

# CATALYST 2222.0.2 RELEASE NOTE

*Rilasciato il 20 Maggio 2021*

## Highlights

### Supporto per dati SAR Capella Space ad Alta Risoluzione

Capella ha l'obiettivo di fornire i prodotti SAR disponibili con la maggior frequenza, tempestività e qualità. In Catalyst è stato aggiunto il support per la X-Band dei dati Capella sia per i prodotti Single Look Complex (SLC) e Geocoded terrain corrected (GEO).

## Novità

- **Funzione | COMPOSITE:** questa nuova funzionalità fornisce la possibilità di generare composizioni di immagini senza nuvole a partire da stack di dati. COMPOSITE unisce un set di immagini geocodificate sovrapposte in un mosaico, usando delle tecniche di pixel-by-pixel compositing.
- **Funzione | INSSTACKPSI:** questa nuova funzionalità è progettata per il workflow PSI, per leggere uno stack di immagini di displacement non sovrapposte temporalmente e scrivere il displacement, il displacement cumulativo o le velocità per ogni fase temporale di acquisizione nelle unità di misura di tempo e distanza specificate dall'utente.
- **Funzione | INSDMV:** INSDMV converte i valori di displacement generati da uno stack di interferogrammi co-registrati in displacement temporalmente ordinati e non sovrapposti, dopo aver rimosso gli effetti stimati dell'atmosfera dagli interferogrammi sovrapposti.

## Updated

- **Persistent Scatterers Interferometry (PSI) Workflow:** *PSI is an Interferometric SAR technique which utilizes temporally stable points to measure surface displacements covering a very wide area with millimetric accuracy. This second release of the workflow includes updates to existing functions and new functions to help achieve best-of-breed results.*
- **Function | MOSRUN:** *Added more information to the output report with respect to the empty tiles that were deleted and added spacing in the output log to better distinguish the various parts of the log.*
- **Function | SUPERMATCH:** *Improvements were made in the matching to better handle large rapidly changing disparities.*
- **Capability | Mosaic Tool:** *Numerous improvements to Mosaic Tool to address customer issues including: crash fix when changing global mask style, better MFILE support, new cutline method (ERODEEXT) to address voids, other fixes to address voids, fixed channel mapping issues, and improved performance with very large and rotated files.*
- **Function | INSDECOMP / INSDMV:** *Functions have been updated to fill temporal gaps in a time series which caused the processes to fail.*
- **Function | GREY2RGB:** *Function will now output metadata values to store the calculated INMIN and INMAX values.*

- **Function | INSPSC / INSPSN:** Automatic calibration point added to these functions to properly skip the calibration process if no external calibration points are available.
- **Workflows | INS\* functions:** All INS\* functions have been modified to ensure that they are consistent in terms of:
  - Output quantity
  - Units
  - Unit of filter size
- **Function | INSRAW:** Function has been improved to properly carry-out phase fitting across swath using a two-pass method.
- **Utility | PCIDSK Format (PIX):** Vector segments greater than 4 GB in size are now supported natively in PCIDSK format files. As well, performance improvements have been made to work with large datasets.
- **Utility | License Manager:** The CATALYST Professional license management tool has been redesigned, including the addition of automatic license generation.
- **Utility | License Server:** The RMS license server installer has been rebranded and updated and is now the CATALYST License Server.

### Fixes

- **Function | SPECLASS:** Fixed to work properly and use all appropriate bands for the ASTER sensor.
- **Function | SPECLASS:** Fixed to work properly and use all appropriate bands for the 16-band variety of Worldview-3 data.
- **Sensor | SPOT 6/7:** Fixed issues with SPOT 6/7 ORT products which were loading with an improper shift in Focus.
- **Sensor | Gaofen-7 (GF7):** Fixed the values of spatial resolution which were being set incorrectly for Gaofen-7 products.
- **Sensor | ICEYE:** Fixed issue with display of raw ICEYE data which was being displayed opposite to the properly ingested data.
- **Focus | ICEYE:** Fixed defect that caused Focus to shutdown when trying to view the Incidence Angle array data for raw ICEYE imagery.
- **Focus | WMTS Support:** Fixed problems that were reported when trying to load certain web mapping tile services to the Focus interface.
- **Function | OEBUNDLEOPT:** Fixed function, which was failing when trying to set options for a project created for RCM data.