

Data Flow control for Print jobs

1 General

In order to achieve close monitoring of the printer you need to check for printer status around print jobs and during idle time. For this reason a communication path is implemented into the Windows driver chain. This bi-directional communication path is the Language Monitor provided by Swecoin.

2 Software Interface

For a more detailed description of the software interface of the Language Monitor consult the document TTP Language Monitor Implementation.

3 Data Flow

The data flow is an important factor in monitoring the printer's status. The Language Monitor is synchronizing print data with LmPrinterIoControl() calls.

If the Language Monitor is handling a print job no status requests will be handled!

The status request will be processed while the Language Monitor is idle (not printing) and will be executed like a print job (internally).

An application should follow the below sample data flow structure.

Check status

If status ok

 Print document'

Else

 Handle Error

WaitForDocFinish:

If document printed

 Check status

Else

 Goto WaitForDocFinish

If NOT status ok

 Handle Error

In order to know when the document is printed you can either enumerate the Job info of the spooler or call the LmPrinterIoControl() with TTPKEY_LANGUAGE_MONITOR = 0,0,0 and the Language Monitor will return the current printing state. Once the state is Stop Printing or Not Printing you can send a status request.

If you have to abort a print document you have to do this with the SetJob API and in addition send 216 NULL's to flush the printers parser.

To assure document integrity you should also send the following sequence with the ESC API to the printer:

NAM: ESC J 1 ESC RS EM ASCII(100).

HEX: 0x1B 0x4A 0x01 0x1B 0x1E 0x19 0x64

The sequence will send 1 line advance and a cut and retract the page into the waste bin. This assures that any already printed page will be retained in the Kiosk.