



# EVOLIS SDK

Evolis Services provider API  
How-to print monochrome

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## Abstract

This documentation demonstrates how-to print a one side monochrome design thanks to Evolis Services Provider API.

## Prerequisite

One computer with an Evolis driver suite installed in standard or supervision mode (Evolis Premium Suite, Evolis premium suite 2, Edikio Printer Suite, Badgy Premium Suite).

Pay attention to name your printer (designed as "Device" in the request) as it is instantiated on the server ( Ex : Evolis Zenius ( Copy 1 ) ).

This use case requires a genuine Evolis K ribbon and a simplex printer.

## Technical limitations

Evolis Services Provider API is only available on Windows operating System for the server side.

Client must be compatible with JSON RPC V2.00 specifications.

## Testing thanks to the demo tool

To test the requests set, possibly use the demo tool [here](#) (click on l.demo.exe)

select your communication mode in the first section. Copy / paste requests one by one sequentially (the expected results/answer shows up in the lower pane of the demo application).

## Set of requests to print a single sided monochrome design

A print job requires one printing session. One session only is used per printing job, this to avoid jobs. A session must be opened then closed. A session has an automatic unique ID (here JOB00001) provided by the Evolis Services Provider or managed by the client application software.

### Request 1: Start the sequence

```
{
  "jsonrpc": "2.0",
  "id": "1",
  "method": "CMD.SendCommand",
  "params": {
    "command": "Ss",
    "device": "Evolis Primacy",
    "timeout": "5000"
  }
}
```

Expected result :

```
{
  "jsonrpc": "2.0",
  "result": "OK",
  "id": "1"
}
```

### Request 2: Begin print session

```
{
  "jsonrpc": "2.0",
  "id": "1",
  "method": "PRINT.Begin",
  "params": {
    "device": "Evolis Primacy",
    "session": "MYTESTJOB"
  }
}
```

Expected result :

```
{
  "jsonrpc": "2.0",
  "result": "MYTESTJOB",
  "id": "1"
}
```



MYTESTJOB is the print session ID, it can be generated automatically by the Evolis Services Provider. It remains possible to set your own JOB ID.

### Request 3: Set printing parameters

```
{
  "jsonrpc": "2.0",
  "id": "1",
  "method": "PRINT.Set",
  "params": {
    "data": "GRibbonType=RM_KBLACK;Duplex=NONE;IGSendSpoolerSession=OFF",
    "session": "MYTESTJOB"
  }
}
```

Expected result:

```
{
  "id": "1",
  "jsonrpc": "2.0",
  "result": "OK"
}
```

### Request 4: Send monochrome bitmap

```
{
  "jsonrpc": "2.0",
  "id": "1",
  "method": "PRINT.SetBitmap",
  "params": {
    "face": "front",
    "panel": "resin",
    "data": "base64:BlackBitmapEncodededInBase64 ..."
  }
}
```

Expected result:

```
{
  "id": "1",
  "jsonrpc": "2.0",
  "result": "OK"
}
```

### Request 5 : Run the print job (that has been buffered)

```
{
  "jsonrpc": "2.0",
  "id": "1",
  "method": "PRINT.Print",
  "params": {
    "session": "MYTESTJOB"
  }
}
```

Expected result:

```
{
  "id": "1",
  "jsonrpc": "2.0",
  "result": "OK"
}
```

### Request 6: End the printing session

```
{
  "jsonrpc": "2.0",
  "id": "1",
  "method": "PRINT.End",
  "params": {
    "session": "MYTESTJOB"
  }
}
```

Expected result

```
{
  "id": "1",
  "jsonrpc": "2.0",
  "result": "OK"
}
```

# Disclaimer

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