ČESKÁ TECHNICKÁ NORMA

Informační technologie – Textové a kancelářské systémy – Aplikace pro tisk dokumentů (DPA) – Část 1: Definice a procedury abstraktní služby

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Podle zákona č. 22/1997 Sb. smějí být české technické normy rozmnožovány a rozšířovány jen se souhlasem Českého normalizačního institutu.
Information technology — Text and office systems —
Document Printing Application (DPA) —

Part 1:
Abstract service definition and procedures

Technical Corrigendum 2 to International Standard ISO/IEC 10175-1:1996 was prepared by Joint Technical Committee ISO/IEC JTC 1, Information technology, Subcommittee SC 33, Distributed application services.

Page 99
Subclause 9.1.5

Add the new subclause:

9.1.5.56 OctetString and OctetStringSyntax

Attribute value types that encode ordered sequences of octets (i.e., 8-bit bytes) employ this generic syntax or data type in their definitions.

OctetString ::= OCTET STRING (SIZE(0..ub-octet-string))

octetStringSyntax ATTRIBUTE-SYNTAX

OctetString

MATCHES FOR EQUALITY SUBSTRINGS

::= id-syn-octet-string
Subclause 9.2.1.12

Insert a new paragraph prior to last paragraph in 9.2.1.12:

If the client specifies the **initial-value-job** attribute with a value of **none** (i.e., id-val-generic-none) the server shall not use any initial-value-job object to construct the job object during print-job submission.

Subclause 9.2.8.2

Revise the first paragraph of 9.2.8.2 as follows:

This attribute identifies the reason or reasons that the job is in the current state, and may supply additional information about the status of the job. The server shall indicate the particular reason(s) by setting the value of the job-state-reasons attribute. When the job is not in a state for which one of the job-state-reasons applies, the server shall set the value of the job-state-reasons attribute to the empty set.

At the end of the table on page 129, add the following table entries:

<table>
<thead>
<tr>
<th>cancellationReason</th>
<th>id-val</th>
<th>description</th>
</tr>
</thead>
<tbody>
<tr>
<td>cancelled-by-shutdown</td>
<td>id-val-reasons-cancelled-by-shutdown</td>
<td>The job was cancelled because the server shut down before completing the job.</td>
</tr>
<tr>
<td>printer-unavailable</td>
<td>id-val-reasons-printer-unavailable</td>
<td>This job was aborted by the system because the printer is currently unable to accept jobs. This reason is used in conjunction with the reason aborted-by-system.</td>
</tr>
<tr>
<td>wrong-printer</td>
<td>id-val-reasons-wrong-printer</td>
<td>This job was aborted by the system because the printer is unable to handle this particular job. This reason is used in conjunction with the reason aborted-by-system.</td>
</tr>
<tr>
<td>bad-job</td>
<td>id-val-reasons-bad-job</td>
<td>This job was aborted by the system because this job has a major problem. This reason is used in conjunction with the reason aborted-by-system.</td>
</tr>
<tr>
<td>job-interrupted-by-printer-failure</td>
<td>id-val-reasons-job-interrupted-by-printer-failure</td>
<td>The printer failed while the job was printing. The server is keeping the job in the paused state until an operator can determine what to do with the job.</td>
</tr>
<tr>
<td>cascaded</td>
<td>id-val-reasons-cascaded</td>
<td>The server has transmitted all of the job's job and document attributes and data to another server.</td>
</tr>
<tr>
<td>deleted-by-administrator</td>
<td>id-val-reasons-deleted-by-administrator</td>
<td>The administrator has deleted the job.</td>
</tr>
<tr>
<td>discard-time-arrived</td>
<td>id-val-reasons-discard-time-arrived</td>
<td>The job has been deleted due to the fact that the time specified by the job's job-discard-time attribute has arrived.</td>
</tr>
<tr>
<td>pre-processing-failed</td>
<td>id-val-reasons-pre-processing-failed</td>
<td>A pre-processing action failed while preparing the job for processing; the job may or not be progressed to the processing state, depending on the nature of the failure and other job parameters.</td>
</tr>
<tr>
<td>post-processing-failed</td>
<td>id-val-reasons-post-processing-failed</td>
<td>A post-processing action failed while trying to log accounting attributes for the job; the job has been placed into the retained state for a system-defined period of time, to enable the administrator to examine it, resubmit it, etc.</td>
</tr>
<tr>
<td>submission-interrupted</td>
<td>id-val-reasons-submission-interrupted</td>
<td>The job was not completely submitted for some reason (i.e., the value of the <strong>job-submission-complete</strong> element was <strong>FALSE</strong> in the last print-request received from the client for the job); the possible causes include: (1) the server has crashed before the job was closed by the client, (2) the server or the document transfer method has crashed in some non-recoverable way before the document data was entirely transferred to the server, (3) the client crashed or failed to close the job before the time-out period.</td>
</tr>
</tbody>
</table>
### Table 1

<table>
<thead>
<tr>
<th>Attribute Description</th>
<th>ID Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>max-job-fault-count-exceeded</td>
<td>id-val-reasons-max-job-fault-count-exceeded</td>
</tr>
<tr>
<td>job-outgoing</td>
<td>id-val-reasons-job-outgoing</td>
</tr>
<tr>
<td>device-stopped-partly</td>
<td>id-val-reasons-device-stopped-partly</td>
</tr>
<tr>
<td>device-stopped</td>
<td>id-val-reasons-device-stopped</td>
</tr>
<tr>
<td>job-interpreting</td>
<td>id-val-reasons-job-interpreting</td>
</tr>
<tr>
<td>job-printing</td>
<td>id-val-reasons-job-printing</td>
</tr>
<tr>
<td>service-offLine</td>
<td>id-val-reasons-service-offLine</td>
</tr>
<tr>
<td>job-canceled-at-device</td>
<td>id-val-reasons-job-cancelled-at-device</td>
</tr>
<tr>
<td>job-resubmitted-by-user</td>
<td>id-val-reasons-job-resubmitted-by-use</td>
</tr>
<tr>
<td>job-resubmitted-by-operator</td>
<td>id-val-reasons-job-resubmitted-by-operator</td>
</tr>
<tr>
<td>job-resubmission-completed</td>
<td>id-val-reasons-job-resubmission-completed</td>
</tr>
</tbody>
</table>

The job has faulted several times and has exceeded the administratively defined fault-count limit.

The server is transmitting the job to the output device.

One or more, but not all, of the devices to which the job is assigned are stopped. If all of the devices are stopped (or the only device is stopped), the device-stopped reason shall be used.

The device(s) to which the job is assigned is (are all) stopped.

The device to which the job is assigned is interpreting the document data.

The output device to which the job is assigned is marking media. This attribute is useful for servers and output devices which spend a great deal of time processing (1) when no marking is happening and then want to show that marking is now happening or (2) when the job is in the process of being cancelled or aborted while the job remains in the processing state, but the marking has not yet stopped so that impression or sheet counts are still increasing for the job.

The service or document transform is off-line and accepting no jobs. All pending jobs are put into the Held state. This situation could occur if the service's or document transform's input is impaired or broken.

The job was cancelled by an unidentified local user, i.e., a user at a console at the device.

The job was resubmitted at the request of the user.

The job was resubmitted at the request of the user, possibly in the process of moving a queue of jobs.

The job has been completely resubmitted; note that execution of the new job instance may not have finished yet.

---

**Page 167**

### Subclause 9.3.2.24

Insert a new paragraph at end of 9.3.2.24:

If the client specifies the `initial-value-document` attribute with a value of `none` (i.e., id-val-generic-none) the server shall not use any initial-value-document object to construct the document object during print-job submission.

---

**Page 180**

### Subclause 9.3.5

At the bottom of page 180, add the new subclause 9.3.5.6:

### 9.3.5.6 Document-state-message

Attribute values of this type shall contain human readable text information about a document’s state. This message be used primarily when a document has been completed with errors or has been aborted.

```
document-state-message ATTRIBUTE
  WITH ATTRIBUTE-SYNTAX errorMessageSyntax
  SINGLE VALUE
  ::= id-att-document-state-message
```
Subclause 9.6.1

On page 219, at the end of 9.6.1, add the following text and table:

The following standard values are defined for postcard media:

<table>
<thead>
<tr>
<th>id-val</th>
<th>Medium Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>100x148-postcard</td>
<td>Specifies the Hagaki postcard medium</td>
</tr>
<tr>
<td>148x200-postcard</td>
<td>Specifies the Oufuku-Hagaki postcard medium</td>
</tr>
</tbody>
</table>

Subclause 9.6.4

On page 220, replace the last four rows of the table with the following:

<table>
<thead>
<tr>
<th>id-val</th>
<th>Medium Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>tab-stock</td>
<td>Media with tabs</td>
</tr>
<tr>
<td>multi-part-form</td>
<td>Form medium composed of multiple layers not pre-attached to one another; each sheet may be drawn separately from an input source</td>
</tr>
<tr>
<td>labels</td>
<td>Label-stock</td>
</tr>
<tr>
<td>multi-layer</td>
<td>Form medium composed of multiple layers which are pre-attached to one another, e.g. for use with impact printers</td>
</tr>
<tr>
<td>drilled</td>
<td>Media that is pre-drilled</td>
</tr>
<tr>
<td>coated</td>
<td>Media having a special coating</td>
</tr>
<tr>
<td>preprinted</td>
<td>Media that has printing on it prior to being loaded into the printer</td>
</tr>
<tr>
<td>recycled</td>
<td>Media that has been manufactured using recycled material</td>
</tr>
<tr>
<td>cover</td>
<td>Heavy-weight media intended for use as document covers</td>
</tr>
<tr>
<td>postcard</td>
<td>Heavy-weight media intended for use as postal cards</td>
</tr>
</tbody>
</table>

Subclause 9.6.5

On page 223, at the end of 9.6.5, add the following table:

<table>
<thead>
<tr>
<th>id-val</th>
<th>Medium Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>100x148-postcard</td>
<td>Specifies the Hagaki postcard size: 100mm x 148mm</td>
</tr>
<tr>
<td>148x200-postcard</td>
<td>Specifies the Oufuku-Hagaki postcard size: 148mm x 200mm</td>
</tr>
</tbody>
</table>
Page 224

Subclause 9.6.7

On page 224 add the following five lines to the end of the table at the top of the page:

<table>
<thead>
<tr>
<th>ivory</th>
<th>id-val-medium-colour-ivory</th>
<th>Ivory colour</th>
</tr>
</thead>
<tbody>
<tr>
<td>beige</td>
<td>id-val-medium-colour-beige</td>
<td>beige colour</td>
</tr>
<tr>
<td>red</td>
<td>id-val-medium-colour-red</td>
<td>red colour</td>
</tr>
<tr>
<td>grey</td>
<td>id-val-medium-colour-grey</td>
<td>grey colour</td>
</tr>
<tr>
<td>orange</td>
<td>id-val-medium-colour-orange</td>
<td>orange colour</td>
</tr>
</tbody>
</table>

Page 283

Annex A

Following the line "id-syn-name-or-oid-sequence", assign an OID value for `octetStringSyntax`:

\[
id-syn-octet-string \quad ID ::= \{ id-syn, 163 \}
\]

Page 288

At the end of the list headed "-- document-status --", assign the OID value to the new attribute:

\[
id-att-document-state-message \quad ID ::= \{ id-oc-document, 22 \}
\]

Page 301

Following the entry for `id-val-reasons-logfile-transferring`, assign OID values to the new attribute values:

\[
\begin{align*}
\text{id-val-reasons-cancelled-by-shutdown} & \quad ID ::= \{ id-vc-reasons, 13 \} \\
\text{id-val-reasons-printer-unavailable} & \quad ID ::= \{ id-vc-reasons, 14 \} \\
\text{id-val-reasons-wrong-printer} & \quad ID ::= \{ id-vc-reasons, 15 \} \\
\text{id-val-reasons-bad-job} & \quad ID ::= \{ id-vc-reasons, 16 \} \\
\text{id-val-reasons-job-interrupted-by-printer-failure} & \quad ID ::= \{ id-vc-reasons, 17 \} \\
\text{id-val-reasons-cascaded} & \quad ID ::= \{ id-vc-reasons, 18 \} \\
\text{id-val-reasons-deleted-by-administrator} & \quad ID ::= \{ id-vc-reasons, 19 \} \\
\text{id-val-reasons-discard-time-arrived} & \quad ID ::= \{ id-vc-reasons, 21 \} \\
\text{id-val-reasons-pre-processing-failed} & \quad ID ::= \{ id-vc-reasons, 22 \} \\
\text{id-val-reasons-post-processing-failed} & \quad ID ::= \{ id-vc-reasons, 23 \} \\
\text{id-val-reasons-submission-interrupted} & \quad ID ::= \{ id-vc-reasons, 24 \} \\
\text{id-val-reasons-max-job-fault-count-exceeded} & \quad ID ::= \{ id-vc-reasons, 25 \} \\
\text{id-val-reasons-job-outgoing} & \quad ID ::= \{ id-vc-reasons, 26 \} \\
\text{id-val-reasons-device-stopped-partly} & \quad ID ::= \{ id-vc-reasons, 27 \} \\
\text{id-val-reasons-device-stopped} & \quad ID ::= \{ id-vc-reasons, 28 \} \\
\text{id-val-reasons-job-interpreting} & \quad ID ::= \{ id-vc-reasons, 29 \} \\
\text{id-val-reasons-job-printing} & \quad ID ::= \{ id-vc-reasons, 30 \} \\
\text{id-val-reasons-service-offLine} & \quad ID ::= \{ id-vc-reasons, 31 \} \\
\text{id-val-reasons-job-canceled-at-device} & \quad ID ::= \{ id-vc-reasons, 32 \} \\
\text{id-val-reasons-job-resubmitted-by-user} & \quad ID ::= \{ id-vc-reasons, 33 \} \\
\text{id-val-reasons-job-resubmitted-by-operator} & \quad ID ::= \{ id-vc-reasons, 34 \} \\
\text{id-val-reasons-job-resubmission-completed} & \quad ID ::= \{ id-vc-reasons, 35 \}
\end{align*}
\]

Page 305

Revise the five lines on page 305 at the bottom to read:

\[
\begin{align*}
\text{id-val-medium-executive-white} & \quad ID ::= \{ id-vc-medium, 170 \} \\
\text{id-val-medium-folio-white} & \quad ID ::= \{ id-vc-medium, 171 \} \\
\text{id-val-medium-invoice-white} & \quad ID ::= \{ id-vc-medium, 172 \} \\
\text{id-val-medium-ledger-white} & \quad ID ::= \{ id-vc-medium, 173 \} \\
\text{id-val-medium-quarto-white} & \quad ID ::= \{ id-vc-medium, 174 \}
\end{align*}
\]
Page 306

Following the engineering media identifiers, add the lines:

```
-- postcard media --
id-val-medium-jp-100x148-postcard ID ::= { id-vc-medium 270 }
id-val-medium-jp-148x200-postcard ID ::= { id-vc-medium 271 }
```

At the bottom of page 306, assign OID values by adding the following six lines:

```
id-val-medium-type-drilled ID ::= { id-vc-medium-type 101 }
id-val-medium-type-coated ID ::= { id-vc-medium-type 102 }
id-val-medium-type-preprinted ID ::= { id-vc-medium-type 103 }
id-val-medium-type-recycled ID ::= { id-vc-medium-type 104 }
id-val-medium-type-cover-stock ID ::= { id-vc-medium-type 105 }
id-val-medium-type-postcard ID ::= { id-vc-medium-type 106 }
```

Page 308

Following the "additional miscellaneous media sizes", add the lines:

```
-- postcard sizes:
id-val-medium-size-jp-100x148-postcard ID ::= { id-vc-medium-size 110 }
id-val-medium-size-jp-148x200-postcard ID ::= { id-vc-medium-size 111 }
```

On page 308, assign OID values by adding the following five lines to the end of the list under the heading "medium-colour":

```
id-val-medium-colour-ivory ID ::= { id-vc-medium-colour 8 }
id-val-medium-colour-beige ID ::= { id-vc-medium-colour 9 }
id-val-medium-colour-red ID ::= { id-vc-medium-colour 10 }
id-val-medium-colour-grey ID ::= { id-vc-medium-colour 11 }
id-val-medium-colour-orange ID ::= { id-vc-medium-colour 12 }
```

Page 340

Annex C

Following the line:

```
id-syn-document-content,
```

insert the OID import line:

```
id-att-document-state-message,
```

Page 341

Following the line "id-syn-object-identifier-sequence" import the OID name:

```
id-syn-octet-string,
```

Page 354

Just before the line "-- 8.1.2 Operation Attributes", insert the syntax definitions for octet-string and octet-string-syntax:

```
-- 9.1.5.56 OctetString and OctetStringSyntax
```
OctetString ::= OCTET STRING (SIZE(0..ub-octet-string))
octetStringSyntax ATTRIBUTE-SYNTAX
  OctetString
    MATCHES FOR EQUALITY SUBSTRINGS
  ::= id-syn-octet-string

Page 380

Following the attribute definition for current-page-order, insert the following attribute definition:

---*** 9.3.5.6. Document-state-message
document-state-message ATTRIBUTE
  WITH ATTRIBUTE-SYNTAX errorMessageSyntax
  SINGLE VALUE
  ::= id-att-document-state-message
U p o z o r n ě n í: Změny a doplňky, jakož i zprávy o nově vydaných normách jsou uveřejňovány ve Věstníku Úřadu pro technickou normalizaci, metrologii a státní zkušebnictví.

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