SIGNATURE SERVICE

INDEX

INTRODUCTION

This documentation details the specific set of commands for signature devices. These, along with *common commands* conform the complete set of commands available for signature devices. Sometimes, certain *common commands* can be overwritten within a specific service, because they change their behavior. In the case of **Signature Service**, following commands are overwritten:

- XPEAK_COMMAND_GET_CAPABILITIES

All commands described here meet the *Xpeak* specification General Message Format

COMMANDS

XPEAK_COMMAND_CLEAR_SCREEN (0x12070002)

Version: 1207

Description:

This operation clears the full area of the device.

Result:

See Common Results

XPEAK_COMMAND_DISABLE_SIGNATURE (0x12070004)

Version: 1207

Description:

This operation cancels the signature reading process. It must be called after a *XPEAK_COMMAND_ENABLE_SIGNATURE* command.

Result:

See Common Results

XPEAK_COMMAND_ENABLE_SIGNATURE (0x12070003)

Version: 1207

Description:
 This operation starts the signature reading process.

Parameters:

- **boolean SendPenEvents**
  If this field is set to true, a *XPEAK_RESULT_PEN_PRESSED* event will be fired each time the pen presses or slides on the screen.

- **Struct SignatureArea**
  Indicates the signature area. The points which are not contained by this area will be ignored during the reading process.

  - **int X**
    X coordinate of the upper left corner, measured in pixels.

  - **int Y**
    Y coordinate of the upper left corner, measured in pixels.

  - **int Width**
    Width of the area, measured in pixels.

  - **int Height**
    Height of the area, measured in pixels.

- **Struct[] ActionAreas**
  Optional parameter to indicate the action areas defined. If this parameter is set, a *XPEAK_RESULT_AREA_PRESSED* event will be fired each time the pen touches one of the areas defined. This should be useful for defining logical buttons on the screen.

  - **long Id**
    The Id of the action area.

  - **int X**
    X coordinate of the upper left corner, measured in pixels.

  - **int Y**
    Y coordinate of the upper left corner, measured in pixels.

  - **int Width**

Width of the area, measured in pixels.

- **int Height**
  Height of the area, measured in pixels.

🗒 Result:

See Common Results

⊕ Events:

XPEAK_RESULT_AREA_PRESSED (0x1207000A) Since 1207
   This event is thrown whenever the pen presses an action area.

- **long Timestamp**
  The timestamp of the pen event.

- **long Id**
  The Id of the pressed area.

- **int X**
  X coordinate related to the area origin.

- **int Y**
  Y coordinate related to the area origin.

- **int Pressure**
  The pressure.

XPEAK_RESULT_PEN_PRESSED (0x1207000B) Since 1207
   This event is thrown whenever the pen presses the screen or slides on it and the *SendPenEvents*
   was set to true.

- **long Timestamp**
  The timestamp of the pen event.

- **int X**
  X coordinate.

- **int Y**
  Y coordinate.

- **int Pressure**
  The pressure.

XPEAK_COMMAND_GET_CAPABILITIES (0x7060017)

Version: 0706

Description:

Returns the device capabilities. Depending on them, the application behavior should be different and should be adapted to the peripheral characteristics.

Result:

- **int MaxPressure**

  Indicates the device's maximum pressure value. Pressure values returned will be in the range (1, MaxPressure).

- **int ScreenWidth**

  Indicates the device's screen horizontal resolution measured in pixels.

- **int ScreenHeight**

  Indicates the device's screen vertical resolution measured in pixels.

- **int[] ImageFormats**

  Image formats supported by the signature device. Possible values are:
    - XPEAK_GRAPHIC_FORMAT_NONE (0x706017B)
    - XPEAK_GRAPHIC_FORMAT_GIF (0x706008C)
    - XPEAK_GRAPHIC_FORMAT_BMP (0x706008D)
    - XPEAK_GRAPHIC_FORMAT_JPG (0x706008E)
    - XPEAK_GRAPHIC_FORMAT_TIF (0x706008F)
    - XPEAK_GRAPHIC_FORMAT_PCX (0x7060090)
    - XPEAK_GRAPHIC_FORMAT_PNG (0x7060091)
    - XPEAK_GRAPHIC_FORMAT_RAW (0x7060176)
    - XPEAK_GRAPHIC_FORMAT_WSQ (0x12020002)

XPEAK_COMMAND_GET_CAPABILITIES (0x7060017)

Version: 1207

Description:

Returns the device capabilities. Depending on them, the application behavior should be different and should be adapted to the peripheral characteristics.

Result:

- **int ScreenWidth**

  Indicates the device's screen horizontal resolution measured in pixels.

- **int ScreenHeight**

  Indicates the device's screen vertical resolution measured in pixels.

- **int[] ImageFormats**

  Image formats supported by the signature device. Possible values are:
  - XPEAK_GRAPHIC_FORMAT_NONE (0x706017B)
  - XPEAK_GRAPHIC_FORMAT_GIF (0x706008C)
  - XPEAK_GRAPHIC_FORMAT_BMP (0x706008D)
  - XPEAK_GRAPHIC_FORMAT_JPG (0x706008E)
  - XPEAK_GRAPHIC_FORMAT_TIF (0x706008F)
  - XPEAK_GRAPHIC_FORMAT_PCX (0x7060090)
  - XPEAK_GRAPHIC_FORMAT_PNG (0x7060091)
  - XPEAK_GRAPHIC_FORMAT_RAW (0x7060176)
  - XPEAK_GRAPHIC_FORMAT_WSQ (0x12020002)

XPEAK_COMMAND_GET_SIGNATURE (0x12070005)

Version: 1207

Description:

This operation returns the current signature. It must be called after a *XPEAK_COMMAND_ENABLE_SIGNATURE* command. This operation ends the signature reading process.

Parameters:

- **boolean GetPoints**
  If this field is set to true, the result will include an array with all the points of the signature.

- **int Format**
  The format of the returned image data. This format should be one of the list indicated in the *ImageFormats* capability, see command XPEAK_COMMAND_GET_CAPABILITIES. If the format is set to NONE, no image will be returned. The possible values are:
  - XPEAK_GRAPHIC_FORMAT_NONE (0x706017B)
  - XPEAK_GRAPHIC_FORMAT_GIF (0x706008C)
  - XPEAK_GRAPHIC_FORMAT_BMP (0x706008D)
  - XPEAK_GRAPHIC_FORMAT_JPG (0x706008E)
  - XPEAK_GRAPHIC_FORMAT_TIF (0x706008F)
  - XPEAK_GRAPHIC_FORMAT_PCX (0x7060090)
  - XPEAK_GRAPHIC_FORMAT_PNG (0x7060091)
  - XPEAK_GRAPHIC_FORMAT_RAW (0x7060176)
  - XPEAK_GRAPHIC_FORMAT_WSQ (0x12020002)

Result:

- **Base64 SignatureImage**
  Array of bytes containing the image data with the specified format.

- **Struct[] SignaturePoints**
  Array of points representing the signature.

  - **long Timestamp**
    The timestamp of the pen event.

  - **int X**
    X coordinate.

  - **int Y**
    Y coordinate.

- **int Pressure**
  The pressure.

XPEAK_COMMAND_SET_BACKGROUND_IMAGE (0x12070007)

Version: 1207

Description:

This operation sets the image to be drawn as the background of the device's screen.

Parameters:

- **int Format**

  Specifies the format of the image contained in the *Value* field. This format should be one of the list indicated in the *ImageFormats* capability. Possible values are:
  - XPEAK_GRAPHIC_FORMAT_NONE (0x706017B)
  - XPEAK_GRAPHIC_FORMAT_GIF (0x706008C)
  - XPEAK_GRAPHIC_FORMAT_BMP (0x706008D)
  - XPEAK_GRAPHIC_FORMAT_JPG (0x706008E)
  - XPEAK_GRAPHIC_FORMAT_TIF (0x706008F)
  - XPEAK_GRAPHIC_FORMAT_PCX (0x7060090)
  - XPEAK_GRAPHIC_FORMAT_PNG (0x7060091)
  - XPEAK_GRAPHIC_FORMAT_RAW (0x7060176)
  - XPEAK_GRAPHIC_FORMAT_WSQ (0x12020002)

- **Base64 Value**

  This field contains the image data, according to the specified format on the *Format* field.

Result:

See Common Results