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Evolis SDK

Frequently Asked Questions

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API MODE : EVOLIS SERVICES PROVIDER

What is the API Mode?

The Evolis API MODE leverages a client/server architecture where the server, part of the Evolis Premium Suite (or Edikio Printer Suite, Badgy Premium Suite, or Evolis Premium Suite 2) , interprets requests and distributes them to interconnected services (IPC) provisioned by the Evolis Suite. Users of the API mode must deploy:

- A client agent (see [here](#) for documentation, samples, and available source code)
- A flow of requests, according to their needs (see [here](#))

What is the Evolis Services Provider Framework (ESPF)?

The ESPF is the server-side part offered by the Evolis Premium Suite (or the Edikio Printer Suite, Badgy Premium Suite) which handles communications based on textual JSON requests. This server is enabled using the **Evolis Services Provider** service.

Evolis Avansia Printer Manager		Running	Automatic	Local System
Evolis Print Center Service	Evolis Print Center Service	Running	Automatic	Local System
Evolis Services Provider	Evolis Services Provider	Running	Automatic	Local System
Evolis Services Provider 2	Evolis Services Provider 2	Running	Automatic	Local System
Extensible Authentication Protocol	The Extensible Authentication Protocol (EAP) service provides network authentication in such scenarios as 802.1x wired an...	Running	Manual	Local System

Note : for Evolis Primacy 2, Evolis Services Provider 2 must be used instead.

How to relaunch the ESPF Server?

Simply by relaunching the related service (requires an administrator's account).Or copy/paste the following command lines (Windows-R, cmd.exe):

```
net stop "Evolis Services Provider"
net start "Evolis Services Provider"
```

```
Administrator: Command Prompt

C:\WINDOWS\system32>net stop "Evolis Services Provider"
The Evolis Services Provider service is stopping...
The Evolis Services Provider service was stopped successfully.

C:\WINDOWS\system32>net start "Evolis Services Provider"
The Evolis Services Provider service is starting.
The Evolis Services Provider service was started successfully.

C:\WINDOWS\system32>
```

Use "Evolis Services Provider 2" for Evolis Premium Suite 2 instead of "Evolis Services Provider"

API MODE Prerequisites



Evolis Suite = Evolis Premium Suite, Evolis Premium Suite **2**, Badgy Premium Suite, Edikio Printer Suite.

What are the system requirements for using the API MODE : Evolis Services Provider?

The target printer must be supported by the Evolis Premium Suite, the Edikio Printer Suite, or Badgy Premium Suite in Supervision and Standard.

Can the Evolis legacy printers benefit from the API MODE : Evolis Services Provider (Quantum2, Tattoo RW2)?

No, Evolis legacy printers are not supported by any Evolis Suite, only direct communication mode development methods are available (e.g., iomem.dll, spooler, ...).

Can I design an application for Mac OS, Linux, Android, or iOS using the API MODE : Evolis Services Provider ?

Client-level software can be designed for any operating system, provided:
The Evolis Suite supports the printer used with the scope of the development project (Acting as a server).
both the client and the platform hosting the Evolis Suite are networked

As of today, the Evolis Suites only supports Windows-based platforms.

DIRECT COMMUNICATION MODE

Is Zenius, Primacy, Elypso compliant with direct communication mode development method?

Yes, but it requires to follow below guideline.

Requirements

- Evolis Premium Suite: setup version 6.1.15.546 or higher (published August 2014).
- IOMEM.DLL version 5.12.19.57 or higher
- Printer firmware version : 1413 or higher
- Windows 7 SP1, or above (32 or 64-bits version)

Scope

This section states the mandatory prerequisites to develop application software using direct communication method instead of API MODE.

- Related Evolis printers : Zenius, Primacy, Elypso, KC200, KC200/B, KM500/B, KM2000B, Edikio Flex, Edikio Duplex, Edikio Access, Badgy 100, Badgy 200, Apteo.
- Related driver : Evolis Premium Suite, Edikio Printer Suite, Badgy Premium Suite

Disable printer's supervision

Evolis "Suites" relies on Printer's supervision feature (allowing to have a "real time" and "beforeprinting" status of Evolis printers). It is a regular exchange of information between the printer and the computer and can be exclusive for some events (ribbon end, cover open...).

Disabling the printer's supervision is required in order to use direct communication features (i.e. : run SDK examples, send commands, ...)

In other words, to avoid any communication conflict that could lead to an issue between application software and Evolis printer, it is mandatory to disable the printer supervision.

Most current use-cases developing in direct communication mode with Iomem.dll library

Developing for a printer that has an Evolis Suite driver (e.g., Evolis Premium Suite, Edikio PrinterSuite, Badgy Premium Suite) :

- Install Evolis Suite in minimal mode
- Use latest IOMEM.DLL (could be found in the Evolis suite installation folder, then "redist", e.g. "c:\program files\Evolis Card Printer\Evolis Premium Suite\Redist")
- Migration from Dualys 3, Pebble 4 to Evolis Primacy (Old driver architecture to Evolis Suite)
- Already developed application software for Evolis previous printer range (Pebble, Dualys...) and require replacement printer by a newer range.
- Delete all older versions of IOMEM.DLL (i.e. c:\windows\system32\IOMEM.DLL) and install Evolis Premium Suite in Minimal mode.
- Use latest IOMEM.DLL and ensure that your application software is set to the correct version of IOMEM.DLL.

Mixing Evolis previous range (Dualys 3, Pebble 4, ...) and newer range (Evolis Primacy, Zenius, ...):

- Delete all previous versions of IOMEM.DLL (i.e. c:\windows\system32\IOMEM.DLL) and install Evolis Premium Suite in minimal mode.
- Use latest IOMEM.DLL that supports full backward compatibility with our previous range and send a Pps;0 command to the Zenius, Primacy, Elypso printer...
- Ensure that your application software is set to the correct version of IOMEM.DLL.

Matrix differences for Evolis Premium Suite release inferior to 7 versus above 7 (Primacy2)

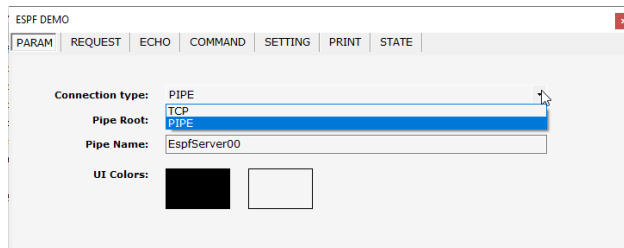
Item	Espf with Setup inferior to 7 Additional information	Espf with setup superior to 7 Additional information
Compliance	Zenius, Primacy 1, Elypso, Badgy 100, Badgy 200, Apteo, Edikio Access, Edikio Flex, Edikio Duplex.	Primacy 2
Configuration file	espfsvc.properties path : C:\Program Files\Evolis Card Printer\Evolis Premium Suite	evoservice.properties path : C:\Program Files\Evolis Card Printer 2\Evolis Premium Suite 2\bin
File content modification	ESPFService.logrequest ESPFServerManager.port ESPFServerManager.serveraddress ESPFServerManager.disablepipeserver ESPFServerManager.enabletcpstart ServiceAddOnManager.addondir (default absolute path only) ServiceAddOnManager.isrelativeaddondir (relative path activation)	RequestServer.logrequest RequestServer.tcpport RequestServer.pipeaddr RequestServer.disablepipeserver RequestServer.tcpenabled ServiceAddOnManager.addondir (absolute or relative path)

Pipe configuration	Default Pipe Server name : EspfServer00 (configurable setting)	Default Pipe Server name : Espf2Server00 (Configurable setting)
	Default TCP port : 18000 (configurable)	Default TCP port : 18 2 00
Installation folder	<p>"Model" folder removed : settings available through command line (see evosettings utility)</p> <p>New "bin" folder :</p> <ul style="list-style-type: none"> - contains Evoservice (Evolis Services Provider 2 service) - contains Evomanager (Evolis Printer Manager) <p>New "tools" folder :</p> <ul style="list-style-type: none"> - evoprn (driver simulator), replace evoprntool - evocom (low level communication command line utility) - evosettings (printer's configuration command line utility) 	
	evosetting EvoPrnTool	becomes evosettings becomes evoprn
New abstraction layer		DRV, DRVP, REG, REG2, DEV are directly addressable via DRIVER CONNECTOR
		PRN is now addressable via PRINTER connector

API MODE (Evolis Services Provider) demo tool :

To test the requests set, possibly use the demo tool select your communication mode in the first section / tab, then copy/paste requests one by one sequentially (the expected results (Answer) shows up in the lower pane of the demo application).

Example screenshots:



Select in the param section PIPE or TCP connection. Type in correct IP address in case of TCP connection.

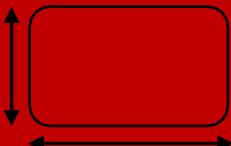


Test communication first (onetime is enough) thanks to the Echo section.



Copy/paste requests and send them sequentially (request 1, 2,3...). Pay attention than proper base64 data must be added for the graphics (see [here](#)).

Recommended resolutions for optimal designs

RESOLUTION IN DPI 	LENGTH IN PIXELS	WIDTH IN PIXELS
CR80 – 300x300	1016	648
CR80 – 600x300	2032	1296
CR80 – 1200x300 (monochrome only)	4064	2592
CR80 (S1)- 300x260 DPI Badgy (100&200)	1016	562
Long card 120 x 50 mm (Edikio Flex)	1424	600
Long card 150 x 50 mm (Edikio Flex)	1784	600

Disclaimer

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