

DOSPrint Registry Settings

1. Introduction

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

HKEY_LOCAL_MACHINE\Software\Global\Client\Printers\DOSPrint

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\xxxxxxx\+PageDepth" or "Printers\xxxxxxx\5 nn \+PageDepth" setting).

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2. Registry Settings under DOSPrint

The DOSPrint printer controller prints via a Windows printer device specified in the registry. This controller is equivalent to the DOS.PRI controller available on Global System Manager (MS-DOS and Windows) and Global System Manager (Novell NetWare) configurations. By modifying the device name in the registry it is possible to use this controller to print to a named Windows file or to one of a sequence of files in a Windows Spool Folder.

Important note: The use of the DOSPrint controller when used to print to a Windows device (e.g. COM1:) on Global System Manager (Windows) configurations can seriously impair performance. We strongly recommend the use of the "DOS.PRI" controller (see [IN409.DOC](#)) when printing to a Windows device in a multi-user Global System Manager (Windows) configuration.

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 printer-class specific +DeviceCharacteristics setting (if present) immediately under the "Printers\DOSPrint" key overrides the generic-printer +DeviceCharacteristics setting (if present) immediately under the "Printers" key; and is itself overridden by any printer-

number specific +DeviceCharacteristics settings 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 printer-class specific +HardwareFormFeed setting (if present) immediately under the "Printers\DOSPrint" key overrides the generic-printer +HardwareFormFeed setting (if present) immediately under the "Printers" key; and is itself overridden by any printer-number specific +HardwareFormFeed settings under the relevant "Printers\DOSPrint\5nn" key (where 5nn = 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 printer-class specific +MaximumPageWidth setting (if present) immediately under the "Printers\DOSPrint" key overrides the generic-printer +MaximumPageWidth setting (if present) immediately under the "Printers" key; and is itself overridden by any printer-number specific +MaximumPageWidth settings under the relevant "Printers\DOSPrint\5nn" key (where 5nn = 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 printer-class specific +PageDepth setting (if present) immediately under the "Printers\DOSPrint" key overrides the generic-printer +PageDepth setting (if present) immediately under the "Printers" key; and is itself overridden by any printer-number specific +PageDepth settings under the relevant "Printers\DOSPrint\5nn" key (where 5nn = 500 to 599).

The default value is 0.

2.5 +PrinterDescription

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 DESCRIPTION option in the configuration file as documented in CFM81.

The printer-class specific +PrinterDescription setting (if present) immediately under the "Printers\DOSPrint" key is overridden by any printer-number specific +PrinterDescription settings under the relevant "Printers\DOSPrint\5nn" key (where 5nn = 500 to 599). Note there is no generic-printer +PrinterDescription setting under the "Printers" key.

The default setting is "DOS Printer".

2.6 +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 printer-class specific +PrinterExecFlagByte setting (if present) immediately under the "Printers\DOSPrint" key overrides the generic-printer +PrinterExecFlagByte setting (if present) immediately under the "Printers" key; and is itself overridden by any printer-number specific +PrinterExecFlagByte settings under the relevant "Printers\DOSPrint\5nn" key (where 5nn = 500 to 599).

The default value is 0xff (255).

2.7 +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 printer-class specific +PrinterExecTimeout setting (if present) immediately under the "Printers\DOSPrint" key overrides the generic-printer +PrinterExecTimeout setting (if present) immediately under the "Printers" key; and is itself overridden by any printer-

number specific +PrinterExecTimeout settings 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.

2.8 +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.

See section [3.11](#) for further details.

The printer-class specific +PrinterPool setting (if present) immediately under the "Printers\DOSPrint" key overrides the generic-printer +PrinterPool setting (if present) immediately under the "Printers" key; and is itself overridden by any printer-number specific +PrinterPool settings 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.

2.9 +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 printer-class specific +SpoolerControlBits setting (if present) immediately under the "Printers\DOSPrint" key overrides the generic-printer +SpoolerControlBits setting (if present) immediately under the "Printers" key; and is itself overridden by any printer-number specific +SpoolerControlBits settings under the relevant "Printers\DOSPrint\5nn" key (where 5nn = 500 to 599).

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

2.10 DisableValidation

This string setting is the printer-class specific DOSPrint equivalent of the printer-number specific DisableValidation setting that is fully described in section [3.15](#).

The printer-class specific DisableValidation setting (if present) immediately under the "Printers\DOSPrint" key is overridden by any printer-number specific DisableValidation settings under the relevant "Printers\DOSPrint\5nn" key (where 5nn = 500 to 599). Note there is no generic-printer DisableValidation setting under the "Printers" key.

The default setting is "Off". 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 "Off".

2.11 MultiUserPrinterExecutive

This string setting is the printer-class specific DOSPrint equivalent of the printer-number specific MultiUserPrinterExecutive setting that is fully described in section [3.21](#).

The printer-class specific MultiUserPrinterExecutive setting (if present) immediately under the "Printers\DOSPrint" key is overridden by any printer-number specific MultiUserPrinterExecutive settings under the relevant "Printers\DOSPrint\5nn" key (where 5nn = 500 to 599). Note there is no generic-printer MultiUserPrinterExecutive setting under the "Printers" key.

The default setting is "Off". 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 "Off".

2.12 PolledMode

This string setting controls the effect printing has on the multi-user time-slicing scheduler within the Global Client kernel. Early versions of the Global Client (pre V3.0) completed the line-by-line print function within the same time-slice as the user performing the print operation. This had the effect of making printing via the DOSPrint interface a higher-priority task than normal processing. For GLOBAL.EXE V3.0, and later, the situation has been reversed so that printing becomes the lowest priority task, relegated to a Poll Routine.

If PolledMode is enabled (the default), printing via the DOSPrint interface has a lower priority than normal user operations. If PolledMode is disabled, printing via the DOSPrint interface has a higher priority than normal user operations.

Note that it is not possible to alter the "PolledMode" setting on a per-printer basis. Either **all** DOSPrint printers operate in Polled Mode; or **no** DOSPrint printers operate in polled mode.

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".

This setting should only be changed under exceptional circumstances.

2.13 PrintPollDivisor

This value is only recognised if the "PolledMode" option (see section [2.12](#)) is enabled. It controls the relative priority of print operations via the DOSPrint controller and normal user operations. A high value of the "PrintPollDivisor" setting **lowers** the priority of the

DOSPrint interface with respect to normal user operations. A low value of the "PrintPollDivisor" setting **raises** the priority of the DOSPrint interface with respect to normal user operations. The lowest value allowed is 1.

Note that it is not possible to set the "PrintPollDivisor" value on a per-printer basis. **All** DOSPrint printers operate with the same relative priority.

The default value is 100. The value must be between 1 and 65535, inclusive.

This setting should only be changed under exceptional circumstances.

2.14 SeparatePrintFileExtensions

This string setting is the printer-class specific DOSPrint equivalent of the printer-number specific SeparatePrintFileExtensions setting that is fully described in section [3.34](#).

The printer-class specific SeparatePrintFileExtensions setting (if present) immediately under the "Printers\DOSPrint" key is overridden by any printer-number specific SeparatePrintFileExtensions settings under the relevant "Printers\DOSPrint\5nn" key (where 5nn = 500 to 599). Note there is no generic-printer SeparatePrintFileExtensions setting under the "Printers" key.

The default setting is "Off". 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 "Off".

3. Registry Settings under DOSPrint\5nn

The settings under each individual printer key (500 to 599) only apply to a single printer.

3.1 CreateNewFile

This string setting, which was originally documented in GOMW81, specifies whether the print file should be re-created for each print or appended to. If the print file is recreated then the file will only contain the last Global print report. If the print file is appended, it will contain the entire accumulation of Global print reports (and will have to be deleted using a Windows command e.g. using the Delete option in Windows Explorer).

Although this option was originally only relevant to the "fixed print file" printing mode (see section 3.3.2) it has been extended (for GLOBAL.EXE V3.8, and later) to the Windows Spool Folder printing mode (see section 3.3.3). The behaviour is summarised thus:

Interface type	CreateNewFile=Off	CreateNewFile=On
Direct Device (see 3.3.1)	CreateNewFile ignored	CreateNewFile ignored

Fixed Print File (see 3.3.2)	The current print will be appended to an existing file of the same name. Global print files will accumulate in the Windows file specified by the "Name" option.	The current print will replace an existing file of the same name. The Windows file specified by the "Name" option just contains the last Global file printed.
Windows Spool Folder (see 3.3.2)	If the print file name is different for each Global print, this option has little relevance. However, if the print file name is not always unique a NOT READY ERROR will be generated if a file with the same name already exists on the Windows Spool Folder.	For GLOBAL.EXE V3.7, and earlier, this option is ignored. For GLOBAL.EXE V3.8 and later only: If the print file name is different for each Global print, this option has little relevance. However, if the print file name is not always unique the current print will replace an existing file of the same name. The CreateNewFile option is always assumed if the CreateTempFileName option (see section 3.14) or DynamicFileName option (see section 3.16) have been specified.
UNC Printer Name (see 3.3.4)	A Windows error 87 will occur if the CreateNewFile option is disabled.	The CreateNewFile option MUST be enabled.

The default setting is "Off". 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 "Off".

3.2 LFToLFCR

This string setting, which was originally documented in GOMW81, specifies whether a Carriage Return character (#0D) should be sent before each Line Feed character (#0A).

The default setting is "Off". 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 "Off".

3.3 Name

This string setting, which was originally documented in GOMW81, specifies the DOSPrint printing mode. Four modes are possible:

Mode	Description
Direct Device (see 3.3.1)	The DOSPrint controller outputs directly to the device specified. This mode is indicated by terminating the device name with a ":". For example, "LPT1:", "COM1:".
Fixed Print File (see 3.3.2)	The DOSPrint controller outputs to a specific file. This mode is indicated by setting the device name to a valid filename. For example: "PRINT.TXT".
Windows Spool Folder (see 3.3.3)	The DOSPrint controller outputs to a uniquely named file in the specified Windows Spool Folder. This mode is indicated by setting the device name to a valid folder name terminated by the "\". For example: "C:\GSM\SPOOL\".
UNC Printer Name (see 3.3.4)	The DOSPrint controller can be used to print to a networked Windows printer directly by specifying the UNC name of the Windows printer. For example: \\GlobalInt1\City_Basement_Left.

The default setting is "LPT1:".

3.3.1 DOSPrint Operating Notes (Direct Device mode)

The device specified by the "Name" setting can be any valid serial or parallel port device name. The "CreateNewFile" setting (see section [3.1](#)) is ignored when this mode is selected. However, the "LFToLFCR" setting (see section [3.2](#)) is recognised.

The device is always opened in "raw mode". In "raw mode" all characters are printed from Global System Manager without Windows intercepting or translating them.

Printing to a relatively slow Direct Device may cause performance problems on a multi-user configuration. If slow Direct Device printing does affect multi-user performance you are strongly recommended to replace the DOSPrint controller with DOS.PRI and enable the PrintViaSeparateThread interface (see Technical Note [IN409.DOC](#)).

3.3.2 DOSPrint Operating Notes (Fixed Print File mode)

The device specified by the "Name" setting can be any valid pathname (including UNC share-names). Both the "CreateNewFile" and "LFToLFCR" settings (see sections [3.1](#) and [3.2](#)) are recognised when this mode is selected.

Important note: Although it is possible to specify a relative pathname for the Windows filename (e.g. GSMPRINT.TXT) an absolute pathname (e.g. C:\GSMNT\GSMPRINT.TXT) is **strongly recommended**. An absolute pathname is absolutely essential if the "Set Default Directory" function is executed using the SVC-61 interface.

3.3.3 DOSPrint Operating Notes (Windows Spool Folder mode)

The device specified by the "Name" setting can be any valid folder. If the version of GLOBAL.EXE is V3.7, or earlier, the "CreateNewFile" setting is ignored when this mode is

selected (see section [3.1](#)). If the version of GLOBAL.EXE is V3.8, or later, the "CreateNewFile" setting is recognised when this mode is selected (see section [3.2](#)). The "LFToLFCR" setting is recognised for all versions of GLOBAL.EXE.

By default, the specified folder must exist otherwise the printer controller will be removed dynamically from the configuration when the Global Client is started (i.e. the printer will not appear in the \$U report and an ASSIGNMENT ERROR will occur when attempting to print to the 5nn unit). However, this default behaviour can be modified by the DisableValidation option (see section [3.15](#)).

Every Global System Manager print file will generate a corresponding Windows file with a unique filename in the spool folder. **By default**, the name of the Windows file will be of the form:

xxxxxxxxx.nnn

where xxxxxxxxx is the name of the Global print file and *nnn* is an incrementing sequence number that ensures the Windows filename is unique. However, a plethora of options are available to modify the name of the Windows file created (see section [6](#)).

The DOSPrint controller removes all non-alphanumeric characters from the Global filename to generate the first part of the Windows filename. For example, using \$F in partition 2 to create a report (e.g. PRI) produces a Global print file called D.\$F02. This filename will be converted to DF02.*nnn* (e.g. DF02.001) by the DOSPrint controller.

If the removal of non-alphanumeric characters in the filename results in an empty string (i.e. if the Global filename includes **no** alphanumeric characters) the first part of the filename is set to "NONAME".

The sequence number is derived from those Windows files that are resident in the Windows Spool Folder when the Global Client is started. The sequence number will start from "001" if the folder is empty. The maximum sequence number is "999". **By default**, if this limit is reached no more files will be written to the Windows Spool Folder and a Global System Manager "DIRECTORY FULL" error will be reported when attempting to print. However, this default behaviour can be modified by the SuffixWrap option (see section [3.36](#)).

Important note: Although it is possible to specify a relative pathname for the Windows Spool Folder (e.g. GSMSPPOOL\), an absolute pathname (e.g. C:\GSMNT\GSMSPPOOL\), is **strongly recommended**. An absolute pathname is absolutely essential if the "Set Default Directory" function is executed using the SVC-61 interface.

3.3.4 DOSPrint Operating Notes (UNC Printer Name mode)

The device specified by the "Name" setting can be the UNC name of a Windows printer (e.g. \\Globalnt1\\City_Basement_Left). The "CreateNewFile" setting (see section [3.1](#)) **MUST** be enabled if this mode is selected.

3.4 +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 printer-number specific +DeviceCharacteristics setting (if present) immediately under the "Printers\DOSPrint\5nn" key (where 5nn = 500 to 599) overrides the printer-class specific +DeviceCharacteristics setting (if present) immediately under the "Printers\DOSPrint" key, which in turn, overrides the generic-printer +DeviceCharacteristics setting (if present) under the "Printers" key.

The default value is 0.

3.5 +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 [3.7](#)) is only recognised if the +HardwareFormFeed option is disabled. If the +HardwareFormFeed option is enabled the +PageDepth setting is ignored.

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

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".

3.6 +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 printer-number specific +MaximumPageWidth setting (if present) immediately under the "Printers\DOSPrint\5nn" key (where 5nn = 500 to 599) overrides the printer-class specific +MaximumPageWidth setting (if present) immediately under the "Printers\DOSPrint" key, which in turn, overrides the generic-printer +MaximumPageWidth setting (if present) under the "Printers" key.

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

3.7 +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 [3.5](#)) is disabled. If the +HardwareFormFeed option is enabled the +PageDepth setting is ignored.

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

The default value is 0.

3.8 +PrinterDescription

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 DESCRIPTION option in the configuration file as documented in CFM81.

The printer-number specific +PrinterDescription setting (if present) immediately under the "Printers\DOSPrint\5nn" key (where 5nn = 500 to 599) overrides the printer-class specific +PrinterDescription setting (if present) immediately under the "Printers\DOSPrint" key. Note there is no generic-printer +PrinterDescription setting directly under the "Printers" key.

The default setting is "DOS Printer".

3.9 +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 printer-number specific +PrinterExecFlagByte setting (if present) immediately under the "Printers\DOSPrint\5nn" key (where 5nn = 500 to 599) overrides the printer-class specific +PrinterExecFlagByte setting (if present) immediately under the "Printers\DOSPrint" key, which in turn, overrides the generic-printer +PrinterExecFlagByte setting (if present) under the "Printers" key.

The default value is 0xff (255).

3.10 +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 printer-number specific +PrinterExecTimeout setting (if present) immediately under the "Printers\DOSPrint\5nn" key (where 5nn = 500 to 599) overrides the printer-class specific +PrinterExecTimeout setting (if present) immediately under the "Printers\DOSPrint" key, which in turn, overrides the generic-printer +PrinterExecTimeout setting (if present) under the "Printers" key.

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

3.11 +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 +PrinterPool setting affects the bottom 4 bits of Printer DEVICE CHARACTERISTICS BYTE (PADC1) as follows:

+PrinterPool value	Bottom 4 bits of PADC1
0	#08
1	#09
2	#0A
3	#0B
4	#0C
5	#0D
6	#0E
7	#0F

The +PrinterPool option is available to allow simultaneous, multiple-user printing to a particular Windows folder, with a single \$PR assignment, **without the need to run the Global spooler, \$SP**. If any printer in a particular Printer Pool is IN USE, printing will automatically use another printer in the same pool, avoiding the IN USE error that would normally result when two, or more users, attempt to print to the same Printer Device (e.g. 500) simultaneously.

Consider the following "non Pooled Printer" configuration:

```
..\Printers\DOSPrint\500\Name=C:\SPOOLFOLDER1\  
..\Printers\DOSPrint\503\Name=C:\SPOOLFOLDER1\
```

By default, while a particular user is printing to SPOOLFOLDER1 via Printer Device 500, that printer will remain IN USE. During the print operation, any attempt by another user to create a file on SPOOLFOLDER1 will require the exclusive use of Printer Unit 500, which will be denied (i.e. an IN USE error will be returned by the OPEN operation). Note that

while Printer Unit 500 is IN USE the operator can still create a file on SPOOLFOLDER1 but only by explicitly changing the printer assignment (e.g. \$PR) from 500 to 503. Changing the Printer Unit to overcome IN USE errors is **EXTREMELY** inconvenient.

Now consider the following "PooledPrinter" configuration:

```
..\Printers\DOSPrint\500\Name=C:\SPOOLFOLDER1\
..\Printers\DOSPrint\500\+PrinterPool=0
..\Printers\DOSPrint\501\Name=C:\SPOOLFOLDER1\
..\Printers\DOSPrint\501\+PrinterPool=0
..\Printers\DOSPrint\502\Name=C:\SPOOLFOLDER1\
..\Printers\DOSPrint\502\+PrinterPool=0
```

If a user is printing to SPOOLFOLDER1 via Printer Device 500, that printer will still remain IN USE. However, during the print operation, any attempt by another user to create a file on SPOOLFOLDER1 via Printer Unit 500 will be automatically be redirected to Printer Unit 501. If Printer Unit 501 is also IN USE, the operation will be automatically be redirected to 502. Thus, the print operation is automatically redirected to the first available Printer Unit within the pool **WITHOUT** the need to explicitly change the printer assignment. An IN USE error will only be returned if **ALL** the printers in the pool are simultaneously IN USE. Obviously, the size of the Printer Pool, in terms of the number of Printer units that are participating, depends on the number of users and the frequency of print operations.

Normally, the "PooledPrinter" option should be used in conjunction with the "+PrinterPool" option. See section [3.22](#) for further details.

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

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

The +PrinterPool option has been effectively replaced by the more convenient MultiUserPrinterExecutive option (see section [3.21](#)).

3.12 +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 printer-number specific +SpoolerControlBits setting (if present) immediately under the "Printers\DOSPrint5nn" key (where 5nn = 500 to 599) overrides the printer-class specific +SpoolerControlBits setting (if present) immediately under the "Printers\DOSPrint" key, which in turn, overrides the generic-printer +SpoolerControlBits setting (if present) under the "Printers" key.

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

3.13 AppendFileNameAfterClose

If the PostCloseProgramName option has been specified (see section [3.24](#)) this string setting determines whether the name of the nascent Windows print file should be passed as a command line parameter to the program identified by the PostCloseprogramName option.

The default setting is "Off". 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 "Off".

3.14 CreateTempFileName

If the PostCloseProgramName option (see section [3.24](#)) has been specified, the CreateTempFileName string setting determines whether the name of the Windows print file should remain fixed thus allowing the name of the intermediate print file to be re-used. If this option is enabled, the name of the print file is always:

tempxxhh.txt

where xx is the Global Client node-id and hh is the User Number.

If the CreateTempFileName option is enabled a new Windows file is **always** created regardless of the setting of the CreateNewFile setting (see section [3.1](#)).

The default setting is "Off". 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 "Off".

Important Note: For GLOBAL.EXE V3.8, and later, this setting is always recognised **regardless** of the value of the PostCloseProgramName setting.

3.15 DisableValidation

By default, the value of the "Name" setting (see section [3.3](#)) is validated during the Printer Initialisation phase of the Global Client start-up processing. Normally, the "Name" setting (e.g. "D:\MYPRINTS\") is valid at all times, including the period while the Global Client is loading. Thus, validating the "Name" setting at Global Client load-time is usually acceptable. However, under some conditions, the value of the "Name" setting may not valid while the Global Client is loading (the setting must, of course, be valid before the printer can be used). The most obvious example of a "Name" setting that can be invalid at

GSM load-time, but valid before a printer is used, is when the "Name" setting specifies a shared folder on a different PC from the one that is running the Global Client (e.g. \\SERVER1\MYPRINTS). If the remote, shared folder is inaccessible at Global Client load-time the corresponding printer unit will be dynamically removed from the table of available GSM printers (i.e. the Printer Unit will not appear in the list displayed by \$U).

Enabling the "DisableValidation" setting avoids the load-time validation of the "Name" setting. When this option is enabled the name of the associated print file or spool folder is not validated during the Printer Initialisation phase of GSM start-up. Any errors with the print file name or spool folder specified in the "Name" setting in the registry will only be detected when the first attempt is made to use the printer.

The DisableValidation setting (if present) immediately under the "Printers\DOSPrint\5nn" key (where 5nn = 500 to 599) overrides the DisableValidation setting (if present) immediately under the "Printers\DOSPrint" key. Note there is no DisableValidation setting directly under the "Printers" key.

The default setting is "Off". 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 "Off".

3.16 DynamicFileName

This string setting is required to indicate that a DOSPrint printer supports the PRIFN\$ sub-routine. This sub-routine allows an application to specify the precise Windows filename of the next file to be printed by a particular user on a particular printer. The "DynamicFileName" setting must be enabled in order for the PRIFN\$ file name to be recognised by a DOSPrint printer.

If the DynamicFileName option is enabled **and** the PRIFN\$ routine has supplied a filename a new Windows file is **always** created regardless of the setting of the CreateNewFile setting (see section [3.1](#)).

The default setting is "Off". 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 "Off".

3.17 EnableISOTranslation

The DOSPrint interface allows ISO character translations to be specified in the registry. This option can avoid the requirement to establish Printer Control Files if only simple character translation is required. To enable the low-level ISO character Printer Translation the EnableISOTranslation string setting must be enabled.

When the EnableISOTranslation option is enabled the DOSPrint interface will apply the translations defined in:

```
..\Global\Client\Screens\GUI\IsoTranslations\ISOchar128=#hh
```

to:

..\Global\Client\Screens\GUI\IsoTranslations\ISOchar255=#hh

See section [4.1](#) for further details.

The default setting is "Off". 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 "Off".

3.18 FixedFileTempFileName

When this string setting is enabled the ".tmp" extension is added to the filename created by the printer controller during the OPEN operation (e.g. print.txt is created as print.txt.tmp). When the print file is closed, during the CLOSE operation, the file is renamed to remove the ".tmp" extension. This option only applies if the "Name" setting (see section [3.3](#)) specifies a fixed filename (i.e. rather than a Windows Spool Folder), and if the "CreateNewFile" option (see section [3.1](#)) is enabled.

The default setting is "Off". 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 "Off".

3.19 FixedFileSuffix

This string setting changes the name of the file that is created in the Windows "spool folder" (when the "Name" option (see section [3.3](#)) specifies a Windows folder). By default, the name of the file created is:

xxxxxx.nnn

where *xxxxxxx* is the Global print file name (with any invalid characters removed); and *nnn* is the auto-incrementing numeric file suffix (i.e. 001, 002, to 999).

If the "FixedFileSuffix" option is set to a 3 character extension (e.g. "txt" or "bat") the DOSPrint controller, when writing to a Windows Spool Folder, will create filenames of the form:

xxxxnnn.sss

where *xxxxx* are the first 5 characters of the Global filename, *nnn* is an incrementing number and *sss* is the filename suffix specified by the "FixedFileSuffix" option. Note that if the "FixedFileSuffix" option is set to anything other than a 3 character string it will be ignored.

No default is available (i.e. the default is not to use a fixed filename suffix) but when this registry setting is added using GLREGED.EXE the default from the GLMACH.TLT file is "txt".

3.20 Mode

This string setting is available to select the operating mode for the serial port. This option is only recognised if the "Name" setting (see section [3.3](#)) specifies a serial device (e.g. "COM1:"). If the Mode setting is not specified on Windows NT, Windows 2000, Windows XP or Windows 2003, Global System Manager will reprogram the serial mode as specified in the Windows control panel for the specified COM device. If the Mode setting is not specified on Windows 95 or Windows 98, Global System Manager will NOT attempt to reprogram the serial port (i.e. the last port setting, or the Windows default if no other application has used the serial port, will be used).

No default is available but when this registry setting is added using GLREGED.EXE the default from the GLMACH.TLT file is "9600,N,8,1,X" (i.e. 9600 baud, No parity, 8 data bits, 1 stop bit, X-on/X-off protocol).

3.21 MultiUserPrinterExecutive

This string setting is available to enable the Multi-User Printer Executive (MUPE) option. The MUPE option has effectively replaced the "Pooled Printer" interface (see section [3.22](#)) for those configurations where a single Printer Unit is being used in a multi-user environment to export to a Windows "spool folder", without the use of the Global spooler.

Under normal circumstances if a user attempts to open a printer unit (e.g. 500) that is already open by another user, an IN USE ERROR will result. Although this behaviour is correct when the printer is a physical device (e.g. COM1:, LPT1:) it is too restrictive when the "printer" is a Windows "spool folder". The behaviour is correct for a physical device because it makes no sense for two, or more, users to send print data to a "single-user" device. However, there is no reason why two, or more, users cannot write to uniquely named files on a Windows Spool Folder.

The "Pooled Printer" option (see section [3.22](#)) was a crude attempt to avoid this problem. However, the Multi-User Printer Executive (MUPE) option provides a much improved solution. When this option is enabled, multiple users can open the specified printer, or printers, simultaneously without suffering IN USE errors.

The MUPE option must be used with caution and only when the ultimate output is intrinsically multi-user. For example:

```
..\Global\Client\Printers\DOSPrint\500\Name=COM1:
..\Global\Client\Printers\DOSPrint\500\MultiUserPrinterExecutive=On
```

or:

```
..\Global\Client\Printers\DOSPrint\501\Name=c:\gsm\printfile.txt
..\Global\Client\Printers\DOSPrint\501\MultiUserPrinterExecutive=On
```

will merely replace the IN USE ERROR by a NOT READY ERROR. Thus, the MUPE option can only be used with a Windows Spool Folder:

```
..\Global\Client\Printers\DOSPrint\502\Name=c:\gsm\prints\
```

```
..\Global\Client\Printers\DOSPrint\502\MultiUserPrinterExecutive=On
```

Note that the `SeparatePrintFileExtensions` option (see section [3.34](#)) may be used in conjunction with the `MultiUserPrinterExecutive`.

In addition, a diagnostic option (`MultiUserPrinterDiagnostics`) is available to trouble-shoot any problems with the MUPE option (see Technical Note [IN401.DOC](#)).

The default setting is "Off". 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 "Off".

3.22 PooledPrinter

This string setting is intended for use in conjunction with the "+PrinterPool" Pooled Printer option (see section [3.11](#)). The "PooledPrinter" option changes the name of the file that is created in the Windows "spool folder" (when the "Name" option (see section [3.3](#)) specifies a Windows folder). By default, the name of the file created is:

```
xxxxxxxx.nnn
```

where `xxxxxxxx` is the Global print file name (with any invalid characters removed); and `nnn` is the auto-incrementing numeric file suffix (i.e. 001, 002, to 999).

When the "PooledPrinter" option is enabled the name of the file created becomes:

```
xxxxxxpp.nnn
```

where `xxxxxx` are the first six characters of the Global print file (with any invalid characters removed); `pp` is the printer unit number minus 500 (e.g. 00 for printer 500; 01 for printer 501, etc.); `nnn` is the auto-incrementing numeric file suffix (i.e. 001, 002, to 999).

The "PooledPrinter" option is required because each Printer Unit within a Printer Pool maintains a separate auto-incrementing suffix sequence number. Consider a configuration with two printers, 501 and 502, both in Printer Pool 1. That is:

```
..\Printers\DOSPrint\501\Name=C:\MYSPOOLFOLDER\  
..\Printers\DOSPrint\501\+PrinterPool=1  
..\Printers\DOSPrint\502\Name=C:\MYSPOOLFOLDER\  
..\Printers\DOSPrint\502\+PrinterPool=1
```

Because printers 501 and 502 maintain separate sequence suffix numbers there is nothing to prevent them using the same numeric suffix for a particular Global file prefix. Since it is only sensible to specify the same Windows Spool Folder for each printer within a Printer Pool (i.e. so that the print files are created in the same folder regardless of the printer unit that was actually used to effect the print operation) there is the possibility that a file created by printer unit 502, say, can overwrite a file of the same name, in the same

folder, that was previously created by printer 501, say. The "PooledPrinter" option avoids this potential filename clash by tagging the variable part of the Printer Unit number in the file name.

The default setting is "Off". 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 "Off".

Do not confuse the PooledPrinter option with the PolledMode option (see section [2.12](#)).

3.23 PostCloseAlias

By default, if the AppendFileNameAfterClose option (see section [3.13](#)) is enabled the name of the file appended to the PostCloseProgramName (see section [3.24](#)) is the full pathname of the nascent Windows print file. This file-name may not be appropriate in thin-client configurations where the Windows program is initiated on the thin-client PC (i.e. rather than the server) and the share-name of the Windows Spool Folder is different from the name specified in the "Name" key in the registry. For example, if the "Name" option is set to "C:\gsmnt\prints\" on the PC running GLOBAL.EXE and this directory is mapped to "\\tisgsmc\prints\" on the PC running the thin-client (i.e. the PC on which the invoked program will be running) then the PostCloseAlias option should be set to "\\tisgsmc\prints\".

The default setting is "" (i.e. no aliasing is performed).

3.24 PostCloseProgramName

This string setting can be used to specify the name of a Windows program that is to be invoked immediately after the Windows print file has been closed. This option only applies to the DOSPrint "print to file" option (see section 3.3.2) or the "print to Windows Spool Folder" option (see section 3.3.3) – it does NOT apply to the "print to DOS device" option (see section 3.3.1). For example:

```
..\Printers\DOSPrint\500\PostCloseProgramName=NOTEPAD.EXE
```

This section is extremely useful when the DOSPrint interface is being used as a File Export Interface. The Windows program that processes the nascent Export File can be initiated immediately the file has been closed thus avoiding the requirement to poll the "Export Folder" scanning for freshly created files.

Important Note: The program specified by the PostCloseProgramName setting is initiated using a "Desktop command" i.e. in a thin-client configuration the command is executed on the PC that is running GX.EXE or GSMWIN32.EXE rather than the "terminal server" PC running GLOBAL.EXE. This has implications for the PostCloseProgramName setting as the command specified in the registry refers to the "thin client" PC's rather than the server PC.

A number of related options can be used in conjunction with the PostCloseProgramName setting (see sections [3.13](#), [3.14](#) and [3.23](#)).

The default setting is "" (i.e. no program is invoked after a successful DOSPrint file close).

3.25 PrintFileName

This string setting is available to specify the precise name of the file created in the Windows "spool folder". This option is only available when the "Name" option (see section [3.3](#)) specifies a Windows folder.

The PrintFileName option must be set to the desired filename. For example:

```
..\Printers\DOSPrint\500\PrintFileName=MYPRINT.TXT
```

However, specifying a "fixed" filename is not very useful as the same effect can be achieved using just the "Name" option. For example:

```
..\Printers\DOSPrint\500\Name=C:\PRINTS\  
..\Printers\DOSPrint\500\PrintFileName=MYPRINT.TXT
```

is equivalent to:

```
..\Printers\DOSPrint\500\Name=C:\PRINTS\MYPRINT.TXT
```

However, the PrintFileName option becomes **very powerful** when parameters are included in the template filename. All parameters are of the form \$x (where x is an upper-case letter):

\$F	GSM filename (invalid characters removed)
\$G	GSM filename (invalid characters replaced by underscore)
\$I	Auto incrementing 4-digit decimal number
\$N	Node-id (in hex)
\$O	\$OPID (no editing)
\$Q	\$OPID (spaces removed)
\$R	\$OPID (spaces to underscore)
\$P	Printer number
\$T	Tick count (in decimal)
\$U	User Number (in hex)
\$V	User Number (in decimal 3 digits)
\$\$	Single \$ character

For example:

```
..\Printers\DOSPrint\500\PrintFileName=before$Rafter$P.txt
```


will create the file "beforeAJU_after501.txt" when printed by operator AJU on Printer Unit 501.

The default setting is "" (i.e. no special filename processing).

Important Note 1: This setting is only supported by GLOBAL.EXE V3.8, or later.

Important Note 2: This setting is read on every Printer Open operation. Thus, a change to the registry does not require a reload of the Global Client GLOBAL.EXE.

3.26 PrintViewAddExtension

This string setting is only recognised when the PrintViewDirectory option (see section [3.27](#)) is enabled. This setting is used to specify whether the file extension (i.e. file suffix) of the reformatted file (as specified by the PrintViewExtension option - see section [3.28](#)) is **appended** to, or **replaces**, the file extension of the raw text file. For example whether the External Reformatting Program (ERP) converts the raw-text file "PRINTFILE.TXT" to "PRINTFILE.TXT.PDF" (PrintViewAddExtension=On) or to "PRINTFILE.PDF" (PrintViewAddExtension=Off).

Important Note: It is vital this setting agrees with the functionality of the ERP because the DOSPrint controller waits for a file of the expected name to appear in the folder specified by the PrintViewDirectory setting (see section [3.27](#)).

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".

3.27 PrintViewDirectory

This string setting is available to enable the DOSPrint interface to function as a File Transfer Agent to transmit a reformatted report file to GX.EXE or GSMWIN32.EXE for viewing (and printing). The Print View option consists of a number of stages:

- The DOSPrint completes a print operation by closing the file in the spool folder;
- The DOSPrint controller then waits for an External Reformatting Program (ERP) to reformat the raw print file to another file format (e.g. .PDF);
- When the reformatted file becomes available the file is transmitted to the thin-client for viewing and optional printing.

The PrintViewDirectory setting specifies the name of the Windows folder that the DOSPrint controller scans to wait for the reformatted file to appear in. The folder can be specified either with, or without, the trailing "\" character. Normally the Print View Directory will also be parameterised into the External Reformatting Program.

Important Note. This option should not be enabled unless a "Print View sub-system" has been installed on the server that is running GLOBAL.EXE.

The default setting is "" (i.e. the Print-View option is disabled).

3.27.1 Using the PrintViewDirectory Option to Export Files to GX

The concept behind the PrintViewDirectory option is very powerful and allows a variety of "low cost, low-level" GX export options to be implemented that avoid the use of high-level techniques such as GXCOP\$. For example, it is possible to arrange for the DOSPrint controller to effectively create a file on the GX PC and trigger GX to initiate the appropriate Windows application to process that file in an appropriate manner (e.g. to run Internet Explorer to view an .xml file).

Consider an application that creates an .xml file using a standard GSM printer mechanism. It is assumed that this application uses the PRIFN\$ sub-routine to force the name of the print file created by the DOSPrint controller to be *.xml. The following registry settings will result in the file being viewed in Internet Explorer on the GX PC when the GSM print file is closed:

+PrinterDescription	XML file exporter
Name	E:\GSMNT\DOSPRINT580\
DynamicFileName	On
PrintViewDirectory	E:\GSMNT\DOSPRINT580\
PrintViewExtension	.xml
PrintViewAddExtension	Off

Note that the "PrintViewDirectory" folder is the same as the folder specified by the "Name" setting (i.e. no 3rd party External Reformatting Program (ERP) is expected to be running on the server). The "DynamicFileName" option is enabled to allow the use of the PRIFN\$ sub-routine. The "PrintViewExtension" is set to the file extension created by the application (using the PRIFN\$ sub-routine) and the "PrintViewAddExtension" option is disabled to reflect that fact that no ERP is involved to append an extension to the name of the print file.

On the GX PC, the "PrinterTempDirectory" setting in the [general] section of the GX.INI file **AND** the "PrinterTempDirectory" in the [miscellaneous] section of the GXIO.INI file must be set to the **SAME** temporary folder on the GX PC.

3.28 PrintViewExtension

This string setting is only recognised when the PrintViewDirectory option (see section [3.27](#)) is enabled. This setting is used to specify the file extension (i.e. file suffix) of the reformatted file.

It is assumed that the External Reformatting Program will not rename the part of the filename before the "." character during the conversion from the raw text file (**created** by

the DOSPrint controller) to the formatted file (**expected** by the DOSPrint controller). For example, PRINTFILE.TXT will be transformed to PRINTFILE.PDF.

The default setting is "pdf".

3.29 PrintViewFileCopyBufferSize

This string setting is only recognised when the PrintViewDirectory option (see section [3.27](#)) is enabled. This setting is used to specify the size of the buffer (in bytes) that is used to copy the reformatted file (created by the External Reformatting Program) to the GX.EXE or GSMWIN32.EXE thin-client.

The default value is 512.

3.30 PrintViewTimeout

This string setting is only recognised when the PrintViewDirectory option (see section [3.27](#)) is enabled. This setting is used to specify the time period (in seconds) that the DOSPrint controller waits for the External Reformatting Program (ERP) to convert the raw-text file (**created** by the DOSPrint controller in the folder specified by the "Name" setting) to the formatted file (**expected** by the DOSPrint controller in the folder specified by the PrintViewDirectory setting).

The default value is 5 (seconds) although this value may have to be increased for large print files, or complex print files that take a relatively long time to reformat.

3.31 RemoveCR

This string setting can be used to enable a File Editing function within the DOSPrint controller. When this option is enabled the DOSPrint controller removes trailing <CR> characters (0x0D) from the output print file.

This option is available for specialised data export and should be used with extreme caution. This option is documented for completeness only.

The default setting is "Off". 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 "Off".

3.32 RemoveFF

This string setting can be used to enable a File Editing function within the DOSPrint controller. When this option is enabled the DOSPrint controller removes trailing Form-Feed <FF> characters (0x0C) from the output print file. Thus, this option effectively removes hard page-breaks from the print file..

This option is available for specialised data export and should be used with extreme caution. This option is documented for completeness only.

The default setting is "Off". 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 "Off".

See also the RemovedFFLineFeedCount option described in section [3.47](#).

3.33 RemoveLF

This string setting can be used to enable a File Editing function within the DOSPrint controller. When this option is enabled the DOSPrint controller removes all Line-Feed <LF> characters (0x0A) from the output print file.

This option is available for specialised data export and should be used with extreme caution. This option is documented for completeness only.

The default setting is "Off". 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 "Off".

3.34 SeparatePrintFileExtensions

This string setting is available to alter the name of the Windows files created in a spool folder:

When this option is enabled the automatically generated suffix number is kept separately for all users. Furthermore, the string "_*uuu*", where *uuu* is the User Number, is appended to the file prefix. For example, consider the file names generated if the following users print the same file in the following order: user 4; user 7; user 3; user 7 prints the file again:

With "SeparatePrintFileExtensions=Off" the following files will be created:

<i>fixedname.001</i>	File printed by user 4
<i>fixedname.002</i>	First file printed by user 7
<i>fixedname.003</i>	File printed by user 3
<i>fixedname.004</i>	Second file printed by user 7

With "SeparatePrintFileExtensions=On" the following files will be created:

<i>fixedname_004.001</i>	File printed by user 4
<i>fixedname_007.001</i>	First file printed by user 7
<i>fixedname_003.001</i>	File printed by user 3
<i>fixedname_007.002</i>	Second file printed by user 7

The default setting is "Off". 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 "Off".

3.35 SkipPortInitialise

If this string setting is enabled the DOSPrint controller avoids calling the SetCOMPort function. This option may be required if the SetCOMPort function consistently returns an error.

The default setting is "Off". 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 "Off".

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

3.36 SuffixWrap

This string setting is only recognised by the DOSPrint controller when creating files on a Windows Spool Folder (i.e. when the "Name" option (see section [3.3](#)) specifies a Windows folder). By default, when a file suffix of ".999" is reached for a particular DOSPrint device the next print operation on that printer results in an immediate DIRECTORY FULL error. If the "SuffixWrap" option is enabled, the error is avoided and the file suffix merely wraps round to ".000" (*sic*).

The default setting is "Off". 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 "Off".

3.37 TabContract

This string setting can be used to enable a Tab Contraction/compression function within the DOSPrint controller. The "TabPosition" option (see section [3.38](#)) allows the Tab indentation level to be changed.

This option is available for specialised data export and should be used with extreme caution. This option is documented for completeness only.

The default setting is "Off". 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 "Off".

3.38 TabPosition

This value is used in conjunction with the "TabContract" option (see 3.37). When the "TabContract" option is enabled the default Tab Stop level is 8 (i.e. a <TAB> character replaces one, or more, SPACE characters up to a character number that is 0 modulo 8). The "TabPosition" option can be used to change the Tab Stop level from the default value of 8.

This option is available for specialised data export and should be used with extreme caution. This option is documented for completeness only.

The default value is 8. The value must be between 2 and 16, inclusive.

3.39 PrintViewCommand

This string setting is only recognised when the "PrintViewDirectory" option (see section [3.27](#)) is enabled. This setting can be used to execute a command **on the Global server PC** immediately after the print file has been closed and before the DOSPrint controller scans for a file in the folder specified by the "PrintViewDirectory" setting. This option is **NOT** required if the External Reformatting Program (ERP) is running continuously (e.g. as a Windows Service). This option **IS** required if the External Reformatting Program (ERP) must be invoked for every print file. Note that the ERP runs in minimised mode.

The "PrintViewCommand" setting must contain the name of the ERP together with any Command Line Parameters that it requires. Various "plug-in" variables may be inserted into the Command Line. All plug-in variables are of the form \$x (where x is an upper-case letter):

\$F Full pathname of the Windows filename created by the DOSPrint controller

The default setting is "" (i.e. no Print View Command is initiated).

Important Note 1: It is vital this setting agrees with the command line syntax of the ERP.

Important Note 2: This setting is read on every Printer Open operation. Thus, a change to the registry does not require a reload of the Global Client GLOBAL.EXE.

3.40 PrintViewAutoDelete

This string setting is only recognised when the "PrintViewDirectory" option (see section [3.27](#)) is enabled. This setting can be used to automatically delete the print file created by the DOSPrint controller after it has been transformed by the ERP. Note that if this option is enabled the "text file" created by the DOSPrint controller is also deleted if the "PrintViewTimeout" (see section [3.30](#)) period elapses.

The default setting is "Off". 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 "Off".

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

3.41 QueueScanPrinter

Despite the name, this string setting is **not** mandatory if the QueueScan 3000 interface (see Technical Note IN287.DOC) is being used. However, it **may** be required if the QueueScan 3000 interface is being used for some G-2000 reports (e.g. for the Sales Ledger V6.3 Aged Debt Report). When this option is enabled the print line is scanned for characters containing binary-zero. All binary-zero characters are replaced by SPACE's. This option is required because the QueueScan3000.EXE text-file reformatting service treats a byte of binary-zero in the text-file as an End-Of-File character.

The default setting is "Off". 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 "Off".

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

3.42 GXPdfViewer

This option can be used in conjunction with the "PrintViewDirectory" option (see section [3.27](#)) to invoke the text-file to PDF conversion option in GX. This option allows report files to be converted to, and displayed as PDF documents, **without** the need to run the QueueScan 3000 service on the server. The "GXPdfViewer" option is related to a number of other registry options:

Setting	See section	Implications for GXPdfViewer option
PrintViewDirectory	3.27	Must be specified
PrintViewExtension	3.28	Not required. Assumed to be ".pd\$".
PrintViewAddExtension	3.26	Not required. Assumed to be "On".
PrintViewAutoDelete	3.40	Recognised as normal.
PrintViewFileCopyBufferSize	3.29	Recognised as normal.
PrintViewTimeout	3.30	Recognised as normal.
PrintViewAddPrinterNumber	3.49	May be required.

The default setting is "Off". 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 "Off".

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

See Technical Note IN333 for full details of the GX PDF Printing option.

3.43 EnableAlignmentPatternSuppression

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 enables the Alignment Pattern suppression logic for a particular printer. This option is used in conjunction with two generic-printer options (see below).

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\SuppressAlignmentPatternDepth/N
..\Global\Client\Printers\SuppressAlignmentPatternDepth/NN
..\Global\Client\Printers\SuppressAlignmentPatternText/N
..\Global\Client\Printers\SuppressAlignmentPatternText/NN

```

(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"

```

The default setting is "Off". 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 "Off".

Important Note 1: This setting is 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 V3.8, or later.

3.44 GXPrintInterface

The GXPrint controller (see [IN410](#) and IN259) provides the "GX printer interface" for 32-bit applications. The "GXPrintInterface" option in the DOSPrint controller allows the "GX printer interface" to be used by 16-bit applications. The "GXPrintInterface" option is related to the "PrintViewDirectory" option (see section [3.27](#)) and a number of other registry options:

Setting	See section	Implications for GXPrintInterface option
PrintViewDirectory	3.27	Not required. Assumed to be <i>printdir</i> /temp (where <i>printdir</i> is the folder

		specified by the "Name" setting)
PrintViewExtension	3.28	Not required. Assumed to be ".gxp".
PrintViewAddExtension	3.26	Not required. Assumed to be "Off".
PrintViewAutoDelete	3.40	Recognised as normal (not normally required).
PrintViewFileCopyBufferSize	3.29	Recognised as normal (not normally required).
PrintViewTimeout	3.30	Recognised as normal (not required).
PrintViewAddPrinterNumber	3.49	Always required.
InsertFormFeedAtNewPage	3.50	May be required for some reports
InsertFormFeedAtNewPageCount	3.51	May be required for some reports

When the "GXPrintInterface" option is enabled there is **normally** no need to include any of the options in the above table.

The "GXPrintInterface" option is only recognised if the "Name" option is set to a Windows Spool Folder (see 3.3.3).

When the "GXPrintInterface" option is enabled the name of the print file created is always:

GXPRINTnnuuxxxxxxppp.GXP

where:

<i>nn</i>	Node-id in hex
<i>uu</i>	User number in hex
<i>xxxxxx</i>	Auto-incrementing number
<i>ppp</i>	Printer number (500-599)

The default setting is "Off". 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 "Off".

Important Note-1: This setting is only supported by GLOBAL.EXE V3.8b, or later.

Important Note-2: The GX Printer interface for 16-bit applications requires settings in both the GX.INI and GXIO.EXE files to customise the GX.EXE and GXIO.EXE components See section 3.44.1 & 3.44.2).

Important Note-3: An entry in the GXPRINT.INI file (within the GX folder) must be configured for each DOSPrint controller configured with the "GXPrintInterface" option. See section 5 of IN259 for further details.

3.44.1 GX.INI File Customisation

To customise a GX.EXE thin-client the following setting must be defined in the [general] section of the GX.INI file:

PrinterTempDirectory

This setting specifies the folder, on the PC running the GX.EXE thin-client, which will be used to temporarily hold the files that are sent from the Global server.

3.44.2 GXIO.INI File Customisation

To customise a GX.EXE thin-client the following settings must be defined in the [miscellaneous] section of the GXIO.INI file:

PrinterTempDirectory

This setting specifies the folder, on the PC running the GX.EXE thin-client, which will be used to temporarily hold the files that are sent from the Global server.

The value of the PrinterTempDirectory in the [miscellaneous] section of the GXIO.INI file MUST agree with the value of the PrinterTempDirectory in the [general] section of the GX.INI file.

3.45 IgnoreThisPrinter

This string setting can be set to "On" etc. to temporarily remove a specific DOSPrint printer from the Global configuration. This option is useful because it removes the printer without deleting the DOSPrint\5nn key from the registry, and thus removing all the other **printer-number** specific settings, which can remain in the registry. The DOSPrint printer can be easily re-instated by either setting IgnoreThisPrinter=Off, or by deleting the IgnoreThisPrinter setting entirely.

The default setting is "Off". 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 "Off".

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

3.46 MinimumLineLength

If this numeric setting is nonzero any line shorter than the MinimumLineLength will be suppressed entirely.

The default setting is 0, which disables the option.

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

3.47 RemovedFFLineFeedCount

This numeric setting is only recognised if the RemoveFF option (see section [3.32](#)) is enabled. It can be used to specify the number of <LF> characters that replace the <FF> character.

The default setting is 1.

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

3.48 AlwaysPrintLineWithPCBF7

Some applications write print lines with a Printer Control Byte (PCB) of -9 (#F7). This PCB is used to send the data portion of the print line to the printer directly without the removal of trailing SPACE's or the addition of a <CR> character.

In general, there are no special issues to consider when writing a print line with a PCB of #F7 to a DOSPrint printer. The only exception is when the body of the print line consists of a single character (i.e. a 3-byte print line of #F7. #41, #42 requires no special options; a 2-byte print line of #F7, #41 will require a special option).

The string setting AlwaysPrintLineWithPCBF7 **must** be set to "On" etc. to print a 2-byte print line with a PCB of -9 (#F7). If this setting is not enabled all 2-byte print lines with a PCB of -9 will be ignored. This setting is not required if all the print lines with a PCB of -9 are longer than 2 bytes.

The default setting is "Off". 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 "Off".

Important Note: This setting is only supported by GLOBAL.EXE V3.9e, or later.

3.49 PrintViewAddPrinterNumber

This string setting must be set to "On" etc. to enable some of features of the GXPDFViewer interface (see section [3.42](#)). In general, if the GXPDFViewer setting is enabled then the PrintViewAddPrinterNumber setting should also be enabled.

The default setting is "Off". 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 "Off".

Important Note: This setting is only supported by GLOBAL.EXE V3.9, or later.

3.50 InsertFormFeedAtNewPage

This string setting must be set to "On" etc. to allow some reports to paginate correctly when used with GXPDFViewer interface (see section [3.42](#)). In particular, this setting must be enabled to allow the Payslip report produced by Global Payroll to paginate correctly when converted to a PDF file.

The default setting is "Off". 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 "Off".

Important Note: This setting is only supported by GLOBAL.EXE V3.9d, or later.

3.51 InsertFormFeedAtNewPageCount

This value setting can be used in conjunction with the `InsertFormFeedAtNewPage` setting (see section [3.50](#)). By default, when the `InsertFormFeedAtNewPage` setting is enabled a new physical page break (i.e. <FF>) is inserted at each logical page break. The `InsertFormFeedAtNewPageCount` setting can be used to insert a physical page break at every *N* logical page break allowing, for example, more than a single pay-slip appearing on each page of a Global Payroll report. Typical values are 2 or 3 depending on the orientation of the PDF report (i.e. Portrait or Landscape) and the font size of the report. A value of 0 defaults to one physical page break per logical page break.

The default value is 0.

4. Registry Settings under `DOSPrint\5nn\IsoTranslations`

4.1 ISOChar[128-255]

As explained in section [3.17](#) the DOSPrint interface allows ISO character translations to be specified in the registry. This option can avoid the requirement to establish Printer Control Files if only simple character translation is required.

If the `EnableISOTranslation` option (see section [3.17](#)) is enabled the DOSPrint interface applies the translations defined in:

```
..\Global\Client\Screens\GUI\IsoTranslations\ISOchar128=#hh
to:
..\Global\Client\Screens\GUI\IsoTranslations\ISOchar255=#hh
```

For example, if the following generic ISO character translation options have been enabled:

```
..\Global\Client\Screens\GUI\IsoTranslations\ISOchar160=#81
..\Global\Client\Screens\GUI\IsoTranslations\ISOchar161=#82
..\Global\Client\Screens\GUI\IsoTranslations\ISOchar162=#83
```

and the following printer specific ISO translations have been enabled:

```
..\Global\Client\Printers\DOSPrint\500\IsoTranslations\ISOchar161=#C1
..\Global\Client\Printers\DOSPrint\501\IsoTranslations\ISOchar161=#C2
```

then the #A0 character (160 decimal) will be translated to #81 for all printers; the #A1 character (161 decimal) will be translated to #C1 for printer 500, to #C2 for printer 501 and to #82 for all other printers; the #A2 character (162 decimal) will be translated to #83 for all printers.

Note that a diagnostics option (`PrinterTranslationDiagnostics`) can be enabled to generate a dump file, `.log\PrinterTranslationDump.log`, containing all the internal printer translation tables (see Technical Note [IN401.DOC](#) for further details).

5. Registry Settings under `DOSPrint\5nn\Diagnostics`

5.1 CreateFileDiagnostics

This string setting is available to enable diagnostics to trouble-shoot problems with the Open Printer processing within the DOSPrint controller. Enabling this option may be preferable to enabling the DiagnosticDisplays (see Technical Note [IN401.DOC](#)) as the CreateFileDiagnostics option, unlike DiagnosticDisplays, writes log information "silently" to a log file and does not require any operator intervention.

The following log file is associated with this option:

.log\DOSPrintCreateFile.log

A typical log-file entry contains:

```
DOSPRINT CreateFile error 80 on unit 580 file E:\gsmnt\prints\fred.txt at Sat Dec 13 11:04:57 2003
```

The default setting is "Off". 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 "Off".

5.2 PostCloseDiagnostics

This string setting is available to enable diagnostics to trouble-shoot problems with the PostCloseProgramName (see section [3.24](#)) and PrintViewCommand (see section [3.39](#)) options.

The following log file is associated with this option:

.log\DOSPrintdiags.log

A typical log-file entry contains:

```
DOSPRINT 580: notepad E:\gsmnt\prints\test.txt at Mon Dec 15 09:17:47 2003
```

The default setting is "Off". 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 "Off".

6. Summary of Windows Spool Folder mode FileNames

A number of registry settings are available to modify the name of the Windows file created when the Windows Spool Folder mode is selected. This table summarises the rules:

Registry setting	Section	Filename convention
DynamicFileName	3.16	If the PRIFN\$ sub-routine has been called prior to the printer OPEN operation, the filename specified by the PRIFN\$ routine will be used; otherwise the following rules will apply.

PrintFileName	3.25	Filename specified by the PrintFileName registry setting and various optional variable parameters.
CreateTempFileName	3.14	The name of the file created in the Windows Spool Folder is always: Tempxxhh.txt Where xx is the Global Client node-id (in hex) and hh is the User Number (also in hex).
PooledPrinter	3.22	The name of the file created in the Windows Spool Folder is: xxxxxxpp.nnn Where xxxxxx are the first six characters of the Global print file (with any invalid characters removed); pp is the printer unit number minus 500 (e.g. 00 for printer 500; 01 for printer 501, etc.); nnn is the auto-incrementing numeric file suffix (i.e. 001, 002, to 999). However, this filename is subject to the SeparatePrintFileExtensions option see below.
FixedFileSuffix	3.19	The name of the file created in the Windows Spool Folder is: xxxxnnn.sss where xxxxx are the first 5 characters of the Global filename, nnn is an incrementing number and sss is the filename suffix specified by the "FixedFileSuffix" option. However, this filename is subject to the SeparatePrintFileExtensions option see below.
		By default, the name of the file created in the Windows Spool Folder is: xxxxxxx.nnn where xxxxxxxx are the first 8 characters of the Global filename and nnn is an incrementing number. However, this filename is subject to the SeparatePrintFileExtensions option see below.

SeparatePrintFileExtensions	3.34	<p>When this option is enabled in conjunction with the PooledPrint option (see above) the name of the file created in the Windows Spool Folder is:</p> <p style="text-align: center;"><i>xxxxxxpp_uuu.nnn</i></p> <p>Where <i>xxxxxx</i> are the first six characters of the Global print file (with any invalid characters removed), <i>pp</i> is the printer unit number minus 500 (e.g. 00 for printer 500; 01 for printer 501, etc.), <i>uuu</i> is the User Number and <i>nnn</i> is the auto-incrementing numeric file suffix (i.e. 001, 002, to 999).</p> <p>When this option is enabled in conjunction with the FixedFileSuffix option (see above) the name of the file created in the Windows Spool Folder is:</p> <p style="text-align: center;"><i>xxxxnnn_uuu.sss</i></p> <p>Where <i>xxxxx</i> are the first 5 characters of the Global filename, <i>nnn</i> is an incrementing number, <i>uuu</i> is the User Number and <i>sss</i> is the filename suffix specified by the "FixedFileSuffix" option.</p> <p>When this option is enabled with neither the PooledPrint nor FixedFileSuffix options the name of the file created in the Windows Spool Folder is:</p> <p style="text-align: center;"><i>xxxxxxxx_uuu.nnn</i></p> <p>where <i>xxxxxxxx</i> are the first 8 characters of the Global filename, <i>uuu</i> is the User Number and <i>nnn</i> is an incrementing number.</p>
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