

Technical Specifications

National Imagery Transmission Format Standard (NITFS)

NITFS CERTIFICATION

Geomatica through its Generic Database (GDB) technology is NITFS (National Imagery Transmission Format Standard) Level 2.0 and 2.1 certified.

GDB technology can directly read and write raster, vector, and other information from an extensive list of supported file formats.

The GDB NITF certified component is also available in the software development environment (ProSDK)

Certified NITF support is active in Geomatica Focus, the data visualization environment that uses GDB and supports geospatial processing and analysis.

MODULE PREREQUISITE

Certified NITF support is an add-on license to both Geomatica Core or Prime.

OFFICIAL NITFS CERTIFICATION

To view the official NITFS certification accredited to PCI Geomatics – refer to the Joint Interoperability Test Command (JITC) website:

http://jitc.fhu.disa.mil/nitf/regs2_21.htm#2049

NITFS 2.0 SPECIFICATION

Refer to the official NITFS Level 2.0 Specification documentation for compliancy details and descriptions:
<http://164.214.2.51/ntb/baseline/docs/2500a/index.html>

NITFS 2.1 SPECIFICATION

Refer to the official NITFS Level 2.1 Specification documentation for compliancy details and descriptions:
<http://164.214.2.51/ntb/baseline/docs/2500c/index.html>

NITFS FEATURE SUPPORT

Format Support	Read	Write
NITF V2.1	Yes	Yes
NITF V2.0	Yes	Yes
NITF V1.1	No	N/A
NSIF V1.1	Yes	Yes
Pixel Value Types	Read	Write
Boolean	Yes	No
Integer	Yes	Yes
Signed Integer*	Yes	No
IEEE Real*	Yes	Yes
IEEE Complex*	No	No
Annotation Segment Types	Read	Write
Bit Mapped**	Yes	No
CGM, 2301 Computer Graphics Metafile	Yes	No
CGM, 2301A Computer Graphics Metafile	Partial	No

Technical Specifications

Labels**	Yes	No
Text Segments	Read	Write
STA (Standard)	Yes	No
UT1	Yes	No
U8S	Yes	No
MTF (Message Text Format)	Partial	No
Image Segment Types	Read	Write
MONO (Monochrome)	Yes	Yes
RGB (Red, Green, Blue)	Yes	Yes
RGB/LUT (Red, Green, Blue/ Look-Up Table)	Yes	Yes
YCbCr	Yes	No
MULTI (Multiband)	Yes	Yes
NODISPLAY	No	No
POLAR	No	No
Image Compression	Read	Write
Not Compressed	Yes	Yes
JPEG Lossy, 8 bit	Yes	No
JPEG Lossy, 12 bit	Yes	No
JPEG Downsample	Yes	No

JPEG Lossless	No	No
JPEG 2000	Yes	No
Bi-Level	Partial	No
Vector Quantization	Yes	Yes
Data Extension Segments	Read	Write
TRE_OVERFLOW	Yes	No
STREAMING_FILE_HEADER	Partial	No
Controlled Extensions**	Yes	No
Registered Extensions**	Yes	No
Tagged Record Extensions	Read	Write
DIGEST GeoSDE	Partial	No
PIAE	Yes	No
IOMAPA	Partial	No
RPFDES	Partial	No
RPFHDR	Partial	No
RPFIMG	Partial	No
ICHIPB	Partial	No
RPC00B	Yes	No
STDIDC	Partial	No

Technical Specifications

USE00A	Partial	No
--------	---------	----

**NITF 2.0 Feature

*NITF 2.1 Feature

NITFS COMPLEXITY LEVEL

Complexity (CLEVEL) describes the data complexity which is supported by the technology.

NITF 2.1 CLEVEL							
	3		5		6	7	
Interpret	■		■		■	■	
Generate	■		■		■		
NITF 2.0 CLEVEL							
	1	2	3	4	5	6	Oth
Interpret	■	■	■	■	■	■	
Generate	■	■	■	■	■	■	

For more information, contact

PCI Geomatics
 50 West Wilmot Street
 Richmond Hill, ON L4B 1M5
 Canada

Phone: 1 905 764 0614
Fax: 1 905 764 9604
Email: info@pcigeomatics.com
Web: www.pcigeomatics.com