VieVS 3.0 Release

- Release date: 2017-06-12
- Release version: 3.0
- Access policy: Available for all registered VieVS users. Please note:
- Availability: via sftp on vievs@ftp.ipf.tuwien.ac.at (! SSH keys have to be installed in order to get access!)

! **The old server, where the VieVS 2.3 release is maintained, will be shut down on July 10, 2017**. Please be prepared and set up SSH keys in time for accessing the new repository of VieVS 3.0.

Availability of VieVS 2.3

! The previous VieVS release (2.3) will still be available until 2017-07-10 on our old Server (directory `/VieVS/`). Afterwards it will be deleted and won't be available for the users any more.

Installation notes

Just download the content of the `/_down/vievs/` directory from our server using the provided username and password. Copy all files to a local VieVS root directory of your choice. If you want to use the same installation directory as used for a previous VieVS 2.2 installation, please delete all files in the /COMPILE/ and /WORK/ directories first.

How to access our ftp server and how to download VieVS is described here: Download VieVS via SFTP

Compatibility between 2.3 and 3.0

Basically all data files are compatible.

- **OPT files** for VieVS 2.3 still work for 3.0
- **Outlier files** are also compatible

The VieVS data structures located in <vievs_root>/DATA/LEVEL<x>/ created with VieVS 2.3 may not work any more with VieVS 3.0 due to changes in the structure content.

VieVS 3.0 release notes:

- vgosDB files are now supported
- A new file format for observation data, named “VSO”, is now supported. It can be used to import observation data very flexible, e.g. from non-standard observations, such as observations of satellite signals
- The VIE_SCHED module was improved with some major updates
    - manual scheduling mode

    - schedule analyser
    - better fillin modes
    - new optimization parameters
    - scheduling conditions
    - multi scheduling tool with multicore support
    - better integration of scheduling and simulations
- The most recent version of the satellite scheduling tool is included.
- New possibilities for modelling troposphere delays were added:
    - Direct application of ray-traced delays
    - Consideration of a priori zenith wet delays
    - New empirical troposphere model GPT3
    - New horizontal gradient models GRAD and GPT3
- Updated superstation and supersource files
- Analysis options for satellite observations:
    - Observation data can be loaded via VSO files
    - Near field delays can be calculated in VIE_MOD (iterative solution of the light-time equation)
    - Satellite observations are supported in all three code modules (VIE_INIT, VIE_MOD, VIE_LSM) and in VIE_SIM
- etc.

Lots of further changes were applied which are not listed here.