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1    // Copyright (c) 2011 DMTF.  All rights reserved.
2    // ================================================================
3    //  CIM_PrintServiceSettings
4    // ================================================================
5       [Experimental, Version ( "2.29.0" ),
6        UMLPackagePath ( "CIM::Device::Printing" ),
7        Description (
8           "An instance of SettingData for a specific PrintService which "
9           "corresponds to xxx-default attributes of an IPP Printer. \n"
10          "See: Section 2.1 Printer Object in IPP/1.1 (RFC 2911). \n"
11          "See: Section 4.2 Job Template Attributes in IPP/1.1. \n"
12          "See: Section 4.4 Printer Description Attributes in IPP/1.1. \n"
13          "Note: An instance of PrintServiceSettings shall be associated "
14          "with exactly one instance of PrintService via an instance of "
15          "the ElementSettingData association." )]
16
17   class CIM_PrintServiceSettings : CIM_SettingData {
18
19          [Description (
20             "The default number of copies for each PrintJob "
21             "processed by the associated PrintService." ),
22           MinValue ( 1 ),
23           MappingStrings {
24             "RFC2911.IETF|Section 4.2.5 copies" },
25           ModelCorrespondence {
26             "CIM_PrintServiceCapabilities.Copies",
27             "CIM_PrintJob.Copies" }]
28      uint32 Copies;
29
30          [Description (
31             "The default document format (MIME type) for each PrintJob "
32             "processed by the associated PrintService." ),
33           MappingStrings {
34             "RFC2911.IETF|Section 4.4.21 document-format-default" },
35           ModelCorrespondence {
36             "CIM_PrintService.MimeTypesSupported",
37             "CIM_PrintJob.MimeTypes" }]
38      string DocumentFormat;
39
40          [Description (
41             "The default array of named finishings for each PrintJob "
42             "processed by the associated PrintService. \n"
43             "That is, the set of named finishing operations to "
44             "perform, e.g., 'staple' or 'bind'." ),
45           MappingStrings {
46             "RFC2911.IETF|Section 4.2.6 finishings" },
47           ModelCorrespondence {
48             "CIM_PrintServiceCapabilities.Finishings",
49             "CIM_PrintJob.Finishings" }]
50      string Finishings[];
51
52          [Description (
53             "The default named job hold until for each PrintJob "
54             "processed by the associated PrintService. "
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55              "That is, the named time period when the PrintJob may be "
56              "scheduled, e.g., 'night' or 'weekend'. "
57              "The value 'no-hold' indicates immediate scheduling." ),
58          MappingStrings {
59              "RFC2911.IETF|Section 4.2.2 job-hold-until" },
60          ModelCorrespondence {
61              "CIM_PrintServiceCapabilities.JobHoldUntil",
62              "CIM_PrintJob.JobHoldUntil" }]
63      string JobHoldUntil;
64
65          [Description (
66              "The default priority for each PrintJob "
67              "processed by the associated PrintService. \n"
68              "Note: Weighted scale is *opposite* to Job.Priority. \n"
69              "The value 1 indicates the lowest possible priority. \n"
70              "The value 100 indicates the highest possible priority." ),
71          MinValue ( 1 ),
72          MaxValue ( 100 ),
73          MappingStrings {
74              "RFC2911.IETF|Section 4.2.1 job-priority" },
75          ModelCorrespondence {
76              "CIM_PrintServiceCapabilities.JobPriority",
77              "CIM_PrintJob.JobPriority" }]
78      uint32 JobPriority;
79
80          [Description (
81              "The default named start/end sheets for each PrintJob "
82              "processed by the associated PrintService. \n"
83              "The value 'none' indicates no job start/end sheets. \n"
84              "The value 'standard' indicates one or more site specific "
85              "standard job sheets." ),
86          MappingStrings {
87              "RFC2911.IETF|Section 4.2.3 job-sheets" },
88          ModelCorrespondence {
89              "CIM_PrintServiceCapabilities.JobSheets",
90              "CIM_PrintJob.RequiredJobSheets" }]
91      string JobSheets;
92
93          [Description (
94              "The default named output media for each PrintJob "
95              "processed by the associated PrintService. \n"
96              "Note: Values should conform to the requirements of "
97              "PWG Media Standardized Names specification [PWG5101.1], "
98              "e.g., 'na_letter_8.5x11in' or 'custom_poster_18x36in'." ),
99          MappingStrings {
100             "PWG5101-1.PWG|Media Standardized Names",
101             "RFC2911.IETF|Section 4.2.11 media" },
102         ModelCorrespondence {
103             "CIM_PrintService.PaperTypesAvailable",
104             "CIM_PrintJob.RequiredPaperType" }]
105     string Media;
106
107         [Description (
108             "The default multiple document handling for each PrintJob "
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109              "processed by the associated PrintService. \n"
110              "That is, the named policy for the handling of finishing,"
111              "the placement of one or more input logical pages onto "
112              "output impressions, and multiple copies in a PrintJob "
113              "with two or more documents, e.g., 'single-document' "
114              "or 'single-document-new-sheet'." ),
115          MappingStrings {
116              "RFC2911.IETF|Section 4.2.4 multiple-document-handling" },
117          ModelCorrespondence {
118              "CIM_PrintServiceCapabilities.MultipleDocumentHandling",
119              "CIM_PrintServiceCapabilities.MultipleDocumentJobs",
120              "CIM_PrintJob.MultipleDocumentHandling" }]
121      string MultipleDocumentHandling;
122
123          [Description (
124              "The default number of input logical pages per impression "
125              "for a PrintJob processed by the associated PrintService. "
126              "Note: The translation, rotation, and scaling required for "
127              "values of '2' or more are implementation dependent." ),
128          MinValue ( 1 ),
129          MappingStrings {
130              "RFC2911.IETF|Section 4.2.9 number-up" },
131          ModelCorrespondence {
132              "CIM_PrintServiceCapabilities.NumberUp",
133              "CIM_PrintJob.NumberUp" }]
134      uint32 NumberUp;
135
136          [Description (
137              "The default orientation requested for each PrintJob "
138              "processed by the associated PrintService. \n"
139              "Value 'portrait' means imaged across the short edge, "
140              "with no content rotation. \n"
141              "Value 'landscape' means imaged across the long edge, "
142              "with content rotated 90 degrees anticlockwise "
143              "from 'portrait'. \n"
144              "Value 'reverse-landscape' means imaged across the long "
145              "edge, with content rotated 90 degrees clockwise "
146              "from 'portrait'. \n"
147              "Value 'reverse-portrait' means imaged across the short "
148              "edge, with content rotated 180 degrees (opposite) "
149              "from 'portrait'." ),
150          MappingStrings {
151              "RFC2911.IETF|Section 4.2.10 orientation-requested" },
152          ModelCorrespondence {
153              "CIM_PrintServiceCapabilities.OrientationRequested",
154              "CIM_PrintJob.OrientationRequested" }]
155      string OrientationRequested;
156
157          [Description (
158              "The default named output bin for each PrintJob "
159              "processed by the associated PrintService, "
160              "e.g., 'top', 'left', 'side', etc." ),
161          MappingStrings {
162              "PWG5100-2.PWG|Section 2.1 output-bin" },
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163        ModelCorrespondence {
164            "CIM_PrintServiceCapabilities.OutputBin",
165            "CIM_PrintJob.OutputBin" }]
166    string OutputBin;
167
168        [Description (
169            "The default print quality for impressions for each "
170            "PrintJob processed by the associated PrintService. \n"
171            "Value 'draft' means lowest print quality. \n"
172            "Value 'normal' means normal print quality. \n"
173            "Value 'high' means highest print quality." ),
174        MappingStrings {
175            "RFC2911.IETF|Section 4.2.13 print-quality" },
176        ModelCorrespondence {
177            "CIM_PrintServiceCapabilities.PrintQuality",
178            "CIM_PrintJob.PrintQuality" }]
179    string PrintQuality;
180
181        [Description (
182            "The default print resolution for impressions for each "
183            "PrintJob processed by the associated PrintService. \n"
184            "That is, the horizontal by vertical resolution in pixels "
185            "per inch for output impressions (sides of selected media) "
186            "separated by a lowercase 'x', e.g., print resolutions "
187            "of '300x300' and '600x1200'. \n"
188            "Horizontal resolution is defined as resolution in the "
189            "cross-feed direction, short-edge in portrait feed mode. \n"
190            "Vertical resolution is defined as resolution in the feed "
191            "direction, long-edge in portrait feed mode." ),
192        MappingStrings {
193            "RFC2911.IETF|Section 4.2.12 printer-resolution" },
194        ModelCorrespondence {
195            "CIM_PrintServiceCapabilities.Resolution",
196            "CIM_PrintJob.HorizontalResolution",
197            "CIM_PrintJob.VerticalResolution" }]
198    string Resolution;
199
200        [Description (
201            "The default imposition mode for impressions for each "
202            "PrintJob processed by the associated PrintService. \n"
203            "That is, the policy for imposing input logical pages "
204            "onto output impressions (sides of selected media). \n"
205            "Value 'one-sided' means each successive input logical "
206            "page onto the same side of consecutive sheets of media. \n"
207            "Value 'two-sided-long-edge' means each consecutive pair "
208            "of input logical pages onto front and back sides of "
209            "consecutive sheets of media, with orientation for long "
210            "edge binding \n"
211            "Value 'two-sided-short-edge' means each consecutive pair "
212            "of input logical pages onto front and back sides of "
213            "consecutive sheets of media, with orientation for short "
214            "edge binding." ),
215        MappingStrings {
216            "RFC2911.IETF|Section 4.2.8 sides" },
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```
217            ModelCorrespondence {
218                "CIM_PrintServiceCapabilities.Sides",
219                "CIM_PrintJob.Sides" }]
220        string Sides;
221
222
223    };
224
```