PrintConsole

GDAPI Release Notes

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Revision History

Revision	Date	Author	Comments
	March 16, 2001	Craig Wilson	Release notes for release of GDAPI 2.0.3
	Nov 28, 2001	Craig Wilson	Release notes for release of GDAPI 3.0.0
	Jan 23, 2003	Craig Wilson	Updated the title

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1. INTRODUCTION

This document provides details of the changes that have been made to the GDAPI specification from version 2.0.0 to version 3.0.0. If you are using the GDAPI version 3.0.0 for the first time you can ignore these release notes as all of the current information is in [1].

This document also discusses changes made to the Print Console implementation of the GDAPI.

1.1 References

[1]—*Generic Device Application Programming Interface*
Version 3.0.0

[2]—*Print Console DSI of the GDAPI*

[3]—*Print Console User Documentation*—Print Console now has a comprehensive online help system. Use this for reference information and as a troubleshooting guide.

[4]—*Mini Driver User Documentation*

[5]—*Print Console Installation Guide*

[6]—*GDAPI – Multiple Data Streams*

2. CHANGES

See [1] for **full** details of changes made to the GDAPI specification.

The changes made to the GDAPI, or to Print Console to better support the GDAPI are outlined in the following sections.

2.1 Print Console Changes

Because GDAPI 3.0.0 is not backward compatible to 2.x versions of the GDAPI Print Console supports a GDAPI DLL for the 2.x specification and another for the 3.x specification. Note that the 3.x specification is a superset of the 2.x stream and that the 2.x stream will be retired. The Print Console DLLs supported in this release of Print Console are:

- PrintConsoleGdapi.dll
  Supports 2.0.2, 2.0.3 and 2.0.4
- PrintConsoleGdapi3.dll
  Supports 3.0.0

The Print Console DSI (implementation of the GDAPI) now requires a password for a raster source to connect to a device. This password is supplied via GDAPI_Authenticate().

Print Console 3.x no longer supports the following vesions of the GDAPI:

- 2.0.0 and 2.0.1

2.2 GDAPI Changes

2.2.1 Changes for GDAPI 2.0.1

Version 2.0.1 contains the following new functions:

- **GDAPI_Initialized()**
  This function returns a status of success when the GDAPI is initialized and ready for use. This function also returns the server date when it succeeds.

- **GDAPI_SetImageTransferOptions()**
  GDAPI_GetImageTransferOptions()
  These functions can effect the behavior of GDAPI_StartImageTransfer, GDAPI_SendImageData, and GDAPI_EndImageTransfer. See [1] for complete details. They allow a GDAPI client to deliver image data directly to the imaging device or via the GDAPI DLL (the default).

2.2.2 Changes for GDAPI 2.0.2

Version 2.0.2 contains the following new functions:

- **GDAPI_Authenticate()**
  This allows a Device Specific Implementation (DSI) of the GDAPI to check a password when a raster source is requesting a connection to a device. It is up to the DSI whether or not a password is required to use the GDAPI.

2.2.3 Changes for GDAPI 2.0.3

Version 2.0.3 contains the following new functions:

- **GDAPI_GetNumDefaultAttributeValues()**
  GDAPI_GetDefaultAttributeValue()
  These functions allow a GDAPI client to discover what the default values of attribute are.

- **GDAPI_DeleteCurrentAttributeValue()**
  This function allows a GDAPI client to delete an attribute value that it has previously set using the existing GDAPI_SetCurrentAttributeValue() function.

2.2.4 Changes for GDAPI 2.0.4

Version 2.0.4 contains the following new functions:

- **GDAPI_SetPrintSessionPriority()**
  This function allows a GDAPI client to set the priority of a print session that has been queued by GDAPI_QueuePrintSession.

2.2.5 Changes for GDAPI 3.0.0

Version 3.0.0 contains changes that are not backward compatible to 2.0.x versions of the GDAPI. The goals of the changes for 3.0.0 are to support the following features:

- Enable a GDAPI client to deliver multiple concurrent streams of image data to a device.
- Enable two GDAPI clients running in separate processes to collaborate on a single print session.

The primary reference for multiple data streams is [6]; the secondary reference, for details of individual functions, is [1].

A separation ID argument has been added to the following functions and callbacks; this allows multiple separations to be active at the same time.

- GDAPI_PrintSessionCallback()
- GDAPI_StartImageTransfer()
- GDAPI_SendImageData()
- GDAPI_EndImageTransfer()

The GDAPI_Connection() function now has an instance number argument; this allows two GDAPI clients running in separate processes to collaborate on a single print session.

GDAPI_Status **GDAPI_Connect**(
const wchar_t* in_rasterSourceName,
int in_instanceNumber,
GDAPI_RasterFormat in_rasterFormat);

The information provided by the DEVICE_ATTRIBUTE attribute has an additional field:

```
typedef struct
{
    wchar_t               attributeName[GDAPI_SHORT_STRING];
    GDAPI_StringId        attributeNameStringId;
    GDAPI_AttributeType   attributeType;
    GDAPI_DataScope       dataScope;
    GDAPI_DataCutOff      dataCutOff;
    GDAPI_Access          rasterSourceAccess;
    GDAPI_SelectionModel  selectionModel;

} GDAPI_AttributeInformation3;
```

The dataCutOff field indicates *when* an attribute value must be set. The dataScope field used to indicate this information; starting with GDAPI 3.0.0 this field only indicates the smallest scope that an attribute value can be set – Raster Source, Print Session or Separation.