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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              "Complete standard values are in the IANA IPP Registry. \n"
 44              "Standard values defined in IPP/1.1 (RFC 2911) include: \n"
 45              "Value 'punch' means drill hole(s) in each Job copy. \n"
 46              "Value 'staple' means put staple(s) in each Job copy." ),
 47           MappingStrings {
 48              "RFC2911.IETF|Section 4.2.6 finishings" },
 49           ModelCorrespondence {
 50              "CIM_PrintServiceCapabilities.Finishings",
 51              "CIM_PrintJob.Finishings" }]
 52       string Finishings[];
 53
 54          [Description (
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55              "The default named job hold until for each PrintJob "
56              "processed by the associated PrintService. "
57              "That is, the named time period when the PrintJob may be "
58              "scheduled. \n"
59              "Complete standard values are in the IANA IPP Registry. \n"
60              "Additional vendor or site values may also be used. \n"
61              "Standard values defined in IPP/1.1 (RFC 2911) include: \n"
62              "Value 'night' means local night (site-specific). \n"
63              "Value 'weekend' means local weekend (site-specific). \n"
64              "Value 'no-hold' means schedule PrintJob immediately." ),
65          MappingStrings {
66              "RFC2911.IETF|Section 4.2.2 job-hold-until" },
67          ModelCorrespondence {
68              "CIM_PrintServiceCapabilities.JobHoldUntil",
69              "CIM_PrintJob.JobHoldUntil" }]
70      string JobHoldUntil;
71
72          [Description (
73              "The default priority for each PrintJob "
74              "processed by the associated PrintService. \n"
75              "Note: Weighted scale is *opposite* to Job.Priority. \n"
76              "The value 1 indicates the lowest possible priority. \n"
77              "The value 100 indicates the highest possible priority." ),
78          MinValue ( 1 ),
79          MaxValue ( 100 ),
80          MappingStrings {
81              "RFC2911.IETF|Section 4.2.1 job-priority" },
82          ModelCorrespondence {
83              "CIM_PrintServiceCapabilities.JobPriority",
84              "CIM_PrintJob.JobPriority" }]
85      uint32 JobPriority;
86
87          [Description (
88              "The default named start/end sheets for each PrintJob "
89              "processed by the associated PrintService. \n"
90              "Complete standard values are in the IANA IPP Registry. \n"
91              "Additional vendor or site values may also be used. \n"
92              "Standard values defined in IPP/1.1 (RFC 2911) include: \n"
93              "Value 'none' indicates no job start/end sheets. \n"
94              "Value 'standard' indicates one or more site-specific "
95              "standard job sheets." ),
96          MappingStrings {
97              "RFC2911.IETF|Section 4.2.3 job-sheets" },
98          ModelCorrespondence {
99              "CIM_PrintServiceCapabilities.JobSheets",
100             "CIM_PrintJob.RequiredJobSheets" }]
101     string JobSheets;
102
103         [Description (
104             "The default named output media for each PrintJob "
105             "processed by the associated PrintService. \n"
106             "Note: Values should conform to the requirements of "
107             "PWG Media Standardized Names specification [PWG5101.1], "
108             "e.g., 'na_letter_8.5x11in' or 'custom_poster_18x36in'." ),
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109              MappingStrings {
110                  "PWG5101-1.PWG|Media Standardized Names",
111                  "RFC2911.IETF|Section 4.2.11 media" },
112          ModelCorrespondence {
113                  "CIM_PrintService.PaperTypesAvailable",
114                  "CIM_PrintJob.RequiredPaperType" }]
115      string Media;
116
117          [Description (
118                  "The default multiple document handling for each PrintJob "
119                  "processed by the associated PrintService. \n"
120                  "That is, the named policy for the handling of finishing, "
121                  "the placement of one or more input logical pages onto "
122                  "output impressions, and multiple copies in a PrintJob "
123                  "with two or more documents. \n"
124                  "Complete standard values are in the IANA IPP Registry. \n"
125                  "Standard values defined in IPP/1.1 (RFC 2911) include: \n"
126                  "Value 'single-document' means apply finishing to multiple "
127                  "document sets (i.e., each copy of the PrintJob). \n"
128                  "Value 'single-document-new-sheet' means the same behavior "
129                  "as 'single-document' plus each document must start on a "
130                  "new sheet (i.e., a front side in duplex)." ),
131          MappingStrings {
132                  "RFC2911.IETF|Section 4.2.4 multiple-document-handling" },
133          ModelCorrespondence {
134                  "CIM_PrintServiceCapabilities.MultipleDocumentHandling",
135                  "CIM_PrintServiceCapabilities.MultipleDocumentJobs",
136                  "CIM_PrintJob.MultipleDocumentHandling" }]
137      string MultipleDocumentHandling;
138
139          [Description (
140                  "The default number of input logical pages per impression "
141                  "for a PrintJob processed by the associated PrintService. "
142                  "Note: The translation, rotation, and scaling required for "
143                  "values of '2' or more are implementation dependent." ),
144          MinValue ( 1 ),
145          MappingStrings {
146                  "RFC2911.IETF|Section 4.2.9 number-up" },
147          ModelCorrespondence {
148                  "CIM_PrintServiceCapabilities.NumberUp",
149                  "CIM_PrintJob.NumberUp" }]
150      uint32 NumberUp;
151
152          [Description (
153                  "The default orientation requested for each PrintJob "
154                  "processed by the associated PrintService. \n"
155                  "Complete standard values are in the IANA IPP Registry. \n"
156                  "Standard values defined in IPP/1.1 (RFC 2911) include: \n"
157                  "Value 'portrait' means imaged across the short edge, "
158                  "with no content rotation. \n"
159                  "Value 'landscape' means imaged across the long edge, "
160                  "with content rotated 90 degrees anticlockwise "
161                  "from 'portrait'. \n"
162                  "Value 'reverse-landscape' means imaged across the long "
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163                 "edge, with content rotated 90 degrees clockwise "
164                 "from 'portrait'. \n"
165                 "Value 'reverse-portrait' means imaged across the short "
166                 "edge, with content rotated 180 degrees (opposite) "
167                 "from 'portrait'." ),
168             MappingStrings {
169                 "RFC2911.IETF|Section 4.2.10 orientation-requested" },
170             ModelCorrespondence {
171                 "CIM_PrintServiceCapabilities.OrientationRequested",
172                 "CIM_PrintJob.OrientationRequested" }]
173         string OrientationRequested;
174
175         [Description (
176                 "The default named output bin for each PrintJob "
177                 "processed by the associated PrintService. \n"
178                 "Complete standard values are in the IANA IPP Registry. \n"
179                 "Additional vendor or site values may also be used. \n"
180                 "Standard values defined in PWG 5100.2 include: \n"
181                 "Value 'top' means the output bin that, when facing the "
182                 "device, is best identified as the top bin. \n"
183                 "Value 'side' means the output bin that, when facing the "
184                 "device, is best identified as the side bin." ),
185             MappingStrings {
186                 "PWG5100-2.PWG|Section 2.1 output-bin" },
187             ModelCorrespondence {
188                 "CIM_PrintServiceCapabilities.OutputBin",
189                 "CIM_PrintJob.OutputBin" }]
190         string OutputBin;
191
192         [Description (
193                 "The default print quality for impressions for each "
194                 "PrintJob processed by the associated PrintService. \n"
195                 "Complete standard values are in the IANA IPP Registry. \n"
196                 "Standard values defined in IPP/1.1 (RFC 2911) include: \n"
197                 "Value 'draft' means lowest print quality. \n"
198                 "Value 'normal' means normal print quality. \n"
199                 "Value 'high' means highest print quality." ),
200             MappingStrings {
201                 "RFC2911.IETF|Section 4.2.13 print-quality" },
202             ModelCorrespondence {
203                 "CIM_PrintServiceCapabilities.PrintQuality",
204                 "CIM_PrintJob.PrintQuality" }]
205         string PrintQuality;
206
207         [Description (
208                 "The default print resolution for impressions for each "
209                 "PrintJob processed by the associated PrintService. \n"
210                 "That is, the horizontal by vertical resolution in pixels "
211                 "per inch for output impressions (sides of selected media) "
212                 "separated by a lowercase 'x', e.g., print resolutions "
213                 "of '300x300' and '600x1200'. \n"
214                 "Horizontal resolution is defined as resolution in the "
215                 "cross-feed direction, short-edge in portrait feed mode. \n"
216                 "Vertical resolution is defined as resolution in the feed "
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217                "direction, long-edge in portrait feed mode." ),
218            MappingStrings {
219                "RFC2911.IETF|Section 4.2.12 printer-resolution" },
220            ModelCorrespondence {
221                "CIM_PrintServiceCapabilities.Resolution",
222                "CIM_PrintJob.HorizontalResolution",
223                "CIM_PrintJob.VerticalResolution" }]
224       string Resolution;
225
226           [Description (
227                "The default imposition mode for impressions for each "
228                "PrintJob processed by the associated PrintService. \n"
229                "That is, the policy for imposing input logical pages "
230                "onto output impressions (sides of selected media). \n"
231                "Complete standard values are in the IANA IPP Registry. \n"
232                "Standard values defined in IPP/1.1 (RFC 2911) include: \n"
233                "Value 'one-sided' means each successive input logical "
234                "page onto the same side of consecutive sheets of media. \n"
235                "Value 'two-sided-long-edge' means each consecutive pair "
236                "of input logical pages onto front and back sides of "
237                "consecutive sheets of media, with orientation for long "
238                "edge binding \n"
239                "Value 'two-sided-short-edge' means each consecutive pair "
240                "of input logical pages onto front and back sides of "
241                "consecutive sheets of media, with orientation for short "
242                "edge binding." ),
243            MappingStrings {
244                "RFC2911.IETF|Section 4.2.8 sides" },
245            ModelCorrespondence {
246                "CIM_PrintServiceCapabilities.Sides",
247                "CIM_PrintJob.Sides" }]
248       string Sides;
249
250
251   };
252
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