

STK Viewer Usage Instructions

This document outlines the steps necessary for launching and using STK Viewer from Amazon Marketplace.

Overview of Amazon Marketplace for GovCloud Regions

AWS Marketplace subscriptions are managed in the standard AWS account linked to your AWS GovCloud account. To launch STK Viewer in GovCloud, you must first subscribe to STK Viewer in the standard account.

When using AWS Marketplace, AWS GovCloud is viewed as two additional Regions where you can deploy your subscribed products to; it is not a separate marketplace. It's important to understand that GovCloud accounts are always paired to a standard AWS account and that you can only subscribe to products available in AWS Marketplace from the standard account.

If you do not already have a GovCloud account, the following steps explain the process.

Create an AWS GovCloud account from your standard AWS account

1. In the [AWS Management Console](#), sign into your standard AWS account using your root credentials.
2. To sign up for AWS GovCloud (US), follow the steps outlined in [this documentation](#).
If you get the following message:
Access to the AWS GovCloud (US) Region has been denied because you did not meet one or more of the prerequisites. Please contact AWS Customer Support if you believe you received this message in error, submit a ticket with [AWS customer support](#) so your request can be reviewed.
3. Follow the prompts to submit your request for access. You will receive an email confirmation when AWS gets your request.
4. When approved, you will receive another email with a link and instructions to set your Administrator password.
5. Once completed, your new GovCloud account will be linked to your standard AWS account. There can only be one GovCloud account per standard AWS account.

Subscribe, Configure, Launch, and Connect to STK Viewer

Subscribe to STK Viewer in Amazon Marketplace

1. In the AWS Management Console, log in to your standard AWS account and navigate to AWS Marketplace.
2. Search for 'STK' in the search bar in Amazon Marketplace. Once you locate 'STK Viewer', you can review the terms and conditions.
3. To subscribe to the product, in the upper right, choose Continue to Subscribe.
4. Review the terms and conditions and click 'Accept Terms'
5. Click on 'Continue to Configuration'

Configure and Deploy STK Viewer in AWS GovCloud (US) Regions

1. On the Configure this software page, accept the default for Fulfillment option, select 'STK Viewer <version>' for the software version, and select either us-gov-east or us-gov-west for the deployment Region.
2. In the top right, choose Continue to Launch. When a new tab appears, log in to your linked GovCloud account.
 - a. On the 'Launch this software' page, under 'Choose Action' select 'Launch from EC2'
 - b. Click on "Launch". This will navigate to the 'Launch and Instance' page under the EC2 AWS service
 - c. Enter the name for your new instance
 - d. Under 'Application and OS Images (Amazon Machine Image)', the AMI for STK Viewer is preselected.
 - e. Accept the default for the instance type (g4dn.xlarge)
 - f. Select a key pair. If you do not have one, click on the link for 'Create new key pair'.
 - g. Under 'Network settings', click 'Edit' and select your VPC, subnet, and security group for your VPC. Accept the default connection type of 'rdp'. Add any necessary CIDR rules for your network.
 - h. Under 'Configure storage' accept default for Root volume size (70 GiB).
 - i. Accept defaults under 'Advanced details'
 - j. Click 'Launch Instance'
 - k. You can then view the instance in the EC2 service with the name you created in step c.

Connect to your EC2 instance

1. Select the checkbox next to your instance containing STK Viewer in the list of EC2 instances
2. Under Actions at the top right, select 'Security -> Get Windows Password'.
3. Enter your keypair and then select 'Decrypt password'. Copy the Windows password to a safe location.
4. Navigate back to the instance list and select 'Connect' at the top right. Select the RDP client tab and click on 'Download remote desktop file'.
5. Double-click on the <name of instance>.rdp file in your Downloads folder. To connect:
 - a. user name: Administrator
 - b. password: <saved Windows password from step 3>
6. You will then be connected to your new Windows desktop with STK Viewer. It will take a few minutes to power on and connect.

Using STK Viewer

Once you have deployed STK Viewer to your EC2 instance from Amazon Marketplace, you can launch STK Viewer directly from the desktop by double-clicking on the 'STK Viewer' icon.

The next section outlines the steps needed to perform the most important functions within STK Viewer: setting up your default STK Viewer directory, opening scenarios, viewing scenarios, and saving scenarios. Additional STK Viewer help documentation is available by clicking on 'Help->STK Viewer Help' in the menu bar at the top of STK Viewer.

Set Up Default Working Directory

When you run STK Viewer for the first time, you are prompted to select your default directory for storing work files. The initial default directory is:

C:\Users\<user name>\Documents\STK <version number>

To change this directory, enter a new name or browse to an existing folder. The New User Setup process creates the specified folder if it does not exist and populates it with STK default files.

STK Viewer uses this directory to store the following:

- STK scenario and object files
- user preferences
- the default STK Workbook file

Resetting your current user area

If you want to set your user area to another folder location or your folder was removed or corrupted, you can recreate the folder by selecting **STK 12->Reset Current User Settings** from the Start Programs menu.

When you run STK Viewer after setting or resetting your current user area, STK Viewer prompts you for the following:

Define a user area for your scenario files. By default your user area is C:\Users\\Documents\STK <version number>. You can change the user area by clicking the Browse button.

If STK 11 user files are detected, you will be given the option to copy them to the STK 12 user directory.

Opening a VDF File

STK Viewer will open VDF files created with STK.

Click the  button. The Open Package dialog box is displayed.

At the bottom of the Open dialog box, choose Location for your place to look for files. The following choices are available:

Location	Description
File System	This is the file system on your computer and is the default location.
STK Data Federate	This is a data management system hosted by AGI. For more information on this option, see the STK Data Federate help topic.


Select a file to either open it or view its author-created description.

The author-created description of the selected VDF file appears in the text area on the right side of the dialog box.




If the file is password protected you will need to request the password from the author of the file.

You can drag and drop VDF files from your desktop onto the Viewer to open them.

STK Viewer will try to open associated globe imagery and textures from the directory where the VDF is stored. If this data is kept in a different location, you will be prompted to browse for and select the correct directory.

You can use the  button to close the VDF file. To close STK Viewer, click the close button in the top right corner of the application or select Exit from the File menu.


Viewing the File

A VDF file may display data in the 3D Graphics window, including information about the scenario, such as date, time, time step, and animation frames. Other information may include the viewer reference position: latitude, longitude, altitude (if applicable), and the axis you are viewing. Some of the data displayed are dynamic and updated as the scenario is animated. Models include objects like facilities () , satellites () , and targets () .

Saving a VDF File

STK Viewer allows you to re-save a VDF file or save it as another VDF file.

To save a VDF file:

1. Click the **Save** button () or select **Save** from the File menu to bring up the **Save VDF** window.
2. Select the 3D window that you want to be the primary 3D window from the **Primary 3D Window** drop-down menu.
3. In the **Globe Data** area, select the option to copy current globe data or to search for globe data.
 - a. Click **Details...** to view a list of the files currently used by the VDF and select or clear the corresponding checkboxes to include or exclude them from the version that you are saving.

4. Select **Save...** to bring up the **Save VDF** dialog or click **Close** to close the window without saving.
5. Enter a file name and browse to the location where you want to save the VDF file. Select **Save** to save the VDF.