Instructions for Downloading VIRAT Video Dataset

Data download Instruction for Release 2, Last updated 2011 Sep. 30th.

VIRAT Video Dataset consists of ground video dataset (~40G). These datasets contain examples of human/vehicle events such as person getting into vehicle, and person opening a vehicle trunk etc.

VIRAT Ground Video dataset includes scenes recorded by stationary cameras installed at the top of the building roofs.

VIRAT Video Dataset download is currently being supported by MIDAS software developed by Kitware Inc. Please follow the instruction steps below to install MIDAS and download VIRAT Video Dataset Release 2.0.

Note that there is no major change in download instruction from the previous version. MIDAS Desktop software has been upgraded with major improvements. We encourage users to update their software to the latest version.

Note that VIRAT Video Dataset Release 2.0 includes the (previously released) training data portion of Release 1.0.

Table of Contents

1. Create a user on the MIDAS server

Go to http://midas.kitware.com/user/register. **Enter e-mail address at the registration page.** You will be sent an email. Click the link in the email and you will be taken to a page where you should fill out your first and last name, institution, and create a password for yourself.

2. License Agreement on MIDAS web

On the MIDAS webpage, you will find a Navigation tree at the left top. Please navigate through the tree until you find: `Public Projects->VIRAT->Public Dataset->VIRAT Video Dataset Release 2.0`. The VIRAT video dataset has a license agreement on it for you to allow to download it. Every potential data users have to agree to the terms individually. Please review it carefully, and either accept or decline. The main purpose of the agreement is to ensure that data users do not attempt to extract privacy-sensitive information from the dataset.

3. Download MIDAS Client installer

Go to the following URL:

`http://viratdata.org/midas`

Then, download installers for MIDAS Desktop (client program) which meets your platform.

3.1. Linux
Linux installers are shipped as tgz archives. Simply extract the contents of the archive into your desired install location and run `bin/MIDASDesktop.`
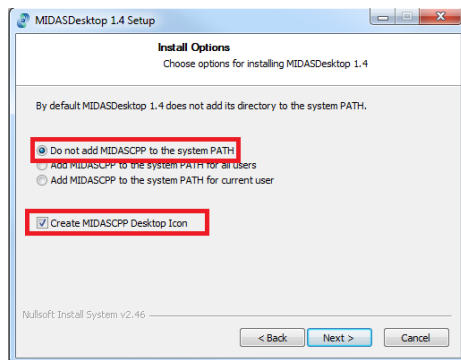
3.2. Mac
Mac installers are not available as of 2011-02-11. But, it will be available soon. Please check the download webpage for update. Mac installers will be shipped as tgz archives. Once available, simply extract the contents of the archive into your desired install location and run `bin/MIDASDesktop.`

If you do not have any access for Linux or Windows machines for data download, please send an e-mail to data maintainers (contact@viratdata.org) after you agree to the user agreement terms, detailed in Sec. 2.

3.3. Windows
During installation on Windows, check 'create MIDAS desktop icon on Desktop', and select 'Do not add MIDASCPP to the system PATH', as follows:

In the next installation guide window, please select Destination Folder. If you do not have administrative privilege, it is recommended to install MIDAS within your home directory. For example, a good choice for Windows 7 is:

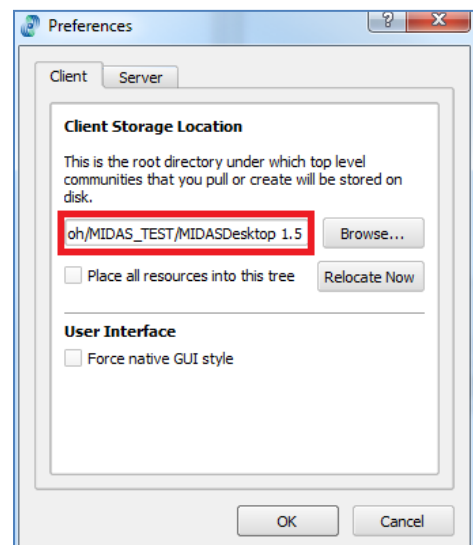C:\Users\username\Documents\MIDASDesktop 1.5

Note that the location of home directory, which is 'C:\Users\your_username' may differ by different OS version.

Once MIDAS Desktop installation process is finalized, there will be a shortcut icon for MIDAS Desktop on your desktop. Double-click the icon to run the application.

4. Set Up Initial Local Database and Download destination

When first running MIDASDesktop, you need to initialize and select a local database, which stores information about users and data downloaded from the server. Go to **Settings->New Local Database**. Then, choose a name for your database such as 'midas.db' or 'username.db' and select the path to be the MIDAS Desktop installation path used already and make sure that you have write access privilege for this folder (any path under your home directory is safe). NOTE that you may see a default database file midas.db included in the MIDAS distribution, but, make sure to create your own or over-write on top of it.

Once a new local database is created, go to **Settings->Choose Local Database** and select the database you created.
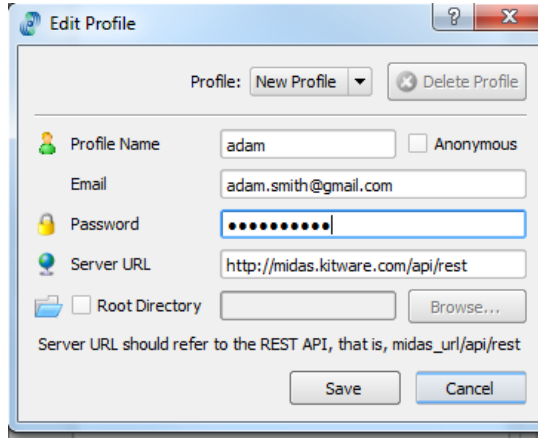

Finally, you need to select the destination folder where the dataset will be downloaded into. Go to **Settings->Preferences**, then, select your preferred Client Storage Location (marked in the figure below). Again, you should have write access privilege for this folder.

5. User Profile Creation and Sign-in

Users need to add their profiles to the client, so that servers can authenticate data download access.

On the client, go to **Settings-> Profile**, enter user information.

1) Type your preferred shorthand username (nick name) in the Profile Name.
2) Make sure the Anonymous checkbox is NOT checked.
3) Enter your email and password (the same one you registered with on the server).
4) For the server URL type or copy the following address: http://midas.kitware.com/api/rest
5) Do not select Root Directory, leave it untouched.
6) Save your profile.

Sign-in by choosing menu **File->Sign in**, where you need to select your profile information.

6. Download VIRAT Video Data

Once signed-in, you will see a MIDAS Desktop client as shown below.

On the left pane, expand the dataset tree, then select the VIRAT Video Dataset Release 2.0:

Public Projects-> VIRAT -> Public Dataset -> VIRAT Video Dataset Release 2.0

To download the dataset, press the right arrow (->) button in the middle of two panes. Make sure to select 'pull children' option altogether; all the files in the subfolders will be downloaded together. Your copy of data will be downloaded to the folder specified as 'Client Storage Location' set in Settings->Preference.

In case you may be asked for a license agreement, please refer to Sec. 6.1 for details.

In case you already have data on the server, by pressing the right arrow button, your local data copy will be synced with the server copies. If there are additional files on the server side, only the new files or newly edited files will be downloaded. Please select 'use existing copies' if asked.

6.1. License Agreement

The VIRAT video dataset has a license agreement on it, so before you are allowed to download it you will need to agree to the license agreement. If you have not agreed to the user agreement terms in Sec. 2, when you try to pull the data, a dialog will appear:

Click **Go to MIDAS server**. Your browser will open and you will be asked to read and agree to the license terms. If you are prompted to type-in log-in credentials, and if you are not redirected to license agreement page after the log-in, please press 'Go to MIDAS server' button again for re-direction.

Once you have agreed in your browser, you may click **OK** in the MIDASDesktop dialog and you will be allowed to download the data.

Depending on network conditions, it may take a while until the data is fully downloaded. Note that the entire folder structure on the left window pane will be copied onto your target Client Storage Location directory. The download can be resumed after pause. To pause download, press 'cancel' button at the bottom. Then, select the appropriate dataset and press the right arrow (->) button again to resume - only the previously unfinished download will resume.
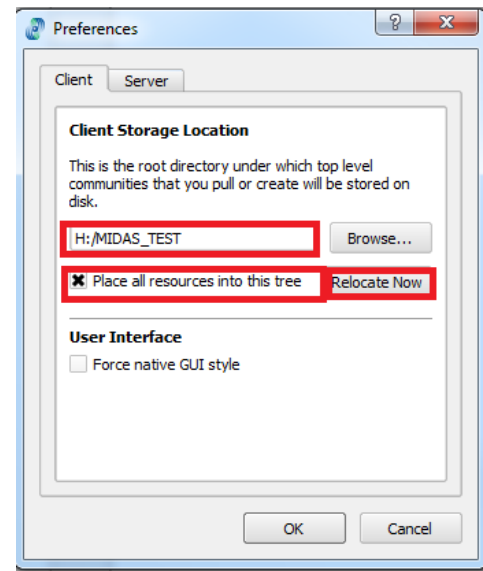
There is a progress bar at the bottom which will show the progress of your current download. In addition, in the bottom right panel there is a progress tab. Opening this tab will display information about your current file download as well as the overall download progress, along with an estimated time to finish download.

6.2. Changing Download Directory

In case users want to change download directory, the best way to do this is to wait until all the download is complete, then, copy or move the files manually to the desired location out of MIDAS.

In case users want to change the download directory in the middle of the download process in MIDAS, please follow the steps below.

1) Cancel download

2) Go to **Settings->Preferences**. Then, select new Client Storage Location. Then, mark 'Place all resources into this tree', and press 'Relocate Now'. Then, all the downloaded files so far will be either copied or moved to this new location. From now on, files that are not downloaded will be downloaded into the new client storage location.

6.3. Re-Sync with existing Data copies

In case users have already downloaded data (fully or partially), and want to sync their data for additional download or data updates, MIDAS client supports such needs.

First, the existing copy of data should maintain the full tree structure of the original download.
Then, users can simply update the 'Client Storage Location' to point to the top directory location where the existing data tree copy exists. Then, follow the download steps, described in Section 6. MIDAS client will ask whether to overwrite on the existing copies or leave the existing copies as they are. Please select appropriate answer to start download.

6.4. Closing MIDAS

Once the download is complete, you can close MIDAS system. Clicking the close button (X) in the upper right will not exit the application, but instead make it disappear and run in the background. A tray icon in your operating system's menu bar will appear allowing you to show the application again. If you want to completely exit MIDASDesktop, select the menu item **File->Quit.**

VIRAT Ground Video Dataset contains Supporting Materials where you can find a README file with the descriptions on dataset format details.

7. Contact & Support

For any issues you experience with data download, please send an e-mail to: contact@viratdata.org

FAQ page is also available: http://www.kitware.com/midaswiki/index.php/MIDAScppFAQ

It will help us to improve the download procedure if you can send detailed information about your problems.

If your problem is related to software, or have any suggestions, please include the following information which will be very helpful:

- Operating system version,
- A text file with the copied log messages from MIDAS client log window at the bottom right corner
- Installed Qt version (if any)
- Detailed steps you conducted to encounter a problem (if any)