

VITec[®] ELT Release Enhancements

Version 6.2

VITec ELT 6.2 provides improvements in several focused areas including faster image operations and annotation-only product generation, JITC requested NITF certification updates, and additional enhancements for customers transitioning from MATRIX to VITec ELT.

- ◆ **New Feature-** This is a new feature to VITec ELT version 6.2
- ▲ **Improved Feature** - This feature has been improved since the last version of VITec ELT
- **Enhanced Feature** - This feature has been enhanced to support additional functionality

Template Products

- ◆ **New Template Products** – The new template products included in VITec ELT version 6.2 provide improved product generation, shorter image-to-product timelines, higher quality and consistency in product generation for efficiency and time-savings during the image exploitation process.
- ◆ **Annotation Template** – Advanced annotation template creation allows graphics to be used in many products and across ELT sessions. Template annotations can be burned in for highest level of compatibility.
- ◆ **Multiple Template Products** – Multiple template products can be created from the same image without intermediate steps for efficiency and time-savings.
- ◆ **Annotation Variables** – User-defined text annotation variables enforce consistent annotation rules among team members.
- ◆ **Key Variables** - Key variables can be automatically calculated from the original image metadata.
- ◆ **Multiple Template Output Product Options** – Template products can be saved in VITec format for long term analysis work and re-use; in NITF format for softcopy distribution or cataloging in the library; and/or in JPEG or GIF for internet posting/browsing.

Compare

- ◆ **Color Multi-view Visual Comparison Tool** – Products viewed in multi-color provide the analyst with a quick way to see differences between new images and historical reference images. Note: Image registration is not required, but may be necessary in order to provide optimum best viewing conditions.

Annotation

- **North Arrow Selections** - User-defined North arrows can be easily added to VITec.

Enhance

- ◆ **Interactive Pseudocolor Tool** - The Interactive Pseudocolor tool provides a dynamic adjustment for pseudocolor display on grayscale images.
- ◆ **Interactive Pixel Digital Number (D/N) tool** – This tool allows users to identify individual pixel values and intensity, and match identical values across an entire image for specialized processing applications (e.g., provides the elevation value for Digital Elevation Models, the strength of sound waves from Sonar, the strength of microwaves from Radar, and the heat emission values from thermal infrared.).
- ◆ **Interactive Density Slicing Tool** – The Density Slicing tool provides a quick-look grayscale categorization of like image pixels in an image.
- **Image Chain Analysis (ICA) Compliance Features** - The ICA tool now supports PEDF and linlog decoding on encoded NTM images for enhanced image display.

Image Display

- ▲ **Improved Image Display Options** – The Image Display feature has been improved to support true color image display and band selection for all RGB and multi-spectral images, initial display of fit-to-window and image center, and a 1600% zoom factor.
- **Multiple Screen Support** – VITec ELT now supports 1, 2, and 3 monitor hardware configurations.

Search

- ▲ **Search Improvements** – The Jump-To-Location GUI has been improved for ease of operation and time savings, and image search and panning have been improved to provide faster image processing and enhanced display throughput.

NITF

- **Additional NITF Features** – VITec ELT now supports the UT1 (ECS text formatting or Basic Latin character-set 1) text format, and the U8S text format (1 or 2-byte encoded character set a subset of the Universal Multiple Octet Coded Character Set (UCS) Transformation Format 8 (UTF-8). Coordinates and mensuration from multi-image products, and “big-block” images (i.e., images that have a 0-tile size) are also supported.
- **NITF Requirements Document (NITFRD) Compliance Features** – The use of tile sizes in consonance with the NITFRD (NTM NITF processing), and NITF tag overflow for NITF I/O are now supported by VITec ELT. In addition, the 4-corner IGEOLO can be written or not in accordance with NITFRD.

Visual Coverage Tool

- **Visual Coverage Tool (VCT)** – VCT now fully supports DPPDB on DVD media, non-rectangular DTED footprints, and the image ground sample distance is now included in the image-metadata display for the selected images.

Screener

- **TIS Screener Display** – VITec’s Screener display now supports image and annotation display regardless of the possibility of image overlap.

Miscellaneous

- **User Preferences Saved** – This version of VITec ELT saves the most recently used file list in File menu, and the most recently used directories in file selection dialogs.

VITec ELT 6.2 requires a VITec ELT 6.2 License. To obtain a license key, please call (800) 798-4832 or make your request via email to vitecsupport@baesystems.com.

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