# PRINTER MANAGEMENT OBJECTS

## MARKER CLASS
## MEDIA PATH STATION CLASS

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## ASSUMPTIONS:

- The DMTF will define a "SYSTEM" Group that corresponds to the System group within MIB-II. This will be available for all devices. It is therefore not included explicitly in this document.

- Enumerations will always provide for Other (1) and Unknown (2).

- Adding additional enumerations may be handled in three ways:
    1) Enumerations changed by altering this base document or RFC.
    2) Enumerations changed by registering with the IANA with the concurrence of the working group.
    3) Enumerations changed by registering with the IANA with no review by the working group.

  These are referred to within each object, as required, as "enum type."

Objects deleted in this document due to the new printer model were:

- prtRAMSize
- hrDeviceStatus
- hrPrinterStatus
- prtDetailStatus
- prtctrlReset
- prtctrlResetSpecial
- prtctrLineStatus
- prtctrlControlPanelLanguage

## MARKER CLASS

Start Group

Start Attribute
Name=prtMarkTech
Access=Read-only
Description="This object described the marking technology of this device. It has an enum control type of 1."
Type= start enum
Other = 1
Unknown = 2
Electrophotographic:LED = 3
Electrophotographic:Laser = 4
Electrophotographic:Other = 5
Impact:Moving_Head:Dot_Matrix:9pin = 6
Impact:Moving_Head:Dot_Matrix:24pin = 7
Impact:Moving_Head:Dot_Matrix:other = 8
Impact:Moving_Head:Fully_Formed = 9
Impact:band = 10
Impact:other = 11
Inkjet:Aqueous = 12
Inkjet:Solid = 13
Inkjet:Other = 14
Pen = 15
Thermal:Transfer = 16
Thermal:Sensitive = 17
Thermal:Diffusion = 18
Thermal:Other= 19
Electroerosion = 20
Electrostatic = 21
Photographic:Microfiche = 22
Photographic:Imagesetter = 23
Photographic:Other = 24
Ion-depositon = 24
E-beam = 26

Description="This objects contains the number of process
colors supported by the marking engine. A process color
of 1 implies monochrome. The value of this object and
prtSpotColorant cannot both be 0. A value of -1 implies
'other' or 'infinite' while a value of -2 implies 'unknown'."
End Attribute

Start Attribute
Name=prtSpotColorant
Access=Read-only
Type=Integer
Description="This objects contains the number of spot
colors supported by the marking engine. The value of
this object and prtProcessColorant cannot both be 0.
A value of -1 implies 'other' or 'infinite' while a value
of -2 implies 'unknown'."
End Attribute

Start Attribute
Name=prtMaxSpeedPrintUnits
Access=Read-only
Description="This object describes the print units used in specifying
the printing speed of the device. This object is
a part of the numerator. It has an enum control of type 1.
Type= start enum
Other = 1
Unknown = 2
Characters = 3
Lines = 4
Impressions = 5
Inches = 6
Feet = 7
Millimeters = 8
Meters = 9
Sheets = 10
end enum
End Attribute

other = 1
unknown = 2
seconds = 3
minutes = 4
hours = 5
end enum
End Attribute

Start Attribute
Name=prtMaxSpeed
Access=Read-only
Type=Integer
Description="Maximum printing speed of the engine as specified
by PrtMaxSpeedTimeUnits. A value of -1 implies 'other'
or 'unknown' while a value of -2 implies 'unknown'."
End Attribute

Start Attribute
Name-prtAddressabilityUnits
Access=Read-only
Description="This object contains the units of the denominator of
Horizontal and Vertical addressability. It has an enum
control of type 1."
Type= start enum
other = 1
unknown = 2
inches = 3
centimeters = 4
end enum
End Attribute

Start Attribute
Name=prtAddressabilityFeedDirection
Access=Read-only
Type=Integer
Description="Addressability of the engine in the feed direction per
units specified by prtAddressabilityUnits. A value
of -1 implies 'other' or 'infinite' while a value of -2

```
        Description="Addressability of the engine in the cross feed direction
                per units specified by prtAddressabilityUnits.  A value
                of -1 implies 'other' or 'infinite' while a value of -2
                implies 'unknown'."
End Attribute

Start Attribute
        Name=prtPhyMediaUnits
        Access=Read-only
        Description="This object describes the units used in specifying
                the media size.  This object has an enum control of
                type 1."
        Type= start enum
                other = 1
                unknown = 2
                0.001 inches = 3
                0.01 millimeters = 4
            end enum
End Attribute

Start Attribute
        Name=prtMaxPhyMediaFeedDir
        Access=Read-only
        Type=Integer
        Description="Maximum physical media size in the feed direction
                expressed in units specified by prtPhyMediaUnits.
                A value of -1 implies 'other' or 'infinite' while a value of -
                -2 implies 'unknown'.  A value of 0 implies unlimited."
End Attribute

Start Attribute
        Name=prtMinPhyMediaFeedDir
        Access=Read-only
        Type=Integer
        Description="Minimum physical media size in the feed direction
                expressed in units specified by prtPhyMediaUnits.
                A value of -1 implies 'other' while a value of -2 implies
                'unknown'."
```

A value of -2 implies 'unknown'. "
End Attribute

Start Attribute
Name=prtMinPhyMediaAcrossFeedDir
Access=Read-only
Type=Integer
Description="Minimum physical media size across the feed direction
expressed in units specified by prtPhyMediaUnits. A
value of -2 implies 'unknown'."
End Attribute

Start Attribute
Name=prtCounterUnits
Access=Read-only
Description="This objects contains the units that will be used by
the printer when reporting counter values. The time
units are provided for a device like a strip recorder
that does not or cannot track the physical dimensions
of the media and does not use characters, lines
or sheets. This object has an enum control of type 1."
Type= start enum
Other = 1
Unknown = 2
Characters = 3
Lines = 4
Impressions = 5
Inches = 6
Feet = 7
Millimeters = 8
Meters = 9
Sheets = 10
seconds = 11
minutes = 12
hours = 13
end enum
End Attribute

```
Start Attribute
        Name=prtPowerOnCounter
        Access=Read-only
        Type=Counter
        Description="This counter contains the count of the number of
                        units counted since the equipment was most
                        recently powered on using units as specified by
                        prtCounterUnits."
End Attribute
Start Attribute
        Name=prtDefaultOrient
        Access=Read-write
        Description="This object indicates the current orientation
                        default.  The state of this object applies to
                        to all input, all interpreters, etc. unless
                        overriden by other control.  This object has
                        enum control of type 1."
        Type= start enum
                        Other = 1
                        Unknown = 2
                        Portrait = 3
                        Reverse Portrait = 4
                        Landscape = 5
                        Reverse Landscape = 6
                end enum
End Attribute
```

## MARKER CLASS, COLORANT DETAIL SUBCLASS (optional)

```
Start Group
        Name="Printer Colorant Details"

        Start Table
        Name="PrinterColorantsTable"
        Start Attribute
                Name=prtColorantRole
                Access=Read-only
                Type= start enum
                                other = 1
                                unknown = 2
                                process = 3
                                spot = 4
                        end enum
                Description="Role played by this colorant.  This enum is
                                of control type 1.
        End Attribute

        Start Attribute
                Name=prtColorantOrder
                Access=Read-only
                Type=Integer
                Description="The ordinal number of this colorant in the
                                order in which colorants are imaged onto the
                                medium within its role."
        End Attribute

        Start Attribute
                Name=prtColorantValue
                Access=Read-only
                Type=displaystring
                Description="This identifies the name of the color using
                                the following names.  Additional names may
```

- Blue (6)
- Cyan (7)
- Magenta (8)
- Yellow (9)
- Black (10)"

End Attribute

Start Attribute
Name=prtColorantTonality
Access=Read-only
Type=Integer
Description="The object represents the distinct levels of tonality realizable by the engine. This does not cover the number of levels of tnoal difference that an interpreter can obtain by techniques such as halftoning. This object must be at least 2."
End Attribute
End Table
End Group
End Group

## MEDIA PATH STATION CLASS

```
Start Group
        Name="Media Path Station Class"

        Start Attribute
                Name=prtDuplexAvailable
                Access=Read-only
                Description="This object indicated whether the print engine is
                                capable of printing on both sides of the media.  This
                                process can be implemented by single or multiple
                                passes of the media through the engine.  This object has
                                an enum control of type 1."
                Type= start enum
                                other = 1
                                unknown = 2
                                yes = 3
                                no = 4
                        end enum
        End Attribute

        Start Attribute
                Name=prtDuplexDefault
                Access=Read-write
                Description="This object indicates the current duplexing
                                default.  The state of this object applies to
                                to all input, all interpreters, etc. unless
                                overriden by other control.  This object has
                                enum control of type 1."
                Type= start enum
                        Other = 1
                        Unknown = 2
                        Long Edge Binding = 3
                        Short Edge Binding = 4
                        None = 5
        End Attribute
```