The TWAIN 2.1 Specification includes the following changes and features from TWAIN 2.0 Specification:

Adds these new triplets:

- DG_CONTROL / DAT_IDENTITY / MSG_SET

  to allow applications to set the default datasource.
- DG_CONTROL / DAT_STATUSUTF8 / MSG_GET

  to allow the application to get a localized string of the current status.
- DG_CONTROL / DAT_CAPABILITY / MSG_GETHELP

  to allow the application to get a localized string that describes a capability.
- DG_CONTROL / DAT_CAPABILITY / MSG_GETLABEL

  to allow the application to get a localized string that is the name of a capability.
- CONTROL / DAT_CAPABILITY / MSG_GETLABELENUM

  to allow the application to get localized strings that names the possible values of enumeration capability.

Adds these new Capabilities:

- ICAP_AUTOMATICCROPUSESFRAME

  to improve the performance of the driver by reducing the amount of data captured when using auto crop and frames.
- ICAP_AUTOMATICLENGTHDETECTION

  to crop image to length of page.
- CAP_AUTOMATICSENSEMEDIUM

  to allow the scanner to switch between feeder and flatbed depending if paper is in feeder.
- ICAP_AUTOSIZE

  to force the output image dimensions to match Supported Sizes.
- CAP_CUSTOMINTERFACEGUID

  to uniquely identify a Data Source
- ICAP_SUPPORTEDEXTIMAGEINFO

  to identify all supported Extended Image Info items including Custom items.
- ICAP_AUTOMATICCOLORENABLED

  to enable Automatic Color detection.
- ICAP_AUTOMATICCOLORNONCOLORPIXELTYPE

  to identity the non-color pixel type when color is not detected.
- ICAP_COLORMANAGEMENTENABLED

  to output image data that could be considered "raw".

Adds the following defines:

- TWSS_MAXSIZE for ICAP_SUPPORTEDSIZES to scan the entire area.
- TWCC_NOMEDIA to Condition codes.
- TWEI_MAGDATA , TWEI_MAGDATALENGTH, and TWEI_MAGTYPE to DAT_EXTIMAGEINFO items

Clarifies what is required to be a TWAIN 2.x Application and Datasource, and how to identify them.

Adds missing information or clarify the description of the following items:

- DAT_IMAGEMEMFILEXFER
- TWEI_PAGESIDE
- TWEI_FILESYSTEMSOURCE
- TWEI_IMAGEMERGED
- TW_INFO

Clarifies that TWAIN uses UTF-8 to pass localized data back and forth between applications and sources.

Completes the removal of deprecated items from the specification.

- DAT_SETUPFILEXFER2
- DAT_SETUPAUDIOXFER
- ACAP_AUDIOFILEFORMAT
- DAT_TWUNKIDENTITY
- ICAP_XYRESOLUTIONLINKED