



How to install Python SDK and Read Log

OVERVIEW

Due to the fact that many field projects require variable functions in real practice, SilverNet thus provides API for secondary development in order to meet the various needs. Some python libraries like paho-mqtt, pymodbus, pyserial that require compiler GCC have been integrated. If you need any other python libraries, please contact SilverNet about your application so that we can evaluate and pre-install the libraries such as cryptography for you.

This article describes how to install Python SDK and Python APP and how to view activity log. Take upload Python SDK of iSite Switch and cellularSttusWriteSerial APP as an example.

REQUIREMENTS

mSD card/SSD module

SilverNet Gateway/Router

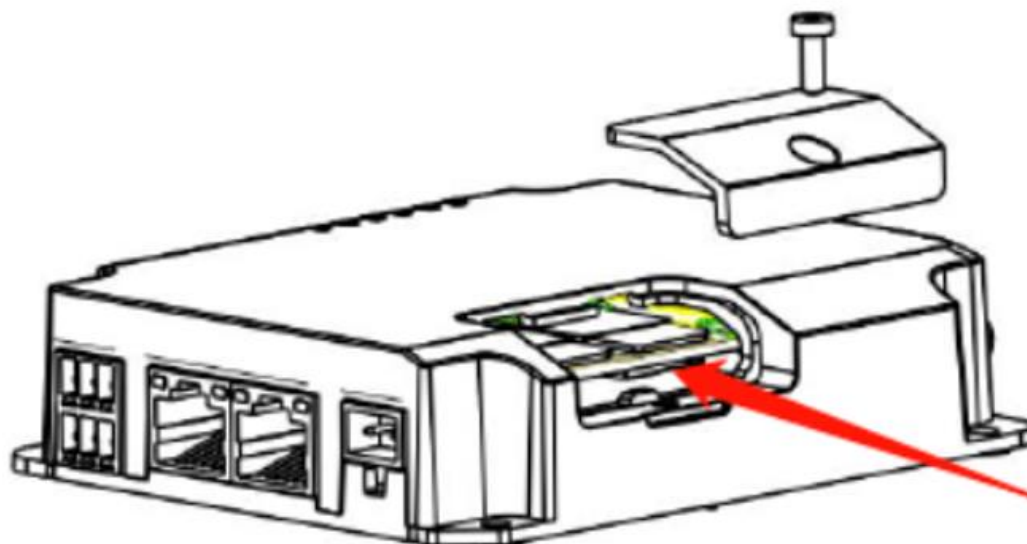
SilverNet Gateway/Router Python SDK

CONFIGURATION

Upload Python SDK

1. Install mSD card or SSD module

iSite Lite:



Install mSD card

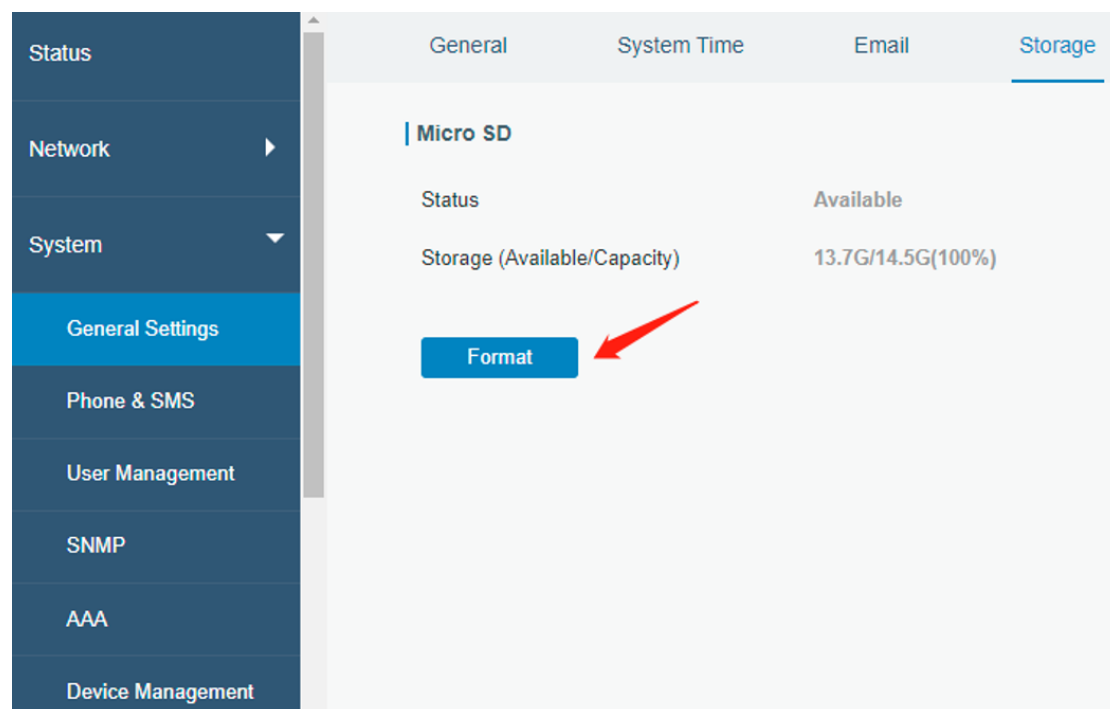
iSite Switch:



Install mSD card

2. Go to System -> General Settings -> Storage, click Format to clean up the files in the disk. Please double check if you want to format mSD or SSD.

Note: Whether to format the mSD card/SSD module should depend on differing situations.





Formatting disk will clean up the files in the disk, do you want to continue?

Format

Cancel

- Go to APP -> Python -> Python -> SDK Upload, click Browse to select Python SDK according to the device model, select an Available Storage, click Browse to import Python SDK from your computer, click Install to upload it.

Status	Python	AppManager Configuration	Python APP
Network	Python		
System	AppManager Status: Stopped		
Industrial	SDK Version: 4.0.1 Uninstall		
Maintenance	SDK Path: Micro SD		
APP	Available Storage: Micro SD		
Python	SDK Upload: Browse Install		

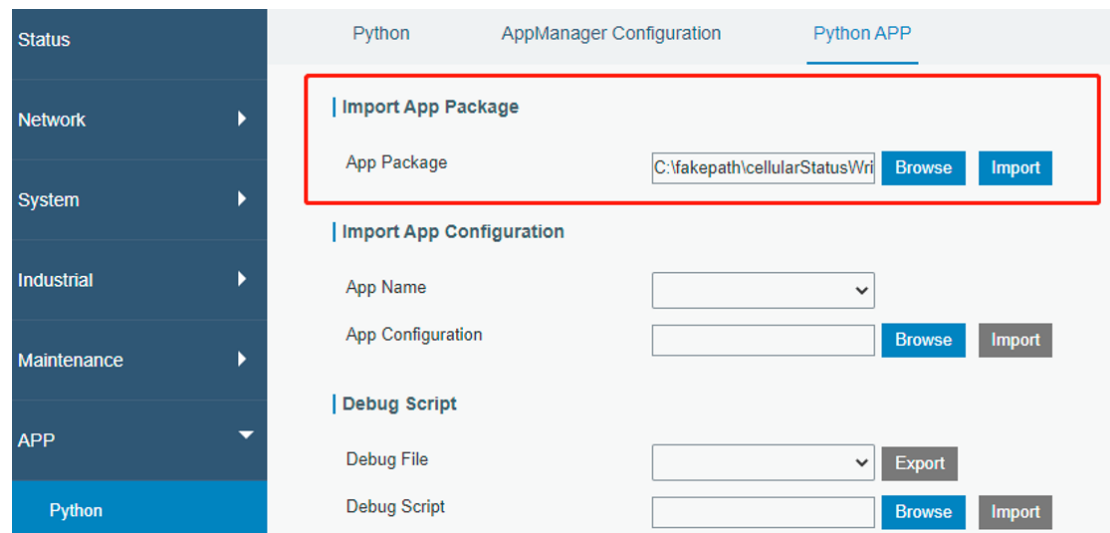
If SDK for another models is uploaded, a warning note will indicate.

Status	Python	AppManager Configuration	Python APP
Network	Python		
System	AppManager Status: Uninstalled		
Industrial	SDK Version:		
Maintenance	SDK Path:		
APP	Available Storage: Micro SD		
Python	SDK Upload: C:\fakepath\pysdk-ur76-2.1.6 Browse Install The SDK version and firmware version do not match		

IMPORT PYTHON APP PACKAGE

1. Go to APP -> Python -> Python APP -> Import APP Package, click Browse to select your Python APP package, and then click Import to upload it in .zip format. Take import cellularStatusWriteSerial APP package as an example:

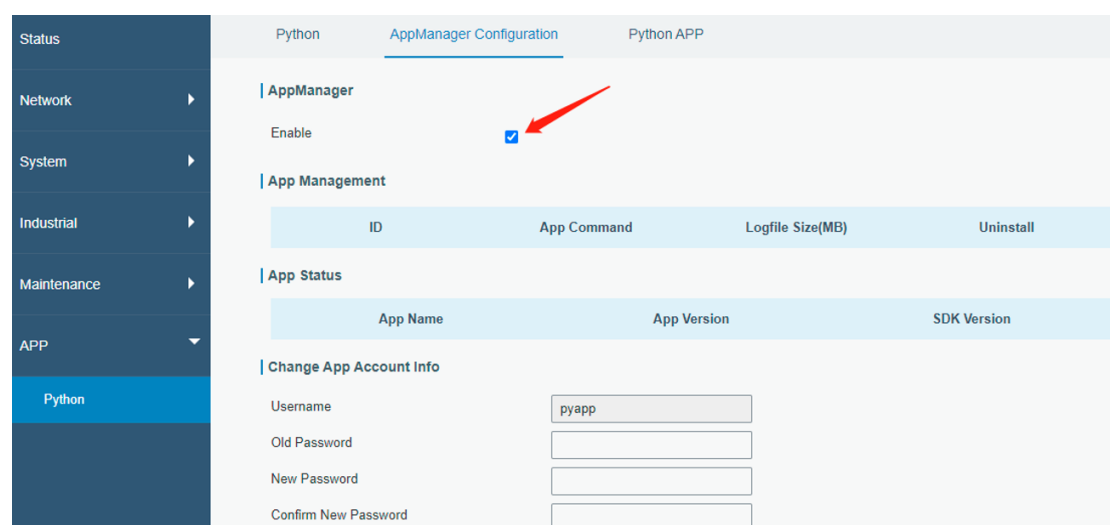
Note: if the App was not packaged as the sample code, as placed within an extra folder, a warning note will indicate "I/O error".



The screenshot shows the SilverNet web interface with the 'Python APP' tab selected. The 'Import App Package' section is highlighted with a red box. It contains an 'App Package' input field with the text 'C:\fakepath\cellularStatusWri', a 'Browse' button, and an 'Import' button. Below this, the 'Import App Configuration' section has 'App Name' and 'App Configuration' input fields, with 'Browse' and 'Import' buttons. The 'Debug Script' section has 'Debug File' and 'Debug Script' input fields, with 'Export', 'Browse', and 'Import' buttons.

Please check the example App at the end of the article and note that do not compress more than once when packing your App program.

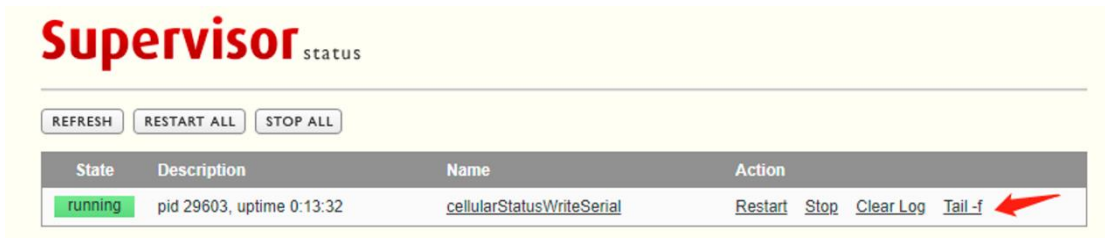
2. Go to APP -> Python -> AppManager Configuration -> AppManager, enable AppManager.



The screenshot shows the SilverNet web interface with the 'AppManager Configuration' tab selected. The 'AppManager' section has an 'Enable' checkbox checked, indicated by a red arrow. Below it are sections for 'App Management' (a table with columns ID, App Command, Logfile Size(MB), and Uninstall), 'App Status' (a table with columns App Name, App Version, and SDK Version), and 'Change App Account Info' (input fields for Username, Old Password, New Password, and Confirm New Password).

3. Go to APP -> Python -> Python, click View and enter Supervisor page, the default username and password is: pyapp/ py123456app

- Click Tail-f, check the Python Log. Log is available only with AppManager enabled.



Supervisor status

REFRESH RESTART ALL STOP ALL

State	Description	Name	Action
running	pid 29603, uptime 0:13:32	cellularStatusWriteSerial	Restart Stop Clear Log Tail-f

Note: Python App and data cache are all saved in mSD/SSD/eMMC. It is advised to take memory space into consideration when developing Python SDK.