Satellite imagery rethinked



HRIT Data Processor

Receive and process HRIT data from EUMETSat and HimawariCast Monitor received discs through the stages of processing in a graphical user interface.



COTS Hardware

For the server platforms, **NetSys** elects to use Commercially Off The Shelf (COTS) hardware only, with a preference for Dell and HP equipment providing hot swappable components running the Linux operating system. Alternatively, deploy on a virtual machine using any of the predominant VM vendors.



Channel Compositor

Combine different channels to create new products using manually entered formula or through a wizard user interface to assist with creating a formula. The system ships with the most commonly used composites pre-configured.



Architecture

Deployed in a client-server architecture with multiple clients accessing the imagery from the front-end-processor. Both client and server platforms make use exclusively of the tried and tested Linux OS.





Raw Channels

View all the raw-channels individually and choose the latest or a timestamp from past data. Leave the display on a selected view to have it automatically updated when new data is received and processed.





Animate

Animate the raw or synthesized imagery over time to visually understand the evolution of weather phenomena. Save an animation as an MP4 movie for archival or use in training excercises.

Free Movement

Satellite imagery are reprojected during the processing phase into a form compatible with the nsGIB weather display platform from NetSys. This frees the user from the fixed view of the original data allowing free movement of the image through zooming and panning using the computer mouse.









SIGMET Authoring

Combine nsSAT with other plugins of nsGIB such as the SIGMET authoring tool. This allows for a streamlined and precise phenomena delineation. Areas are automatically clipped against the FIRs under watch.

Conclusion

The nsSAT product provides for a turn-key solution to process and harness remote sensing imagery received from the predominant satellite imaging systems of the world. Data reprojection allows for integration into the nsGIB product which in turn allows for seamless use of the data alongside other meteorological data such as NWP. Creation of own composites through a powerful formula factory, animation of products over time and saving of animations as movie files are some of the possibilities enabled by this product. Backed by the renowned aftersales customer service of NetSys sets the scene for a long and fruitful investment when deciding on this product.



6