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1  // Copyright (c) 2007 DMTF. All rights reserved.
2  // =====
3  // CIM_PrintMarker
4  // =====
5
6  [Experimental, Version ( "2.15.0" ), Description (
7      "Subunit: Marker on a printer (print device). Each marker is "
8      "characterized by marker technology, capabilities, and status.") ,
9      UMLPackagePath]
10 class CIM_PrintMarker : CIM_ManagedElement {
11
12     [Key, Description (
13         "The CreationClassName of the scoping printer. The "
14         "OutputTray is defined in the context of a CIM_Printer, "
15         "where it is hosted or to which it applies."),
16         MinLen ( 0 ), MaxLen ( 255 )]
17     string PrinterCreationClassName;
18
19     [Key, Description (
20         "An identifying name of the scoping Printer. The OutputTray "
21         "is defined in the context of a CIM_Printer, where it is "
22         "hosted or to which it applies."),
23         MinLen ( 0 ), MaxLen ( 255 ),
24         ModelCorrespondence { "CIM_Printer.PrinterName" }]
25     string PrinterName;
26
27     [Key, Description (
28         "Indicates the name of the class or the subclass used in the "
29         "creation of an instance. When used with the other key "
30         "properties of this class, it allows all instances of this "
31         "class and its subclasses to be uniquely identified."),
32         MinLen ( 0 ), MaxLen ( 255 )]
33     string CreationClassName;
34
35     [Key, Description (
36         "A unique value used by the printer to identify this marker "
37         "subunit. Although these values may change due to a major "
38         "reconfiguration of the device (e.g., the addition of new "
39         "marker sub-units to the printer), values SHOULD remain "
40         "stable across successive printer power cycles."),
41         MinValue ( 1 ), MaxValue ( 65535 ),
42         MappingStrings { "MIB.IETF|Printer-MIB.prtMarkerIndex" }]
43     uint32 Id;
44
45     [Description (
46         "The type of marking technology used for this marker "
47         "subunit."),
48         ValueMap { "1", "2", "3", "4", "5", "6", "7", "8", "9", "10",
49             "11", "12", "13", "14", "15", "16", "17", "18", "19", "20",
50             "21", "22", "23", "24", "25", "26", "27" },
51         Values { "Other", "Unknown", "ElectrophotographicLED",
52             "ElectrophotographicLaser", "ElectrophotographicOther",
53             "ImpactMovingHeadDotMatrix9pin",
54             "ImpactMovingHeadDotMatrix24pin",
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55         "ImpactMovingHeadDotMatrixOther",
56         "ImpactMovingHeadFullyFormed", "ImpactBand", "ImpactOther",
57         "InkjetAqueous", "InkjetSolid", "InkjetOther", "Pen",
58         "ThermalTransfer", "ThermalSensitive", "ThermalDiffusion",
59         "ThermalOther", "Electroerosion", "Electrostatic",
60         "PhotographicMicrofiche", "PhotographicImagesetter",
61         "PhotographicOther", "IonDeposition", "EBeam", "Typesetter" },
62     MappingStrings { "MIB.IETF|Printer-MIB.prtMarkerMarkTech",
63         "MIB.IETF|IANA-PRINTER-MIB.PrtMarkerMarkTechTC" }]
64     uint32 MarkTech;
65
66     [Description (
67         "A free-form string that describes the type of technology "
68         "when the value of the MarkTech property is equal to 1, 5, "
69         "11, 14, 19, or 24 (Other, ElectrophotographicOther, "
70         "ImpactMovingHeadDotMatrixOther, ImpactOther, InkjetOther, "
71         "ThermalOther, or PhotographicOther)."),
72     MinLen ( 0 ),]
73     string OtherMarkTech;
74
75     [Description (
76         "The unit that will be used by the printer when reporting "
77         "counter values for this marker subunit. The time units of "
78         "measure are provided for a device like a strip recorder "
79         "that does not or cannot track the physical dimensions of "
80         "the media and does not use characters, lines or sheets."),
81     ValueMap { "3", "4", "5", "6", "7", "8", "9", "11", "16", "17" },
82     Values { "TenThousandthsOfInches", "Micrometers", "Characters",
83         "Lines", "Impressions", "Sheets", "DotRow", "Hours", "Feet",
84         "Meters" },
85     MappingStrings { "MIB.IETF|Printer-MIB.prtMarkerCounterUnit",
86         "MIB.IETF|Printer-MIB.PrtMarkerCounterUnitTC" }]
87     uint32 CounterUnit;
88
89     [Description (
90         "The count of the number of units of measure counted during "
91         "the life of printer using units of measure as specified by "
92         "CIM_PrintMarker.CounterUnit."),
93     MappingStrings { "MIB.IETF|Printer-MIB.prtMarkerLifeCount",
94         "MIB.IETF|Printer-MIB.PrtMarkerCounterUnitTC" }]
95     uint32 LifeCount;
96
97     [Description (
98         "The count of the number of units of measure counted since "
99         "the equipment was most recently powered on using units of "
100        "measure as specified by CIM_PrintMarker.CounterUnit."),
101     MappingStrings { "MIB.IETF|Printer-MIB.prtMarkerPowerOnCount",
102         "MIB.IETF|Printer-MIB.PrtMarkerCounterUnitTC" }]
103     uint32 PowerOnCount;
104
105     [Description (
106         "The number of process colors supported by this marker. A "
107         "process color of 1 implies monochrome. The value of this "
108         "property and CIM_PrintMarker.SpotColorants cannot both be "

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109         "0. The value of this property must be 0 or greater."),
110         MinValue ( 0 ), MaxValue ( 65535 ),
111         MappingStrings {
112             "MIB.IETF|Printer-MIB.prtMarkerProcessColorants" }]
113     uint32 ProcessColorants;
114
115     [Description (
116         "The number of spot colors supported by this marker. The "
117         "value of this property and CIMPrintMarker.ProcessColorants "
118         "cannot both be 0. The value of this property must be 0 or "
119         "greater."),
120         MinValue ( 0 ), MaxValue ( 65535 ),
121         MappingStrings { "MIB.IETF|Printer-MIB.prtMarkerSpotColorants" }]
122     uint32 SpotColorants;
123
124     [Description (
125         "The maximum number of addressable marking positions in the "
126         "feed direction in dots per inch. A value of (-1) implies "
127         "other or infinite while a value of (-2) implies unknown."),
128         MinValue ( -2 ), MaxValue ( 2147483647 ),
129         MappingStrings {
130             "MIB.IETF|Printer-MIB.prtMarkerAddressabilityFeedDir" },]
131     sint32 AddressabilityFeedDir;
132
133     [Description (
134         "The maximum number of addressable marking positions in the "
135         "cross feed direction in dots per inch. A value of (-1) "
136         "implies other or infinite while a value of (-2) implies "
137         "unknown."),
138         MinValue ( -2 ), MaxValue ( 2147483647 ),
139         MappingStrings {
140             "MIB.IETF|Printer-MIB.prtMarkerAddressabilityXFeedDir" },]
141     sint32 AddressabilityXFeedDir;
142
143     [Description (
144         "Status: Assessment of the availability of this printer "
145         "subunit."),
146         ValueMap { "1", "2", "3", "4", "5", "6", "7" },
147         Values { "Unknown", "AvailableIdle", "AvailableStandby",
148             "AvailableActive", "AvailableBusy", "UnavailableOnRequest",
149             "UnavailableBroken" },
150         MappingStrings { "MIB.IETF|Printer-MIB.PrtSubUnitStatusTC" }]
151     uint32 StatusAvailability;
152
153     [Description (
154         "Status: If true, there are currently non-critical alerts on "
155         "this printer subunit."),
156         MappingStrings { "MIB.IETF|Printer-MIB.PrtSubUnitStatusTC" }]
157     boolean StatusNonCriticalAlerts;
158
159     [Description (
160         "Status: If true, there are currently critical alerts on "
161         "this printer subunit."),
162         MappingStrings { "MIB.IETF|Printer-MIB.PrtSubUnitStatusTC" }]
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163     boolean StatusCriticalAlerts;
164
165     [Description (
166         "Status: If true, the current state is offline on this "
167         "printer subunit."),
168         MappingStrings { "MIB.IETF|Printer-MIB.PrtSubUnitStatusTC" }]
169     boolean StatusOffline;
170
171     [Description (
172         "Status: If true, the current state is transitioning from "
173         "one value to another on this printer subunit."),
174         MappingStrings { "MIB.IETF|Printer-MIB.PrtSubUnitStatusTC" }]
175     boolean StatusTransitioning;
176 };
177
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