAGE

Clients are using the same [login page](#) as administrators.

By default, clients are redirected to [account section](#) from login page.

ACCOUNT SECTION

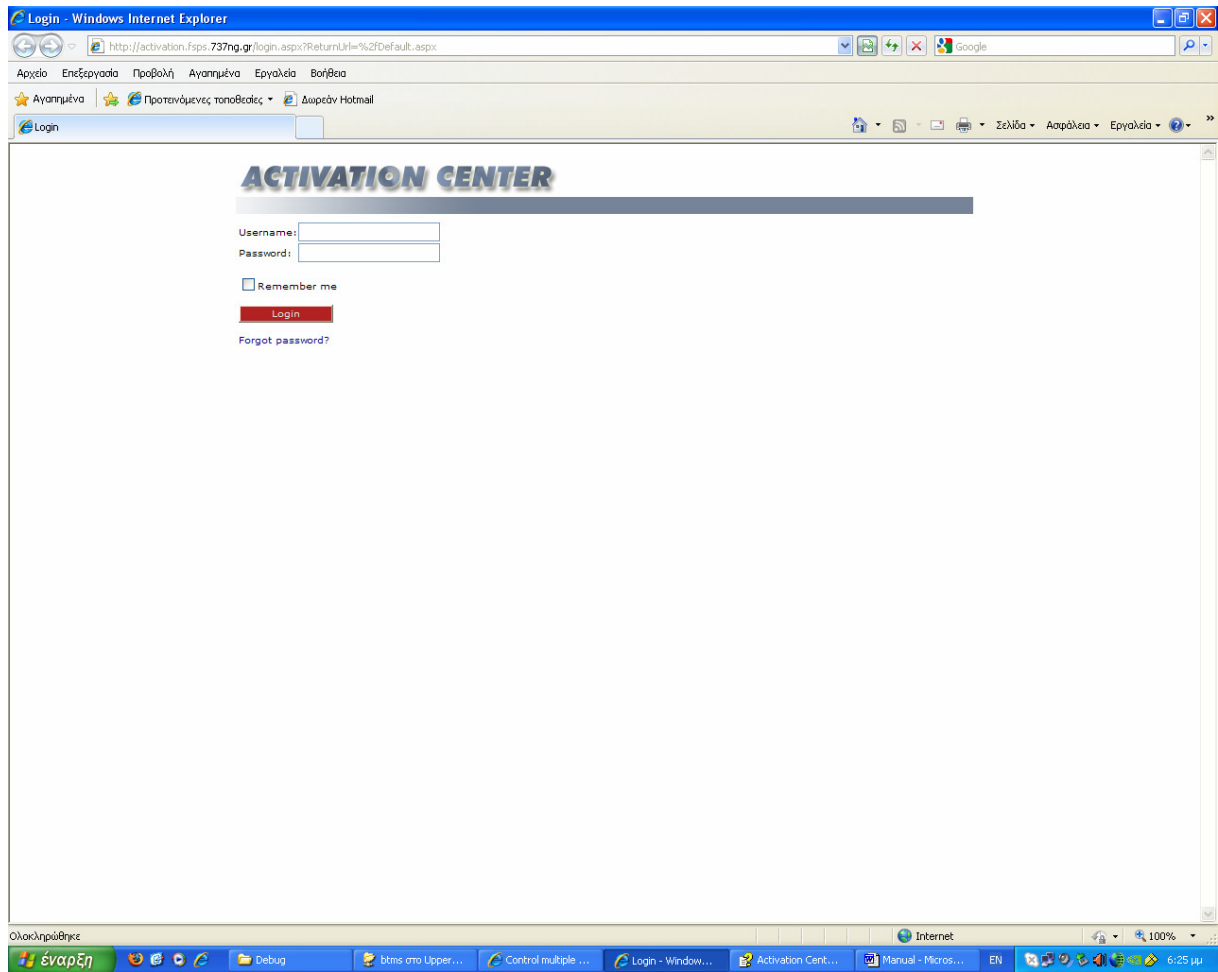
Clients can update personal (company) information and change access password here

ORDERS SECTION

[Orders page](#) is intended for:

- reviewing orders and licenses
- activating new licenses
- reactivating previous licenses
- transferring licenses from one computer to another
- adding new orders with valid serial numbers

LOGIN PAGE



<http://activation.fsp.737ng.gr>

ACCOUNT SECTION

ACTIVATION CENTER

Logged as: **TEST01** Account Orders

Account information:

<input type="text" value="First"/>	First name
<input type="text" value="Last"/>	Last name
<input type="text" value="Registraton name"/>	Registration name
<input type="text" value="Company"/>	Company
<input type="text" value="Address"/>	Address
<input type="text" value="City"/>	City
<input type="text" value="11000"/>	ZIP
<input type="text" value="State"/>	State
<input type="text" value="Country"/>	Country
<input type="text" value="Phone"/>	Phone number
<input type="text" value="Fax"/>	Fax number
<input type="text" value="test01@test.com"/>	Email address
<input type="text"/>	Email address 2

 Status: *

Change your password:

<input type="text"/>	Old password
<input type="text"/>	New password
<input type="text"/>	New password (for validation)

 Status: *

Client can update personal/company information and login password here.

Clicking on '**Update**' button will update database with current client data.

Clicking on '**Restore**' button will reload and display client data from database.

In order to change login password client should set his current password and new password (twice) and click on '**Change**' button.

ORDERS SECTION

Client can review orders and manage licenses here.

ACTIVATION CENTER

Logged as: **TEST01** Account Orders Log out

This is the list of your active orders. Please click on "licenses" button to view licenses for selected order.

	OrderID	Program name	Date	Licenses	Payment type
licenses	7	My Application V1.0	27/01/2009	2 / 1	
licenses	10	Test application V4.0	14/08/2009	3 / 2	
---	11	My Application V2.0	10/09/2009	-	

Status: 2 of 3 licenses currently activated for this order.

	Site code	Machine ID	Note	Activated	Expires	
	BD8C8E25	787B-6C2B-8B9E-DB57		09/09/2009	11/09/2009	
	87B7A339	BD69-FB0B-4F1D-E24A		10/09/2009	12/09/2009	

Site code Machine ID (MID) Note Removal code

Status: Please set required activation information.

ORDERS TABLE

All active orders are listed in this table.

Order ID, Program name, Order date, Number of licenses (total/activated) and payment info is available for each order.

By clicking on **licenses** button client can see active licenses for selected order.

--- is displayed in case program does not require activation.

LICENSES TABLE

All active licenses for selected order are displayed here.

Site code, Machine ID, Note, Date of activation and Expiration date (in case of limited license) information is displayed for each license.

Activation code for each license can be viewed by opening activation email panel (button)

ADD NEW LICENSE BUTTON

This button is used for adding new licenses and is available only in case there are unused licenses left. Site/MID codes are required for activation.

Client should set Site code, Machine ID code, Note (if required) and click on "**Add new license**" button to add new license.

LICENSE UPDATE (REACTIVATION / TRANSFER) BUTTON

LICENSE REACTIVATION

Computer could crash, client could format drive or install new operating system without removing license first. Client can use this option to reactivate lost license on original computer without valid removal code.

Client should set Site code, Machine ID code, Note (if required) and click on "**Update license**" button to reactivate license.

ACEN will compare old and new locking parameters and based on [locking/activation options](#) determine if license can be reactivated.

In case too many locking parameters are different client should contact you directly and ask for activation code. You will be able to manually check and compare locking parameters in [activation panel](#).

LICENSE TRANSFER

Client should set Site code, Machine ID, Note (if required), valid Removal code and click on "**Update license**" button to transfer license to new computer.

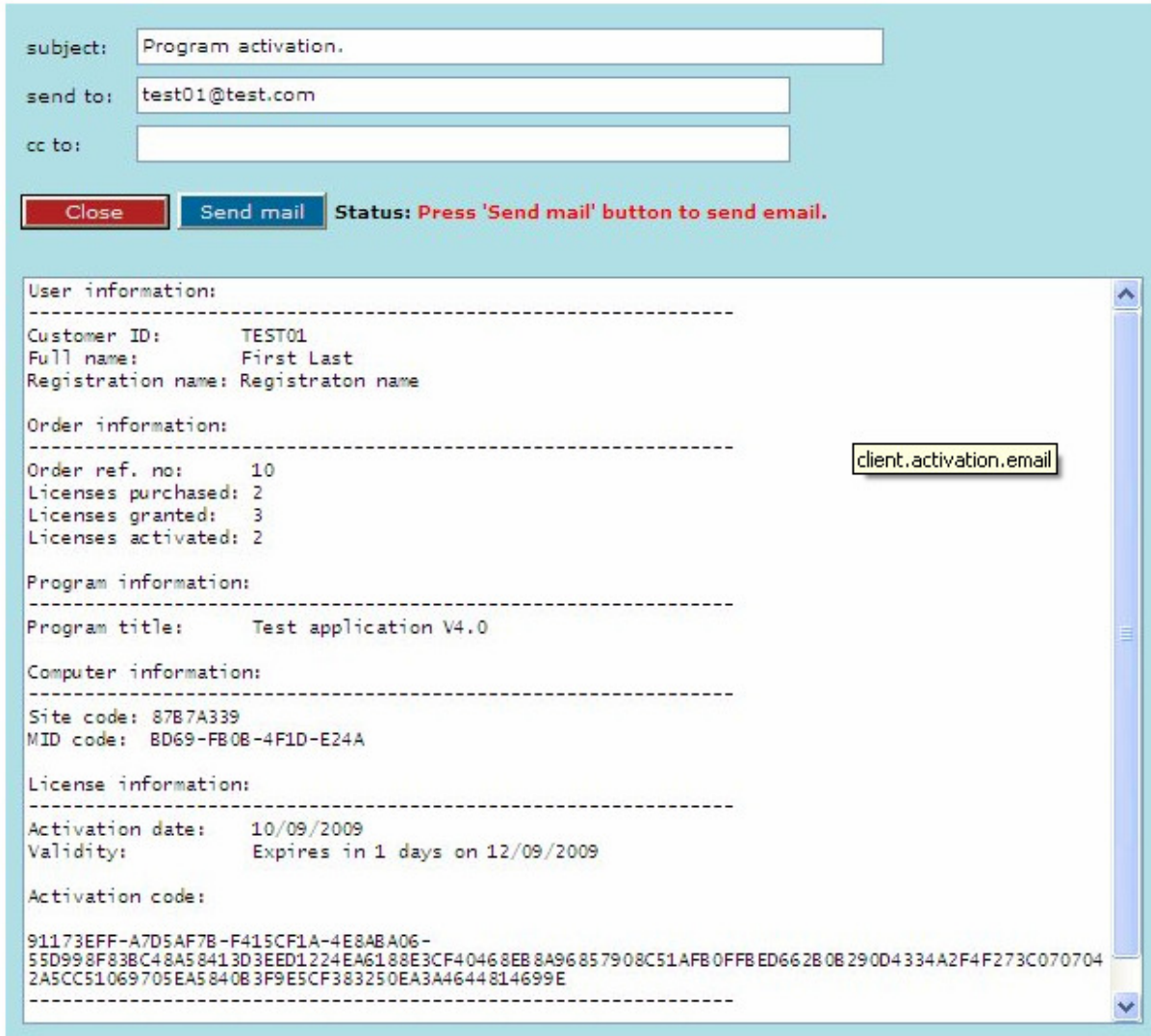
LICENSE REMOVAL BUTTON

Client can remove license with valid removal code. Original license will be deleted and new license will be granted for appropriate order.

This button is not available for programs with limited license enabled.

ACTIVATION EMAIL PANEL BUTTON

This button will open activation email panel.



subject: Program activation.

send to: test01@test.com

cc to:

Close **Send mail** Status: Press 'Send mail' button to send email.

User information:

Customer ID: TEST01
Full name: First Last
Registration name: Registraton name

Order information:

Order ref. no: 10
Licenses purchased: 2
Licenses granted: 3
Licenses activated: 2

Program information:

Program title: Test application V4.0

Computer information:

Site code: 87B7A339
MID code: BD69-FB08-4F1D-E24A

License information:

Activation date: 10/09/2009
Validity: Expires in 1 days on 12/09/2009

Activation code:

91173EFF-A7D5AF7B-F415CF1A-4E8ABA06-
55D998F83BC48A58413D3EED1224EA6188E3CF40468EB8A96857908C51AFB0FFBED662B0B290D4334A2F4F273C070704
2A5CC51069705EA5840B3F9E5CF383250EA3A4644814699E

client.activation.email

By default, user can not edit email message before sending it.

NOTES:

- Small note (up to 30 characters) can be added when updating existing or adding new license. This note will be displayed in licenses table right after activation code. Client can use this information to identify each license (by setting license owner name or computer name for example).