ČESKÁ TECHNICKÁ NORMA

Informační technologie – Textové a kancelářské systémy – Aplikace pro tisk dokumentů (DPA) – Část 1: Definice a procedury abstraktní služby
Information technology — Text and office systems — Document Printing Application (DPA) —

Part 1: Abstract service definition and procedures

TECHNICAL CORRIGENDUM 3

Technologies de l'information — Bureautique — Application impression de documents (DPA) —

Partie 1: Définition de service abstrait et procédures

RECTIFICATIF TECHNIQUE 3

Technical Corrigendum 3 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 41

Subclause 8.1.1

Delete the following two lines from subclause 8.1.1:

From Management Information Model (ISO/IEC 10165-4)

AttributeId
8.1.2.5 Requested-attributes

This attribute enables a client to specify a list of attributes that are to be returned from a DPA abstract-operation; the specified attributes will be included with the status attributes that are normally returned in the abstract-operation result. This is useful in those cases where a user needs information that is not normally returned by a particular server or abstract-operation.

Attributes that are specified in requested-attributes, but which are not supported by the server, or for which a value is not available, will be returned with an empty value.

If this attribute is not specified in the abstract-operation argument, the server will return the status attributes that are normally returned in the abstract-operation result. If this attribute is specified in the list-object-attributes-argument, it will be ignored.

requested-attributes ATTRIBUTE
  WITH ATTRIBUTE-SYNTAX AttributeId
  MATCHES FOR EQUALITY
  MULTI VALUE
  ::= id-att-requested-attributes

Page 44
Subclause 8.1.3
In the table in 8.1.3, replace the line:

ub-octet-string INTEGER ::= 255

with the line:

ub-octet-string INTEGER ::= 4095

Page 86
Subclause 9.1.5.9
Replace the heading line of 9.1.5.9:

9.1.5.9. Delta time and deltaSyntax

with:

9.1.5.9. DeltaTime and deltaTimeSyntax

Page 97
Subclause 9.1.5.51
Replace the first paragraph and syntax production:

Attribute value types that can specify a value as either a Cardinal or an OID (that normally names a Cardinal) employ this generic data type and syntax in this definition.

CardinalOrOid ::= CHOICE {
  cardinal-value    [0] Cardinal,
  oid-value         [1] OBJECT IDENTIFIER }

By:

Attribute value types that can specify a value as either an OID (that normally names a Cardinal or pair of Cardinals) or as a single Cardinal or pair of Cardinals employ this generic data type and syntax in this definition.

CardinalOrOid ::= CHOICE {
  cardinal-value    [0] Cardinal,
  oid-value         [1] OBJECT IDENTIFIER
  2-dimension-value {
    first-value      [0] Cardinal
    second-value     [1] Cardinal } }
Subclause 9.1.5.52

Replace the first paragraph and syntax production:

Attribute value types that can specify a value as a Cardinal and also have an OID that acts as alias for the Cardinal employ this generic data type and syntax in this definition.

\[
\text{OidCardinalMap ::= SEQUENCE } \\
\quad \text{oil-name} \quad [0] \text{OBJECT IDENTIFIER OPTIONAL,} \\
\quad \text{cardinal-value} \quad [1] \text{Cardinal }
\]

By:

Attribute value types that can specify a value as a Cardinal or pair of Cardinals and also have an OID that acts as alias for the Cardinal (or pair of Cardinals) employ this generic data type and syntax in this definition.

\[
\text{OidCardinalMap ::= SEQUENCE } \\
\quad \text{oil-name} \quad [0] \text{OBJECT IDENTIFIER OPTIONAL,} \\
\quad \text{first-value} \quad [1] \text{Cardinal,} \\
\quad \text{second-value} \quad [2] \text{Cardinal OPTIONAL }
\]

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Subclause 9.2.1.2

Replace subclause 9.2.1.2 with the following:

9.2.1.2 Job-identifiers-on-printers

The \text{Job-identifiers-on-printers} attribute is intended to replace the earlier attribute \text{job-identifier-on-printer}, which is now deprecated. The new form of the attribute permits a job to be split across multiple printers, without losing the identity of the job on each separate printer. The earlier version of the attribute only provided for a single job-identifier to be passed, so if the job was split among multiple printers, the identities of the subjobs could be lost or ambiguous.

9.2.1.2.1 Job-identifiers-on-printers attribute

This attribute can contain a unique job-identifier for this job on each assigned printer or next server downstream, and it shall be assigned by that printer or server.

\[
\text{JobIdentifierOnPrinter ::= SEQUENCE } \\
\quad \text{printer-name} \quad [0] \text{SimpleName,} \\
\quad \text{job-identifier} \quad [1] \text{JobIdentifier }
\]

\text{jobIdentifierOnPrinterSyntax ATTRIBUTE-SYNTAX}

\text{JobIdentifierOnPrinter}

\text{MATCHES FOR EQUALITY SET-COMPARISON SET-INTERSECTION}

\text{::= id-syn-job-identifier-on-printer}

\text{job-identifiers-on-printers ATTRIBUTE}

\text{WITH ATTRIBUTE-SYNTAX jobIdentifierOnPrinterSyntax}

\text{MULTI VALUE}

\text{::= id-att-job-identifiers-on-printers}

The value of the \text{job-identifiers-on-printers} attribute shall contain the job-identifier that the printer or the next server downstream generates at the time the server submits the job to the printer or the next server downstream. If the printer or the next server downstream does not generate its own job identifier, the server shall leave the job-identifier value unspecified (i.e., the job-identifier element shall contain a null string).

If the job is split among two or more printers, the value of \text{job-identifiers-on-printers} shall contain a job-identifier for each of the assigned printers. If a printer does not generate its own job identifier, the server shall place a null string in place of a job-identifier for that printer.

\text{NOTE – This attribute is intended for jobs submitted to other servers, such as a gateway to a legacy server, or to printers which have their own internal queue and assign their own job identifiers.}
9.2.1.2.2 Job-identifier-on-printer attribute [Deprecated]

[Temporary Note: This attribute is now deprecated, but should be supported for a limited time to enable interoperability with older DPA client and server implementations.]

This attribute provides the job-identifier for this job to uniquely identify it on the printer or next server downstream, and it shall be assigned by that printer or server.

**job-identifier-on-printer ATTRIBUTE**

```
WITH ATTRIBUTE-SYNTAX jobIdentifierSyntax
SINGLE VALUE
::= id-att-job-identifier-on-printer
```

The value of the *job-identifier-on-printer* attribute shall be the job-identifier that the printer or the next server downstream generates at the time the server submits the job to the printer or the next server downstream. If the printer or the next server downstream does not generate its own job identifier, the server shall leave the value of this attribute unspecified.

NOTE – This attribute is intended for jobs submitted to other servers, such as a gateway to a legacy server, or to printers which have their own internal queue and assign their own job identifiers.

---

**Page 119**

**Subclause 9.2.4.12**

*Replace the second entry:*

| submit-only | id-val-job-validate-submit-only | Server to determine whether or not the job would be completed without errors or warnings; no printing is requested |

*with the following table entries:*

| submit-only | id-val-job-validate-submit-only | Server to determine whether or not the job would be completed; print request parameters are to be checked but not the print datastream; no printing is requested |
| validate-datastream | id-val-job-validate-datastream | Server to determine whether or not the job would be completed; print datastream is to be checked but not the print request parameters; no printing is requested |
| validate-both | id-val-job-validate-both | Server to determine whether or not the job would be completed; both the print request parameters and the print datastream are to be checked; no printing is requested |

---

**Page 125**

**Subclause 9.2.8.1**

*Revise the first sentence to read:*

This attribute identifies the current state of the job (pending, processing, held, etc.).

---

**Page 126**

*Revise the table entry for "printing" as follows (using strikeout character formatting as shown):*

| printing | id-val-job-state-printing | The server has completed processing the job and the output device is currently printing the job on at least one printer. That is, a print engine is either printing pages of the job, or failing in its attempt to print pages of the job because of some wait state, such as, start-wait, end-wait, needs-attention, etc. The complete job state includes the detailed status represented in the printers’ printer-state attribute(s). NOTE - a system may not always be able to determine when a job is actually being printed; therefore, printing is considered a substate of the processing state, and implementation of the printing substate is optional. |
Revise the table entry for "paused" to read as follows:

| paused | id-val-job-state-paused | The job has been paused as a result of a PauseJob operation, or a printer failure has caused the server to pause the job until an operator can deal with the problem. |

Page 128

Replace Figure 9-1 on page 128 with the following figure:

![Job state transition diagram](image-url)

Figure 9-1. Job state transition diagram
Subclause 9.2.8.18
Replace the line:

```
WITH ATTRIBUTE-SYNTAX  JobIdentifierSyntax
```
with the line:

```
WITH ATTRIBUTE-SYNTAX  newJobIdentifierSyntax
```

Subclause 9.2.8

On page 138, preceding subclause 9.2.9, insert the new subclause 9.2.8.30:

```
9.2.8.30  Job-state-message
Attribute values of this type shall contain human readable text information about a job’s state. This message is used
primarily when a job has been completed with errors or has been aborted.

job-state-message ATTRIBUTE
   WITH ATTRIBUTE-SYNTAX  errorMessageSyntax
   SINGLE VALUE
   ::=  id-att-job-state-message
```

Subclause 9.3.2.8

Replace the first paragraph with the following text:

```
This attribute identifies a resolution that the server shall use as the resolution default for (the pages of) the document where
the document itself does not specify a resolution. The resolution may be specified either by one or two integer values in
dots per inch (dpi), or it may name a resolution with an OID. When two integers are specified, the first-value represents
the resolution across the feed direction of the printer, while the second-value represents the resolution along the feed
direction.
```

Subclause 9.3.2.22

Replace the text after the syntax production with the following:

```
A value of 1 for copy-count shall generate a single human perceptible copy of the electronic document. If a value of 0 is
supplied, then no print output shall be produced. This is useful when resubmitting a multi-document job if one or more
documents are to be omitted from the job output.
```

Subclause 9.4.8

In 9.4.8, just before the final paragraph, add the following paragraph:

```
Some printers may support resolutions that are not square, i.e., the values are different along the printer’s two principal
axes. In this case, both cardinal values are given; the first-value represents the resolution across the feed direction of the
printer, and the second-value represents the resolution along the feed direction.
```

Subclause 9.6.4

At the end of 9.6.4, on page 220, insert the following note:

```
NOTE - this attribute is now deprecated because the medium-type values defined do not form an orthogonal list; i.e., a
particular type of medium may possess more than one of the defined medium-type values. The multi-valued attribute
named medium-properties should be implemented instead of the medium-type attribute. However, the medium-type
values defined in this clause may be used with the new attribute medium-properties.
```
Subclause 9.6

Create and insert a new subclause to define the medium-properties attribute:

9.6.19 Medium-properties

This attribute identifies the type of this medium. (e.g. stationery, envelope, transparency, etc.)

medium-properties ATTRIBUTE
WITH ATTRIBUTE-SYNTAX objectIdentifierSyntax
MATCHES FOR EQUALITY SET-COMPARISON
MULTI VALUE
::= id-att-medium-properties

Standard values for this attribute are defined in 9.6.4.

NOTE - this attribute should be used instead of the attribute medium-type which is now deprecated.

Subclause 9.17

Replace the last sentence of clause 9.17 paragraph 1:

Attributes listed in section 9.2.6 (Access and Accounting) and 9.2.8 (Job-status) are not valid attributes for an initial-value-job object.

with the sentence:

Attributes listed in 9.2.8 (Job-status) are not valid attributes for an initial-value-job object.

Subclause 9.18

Replace the second sentence of clause 9.18, paragraph 1:

All attributes listed in clause 9.3.1, 9.3.2 (except initial-value-document), 9.3.3 (except document-content and transfer-method), and 9.3.4 are valid attributes for an initial-value-job object.

with the sentence:

All attributes listed in clause 9.3.1, 9.3.2 (except initial-value-document), 9.3.3 (except document-content), and 9.3.4 are valid attributes for an initial-value-document object; however, note that not all possible values of these attributes are valid in an initial-value-document.

Annex A

Following the entry for id-syn-ignored-attribute, assign a new OID value to the new attribute syntax:

id-syn-job-identifier-on-printer ID ::= { id-syn 64 }

Following the entry:

id-att-default-delivery-addresses ID ::= { id-oc-operation 3 }

assign the new attribute OID to the operation class:

id-att-requested-attributes ID ::= { id-oc-operation 6 }

Following the entry for id-att-current-page-order, assign new OID values as follows:

id-att-job-identifiers-on-printers ID ::= { id-oc-job 245 }

id-att-job-state-message ID ::= { id-oc-job 246 }
At the end of the list of medium object attributes, add the following attribute identifier definition:

\[
\text{id-att-medium-properties} \quad \text{ID} ::= \{ \text{id-oc-medium} \ 25 \}
\]

Following the entry:

\[
\text{id-val-job-validate-submit-only} \quad \text{ID} ::= \{ \text{id-vc-job-validate} \ 1 \}
\]

assign the two new OIDs to the job-validate class:

\[
\text{id-val-job-validate-datastream} \quad \text{ID} ::= \{ \text{id-vc-job-validate} \ 2 \}
\]
\[
\text{id-val-job-validate-both} \quad \text{ID} ::= \{ \text{id-vc-job-validate} \ 3 \}
\]

Insert the OIDs into the list of imports, in alphabetical order:

\[
\text{id-att-job-identifiers-on-printers},
\]
\[
\ldots
\]
\[
\text{id-syn-job-identifier-on-printer},
\]

Insert the attribute identifier \text{id-att-medium-properties} into the list of imports following the identifier \text{id-att-medium-identifier}.

Insert the attribute-identifier into the list of imports, in the proper alphabetical order:

\[
\text{id-att-requested-attributes},
\]

Following the line:

\[
\text{id-syn-job-password},
\]

insert the OID import line:

\[
\text{id-att-job-state-message},
\]

Replace the line:

\[
\text{---*** 9.1.5.9. Delta time and deltaSyntax}
\]

with:

\[
\text{---*** 9.1.5.9. DeltaTime and deltaTimeSyntax}
\]

Replace the definition of the \text{CardinalOrOid} datatype with the following:

\[
\text{CardinalOrOid} ::= \text{CHOICE} \{
\text{cardinal-value} \ [0] \text{Cardinal},
\text{oid-value} \ [1] \text{OBJECT IDENTIFIER}
\text{2-dimension-value} \{
\text{first-value} \ [0] \text{Cardinal}
\text{second-value} \ [1] \text{Cardinal} \}\}
\]
Replace the syntax definition of \textit{OidCardinalMap} with the following production:

\[
\text{OidCardinalMap ::= SEQUENCE }
\begin{array}{l}
\text{oid-name} [0] \text{OBJECT IDENTIFIER OPTIONAL,} \\
\text{first-value} [1] \text{Cardinal,} \\
\text{second-value} [2] \text{Cardinal OPTIONAL }
\end{array}
\]

Insert the new attribute syntax definition following the syntax definition of the \textit{default-delivery-addresses} attribute:

\[
\text{requested-attributes ATTRIBUTE}
\begin{array}{l}
\text{WITH \textit{ATTRIBUTE-SYNTAX} AttributeId} \\
\text{MATCHES FOR EQUALITY} \\
\text{MULTI VALUE}
\end{array}
::= \text{id-att-requested-attributes}
\]

Insert the new attribute and attribute syntax definitions:

Replace the line:

\[
\text{--*** 9.2.1.2. Job-identifier-on-printer}
\]

with the following:

\[
\text{--*** 9.2.1.2.1. Job-identifiers-on-printers}
\]

\[
\text{JobIdentifierOnPrinter ::= SEQUENCE }
\begin{array}{l}
\text{printer-name} [0] \text{SimpleName,} \\
\text{job-identifier} [1] \text{JobIdentifier }
\end{array}
\]

\[
\text{jobIdentifierOnPrinterSyntax \textit{ATTRIBUTE-SYNTAX}}
\begin{array}{l}
\text{JobIdentifierOnPrinter} \\
\text{MATCHES FOR EQUALITY \textit{SET-COMPARISON} \textit{SET-INTERSECTION}}
\end{array}
::= \text{id-syn-job-identifier-on-printer}
\]

\[
\text{job-identifiers-on-printers ATTRIBUTE WITH \textit{ATTRIBUTE-SYNTAX} jobIdentifierOnPrinterSyntax}
\]

\[
\text{MULTI VALUE}
::= \text{id-att-job-identifiers-on-printers}
\]

\[
\text{--*** 9.2.1.2.2. Job-identifier-on-printer}
\]

\[
\text{-- this attribute is deprecated; use job-identifiers-on-printers instead;}
\]

Replace the line:

\[
\text{WITH \textit{ATTRIBUTE-SYNTAX} JobIdentifierSyntax}
\]

with the line:

\[
\text{WITH \textit{ATTRIBUTE-SYNTAX} newJobIdentifierSyntax}
\]

At the bottom of page 368, insert the following attribute definition:

\[
\text{--*** 9.2.8.30. job-state-message}
\]

\[
\text{job-state-message ATTRIBUTE}
\begin{array}{l}
\text{WITH \textit{ATTRIBUTE-SYNTAX} errorMessageSyntax} \\
\text{SINGLE VALUE}
\end{array}
::= \text{id-att-job-state-message}
\]
Indicate that the attribute medium-type is now deprecated:

---*** 9.6.4 Medium-type [NOTE - this attribute is now deprecated;]
--- [ use medium-properties instead; see 9.6.19]

Following the syntax definition of the attribute medium-holes-diameter, add the syntax definition for the medium-properties attribute:

---*** 9.6.19 Medium-properties
   medium-properties ATTRIBUTE
   WITH ATTRIBUTE-SYNTAX objectIdentifierSyntax
   MATCHES FOR EQUALITY SET-COMPARISON
   MULTI VALUE
   ::= id-att-medium-properties

Replace the line:
ub-octet-string INTEGER ::= 255
with the line:
ub-octet-string INTEGER ::= 4095

Replace the table entry for 'printer-state-of-printers-assigned':

<table>
<thead>
<tr>
<th>printer-state-of-printers-assigned</th>
<th>job</th>
<th>job-state</th>
<th>job-states-supported</th>
</tr>
</thead>
</table>

with the table entry:

<table>
<thead>
<tr>
<th>printer-state-of-printers-assigned</th>
<th>job</th>
<th>printer-state</th>
<th>printer-states-supported</th>
</tr>
</thead>
</table>
Upozornění: 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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