## 33. Image Data Frames

(1) The image data frame is used to store image data, as well as information related to the drawing of image data.

(2) Unless otherwise specified, the coordinates given in this chapter are (x, y) coordinates in units of drawing pixels (dots) on the display, with the lower left end point of the minimum horizontal rectangular area enclosing the expanded image data assumed to be the reference (0, 0) and the directions toward the right and the top inside the area assumed to be positive.

name [Image Data Frame]

| No. | Offset | Data length | Data type | Item name | Remarks | Classification |
|---|---|---|---|---|---|---|
| 1 | 0 | B1 | | Image Management Distribution Header | | a |
| 2 | 01 | B2 | | Palette Set Data Frame | | c |
| 3 | O2 | B3 | | Color Table Data Frame | | c |
| 4 | O3 | B4 | | Image Data Frame | | c |
| 5 | O4 | B5 | | Image Service Information Data Frame | | c |

### 33.1 Image Management Distribution Header

name [Image Management Distribution Header]

| No. | Offset | Data length | Data type | Item name | Remarks | Classification |
|---|---|---|---|---|---|---|
| 1 | 0 | 2 | SWS | Image Management Distribution Header Size | (1) | a |
| 2 | 2 | 2 | SWS | Pallet Set Record Size | (2) | a |
| 3 | 4 | 2 | N | Top Palette Set ID | (3) | a |
| 4 | 6 | 2 | N | Top Color Table ID | (4) | a |
| 5 | 8 | 2 | N | Top Image Data ID | (5) | a |
| 6 | 10 | 4 | D | Offset to the Palette Set Data Frame | | b |
| 7 | 14 | 2 | SWS | Pallet Set Data Frame Size | | b |
| 8 | 16 | 4 | D | Offset to the Color Table Data Frame | | b |
| 9 | 20 | 2 | SWS | Color Table Data Frame Size | | b |
| 10 | 22 | 4 | D | Offset to the Image Data Frame | | b |
| 11 | 26 | 4 | SWS | Image Data Frame Size | | b |
| 12 | 30 | 4 | D | Offset to the Image Service Information Data Frame | | b |
| 13 | 34 | 4 | SWS | Image Service Information Data Frame Size | | b |

(1) Image Management Distribution Header Size

If none of the entities is present except a image management distribution header, 2 is set, with item 2 and subsequent ones being omitted.

(2) Pallet Set Record Size

The record size of a single record in the palette set is indicated in SWS.

(3) Top Palette Set ID

The ID of the top palette set to be managed with the management information is indicated.

(4) Top Color Table ID

The ID of the top color table to be managed with the management information is indicated.

(5) Top Image Data ID

The ID of the top image data to be managed with the management information is indicated.

Image data is stored in the same format as that described in Section 8.7 in Chapter 8, except the image service information data frame, described below.

## 33.2 Image Service Information Data Frame

name [Image Service Information Data Frame]

| No. | Offset | Data length | Data type | Item name | Remarks | Classification |
|---|---|---|---|---|---|---|
| 1 | 0 | 2 | N | Number of Image Service Information Records | | a |
| 2 | 2 | B1 | | A Sequence of Offsets to Image Service Information Records | (1) | a |
| 3 | O1 | B2 | | A Sequence of Image Service Information Records | (2) | a |

(1) Offset to the Image Service Information Record

| No. | Offset | Data length | Data type | Item name | Remarks | Classification |
|---|---|---|---|---|---|---|
| 1 | 0 | 2 | D | Offset to the Image Service Information Record | (1) | a |

(1) The offset from the beginning of the image service information data frame to each image service information record is indicated.

The image service information record number is an array element number for identifying a record from the offset sequence, and starts with 1.

(2) Image Service Information Record

| No. | Offset | Data length | Data type | Item name | Remarks | Classification |
|---|---|---|---|---|---|---|
| 1 | 0 | 2 | N | Number of Image Service Elements | | a |
| 2 | 2 | B1 | | A Sequence of Image Service Elements | (1) | a |

(1) Image service elements are placed in the order in which they are to be drawn.

(1) Image Service Elements

| No. | Offset | Data length | Data type | Item name | Remarks | Classification |
|---|---|---|---|---|---|---|
| 1 | 0 | 2 | SWS | Size of the Applicable Image Service Element | (1) | a |
| 2 | 2 | 2 | I | X Coordinate of the Image Service Element Location | (2) | a |
| 3 | 4 | 2 | I | Y Coordinate of the Image Service Element Location | (2) | a |
| 4 | 6 | 2 | N | Image Service Element Type | (3) | a |
| 5 | 8 | 2 | N | Image Service Element ID Within the Same Type | (4) | a |
| 6 | 10 | B1 | | User Extended Field | | c |

(1) This field describes the size including the user extended field.

(2) The reference position used to display the image service element on the screen is represented in the dot coordinate system of the first image service element described in the image service information record to which that image service element belongs, with the center of the display area of the screen assumed to be (0, 0). The image service element is centered on the specified location coordinates.

(3) A value of 0 (16) indicates that the image service element is specified with a Image Data ID.

A value of 1 (16) indicates that the image service element is specified with a type code in the META definition, and is landmark data corresponding to a type code stored in parameter data. Other values are RESERVED.

(4) The setting differs depending on item 4, image service element type.

For a image data ID, the ID of the image data is set.

For a type code in the META definition, the type code is set.