



OrbitXP Connector for X-Plane 12

User Manual

FS-MAN-SOF-NA-E-20-2453



OrbitXP
Sismo X-Plane Connector

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1 PURPOSE

This document explains the key characteristics of OrbitXP, how it works, its main benefits for Sismo customers, and how to configure a Sismo flight simulator.

OrbitXP has been designed to connect Sismo Plug&Fly Modules directly to X-Plane 12 using the Zibo 737-800X aircraft.

OrbitXP V5.5.0 and this edition of the manual are focused primarily on X-Plane 12. References to X-Plane 11 contained in previous manual editions should be considered legacy information; the installation and configuration procedures described in Ed. 5 refer to X-Plane 12.

2 REFERENCE DOCUMENTS

Id	Title	Reference	Ed.	Author/Publisher
[R1]	User Manual - SC-MB Ethernet Configuration	SC-MAN-SCE-E-17-0003	1.6	Sismo
[R2]				

3 INTRODUCTION TO SISMO HARDWARE

Each Sismo Plug&Fly module, such as the MCP/EFIS, MIP, Pedestal, FWD Overhead or AFT Overhead, has its own hardware components and wiring layout. All modules are controlled by electronic boards designed by Sismo, known as the SimCards Ethernet family, which has been in use since 2009.

SimCards use Ethernet communication. This provides a stable LAN connection for the hundreds of real-time inputs and outputs used by a flight simulator.

Ethernet communication is especially suitable for permanently installed simulator hardware because the modules keep a defined network configuration and are not dependent on USB device enumeration.

The SimCards can be connected through a standard Ethernet switch or router. The computer and the SimCards must be configured on compatible IP networks. For further information, please read manual [R1] or watch the following videos:

<https://www.youtube.com/watch?v=nPaQGjc2VPw&t=14s>

<https://www.youtube.com/watch?v=0ouRsOyB014>



A video tutorial about OrbitXP is available at the following link:

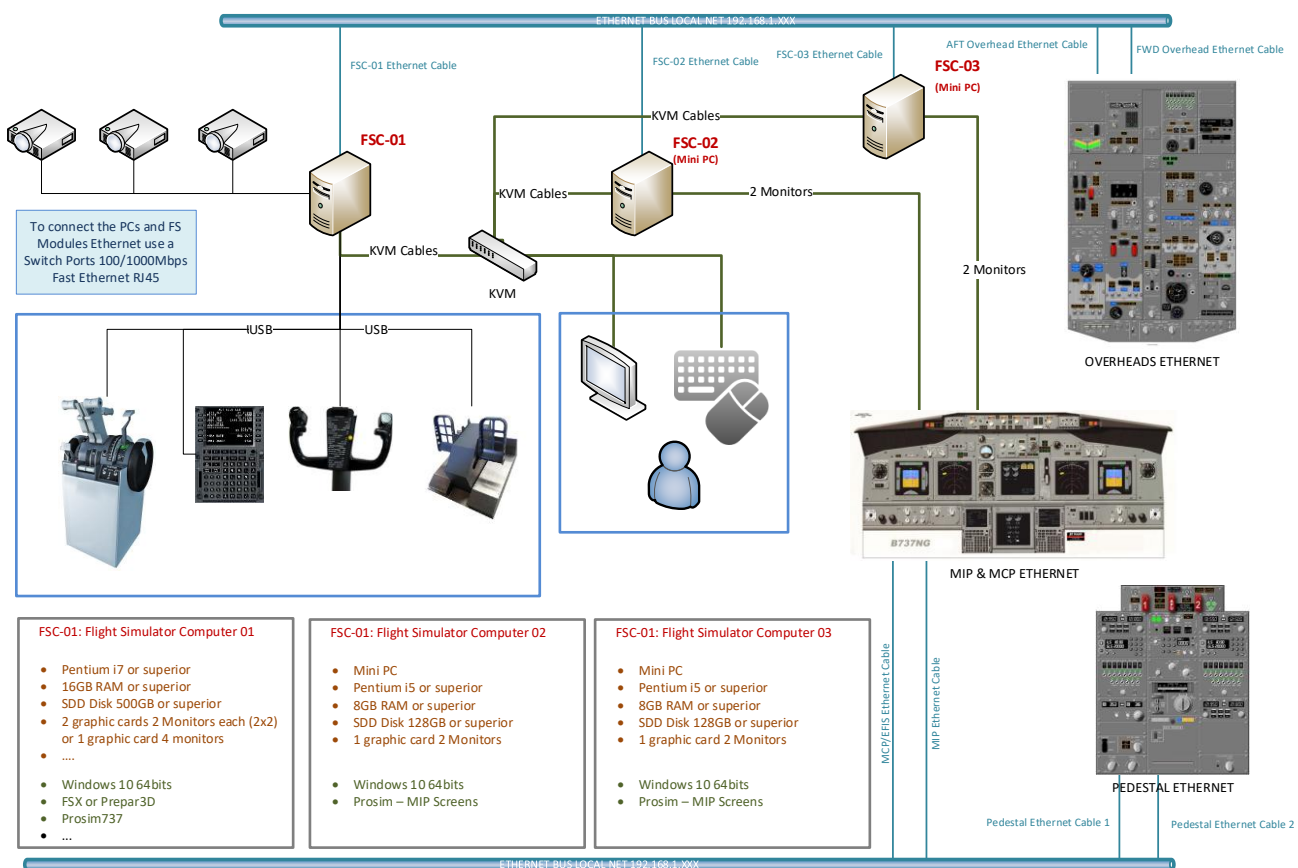
<https://www.youtube.com/watch?v=usIIQYq5w0c>

<https://www.youtube.com/watch?v=usIIQYq5w0c>

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3.1 EXAMPLE HARDWARE SET-UP

The figure below shows a typical flight simulator layout based on Sismo hardware.



3.2 ORBITXP FEATURES

OrbitXP is a native 64-bit Windows application developed by Sismo. It was designed with the following objectives in mind:

- To connect Sismo Plug&Fly modules directly and automatically to X-Plane 12. The hardware-to-simulator mapping is performed inside OrbitXP, allowing the user to connect the modules and run the software with minimal configuration.
- The application is native 64-bit.
- No additional middleware is required between OrbitXP and the Sismo hardware.
- OrbitXP scans the LAN for connected SimCards associated with Sismo modules and assigns them automatically according to the configured module/IP mapping.
- OrbitXP establishes a connection with X-Plane 12 when the simulator is running and a supported Zibo 737-800X aircraft is loaded.
- The application can be managed from X-Plane through the Sismo OrbitXP plugin menu.
- Customer configuration is minimal and can be managed from the OrbitXP interface or, when required, by editing C:\ProgramData\Sismo\OrbitXP\config.ini.
- OrbitXP is provided free of charge to Sismo customers using supported Sismo hardware.

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- OrbitXP is maintained together with the supported X-Plane and Zibo interfaces.
- OrbitXP manages the mapping of hundreds of simulator inputs and outputs.

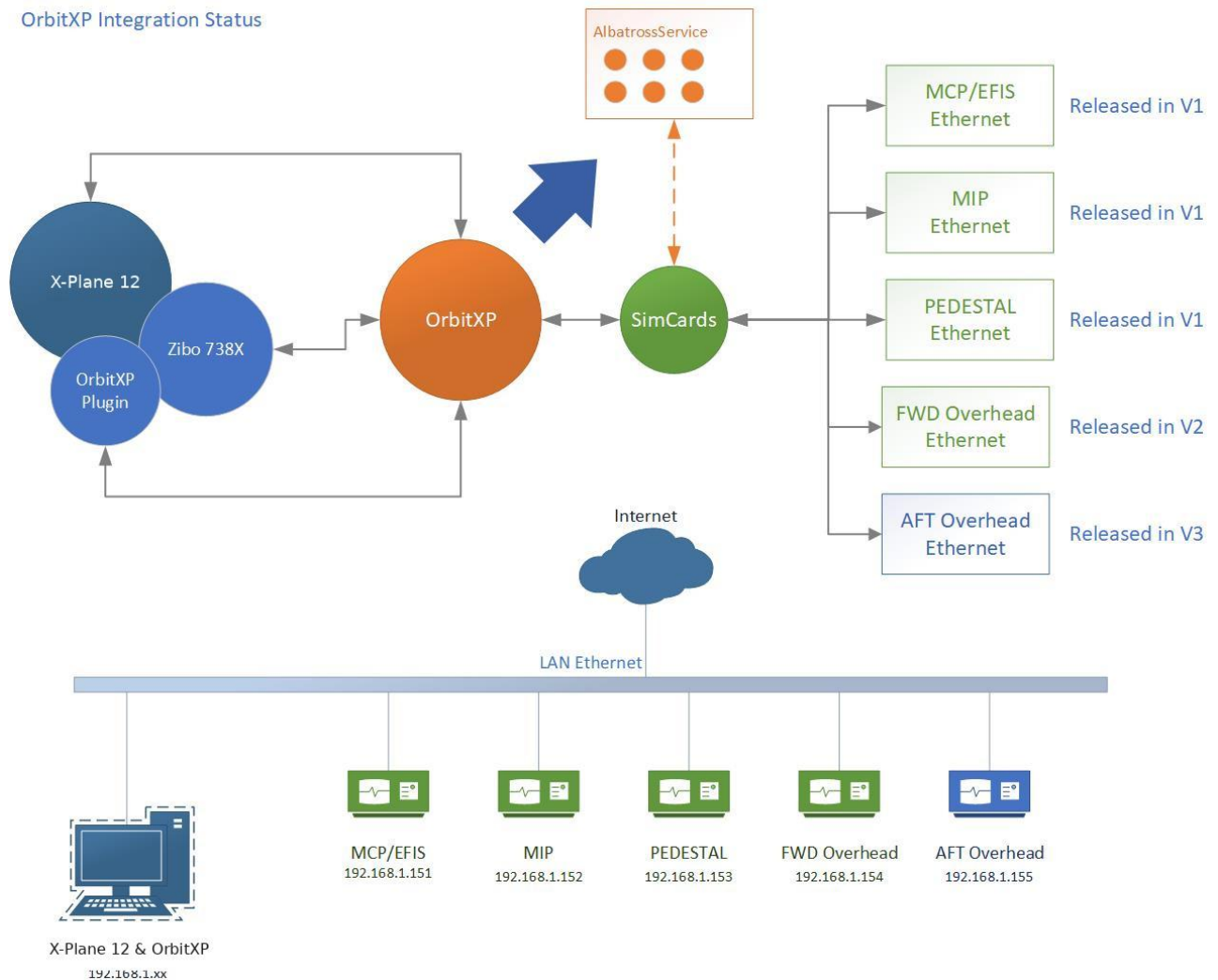
Available functionality depends on the datarefs and commands exposed by the installed Zibo release. Some controls may therefore have limited functionality in a particular Zibo version even though the Sismo hardware itself supports the corresponding real-aircraft function.



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3.3 ORBITXP FUNCTIONAL LAYOUT

OrbitXP Integration Status



OrbitXP is an application with the following capabilities:

- Scans and connects the SimCards connected in the LAN and automatically assigns a Plug&Fly module depending on the IP address.
- Automatically detects X-Plane 12 and establishes the connection. The Sismo OrbitXP plugin menu can also be used to run/connect OrbitXP and to show its interface.
- OrbitXP can open the SimCard configuration page. Plug&Fly modules are normally supplied with the correct network settings, but the addresses can be customized when required. The computer and all SimCards must remain on compatible IP networks.
- OrbitXP displays SimCard inputs in real time and can test outputs, displays, servos and analog inputs. This diagnostic service, called AlbatrossService, is useful for determining whether a problem is related to hardware, wiring, network communication or simulator mapping.

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4 COMPATIBILITY

4.1 HARDWARE COMPATIBILITY

OrbitXP supports the main Sismo Flight Simulator Plug&Fly modules:

- MIP
- MCP/EFIS
- Pedestal
- FWD Overhead
- AFT Overhead



You do not need to have the full Plug&Fly module in order to use OrbitXP.

It is necessary to follow our wiring schedule with our Baseplate and SimCard. As an example, you could start with just the baseplate with the SimCard Ethernet, and add IDC Modules one by one using flat ribbon cables.

Sismo baseplates include the required wiring schedule for compatibility with OrbitXP and the corresponding IDC modules (DS, EDC, AFDS, NAV, VHF, etc.). This simplifies the connection between each IDC module and the SimCard.

If the customer has a complete Sismo Plug&Fly module, the module is supplied assembled and wired. Connect it to the Ethernet network and to its required power supply.

4.2 SOFTWARE COMPATIBILITY

4.2.1 Operating system

OrbitXP requires a 64-bit Windows system and Microsoft .NET Framework 4.8.1. The OrbitXP setup package checks the required .NET Framework prerequisite. If the framework must be installed manually, use Microsoft's .NET Framework 4.8.1 download page:

<https://dotnet.microsoft.com/download/dotnet-framework/net481>

4.2.2 X-Plane 12 and Zibo 737-800X

Primary simulator platform: X-Plane 12.

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OrbitXP V5.5.0 is compatible with X-Plane 12 and is developed around the X-Plane 12 interface used by the supported Zibo 737-800X aircraft. All examples, paths and connection procedures in this manual use X-Plane 12 as the reference platform.

OrbitXP is intended for X-Plane 12 with the supported Zibo 737-800X aircraft. The Sismo OrbitXP plugin package is installed as "OrbitXP_Plugin". For Windows x64, the plugin binary is "64\win.xpl". Install it in the X-Plane 12 plugins folder as described in section 5.

<https://developer.x-plane.com/article/building-and-installing-plugins/>

Sismo hardware reproduces the functions of the corresponding B737-NG panels. The availability of each function in OrbitXP depends on the datarefs and commands provided by the installed Zibo release.

Because Zibo interfaces can change between releases, this manual does not maintain a fixed list of unsupported controls. Consult the OrbitXP release notes for current limitations and newly supported functions.

5 INSTALLATION

IMPORTANT - X-Plane 12 is the primary simulator platform for OrbitXP V5.5.0. The installation steps in this chapter refer to X-Plane 12.

The latest OrbitXP release is available in the Downloads section of www.sismo-soluciones.com. Use the installer supplied with the release package.



OrbitXP should normally be installed on the same computer as X-Plane 12. In this configuration, the X-Plane server address is 127.0.0.1 and the default X-Plane UDP port is 49000. See section 6 for the corresponding configuration.

If OrbitXP and X-Plane 12 are installed on different computers, configure OrbitXP with the IP address of the X-Plane computer and make sure the required X-Plane network traffic is allowed between both computers. See section 6.

Run the OrbitXP setup package and accept the Windows User Account Control (UAC) prompt. Starting with OrbitXP 5.5.0, the installer automatically creates the Windows Firewall rule required for SimCard Ethernet communication and initializes the writable OrbitXP configuration in C:\ProgramData\Sismo\OrbitXP.

5.1 WINDOWS FIREWALL CONFIGURATION

OrbitXP 5.5.0 automatically creates an inbound Windows Firewall rule named "Sismo OrbitXP SimCards UDP 1151-1155". The rule allows UDP local ports 1151 through 1155 for the installed OrbitXP.exe and limits remote traffic to the local subnet. The rule is removed automatically when OrbitXP is uninstalled.

No manual firewall configuration is normally required. On company-managed computers, Group Policy or security software may prevent local firewall changes. If the rule cannot be created, review the firewall log at C:\ProgramData\Sismo\OrbitXP\OrbitXP-firewall.log or contact the system administrator.

The automatic rule covers the SimCard UDP ports 1151-1155 only. It does not configure a custom SismoFMC TCP port or firewall settings on a separate X-Plane computer.

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OrbitXP program files are installed under Program Files. The active user configuration is stored separately at C:\ProgramData\Sismo\OrbitXP\config.ini, so normal configuration and gauge calibration do not require running OrbitXP as administrator. The factory template installed with the application is config.default.ini.

- Open the folder where OrbitXP is installed, as shown in figure 01.

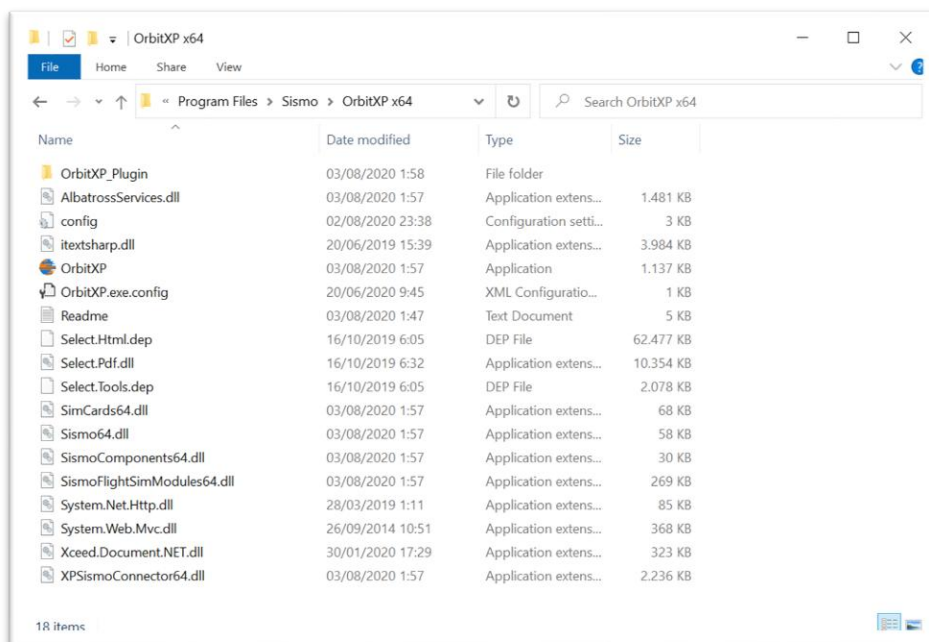


Figure-01

- Read the readme.txt file for release-specific functions, limitations and service information.
- Copy the "OrbitXP_Plugin" folder into the X-Plane 12 folder "...\\Resources\\plugins". For OrbitXP 5.5.0, the final Windows x64 plugin path must be "...\\Resources\\plugins\\OrbitXP_Plugin\\64\\win.xpl". The binary name "win.xpl" must not be renamed. The X-Plane menu name is "Sismo OrbitXP".
- Run X-Plane 12 and load a supported Zibo 737-800X aircraft.
- Open the X-Plane menu "Plugins" > "Sismo OrbitXP" and click "Run & Connect". The menu also shows the connection status and provides "Show OrbitXP" and "Exit". OrbitXP will be displayed so that the connection can be verified, as shown in Figure-02.

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Figure-02

Note: If OrbitXP is started directly from its installation folder while X-Plane is not running, the interface shown in Figure-03 will be displayed.



Figure-03

- You can now minimize OrbitXP. To display it again, use “Show OrbitXP” in the X-Plane plugin menu or the OrbitXP system-tray icon. Figure-04 shows the earlier label “Show”.

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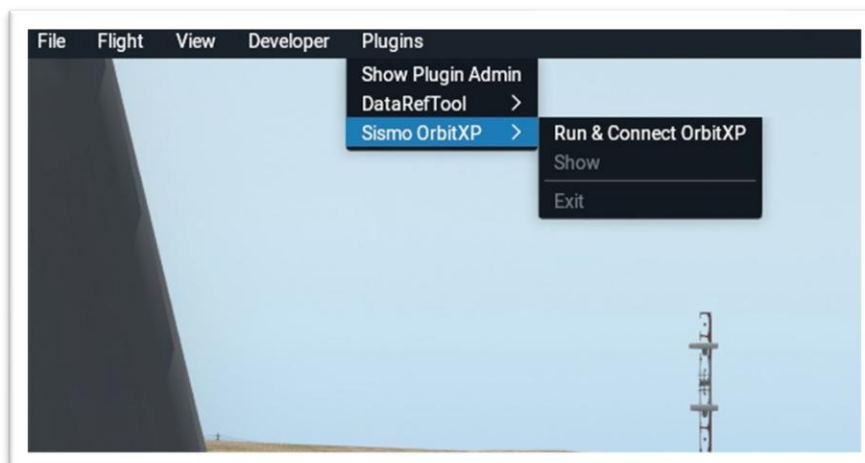


Figure-04

Once the user clicks this menu, the interface will be visible as shown in Figure-05

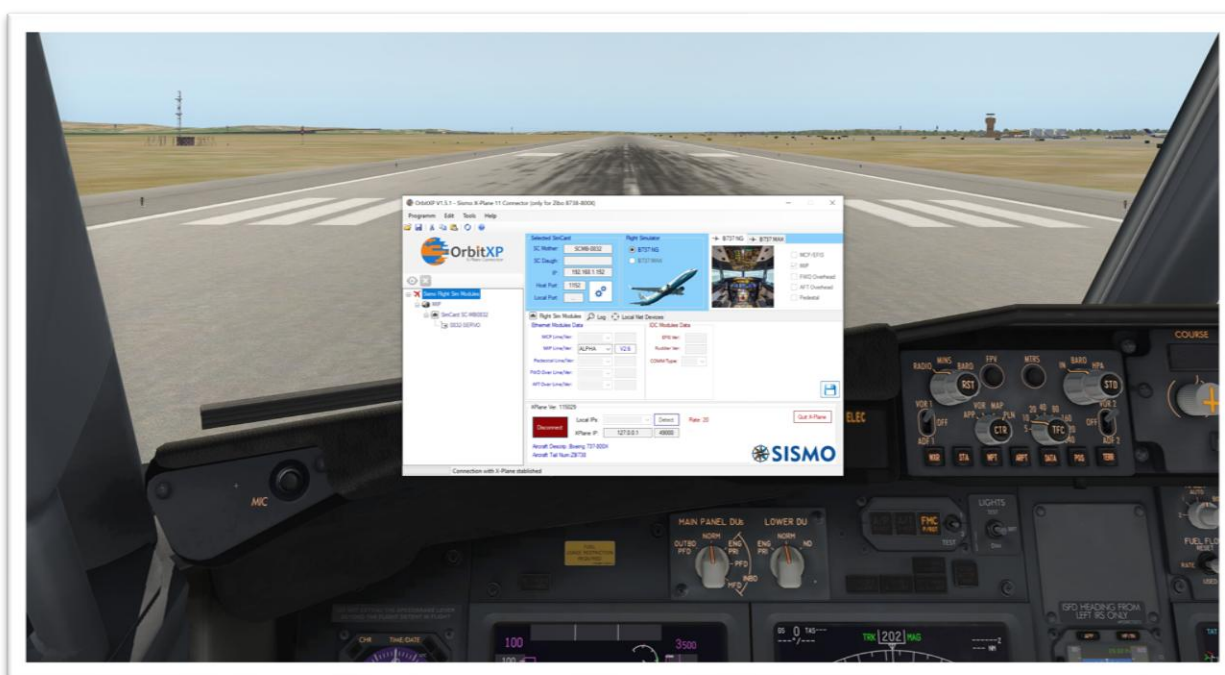


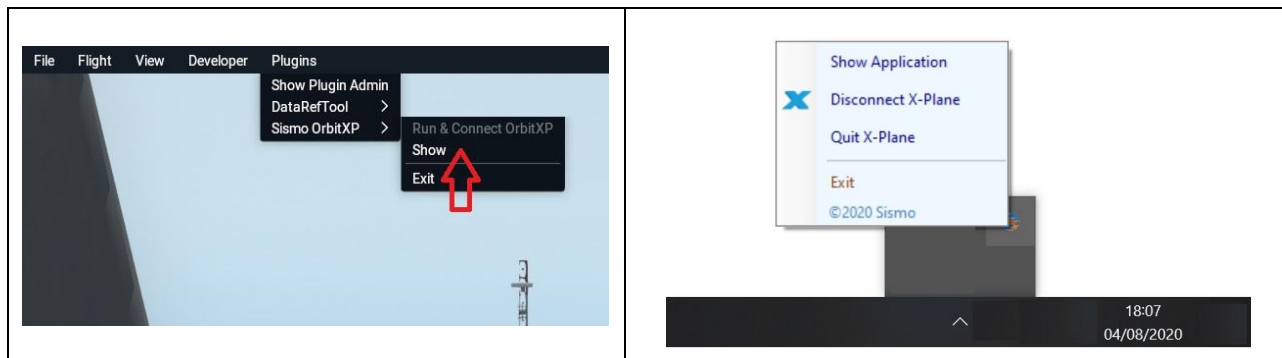
Figure-05

For most users, the default configuration is valid and no changes are required. Hardware-to-simulator mapping is automatic; no manual I/O programming is required.

The OrbitXP interface can be shown again in two ways:

- Select "Show OrbitXP" from the X-Plane Sismo OrbitXP plugin menu. This option is always available and only restores the OrbitXP window to the foreground; it does not change the X-Plane connection status. If the OrbitXP window is already visible, no additional action is required.
- In the Windows system tray, double-click the OrbitXP icon or use the icon menu and select "Show".

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6 SOFTWARE CONFIGURATION

6.1 IP ADDRESSING

The following table shows the default network settings for Sismo Plug&Fly SimCards. If different addresses are used, update both the SimCard configuration and the OrbitXP module configuration accordingly.

	MCP	MIP	Pedestal	FWD Over	AFT Over
IP	192.168.1.151	192.168.1.152	192.168.1.153	192.168.1.154	192.168.1.155
HOST IP	Computer IP	Computer IP	Computer IP	Computer IP	Computer IP
HOST PORT	1151	1152	1153	1154	1155

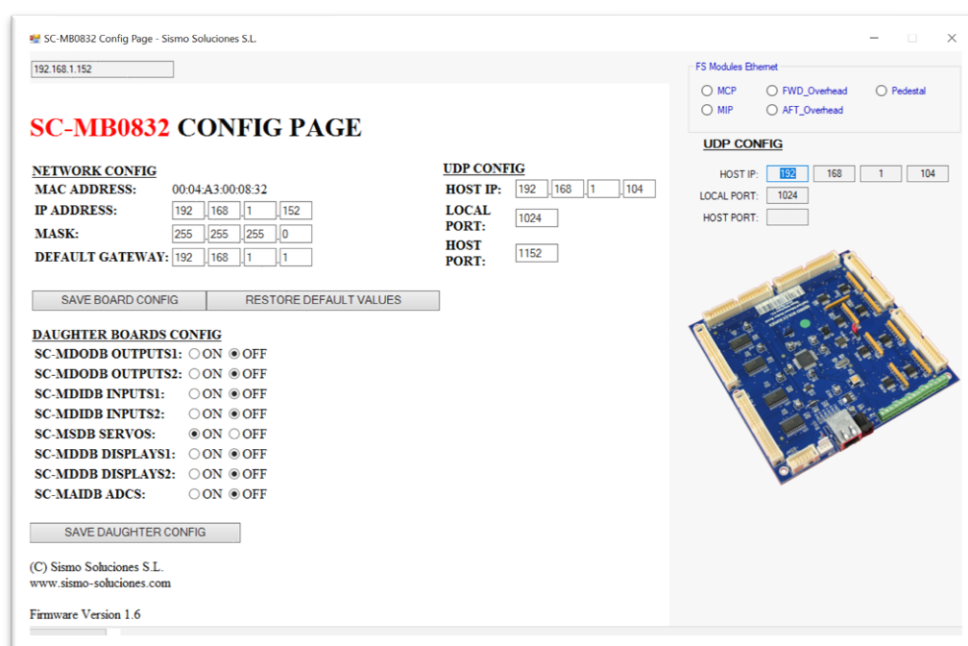
6.2 SIMCARDS CONFIGURATION

The SimCards must be connected to the user's LAN as described in document [R1] or in the videos referenced above. Network parameters can be changed from the SimCard web configuration page or through OrbitXP.



A SimCard supplied with a specific Sismo baseplate (MIP, Pedestal or Overhead) is normally pre-configured. A standalone SimCard uses 192.168.1.150 by default and can be reconfigured as described in the SimCard manual.

We'd like to highlight that OrbitXP has been developed to simplify the work to be done by the user as much as possible.



SC-MB0832 Config Page - Sismo Soluciones S.L.

192.168.1.152

SC-MB0832 CONFIG PAGE

NETWORK CONFIG

MAC ADDRESS: 00:04:A3:00:08:32

IP ADDRESS: 192 168 1 152

MASK: 255 255 255 0

DEFAULT GATEWAY: 192 168 1 1

UDP CONFIG

HOST IP: 192 168 1 104

LOCAL PORT: 1024

HOST PORT: 1152

DAUGHTER BOARDS CONFIG

SC-MDODB OUTPUTS1: ☐ ON ☒ OFF

SC-MDODB OUTPUTS2: ☐ ON ☒ OFF

SC-MDIDB INPUTS1: ☐ ON ☒ OFF

SC-MDIDB INPUTS2: ☐ ON ☒ OFF

SC-MSDB SERVOS: ☒ ON ☐ OFF

SC-MDDB DISPLAYS1: ☐ ON ☒ OFF

SC-MDDB DISPLAYS2: ☐ ON ☒ OFF

SC-MAIDB ADCS: ☐ ON ☒ OFF

SAVE BOARD CONFIG RESTORE DEFAULT VALUES

SAVE DAUGHTER CONFIG

(C) Sismo Soluciones S.L.
www.sismo-soluciones.com

Firmware Version 1.6

FS Modules Ethernet

☐ MCP ☐ FWD_Overhead ☐ Pedestal

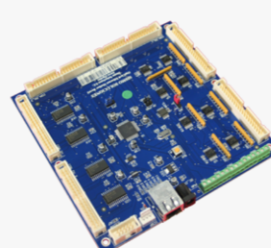
☐ MIP ☐ AFT_Overhead

UDP CONFIG

HOST IP: 192 168 1 104

LOCAL PORT: 1024

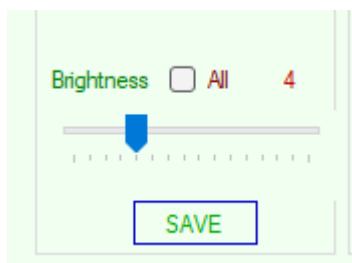
HOST PORT: 1152



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6.3 DISPLAYS BRIGHTNESS

The display brightness of each Plug&Fly module (MCP, Pedestal, AFT Overhead and FWD Overhead) can be adjusted and saved in C:\ProgramData\Sismo\OrbitXP\config.ini.



Open the SimCard Motherboard window as described in “SimCards Testing Service”, select the required brightness with the slider, and click “Save”.

Set and save the brightness separately for each Plug&Fly module.

6.4 EDITING THE CONFIG FILE

Most OrbitXP configuration values are available through the graphical user interface. Advanced users can also edit C:\ProgramData\Sismo\OrbitXP\config.ini directly with a text editor. The file in ProgramData is the active configuration; config.default.ini in the application folder is only the factory template. If you edit the active file manually, keep the exact parameter names, separators and syntax.

For most installations, the default values are sufficient and do not need to be edited manually. When upgrading from an earlier release, the installer preserves an existing ProgramData configuration; if ProgramData has not yet been initialized, a legacy config.ini found beside OrbitXP.exe is migrated before the factory template is used.

One example is an older Sismo FWD or AFT Overhead using a different encoder type. See the FWD_OVER_ENCs and AFT_OVER_ENCs parameters in section 6.4.2.

6.4.1 Typical values

The following extract shows the config-file syntax and the main configuration variables for the network and Plug&Fly modules.

```
//-----
// Flight Sim information
//-----
//
// Select from Boeing 737-NG or Boeing 737 MAX
[SISMO_FS]
SIM_MODEL = "Boeing 737-NG"

//-----
// Network Configuration Data
//-----
// HOST IP: is the IP of the computer where the SC is connected
//
[UDP CONFIG]
SC_SC_SCAN_FIRST_HOSTPORT = 1151
SC_SCAN_LAST_HOSTPORT = 1155
SC_LOCAL_PORT = 1024
SC_HOST_IP = "127.0.0.1"
```

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```
[XPLANE CONFIG]
XP_SERVER_IP = "127.0.0.1"
XP_PORT = 49000
XP_AUTOCONNECT = "YES"

//-----
// SIM Modules for B737-NG & B737 MAX
//-----
//
//##### Flight Simulator Modules Plug&Play (Ethernet) #####
//
// Simulator Type; Module; Line; Release; IP
SIMMOD737_MCP = "NG;MCP;ALPHA;V3;192.168.1.151"
SIMMOD737_MIP = "NG;MIP;ALPHA;V2.6;192.168.1.152"
SIMMOD737_PED = "NG;Pedestal;ALPHA;V2;192.168.1.153"
SIMMOD737_FOH = "NG;FWD_Overhead;ALPHA;V3;192.168.1.154"
SIMMOD737_AOH = "NG;AFT_Overhead;ALPHA;V3;192.168.1.155"
//
//##### IDC Modules #####
//
/// MCP IDC Mod Data
MCP_EFIS = "V3"
//
/// Pedestal IDC Mod Data
// VHF or RT
COMM_TYPE = "VHF"
// V3 or V4
RUDDER_TRIM_VER = "V3"
/// FWD Overhead Mod Data
// Encoders = CTS or ALPS
FWD_OVER_ENCS = "CTS"
// Encoders = CTS or ALPS
AFT_OVER_ENCS = "CTS"
//
//##### Servo Gauges #####
//
//MIP Gauges Positions (between 0 and 255)
// Positions: UP; 1; 2; 5; 10; 15; 25; 30; 40
FLAPS_POSITIONS = 35;61;92;117;143;165;184;202;224
HBP_POSITIONS = 0
//FWD Over Gauges Positions (between 0 and 255)
FUEL_TEMP_POSITIONS = 0
EGT_POSITIONS = 0
CABIN_CLIMB_POSITIONS = 0
DIFF_PRESS_POSITIONS = 0
CABIN_ALT_POSITIONS = 0
DUCT_PRESS_L_POSITIONS = 0
DUCT_PRESS_R_POSITIONS = 0
TEMP_POSITIONS = 0
//AFT Over Gauges Positions (between 0 and 255)
OXY_POSITIONS = 0
```

6.4.2 Data description

The following paragraphs describe the syntax and purpose of each field.

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6.4.2.1 SIMMOD737_XXX

```

SIMMOD737_MCP = "NG;MCP;ALPHA;V3;192.168.1.151"
SIMMOD737_MIP = "NG;MIP;ALPHA;V2.6;192.168.1.152"
SIMMOD737_PED = "NG;Pedestal;ALPHA;V2;192.168.1.153"
SIMMOD737_FOH = "NG;FWD_Overhead;ALPHA;V3;192.168.1.154"
SIMMOD737_AOH = "NG;AFT_Overhead;ALPHA;V3;192.168.1.155"

```

XXX is the Plug&Fly Module. The different values are separated with a semicolon ;

Simulator Type: NG or MAX. Use the value corresponding to the configured simulator model.

Module Plug&Fly: MCP, MIP, PED, FWD_Overhead and AFT_Overhead

Module Line: ALPHA, BRAVO, CHARLIE, DELTA or ECHO. Use the line corresponding to your hardware; ALPHA is the common default.

Module Release: Vx. Select the release corresponding to your hardware. This information is included with the module; if uncertain, keep the supplied/default value and contact Sismo before changing it.

Module IP: the IP address of the SimCard Motherboard that controls the Plug&Fly module. Default addresses are listed in section 6.1.

Keep the quotation marks at the beginning and end of each string value.

6.4.2.2 COMM_TYPE

```
COMM_TYPE = "VHF"
```

This variable selects the Pedestal communication module type (VHF or RT) and can also be configured from the OrbitXP graphical user interface.

6.4.2.3 FWD_OVER_ENCs & AFT_OVER_ENCs

```
FWD_OVER_ENCs = "CTS"
```

Select CTS or ALPS according to the encoder type installed in the module. If an encoder responds incorrectly, verify the hardware type before changing this parameter.

6.4.2.4 Gauge Positions

These parameters store servo-gauge calibration positions. Use the AlbatrossService calibration function where available. Manual values should only be changed when the required servo positions are known.

6.5 SIMCARDS TESTING SERVICE

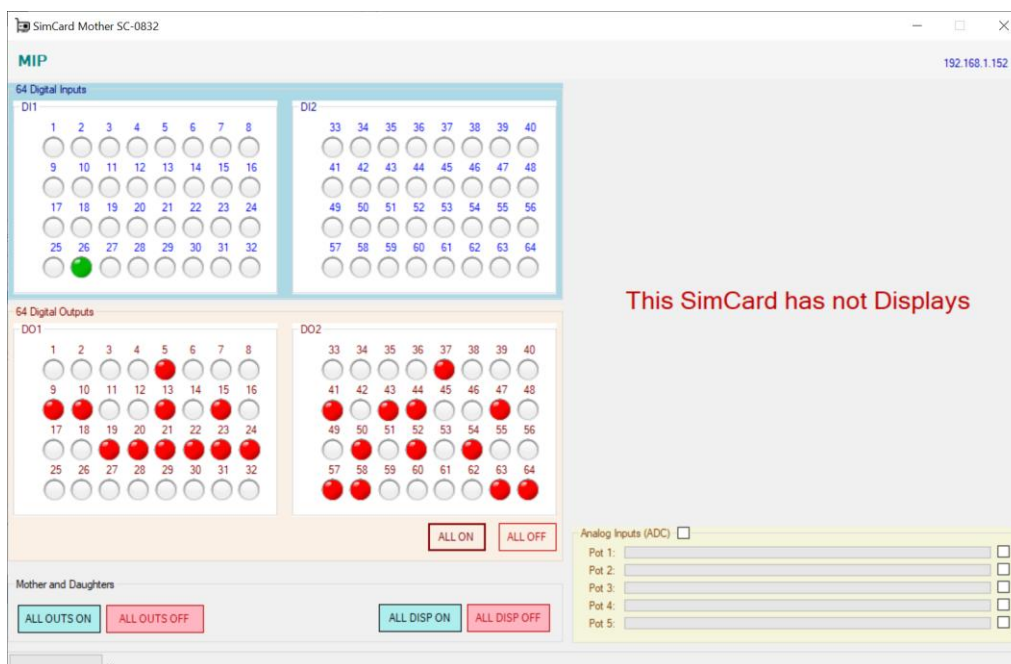


To check whether inputs are being received, select the required SimCard in OrbitXP and open its diagnostic window using the service icon.

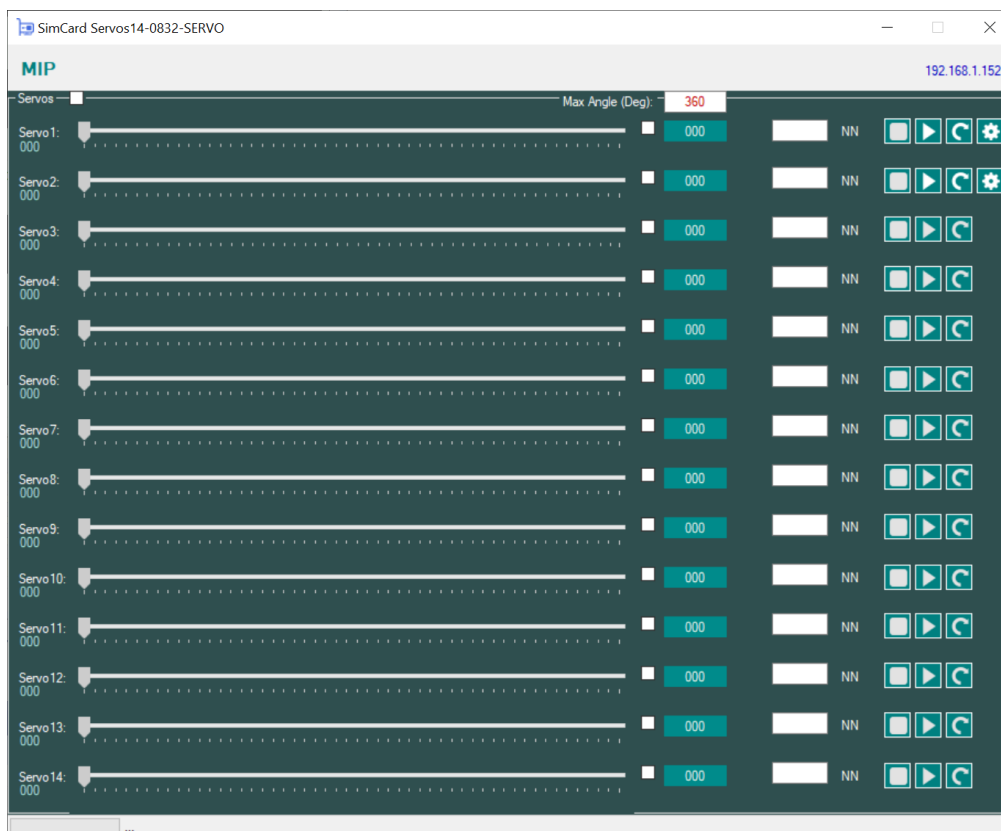
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6.5.1 SimCard Motherboard without Displays (MIP)



6.5.2 SimCard Servos



To calibrate a supported servo gauge, click the gear icon and follow the steps shown by the calibration window.

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7 VIRTUAL SISMOFMC/CDU

OrbitXP includes support for the virtual SismoFMC/CDU service, which communicates with OrbitXP over TCP/IP.

This service is available to Sismo customers using supported Sismo hardware and OrbitXP.

Refer to the current SismoFMC release information for licensing and standalone-use conditions.

This is a beta version with the following features:

- Captain's side only.
- It is black and white; it does not handle colors.
- Requires OrbitXP V5.4 or later; OrbitXP V5.5.0 or later is recommended.



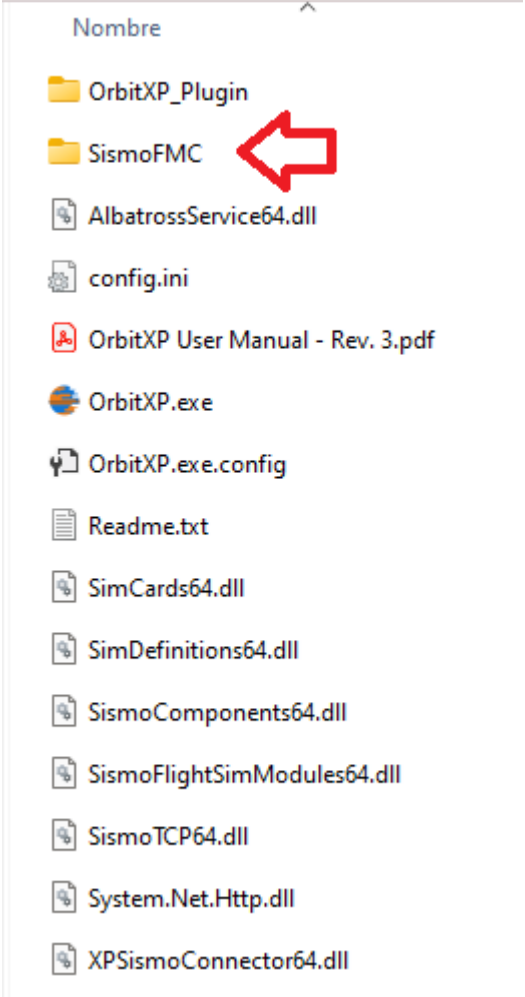
7.1 FUNCTIONS UNDER DEVELOPMENT

Colour support and First Officer side.

7.2 CONFIGURATION

7.2.1 Configuration in SismoFMC

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Nombre

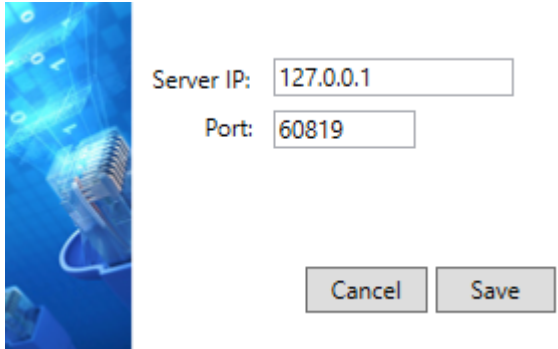
- OrbitXP_Plugin
- SismoFMC
- AlbatrossService64.dll
- config.ini
- OrbitXP User Manual - Rev. 3.pdf
- OrbitXP.exe
- OrbitXP.exe.config
- Readme.txt
- SimCards64.dll
- SimDefinitions64.dll
- SismoComponents64.dll
- SismoFlightSimModules64.dll
- SismoTCP64.dll
- System.Net.Http.dll
- XPSismoConnector64.dll

SismoFMC is installed in its own folder. Run "SismoFMC.exe" to start the application.

To establish the IP, click the following icon:

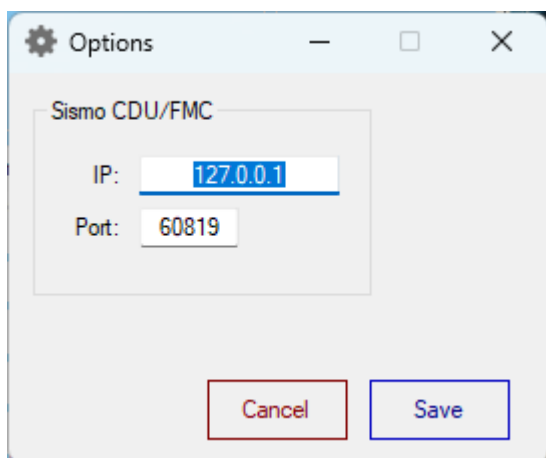


Enter the IP address of the computer running OrbitXP and select the TCP port used by SismoFMC.

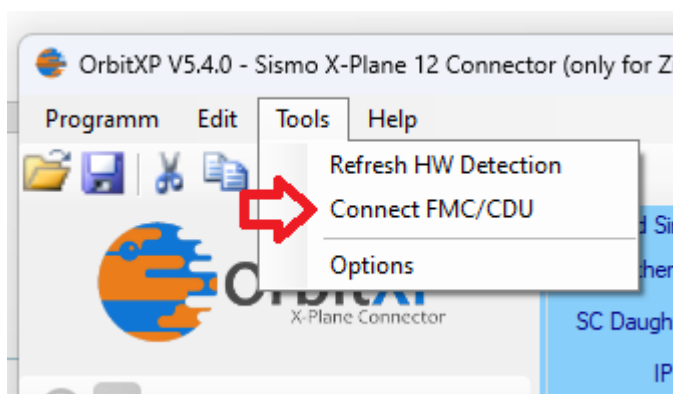


Save the configuration, start OrbitXP, and wait for the FMC connection.

7.2.2 Configuration in OrbitXP



Set the IP and port in the menu Options



Activate the FMC/CDU in menu option

When SismoFMC, OrbitXP, X-Plane 12 and the supported Zibo 737-800X aircraft are running, the FMC connection can be established. Make sure the same TCP port is configured at both ends and that the port is allowed by the Windows Firewall.

Note: the automatic OrbitXP 5.5.0 firewall rule described in section 5.1 covers SimCard UDP ports 1151-1155 only. A custom SismoFMC TCP port must be allowed separately if Windows or the local network blocks it.

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8 QUESTIONS AND ANSWERS

Q1: The OrbitXP_Plugin does not load correctly in X-Plane 12. Error Code = 126: The specified module could not be found.

A1: X-Plane log.txt may report an error similar to:

..\X-Plane 12\Resources\plugins\OrbitXP_Plugin\64\win.xpl : Error Code = 126: The specified module could not be found.

First, make sure that you are using the latest OrbitXP release available on our website.

This usually means that a Windows runtime dependency required by the plugin is missing or damaged. Install the latest supported Microsoft Visual C++ Redistributable from the following Microsoft page:

<https://support.microsoft.com/en-us/help/2977003/the-latest-supported-visual-c-downloads>

Visual Studio 2015, 2017 and 2019

Download the Microsoft Visual C++ Redistributable for Visual Studio 2015, 2017 and 2019. The following updates are the latest supported Visual C++ redistributable packages for Visual Studio 2015, 2017 and 2019. Included is a baseline version of the Universal C Runtime see [MSDN](#) for details.

- x86: vc_redist.x86.exe
- x64: vc_redist.x64.exe 
- ARM64: vc_redist.arm64.exe

Make sure Windows is fully updated and that you are using X-Plane 12 with the current OrbitXP_Plugin files. The supported Windows x64 plugin binary for OrbitXP 5.5.0 is "OrbitXP_Plugin\64\win.xpl". Do not rename "win.xpl". If a different OrbitXP plugin package is already installed, remove the previous OrbitXP_Plugin folder before copying the current one.

Q2: A specific function available in a Sismo module does not do anything in X-Plane

A2: Please read section 4.2.2, "X-Plane 12 and Zibo 737-800X", in this manual.

Q3: I can't save my changes.

A3: OrbitXP 5.5.0 stores its writable configuration in C:\ProgramData\Sismo\OrbitXP\config.ini. Saving module options, display brightness and gauge calibration should not require administrator privileges. If saving still fails, check that this file exists and review C:\ProgramData\Sismo\OrbitXP\OrbitXP-config-install.log.

Q4: Modifying the config file doesn't work as expected.

A4: Review the syntax carefully. A semicolon (;) is not the same as a comma (,).

Parameter values are case- and format-sensitive where indicated. Select the correct hardware/module version and keep the expected syntax.

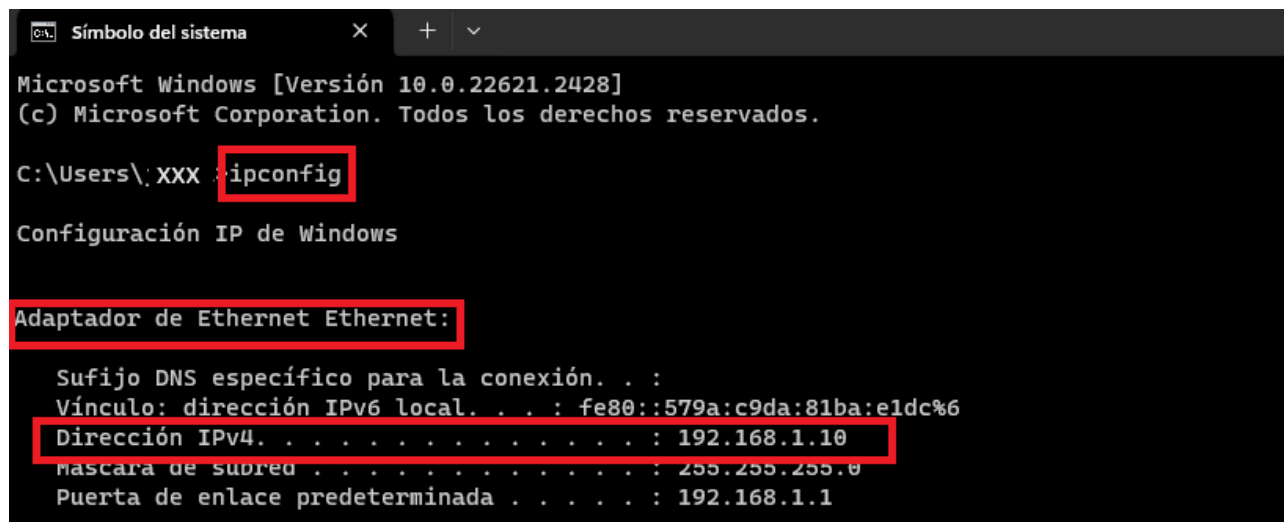
Q5: OrbitXP does not detect any Sismo module.

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A5: Open the SimCard configuration page in a web browser and verify its IP address, HOST IP and HOST PORT. The HOST IP must be the IPv4 address of the computer running OrbitXP, and each Plug&Fly module must use the HOST PORT shown in section 6.1.

See section 6.1, "IP Addressing", for the default values.

To identify the computer's IPv4 address, open Command Prompt and run "ipconfig".



```

C:\Users\XXX>ipconfig

Configuración IP de Windows

Adaptador de Ethernet Ethernet:

    Sufixo DNS específico para la conexión. . . :
    Vínculo: dirección IPv6 local. . . : fe80::579a:c9da:81ba:e1dc%6
    Dirección IPv4. . . . . : 192.168.1.10
    Máscara de subred. . . . . : 255.255.255.0
    Puerta de enlace predeterminada. . . . . : 192.168.1.1
  
```

Example: FWD Overhead connected to a computer using IPv4 address 192.168.1.10.

← → ↻ 🏠 No es seguro | 192.168.1.155

SC-MMB1179 CONFIG PAGE

NETWORK CONFIG

MAC ADDRESS: 00:04:A3:00:11:79
 IP ADDRESS:
 MASK:
 DEFAULT GATEWAY:

UDP CONFIG

HOST IP:
 LOCAL PORT:
 HOST PORT:

DAUGHTER BOARDS CONFIG

SC-MDODB OUTPUTS1: ☒ ON ☐ OFF
 SC-MDODB OUTPUTS2: ☐ ON ☒ OFF
 SC-MDIDB INPUTS1: ☒ ON ☐ OFF
 SC-MDIDB INPUTS2: ☐ ON ☒ OFF
 SC-MSDB SERVOS: ☒ ON ☐ OFF
 SC-MDDB DISPLAYS1: ☐ ON ☒ OFF
 SC-MDDB DISPLAYS2: ☐ ON ☒ OFF
 SC-MAIDB ADCS: ☐ ON ☒ OFF

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Q6: How can I check that the OrbitXP firewall rule was installed correctly?

A6: Open Windows PowerShell as administrator and run the following command:

```
Get-NetFirewallRule -DisplayName "Sismo OrbitXP SimCards UDP 1151-1155"
```

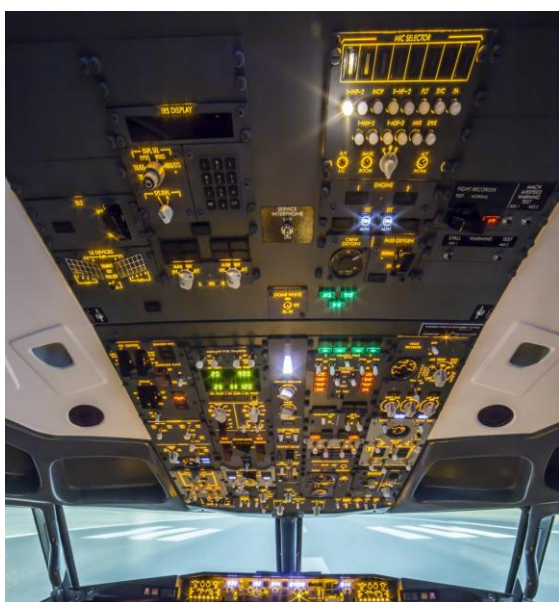
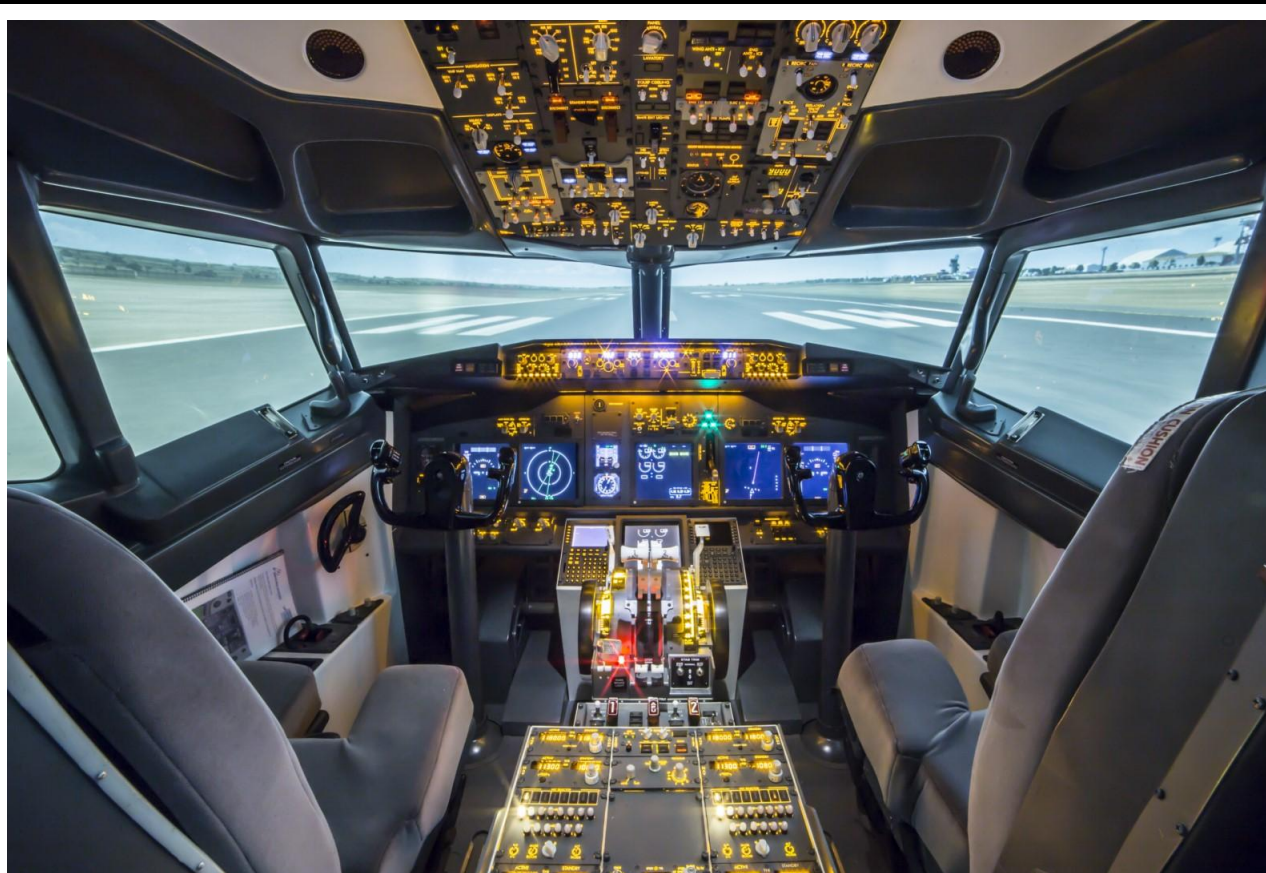
The rule should be enabled, with Direction = Inbound and Action = Allow. To verify the protocol and port range, run:

```
Get-NetFirewallRule -DisplayName "Sismo OrbitXP SimCards UDP 1151-1155" | Get-NetFirewallPortFilter
```

The result should show Protocol = UDP and LocalPort = 1151-1155. If the rule is missing, check C:\ProgramData\Sismo\OrbitXP\OrbitXP-firewall.log and verify that local firewall changes are not blocked by company security policies.

9 PICTURES OF THE SISMO COCKPIT

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