

## Release Notes v. 0.13.4-6-osf

This software release introduces a set of new features and performance improvements with respect to the previous open source distribution (version 0.12.5-7-osf).



### Important notes

- **New data storage architecture:** DHuS 0.13.4-6-osf introduces in the Data Hub System a "Datastore service" function able to interface with:
  - *File system*
  - *OpenStack Object storage*

DHuS is therefore able to use such kind of storages for the data archiving function

- **New Open Web Component:** DHuS 0.13.4-6-osf includes a new GUI (OWC) based on the Polymer library. OWC is mobile compatible and it includes some extra functions, like calendar view (showing the number of published products per sensing day). This new feature is designed for the open source framework users, which are now able to customize the Data Hub style as they like the most and to create and integrate their own web components.
- **Catalogue extraction API:** DHuS 0.13.4-6-osf introduces a capability to extract the data catalogue in compact format with a single customizable query



### What's new?



### Mission related features

#### Sentinel-2 :

- Tile Identifier extraction and indexing at ingestion time
- New sorting method: "datatake" and "tile ID"
- Ingestion capability for Sentinel 2A L2A in COMPACT format (see S2-PDGS-TAS-DI-PSD Sentinel-2 Products Specification Document, Issue 13.2 and Issue 14.0)

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### Sentinel-3

- Introduction of dedicated algorithm to generate OLCI and SLSTR product quicklook



Data store

### New data storage architecture

Introduction of Datastore service function able to interface with:

- Block storages (local or remote file system)
- OpenStack Object storage containers (through OpenStack Swift HTTP interface)



**Standard UI features**

### New features for users:

- Link to download TCI images for S2A COMPACT format products
- Improvement in the shape file feature precision
- Polygon selection on Map

### New features for administrators:

- Terms and conditions link in the registration page
- Configurable pagination limit in AJS

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### **OWC UI features**

### New features for users:

- Possibility to select a list of metadata to expose in the product list
- Cart
- Saved Searches
- Advanced search (beta version)

### New features for administrators:

- Management panels
- Map Servers configuration panel



**API features**

### OData API

- Possibility to retrieve metadata of deleted and evicted products (this function is not retroactive)
  - Catalogue view: Compact output format (CSV) for the OData query output
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## Functionality improvement

### Synchronizer updates:

- Synchronization of products covering a defined Geographical AOI
- Product synchronizers optimization: product download via multiple threads

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## Interface changes

- Removal of Metalink parameter form OData entity Products
  - New log messages in case of STOP action on FileScanner
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## Bug Fixes and Implementations

Here follows the list of bug fixes and implementations released:



## Mission related features

### Sentinel-3:

- Fix for missing footprint on SRAL new product type: SR\_1\_SRA\_A\_ and SR\_1\_SRA\_BS
- Fix for mirroring transformation affecting S3A SLSTR ascending images
- Fix for SLSTR quicklook sometimes generated in grey or encountering quicklook generation issues



## UI features fixes

### Fixes for users:

- Search box: solution for issue with Mozilla Firefox v52.0
- Introduce control for forgot password process via GUI for non-existent user

### Fixes for administrators:

- OWC Product footprints default color
  - OWC prototypes: Auxiliary Data Files manager
  - Validation of email format in the registration form in the standard UI: the creation of user accounts with malformed e-mail is forbidden
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## API features fixes

### Solr service

- OpenSearch orderby is now not case sensitive

### OData service

- Introduction of OData filter *tolower* functionality in Users entity



## Functionality improvement

### Queries response performance

- Optimization of the \$expand filter
- Indexing of "ingestion date", "creation date" and "product identifier" metadata to improve response time when filtering by the mentioned metadata

### OData Synchronizer

- Change sorting criteria used by User Synchronizers: User creation date
  - Change sorting criteria used by Product Synchronizers: product creation date
  - Solution of issue causing synchronization gaps in OData Product synchronizers
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## Known issues and limitations:

- *Creation of file (.lobs) in hsqldb directory containing metadata and checksum of deleted and evicted products*
- *Incomplete S1A WV product footprints extraction*
- *S3 SLSTR SL\_1\_RBT\_ quicklook generated by DHuS are sometimes shorter than the original data (this issue is not systematic)*
- *S3 SR\_1\_SRA\_A\_ and SR\_1\_SRA\_BS product inspection functionality unavailable*
- *Slow Product Nodes inspection in Openstack*
- *Installation process more time consuming than usual: the duration of the first start will be proportional to the amount of data stored in DB/SolR in DHuS DB*