

TREK
HOSC LOGIN
USER GUIDE



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1 Welcome

The Telescience Resource Kit (TReK) is a suite of software applications and libraries that can be used to monitor and control assets in space or on the ground.

The TReK HOSC Login application provides the capability to create a login session with the Huntsville Operations Support Center (HOSC) that can be shared across TReK applications (e.g. HPEG, Command).

1.1 Getting Started

Start with the Introduction which provides an application overview. Next, try the Quick Start Guides for “How Tos” for common functions. For help with details, reference the Details section. See the FAQ and Troubleshooting section for helpful hints and solutions to the common “gotchas”.

2 Technical Support

If you are having trouble installing the TReK software or using any of the TReK software, please contact us for technical assistance:

TReK Help Desk E-Mail, Phone & Fax:

E-Mail: trek.help@nasa.gov
Telephone: 256-544-3521 (8:00 a.m. - 4:00 p.m. Central Time)
Fax: 256-544-9353

If you call the TReK Help Desk and you get a recording please leave a message and someone will return your call. E-mail is the preferred contact method for help. The e-mail message is automatically forwarded to the TReK developers and helps cut the response time. The HOSC Help Desk (256-544-5066) can provide assistance as needed and is available 24x7.

3 Introduction

The TReK HOSC Login application provides the capability to create a login session with the Huntsville Operations Support Center (HOSC). This login session can be shared across TReK applications (e.g. HPEG, Command).

Important Note: Please use Port 9219 when logging into the HOSC. Port 9209 is no longer supported by the HOSC. If you have been using port 9209 in the TReK HOSC Login application, this will continue to be the default until you change it. The TReK HOSC Login application and the TReK ERIS Sim Console application use the Transport Layer Security (TLS) for all ports except 9209. The TReK ERIS Sim Console

application's `eris_sim_properties.xml` configuration file contains a port number configuration parameter that controls the port used by the simulator. When working with the simulator you are free to choose which ports to use, but we suggest using port 9219 for the simulator. If you wish to use TLS with TReK ERIS Sim Console, you can copy the `eris_sim_properties.xml` file from the install to your home directory and edit the IP address.

4 Overview of the User Interface

4.1 Main Window

The main window contains several areas as shown in Figure 1. The Message Area is a dock window that you can float or dock. To float a dock window, use your left mouse button to click and hold the title area while dragging the window to another area of the screen. To dock, use the title bar to drag the dock window over the main window and drop.

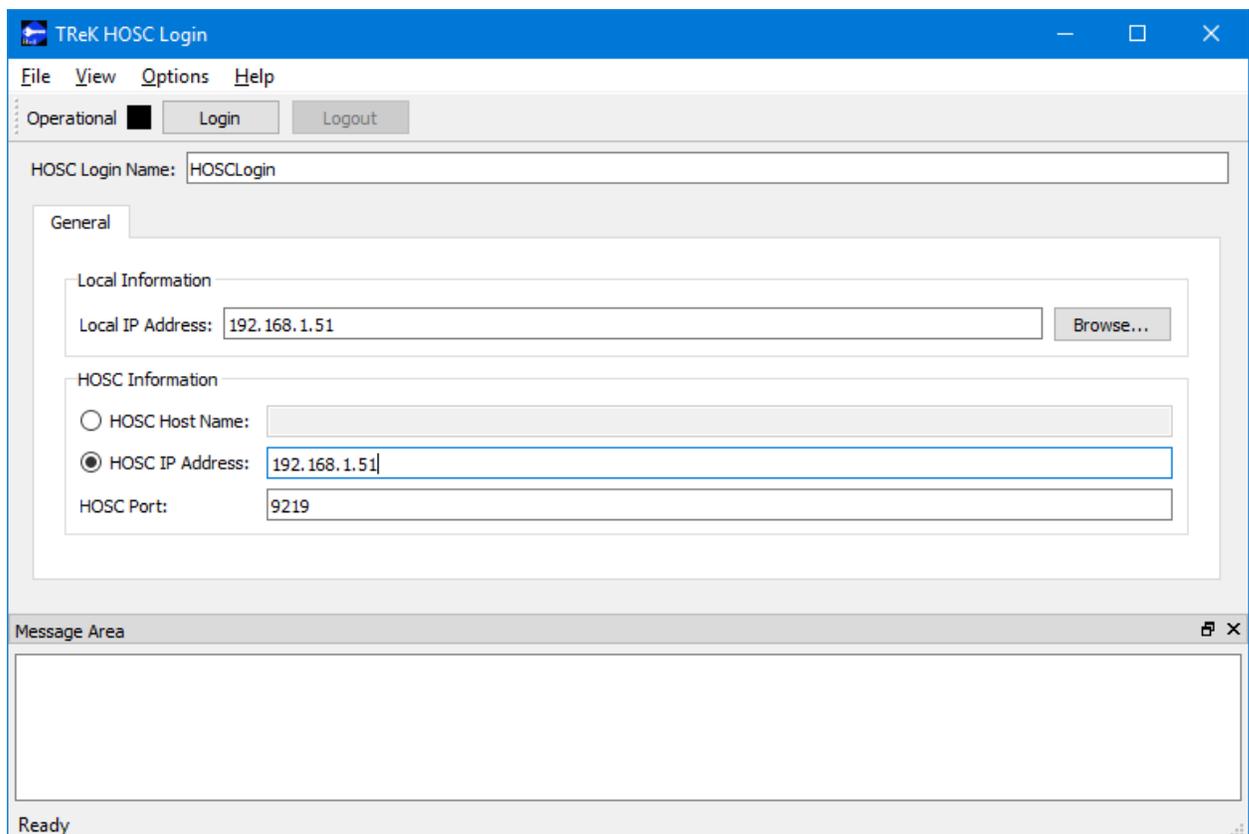


Figure 1 Main Window

Toolbar

The toolbar at the top of the window provides quick access to Login and Logout.

Login

The Login area provides the capability to enter the information required to establish a login session with the HOSC.

Message Area

The Message Area displays important status and error messages. The message area can be cleared using the View menu.

4.2 Toolbar

The toolbar provides visual information about the state of the application and provides access to common application functions.

Operational Status

When the Operational status is black, this indicates the login session is inactive. When the Operational status is green, this indicates the login session is active.

Use the Login button to establish a login session with the HOSC. Use the Logout button to exit the login session.

4.3 Menus

The HOSC Login application menus are: File, View, Options, and Help. Each of these menus is described in more detail below.

File Menu

The File menu provides the capability to exit the application.

View Menu

The View menu provides the capability to clear the main window message area and show and hide different areas in the main window.

Options Menu

The Options menu provides the capability to change your HOSC password, re-authenticate your HOSC login, request a HOSC login re-authentication status, and request HOSC common information. It also provides access to the Messages dialog which can be used to display and filter application messages. Access to advanced settings is also available.

Help Menu

The Help menu provides access to on-line help and application version information.

5 Quick Start Guides

This section provides “How Tos” for common functions.

5.1 How to Start a Login Session with the HOSC

The following steps describe the minimum necessary to start a login session with the HOSC. For additional information and details please reference section 6.1.

1. Enter a name for the login session in the HOSC Login Name field.

Note: You will use this name when referencing the login session from other TReK Applications (e.g. HPEG, Command).

2. Enter a local IP address in the Local IP Address field.

Note: If you are connecting to the HOSC, and have established a VPN Client login, you should enter the Office Mode IP Address assigned by the VPN Client. If you are connecting to a TReK training tool that is simulating the HOSC login, enter your computer’s local IP address. You can use the Browse button to view and select a local IP Address.

3. Enter the HOSC information.
 - a. Enter either the HOSC Host Name or the HOSC IP Address.
 - b. Enter the HOSC Port.

Note: If you are connecting to the HOSC, enter the HOSC Host Name or IP Address and the HOSC Port. If you are connecting to a TReK training tool that is simulating the HOSC login, enter the IP Address and Port corresponding to the configuration of the training tool. For example, if you are running the training tool on the same computer as the HOSC Login application, then you would use your local IP address for the Local IP Address and the HOSC IP Address.

4. Push the Login button to activate the login sequence. You will see a series of dialogs requesting information such as Username, Password, Passcode, Role, and Mission Operational Support Mode (MOP). Enter the information requested.

Note: The Passcode is your PIN number followed by your RSA token number.

If the login session is successfully activated, the Operation status will be green.

5.2 How to Change Your HOSC Login Password

The Options menu provides the capability to initiate a HOSC password change.

5.3 How to Re-Authenticate your HOSC Login

The Options menu provides the capability to initiate a HOSC login re-authentication.

5.4 How to Request a HOSC Login Re-Authentication Status

The Options menu provides the capability to request a HOSC login re-authentication status.

5.5 How to Request HOSC Common Information

The Options menu provides the capability to request HOSC Common Information. This includes various types of information such as project, mission, and database information.

6 Details

This section covers various application details.

6.1 Main Window Login Area

The Main Window Login Area is shown in Figure 2. Each field is described below.

The screenshot shows the TReK HOSC Login application window. The title bar reads "TReK HOSC Login". The menu bar contains "File", "View", "Options", and "Help". Below the menu bar, there is a status bar with "Operational" and a black square, and buttons for "Login" and "Logout". The main area is divided into sections: "HOSC Login Name" with a text field containing "HOSCLogin"; "General" tab; "Local Information" with "Local IP Address" set to "192.168.1.51" and a "Browse..." button; "HOSC Information" with radio buttons for "HOSC Host Name" (unselected) and "HOSC IP Address" (selected), and text fields for "HOSC IP Address" (192.168.1.51) and "HOSC Port" (9219). At the bottom, there is a "Message Area" and a status bar showing "Ready".

Figure 2 Main Window General Tab

HOSC Login Name

The HOSC Login Name should contain a name for the login session. You will need this name when referencing the login session from other TReK Applications (e.g. HPEG, Command).

Local IP Address

The Local IP Address is used to perform network communication when establishing the login session. If you are connecting to the HOSC, and have established a VPN Client login, you should enter the Office Mode IP Address assigned by the VPN Client. If you are connecting to a TReK training tool that is simulating the HOSC login, enter your computer's local IP address. You can use the Browse button to view and select a local IP Address.

HOSC Information

HOSC information fields include the HOSC Host Name, HOSC IP Address, and HOSC Port. If you are connecting to the HOSC, enter the HOSC Host Name or IP Address and the HOSC Port. If you are connecting to a TReK training tool that is simulating the HOSC login, enter the IP Address and Port corresponding to the configuration of the training tool. For example, if you are running the training tool on the same computer as the HOSC Login application, then you would use your local IP address for the Local IP Address and the HOSC IP Address.

6.2 Advanced Settings

The Advanced Settings dialog provides access to configure several advanced settings. The Advanced Settings dialog is shown in Figure 3.

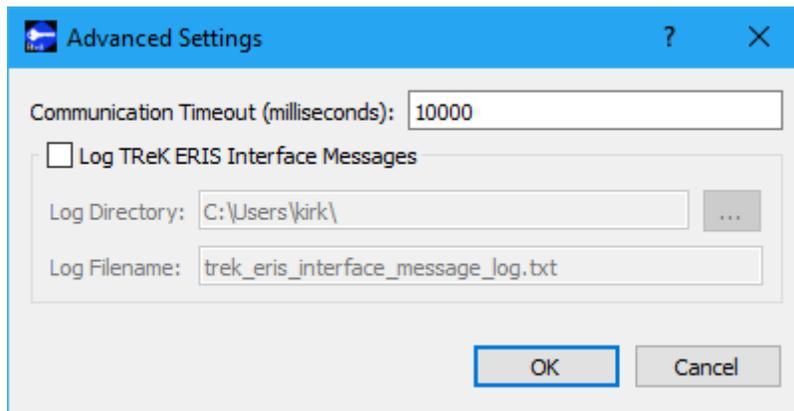


Figure 3 Advanced Settings Dialog

Communication Timeout

You can set the timeout value used in communication with the Huntsville Operations Support Center. It is unlikely there would ever be a need to modify this setting. The timeout value can only be modified when the Login session is inactive.

Log TReK ERIS Interface Messages

The TReK HOSC Login application provides the capability to log messages that are exchanged between the TReK HOSC Login application and the HOSC ERIS software to a file. This capability has been provided for troubleshooting purposes. Hopefully this is a feature you will never need to use. If you check the Log TReK ERIS Interface Messages checkbox, the messages that are exchanged between the TReK HOSC Login application and the HOSC ERIS software will be written to the log file specified. Message Logging will start when the Login Session is activated and stop if you uncheck the box or the Login Session is deactivated. Once a log file exists, any new messages will be appended to the existing log file.

Log Directory

The Log Directory field should contain the absolute path to the directory where the log file should be written.

Log Filename

The Log Filename field should contain the name to use for the log file.

6.3 Application Messages

Various types of application messages are generated including information, progress, warning, error, and debug messages. Application messages are stored in memory and written to a temporary log file. The temporary log file is created on application initialization and exists as long as the application is running. It is deleted when you exit the application. The log file is located in the temporary directory provided by the operating system. Only a subset of messages are stored in memory while all messages are written to the temporary log file. The maximum number of application messages stored in memory is controlled by the message storage setting in the Configure Messages dialog. Once the maximum is reached, older messages are deleted to make room for new messages. Setting the maximum value to a large number can impact application performance since it will increase the amount of memory used by the application. Setting this number too low can cause you to miss important messages. The application default was selected to protect against both of these scenarios. Messages stored in memory are displayed in the Main Window Message Area and the Messages dialog. The Messages dialog is shown in Figure 4. The Main Window message area only displays Info, Warning, and Error messages. The Messages dialog displays messages based on the display preferences defined in the Configure Messages dialog. By default, the Messages dialog will display information, progress, warning, and error messages. Columns in the Messages dialog can be sorted by clicking on the column header. The Messages dialog is available from the Options menu.

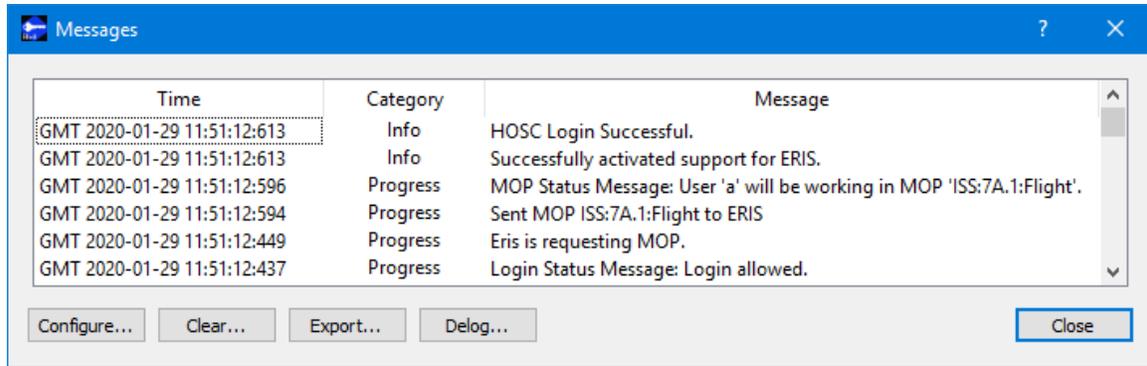


Figure 4 Messages Dialog

Configure

The Configure button provides access to the Configure Messages dialog shown in Figure 5. This dialog provides access to preferences associated with messages. Display preferences can be set to filter the types of messages (category) displayed in the Messages dialog. Export Preferences control how the time tag is added to the filename that is created when messages are exported. See the Export section for details. Message storage defines the maximum number of messages that will be stored in memory while the application is running. Once the maximum is reached, older messages are deleted to make room for new messages. The Set to Defaults button can be used to reset these properties to application defaults.

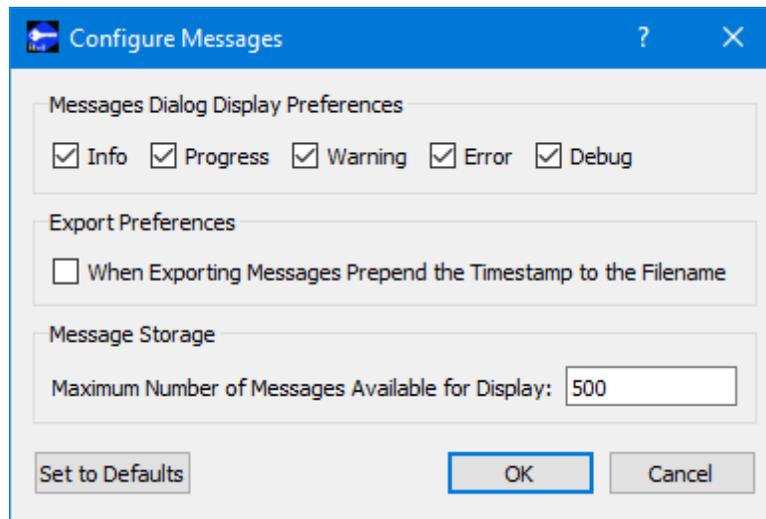


Figure 5 Configure Messages Dialog

Clear

The Clear button provides access to the Clear Messages dialog shown in Figure 6. This dialog provides two ways to clear application messages stored in memory. You can clear

all the messages or clear selected messages. Once you clear messages, the messages are permanently deleted in all views (Main Window Message Area and the Messages dialog).

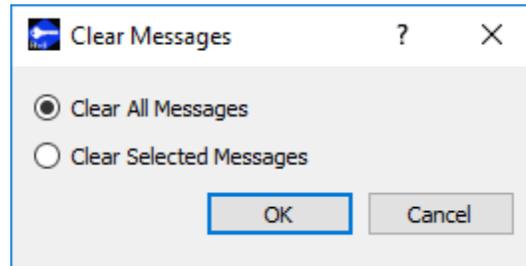


Figure 6 Clear Messages Dialog

Export

The Export button provides the capability to save all the application messages currently in memory to a file. When you push the Export button you will be prompted for a directory and filename. Export will save all messages in memory, not just the messages currently displayed in the Messages dialog (i.e. the Display Preferences are not applied). The name you provide for the file will be modified with a time tag that is added to the filename. The time tag indicates the time the file was closed. The default is to append the time tag to the filename. For example:

Filename Input: messages.txt
 Filename Output: messages_2017-05-07_13~03~28.txt

If you would like to prepend the time tag to the filename you can set this preference in the Configure Messages dialog. This would result in the following:

Filename Input: messages.txt
 Filename Output: 2017-05-07_13~03~28_messages.txt

Delog

The Delog button provides the capability to save all application messages generated since the application was started. Delog will retrieve the messages from the temporary log file. When you push the Delog button you will be prompted for a directory and filename. A timetag is not applied to the filename.

Filename Input: messages.txt
 Filename Output: messages.txt

6.4 Application Settings

The HOSC Login application saves some settings as application settings each time you exit the application. The next time you run the application, the application will initialize with the previous application settings. Only one set of settings are saved. If you run multiple instances of the application, the settings in the instance that is exited last will be saved. The following application settings are saved:

- Application Window Size
- HOSC Login Name
- HOSC Host Name or HOSC IP Address Selection
- HOSC Host Name Entry
- HOSC IP Address Entry
- HOSC Port Entry
- Configure Messages Selections
- Advanced Settings

7 FAQ and Troubleshooting

This section addresses Frequently Asked Questions and provides tips for troubleshooting common gotchas.

No FAQs Yet.