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1    // Copyright (c) 2007 DMTF.  All rights reserved.
2    // ===================================================================
3    // CIM_PrintInputTray
4    // ===================================================================
5
6       [Experimental, Version ( "2.15.0" ), Description (
7           "Subunit: Input tray on a printer (print device). Properties of "
8           "a device capable of providing media for input to the printing "
9           "process.") ,
10       UMLPackagePath]
11   class CIM_PrintInputTray : CIM_ManagedElement {
12
13       [Key, Description (
14           "The CreationClassName of the scoping printer. The "
15           "OutputTray is defined in the context of a CIM_Printer, "
16           "where it is hosted or to which it applies."),
17        MinLen ( 0 ), MaxLen ( 256 )]
18    string PrinterCreationClassName;
19
20       [Key, Description (
21           "An identifying name of the scoping Printer. The OutputTray "
22           "is defined in the context of a CIM_Printer, where it is "
23           "hosted or to which it applies."),
24        MinLen ( 0 ), MaxLen ( 256 ),
25        ModelCorrespondence { "CIM_Printer.PrinterName" }]
26    string PrinterName;
27
28       [Key, Description (
29           "Indicates the name of the class or the subclass used in the "
30           "creation of an instance. When used with the other key "
31           "properties of this class, it allows all instances of this "
32           "class and its subclasses to be uniquely identified."),
33        MinLen ( 0 ), MaxLen ( 256 )]
34    string CreationClassName;
35
36       [Key, Description (
37           "A unique value used by the printer to identify this input "
38           "tray subunit. Although these values may change due to a "
39           "major reconfiguration of the device (e.g., the addition of "
40           "new input tray subunits to the printer), values SHOULD "
41           "remain stable across successive printer power cycles."),
42        MinValue ( 1 ), MaxValue ( 65535 ),
43        MappingStrings { "MIB.IETF|Printer-MIB.prtInputIndex" }]
44    uint32 Id;
45
46       [Description (
47           "The type of technology (discriminated primarily according "
48           "to feeder mechanism type) employed by the input tray "
49           "subunit."),
50        ValueMap { "12", "3", "4", "5", "6", "7" },
51        Values { "Other", "Unknown", "SheetFeedAutoRemovableTray",
52           "SheetFeedAutoNonRemovableTray", "SheetFeedManual",
53           "ContinuousRoll", "ContinuousFanFold" },
54        MappingStrings { "MIB.IETF|Printer-MIB.prtInputType",
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55              "MIB.IETF|IANA-PRINTER-MIB.PrtInputTypeTC" }]
56        uint32 Type;
57
58           [Description (
59              "A free-form string that describes the type of technology "
60              "when the value of the Type property is equal to 1 (Other)."),
61            MinLen ( 0 ), MaxLen ( 255 )]
62        string OtherType;
63
64           [Description (
65              "The unit of measurement for use in calculating and relaying "
66              "capacity values for this input tray subunit."),
67            ValueMap { "1", "2", "3", "4", "8", "16", "17", "18", "19" },
68            Values { "Other", "Unknown", "TenThousandthsOfInches",
69              "Micrometers", "Sheets", "Feet", "Meters", "Items",
70            "Percent" },
71            MappingStrings { "MIB.IETF|Printer-MIB.prtInputCapacityUnit",
72              "MIB.IETF|Printer-MIB.PrtCapacityUnitTC" }]
73        unit32 CapacityUnit;
74
75           [Description (
76              "A free-form string that describes the capacity unit when "
77              "the value of the CapacityUnit property is equal to 1 "
78              "(Other)."),
79            MinLen ( 0 ), MaxLen ( 255 )]
80        string OtherCapacityUnit;
81
82           [Description (
83              "The maximum capacity of the input tray subunit in units "
84              "specified by CIM_PrintInputTray.CapacityUnit. There is no "
85              "convention associated with the media itself so this value "
86              "reflects claimed capacity. If this input tray subunit can "
87              "reliably sense this value, the value is sensed by the "
88              "printer and may not be changed by management requests; "
89              "otherwise, the value may be written (by a Remote Control "
90              "Panel or a Management Application). The value (-1) means "
91              "other and specifically indicates that the subunit places no "
92              "restrictions on this parameter. The value (-2) means "
93              "unknown."),
94            MinValue ( -2 ), MaxValue ( 2147483647 ),
95            MappingStrings { "MIB.IETF|Printer-MIB.prtInputMaxCapacity",
96              "MIB.IETF|Printer-MIB.prtInputCapacityUnit",
97              "MIB.IETF|Printer-MIB.PrtCapacityUnitTC" }]
98        sint32 MaxCapacity;
99
100          [Description (
101             "The current capacity of the input tray subunit in units "
102             "specified by CIM_PrintInputTray.CapacityUnit. If this input "
103             "tray subunit can reliably sense this value, the value is "
104             "sensed by the printer and may not be changed by management "
105             "requests; otherwise, the value may be written (by a Remote "
106             "Control Panel or a Management Application). The value (-1) "
107             "means other and specifically indicates that the subunit "
108             "places no restrictions on this parameter. The value (-2) "
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109            "means unknown. The value (-3) means that the printer knows "
110            "that at least one unit remains."),
111         MinValue ( -3 ), MaxValue ( 2147483647 ),
112         MappingStrings { "MIB.IETF|Printer-MIB.prtInputCurrentLevel",
113            "MIB.IETF|Printer-MIB.prtInputCapacityUnit",
114            "MIB.IETF|Printer-MIB.PrtCapacityUnitTC" }]
115      sint32 CurrentLevel;
116
117         [Description (
118            "Status: Assessment of the availability of this printer "
119            "subunit."),
120         ValueMap { "1", "2", "3", "4", "5", "6", "7" },
121         Values { "Unknown", "AvailableIdle", "AvailableStandby",
122            "AvailableActive", "AvailableBusy", "UnavailableOnRequest",
123            "UnavailableBroken" },
124         MappingStrings { "MIB.IETF|Printer-MIB.PrtSubUnitStatusTC" }]
125      uint32 StatusAvailability;
126
127         [Description (
128            "Status: If true, there are currently non-critical alerts on "
129            "this printer subunit."),
130         MappingStrings { "MIB.IETF|Printer-MIB.PrtSubUnitStatusTC" }]
131      boolean StatusNonCriticalAlerts;
132
133         [Description (
134            "Status: If true, there are currently critical alerts on "
135            "this printer subunit."),
136         MappingStrings { "MIB.IETF|Printer-MIB.PrtSubUnitStatusTC" }]
137      boolean StatusCriticalAlerts;
138
139         [Description (
140            "Status: If true, the current state is offline on this "
141            "printer subunit."),
142         MappingStrings { "MIB.IETF|Printer-MIB.PrtSubUnitStatusTC" }]
143      boolean StatusOffline;
144
145         [Description (
146            "Status: If true, the current state is transitioning from "
147            "one value to another on this printer subunit."),
148         MappingStrings { "MIB.IETF|Printer-MIB.PrtSubUnitStatusTC" }]
149      boolean StatusTransitioning;
150
151         [Description (
152            "The name assigned to this input tray subunit."),
153         MinLen ( 0 ), MaxLen ( 63 ),
154         MappingStrings { "MIB.IETF|Printer-MIB.prtInputName" }]
155      string AdminName;
156
157         [Description (
158            "A free-form text description of this input tray subunit in "
159            "the localization specified by "
160            "CIM_Printer.CurrentNaturalLanguage."),
161         MinLen ( 0 ), MaxLen ( 255 ),
162         MappingStrings { "MIB.IETF|Printer-MIB.prtInputDescription",
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163                 "MIB.IETF|Printer-MIB.PrtLocalizedDescriptionStringTC" }]
164          string LocalizedDescription;
165
166            [Write, Description (
167                 "This property provides the value of the declared dimension, "
168                 "in the feed direction, of the media that is (or, if empty, "
169                 "was or will be) in this input tray subunit. The feed "
170                 "direction is the direction in which the media is fed on "
171                 "this subunit. This dimension is measured in micrometers. If "
172                 "this input tray subunit can reliably sense this value, the "
173                 "value is sensed by the printer and may not be changed by "
174                 "management requests. Otherwise, the value may be changed. "
175                 "The value (-1) means other and specifically means that this "
176                 "subunit places no restriction on this parameter. The value "
177                 "(-2) indicates unknown."),
178              MinValue ( -2 ), MaxValue ( 2147483647 ),
179              MappingStrings {
180                 "MIB.IETF|Printer-MIB.prtInputMediaDimFeedDirDeclared" },]
181          sint32 MediaDimFeedDirDeclared;
182
183            [Write, Description (
184                 "This property provides the value of the declared dimension, "
185                 "in the cross feed direction, of the media that is (or, if "
186                 "empty, was or will be) in this input tray subunit. The "
187                 "cross feed direction is ninety degrees relative to the feed "
188                 "direction associated with this subunit. This dimension is "
189                 "measured in micrometers. If this input tray subunit can "
190                 "reliably sense this value, the value is sensed by the "
191                 "printer and may not be changed by management requests. "
192                 "Otherwise, the value may be changed. The value (-1) means "
193                 "other and specifically means that this subunit places no "
194                 "restriction on this parameter. The value (-2) indicates "
195                 "unknown."),
196              MinValue ( -2 ), MaxValue ( 2147483647 ),
197              MappingStrings {
198                 "MIB.IETF|Printer-MIB.prtInputMediaDimXFeedDirDeclared" },]
199          sint32 MediaDimXFeedDirDeclared;
200
201            [Write, Description (
202                 "A description of the media contained in this input tray "
203                 "subunit; This description is to be used by a client to "
204                 "format and Localize a string for display to a human "
205                 "operator. This description is not processed by the printer. "
206                 "It is used to provide information not expressible in terms "
207                 "of the other media attributes (e.g., "
208                 "CIM_PrintInputTray.MediaWeight and "
209                 "CIM_PrintInputTray.MediaType)."),
210              MinLen ( 0 ), MaxLen ( 63 ),
211              MappingStrings { "MIB.IETF|Printer-MIB.prtInputMediaName" }]
212          string MediaName;
213
214            [Write, Description (
215                 "The weight of the medium associated with this input tray "
216                 "subunit in grams / per meter squared. The value (-2) means "
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217              "unknown."),
218           MinValue ( -2 ), MaxValue ( 2147483647 ),
219           MappingStrings { "MIB.IETF|Printer-MIB.prtInputMediaWeight" }]
220      sint32 MediaWeight;
221
222         [Write, Description (
223              "The name of the type of medium associated with this input "
224              "sub unit. This name need not be processed by the printer; "
225              "it might simply be displayed to an operator."),
226           MinLen ( 0 ), MaxLen ( 63 ),
227           MappingStrings { "MIB.IETF|Printer-MIB.prtInputfMediaType" }]
228      string MediaType;
229
230         [Write, Description (
231              "The name of the color of the medium associated with this "
232              "input tray subunit using standardized string values."),
233           MinLen ( 0 ), MaxLen ( 63 ),
234           MappingStrings { "MIB.IETF|Printer-MIB.prtInputMediaColor" }]
235      string MediaColor;
236   };
237
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