



## New in Rolta GXL 2017

### Highlights

#### New DEM Extraction ADS workflow

Extraction of Digital Elevation Models (DEM) can be done using stereo ADS imagery.

#### New SGM DEM Extraction methodology

Inclusion of a new Semi-global Method (SGM) for DEM extraction, which can be used for high-resolution aerial and satellite data.

#### JPS updates

The two main JPS Admin related enhancements are as follows:

- JPSAdmin – job submission pages include:
  - Spacing, both horizontal and version, between is better spaced making it easier to read and distinguish groups of related parameters
  - Enable/disable parameters based upon other parameters' values
- JPSAdmin – better administrator GUIs include:
  - Improved GUIs to manage JPS processing servers
  - Reorganized administrator tools

#### Job updates

New DEM assessment mode added to the Automatic Accuracy Assessment job to:

- Measure pixel values between two images, and calculate the absolute difference. The final report will show the average change and standard deviation

#### Sensor support

The sensor support related updates are as follows:

- Sentinel-2 - Two identical satellite systems that carry an optical instrument payload with 13 spectral bands:
  - 4 - 10m resolution bands
  - 6 - 20m resolution bands
  - 3 – 60m resolution bands
- Resourcesat-2 – Satellite with three onboard optical sensors that reproduce multispectral bands:
  - LISS4: One mono and three Multispectral (MS) bands with a resolution of 5.8 m, and a swath of 70 km mono and 23 km MS
  - LISS3: Four bands with a resolution of 23.5 m, and a swath of 140 km
  - AWIFS: Four bands with a resolution of 56 m, and a swath of 740 km updated bundle options that make QA easier for aerial and satellite
- Kompsat 3A – Update to include better resolution than it's predecessor Kompsat-3 with:
  - 2.2m resolution multispectral sensors
  - 0.55m resolution panchromatic sensor

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- CBERS-4 – Satellite with 4 cameras including:
  - MUXCam, a multispectral (MS) camera at 20m resolution
  - PanMUX, a panchromatic (PAN) imager with 5m panchromatic and 10m multispectral data
  - IRS, a medium-resolution infrared scanner with 40m infrared sensor and 80m thermal sensor
  - WFI, a wide-field imaging camera with 64m multispectral sensor
- Deimos – Added support for 2 sensors:
  - Deimos-1, 22m multispectral sensor
  - Deimos-2, 1m panchromatic and 4m multispectral sensor
- Jilin-1 – Chinese sensor with:
  - 0.72m resolution panchromatic imagery
  - 2.88m resolution multispectral bands