Printer Registry Settings

1. Introduction

This document describes the various Global registry settings under the following registry key:

HKEY_LOCAL_MACHINE\Software\Global\Client\Printers\

Although some of these settings are documented elsewhere in the Global Operating Manual (Windows) V8.1 Manual, various global*nn*.doc Release Notes and IN*nnn*.doc Technical Notes, this note only refers to 3 other documents:

GOMW81   Global Operating Manual (Windows) V8.1 (man81gsmwindows.doc)
IN181   Removing Config. File Technical Note (in181-removingconfigfile.doc)
CFM81   Global Configurator Manual V8.1 (man81configurator.doc)

Unless otherwise stated, a change to a registry setting only becomes effective when the Global Client (GLOBAL.EXE) is reloaded.

1.1 Registry Hierarchy

Some of the settings described in this document appear under several keys in the Global section of the registry. For example:

HKEY_LOCAL_MACHINE\Software\Global\Client\Printers\+PageDepth
HKEY_LOCAL_MACHINE\Software\Global\Client\Printers\DOSPrint\+PageDepth
HKEY_LOCAL_MACHINE\Software\Global\Client\Printers\DOSPrint\500\+PageDepth

The **printer-number** specific setting immediately under the "Printers\DOSPrint\5*nn*" key (where 5*nn* = 500 to 599) overrides the **printer-class** specific setting immediately under the "Printers\DOSPrint" key, which in turn, overrides the **generic-printer** setting under the "Printers" key. For example, if:

..\Software\Global\Client\Printers\+PageDepth=60
..\Software\Global\Client\Printers\DOSPrint\+PageDepth=66
..\Software\Global\Client\Printers\DOSPrint\500\+PageDepth=70

a value of 70 will be used for printer unit 500; a value of 66 will be used for all DOSPrint printers that do not have an equivalent "Printers\DOSPrint\5*nn*" registry setting (a value of 60 will be used for all other classes of printers (e.g. WinPrint) that do not have "Printers*xxxxxxxx*\+PageDepth" or "Printers*xxxxxxxx*\5*nn*\+PageDepth" setting).

1.2 Table of Contents

The following registry settings are described in this document:

2. Registry Settings under Printers

The "Printers" registry key contains all the generic-printer settings for all classes of Global printers. Other documents describe the various printer-number specific and printer-class specific settings.

2.1 +DeviceCharacteristics

This value setting is fully described in IN181. When the option to replace the Global Configuration File by registry settings is enabled (UseConfigurationFile=Off) this value is equivalent to the DEVICE CHARACTERISTICS option in the configuration file as documented in CFM81.

The generic-printer +DeviceCharacteristics setting immediately under the "Printers" key may be overridden by the printer-class specific +DeviceCharacteristics setting (if present) immediately under the "Printers\DOSPrint" key which itself may be overridden by the printer-number specific +DeviceCharacteristics setting (if present) under the relevant "Printers\DOSPrint\5nn" key (where 5nn = 500 to 599).

The default value is 0.

2.2 +HardwareFormFeed

This string setting is fully described in IN181. When the option to replace the Global Configuration File by registry settings is enabled (UseConfigurationFile=Off) this value is equivalent to the HARDWARE FORMFEED option in the configuration file as documented in CFM81.

The +PageDepth option (see section 2.4) is only recognised if the +HardwareFormFeed option is disabled. If the +HardwareFormFeed option is enabled the +PageDepth setting is ignored.

The generic-printer +HardwareFormFeed setting immediately under the "Printers" key may be overridden by the printer-class specific +HardwareFormFeed setting (if present) immediately under the "Printers\DOSPrint" key which itself may be overridden by the

printer-number specific +HardwareFormFeed setting (if present) under the relevant "Printers\DOSPrint\5*nn*" key (where 5*nn* = 500 to 599).

The default setting is "On". Valid strings that enable the option are "On", "True", "Yes" and "1". Valid strings that disable the option are "Off", "False", "No" and "0". All invalid strings default to "On".

2.3   +MaximumPageWidth
This value setting is fully described in IN181. When the option to replace the Global Configuration File by registry settings is enabled (UseConfigurationFile=Off) this value is equivalent to the MAXIMUM PAGE WIDTH option in the configuration file as documented in CFM81.

The generic-printer +MaximumPageWidth setting immediately under the "Printers" key may be overridden by the printer-class specific +MaximumPageWidth setting (if present) immediately under the "Printers\DOSPrint" key which itself may be overridden by the printer-number specific +MaximumPageWidth setting (if present) under the relevant "Printers\DOSPrint\5*nn*" key (where 5*nn* = 500 to 599).

The default value is 250 (note that the default value for the MAXIMUM PAGE WIDTH configuration file option is 132).

2.4   +PageDepth
This value setting is fully described in IN181. When the option to replace the Global Configuration File by registry settings is enabled (UseConfigurationFile=Off) this value is equivalent to the PAGE DEPTH option in the configuration file as documented in CFM81.

The +PageDepth option is only recognised if the +HardwareFormFeed option (see section 2.2) is disabled. If the +HardwareFormFeed option is enabled the +PageDepth setting is ignored.

The generic-printer +PageDepth setting immediately under the "Printers" key may be overridden by the printer-class specific +PageDepth setting (if present) immediately under the "Printers\DOSPrint" key which itself may be overridden by the printer-number specific +PageDepth setting (if present) under the relevant "Printers\DOSPrint\5*nn*" key (where 5*nn* = 500 to 599).

The default value is 0.

2.5   +PrinterExecFlagByte
This value setting is fully described in IN181. When the option to replace the Global Configuration File by registry settings is enabled (UseConfigurationFile=Off) this value is equivalent to the PRINTER EXECUTIVE FLAG BYTE option in the configuration file as documented in CFM81.

The generic-printer +PrinterExecFlagByte setting immediately under the "Printers" key may be overridden by the printer-class specific +PrinterExecFlagByte setting (if present) immediately under the "Printers\DOSPrint" key which itself may be overridden by the printer-number specific +PrinterExecFlagByte setting (if present) under the relevant "Printers\DOSPrint\5nn" key (where 5nn = 500 to 599).

The default value is 0xff (255).

2.6   +PrinterExecTimeout

This value setting is fully described in IN181. When the option to replace the Global Configuration File by registry settings is enabled (UseConfigurationFile=Off) this value is equivalent to the TIME-OUT IN TENS OF SECONDS option in the configuration file as documented in CFM81.

The generic-printer +PrinterExecTimeout setting immediately under the "Printers" key may be overridden by the printer-class specific +PrinterExecTimeout setting (if present) immediately under the "Printers\DOSPrint" key which itself may be overridden by the printer-number specific +PrinterExecTimeout setting (if present) under the relevant "Printers\DOSPrint\5nn" key (where 5nn = 500 to 599).

The default value is 2. The value must be between 0 and 63, inclusive.

2.7   +PrinterPool

This value setting is fully described in IN181. When the option to replace the Global Configuration File by registry settings is enabled (UseConfigurationFile=Off) this value is equivalent to the bottom 4-bits of the DEVICE CHARACTERISTICS option in the configuration file as documented in CFM81.

The generic-printer +PrinterPool setting immediately under the "Printers" key may be overridden by the printer-class specific +PrinterPool setting (if present) immediately under the "Printers\DOSPrint" key which itself may be overridden by the printer-number specific +PrinterPool setting (if present) under the relevant "Printers\DOSPrint\5nn" key (where 5nn = 500 to 599).

The default value is 0. The value must be between 0 and 7, inclusive.

2.8   +SpoolerControlBits

This value setting is fully described in IN181. When the option to replace the Global Configuration File by registry settings is enabled (UseConfigurationFile=Off) this value is equivalent to the SPOOLER CONTROL BITS option in the configuration file as documented in CFM81. Note that the value of the +SpoolerControlBits setting (i.e. 0, 1, 2 or 3) is shifted left by 6 bits (i.e. multiplied by 64) to form the equivalent SPOOLER CONTROL BITS value (i.e. #00, #40, #80 or #C0). This value is then combined (by a Logical OR operation) with the +PrinterExecTimeout value.

The generic-printer +SpoolerControlBits setting immediately under the "Printers" key may be overridden by the printer-class specific +SpoolerControlBits setting (if present) immediately under the "Printers\DOSPrint" key which itself may be overridden by the printer-number specific +SpoolerControlBits setting (if present) under the relevant "Printers\DOSPrint\5*nn*" key (where 5*nn* = 500 to 599).

The default value is 0. The value must be between 0 and 3, inclusive.

2.9 +NumberOfPrinterBuffers

This value setting is fully described in IN181. When the option to replace the Global Configuration File by registry settings is enabled (UseConfigurationFile=Off) this value is equivalent to the NUMBER OF PRINT BUFFERS option in the configuration file as documented in CFM81.

The generic-printer +NumberOfPrinterBuffers setting immediately under the "Printers" key is the only setting that configures the number of Printer Buffers (i.e. there are no equivalent printer-class or printer-number specific settings).

Although the default value appears as 1 this registry setting is not normally required as the optimum number of Printer Buffers is calculated dynamically by the code that emulates the configuration data.

2.10 +LengthOfPrinterBuffers

This value setting is fully described in IN181. When the option to replace the Global Configuration File by registry settings is enabled (UseConfigurationFile=Off) this value is equivalent to the LENGTH OF PRINT BUFFERS option in the configuration file as documented in CFM81.

The generic-printer +LengthOfPrinterBuffers setting immediately under the "Printers" key is the only setting that configures the length of the Printer Buffers (i.e. there are no equivalent printer-class or printer-number specific settings).

The default value is 250. The value must be between 132 and 250, inclusive. It should never be necessary to change this setting from the default value.

2.11 SpoolUnitForPrinter500 to SpoolUnitForPrinter599

These value settings are not used by the various printer controllers within GLOBAL.EXE but are only used by the "multiple-spooler" $SPM utility. The $SPM utility allows a number of spool-unit/printer combinations to be controlled by a single partition without the need to run multiple copies of $SP.

$SPM scans the "Printers" key of the Global registry testing each "SpoolUnitForPrinter5*nn*" setting (i.e. SpoolUnitForPrinter500 to SpoolUnitForPrinter599). Each setting is expected to set the unit number of associated spool unit. For example, the following registry settings:

```
..\Software\Global\Client\Printers\SpoolUnitForPrinter500=B01
..\Software\Global\Client\Printers\SpoolUnitForPrinter501=B02
..\Software\Global\Client\Printers\SpoolUnitForPrinter502=B03
..\Software\Global\Client\Printers\SpoolUnitForPrinter503=B04
..\Software\Global\Client\Printers\SpoolUnitForPrinter504=B05
```

will direct the $SPM utility to scan spool units B01 (printing to physical printer 500), B02 (printing to physical printer 501), B03 (printing to physical printer 502), B04 (printing to physical printer 503) and B05 (printing to physical printer 504).

2.12   SuppressAlignmentPatternDepth[1-99]
2.13   SuppressAlignmentPatternText[1-99]

This setting may be used to enable the suppression of printer Alignment Patterns from reports printed via the DOSPrint controller. The printer-number specific "EnableAlignmentPatternSuppression" option (see section 3.43 of IN406) enables the Alignment Pattern suppression logic for a particular printer. This option is used in conjunction with the two generic-printer options:

```
SuppressAlignmentPatternDepth[1-99]
SuppressAlignmentPatternText[1-99]
```

Although the **end** of a printer Alignment Pattern can be easily detected (by recognising a specific Printer Control Byte), the **start** of a printer Alignment Pattern is not so easy to detect. The start of a printer Alignment Pattern can only be detected by recognising the combination of a new Page Depth and Stationery Mount Message text. The following generic-printer settings:

```
..\Global\Client\Printers\SuppressAlignmentPatternDepthN
..\Global\Client\Printers\SuppressAlignmentPatternDepthNN
..\Global\Client\Printers\SuppressAlignmentPatternTextN
..\Global\Client\Printers\SuppressAlignmentPatternTextNN
```

(where *N* = 1 to 9; and *NN* = 10 to 99) allow up to 99 Page Depth/Stationery Mount Message combinations to be specified. For example, the Alignment Pattern in the Global 2000 Purchase Order report is immediately preceded by a Mount Message of "Purchase order forms" and a Page Depth of 48 lines. To suppress the Alignment Pattern in this report for printer unit 520 set the following registry settings:

```
..\Global\Client\Printers\DOSPrint\520\EnableAlignmentPatternSuppression=On
..\Global\Client\Printers\SuppressAlignmentPatternDepth1=48
..\Global\Client\Printers\SuppressAlignmentPatternText1="Purchase order forms"
```

If it also necessary to suppress an Alignment Pattern that is immediately preceded by a Mount Message of "Example mount message" and a Page Depth of 50 lines (for example) another pair of settings must be used:

..\Global\Client\Printers\SuppressAlignmentPatternDepth2=50
..\Global\Client\Printers\SuppressAlignmentPatternText2="Example   mount message"

No default setting are appropriate.

Important Note 1: These settings are only required for reports where more conventional techniques (e.g. $CUS) cannot be used to suppress the Alignment Patterns because the associated Mount Messages do not conform to the "modern standards" (see the Global Development File Management Manual).

Important Note 2: The string comparison on the Mount Message text is case sensitive.

Important Note 3: This setting is only supported by GLOBAL.EXE V3.8b, or later.

3.   Registry Keys under Printers

In addition to the various settings described in section 2 the following registry keys, which are described elsewhere, are under the "Printers" key:

Printers\DOSPrint	IN406
Printers\WinPrint	IN407
Printers\AuxPrint	IN408
Printers\DOS.PRI	IN409
Printers\GXPrint	IN410