

Installation and Licensing

Installation and Licensing

Description

This section begins by identifying the minimum and recommended system requirements for DSix, together with a discussion of the process for installing DSix on your computer. This is followed by a discussion on license management and the key-based system for license control.

What you will learn

Upon completion of this section, you will be able to:

- Determine if a computer is suitable for DSix installation
- Install DSix and all **supporting software**
- **Activate software** or use a **Safenet USB dongle** to provide license for DSix use
- Run the **BAR License Utility** to view and modify license parameters

Installation

- ✈ System Requirements
- ✈ Software Dependencies
- ✈ Install DSix

System Requirements

- ✈ Supported Operating Systems
- ✈ Memory Requirements/Recommendations
- ✈ Hard Disk Space
- ✈ Required Hardware
- ✈ Optional Hardware

Supported Operating Systems

- **Windows 10** 32-bit and 64-bit
- **Windows 7** 32-bit and 64-bit
- **Windows Vista** 32-bit and 64-bit

Memory Requirements/Recommendations

4 GB RAM is *recommended* for all systems. Where this is not possible, the following represent the *minimum* requirements for memory for each of the listed operating systems.

- | | | |
|-----------------|--------|------|
| ■ Windows Vista | 32-bit | 2 GB |
| ■ Windows Vista | 64-bit | 4 GB |
| ■ Windows 7 | 32-bit | 2 GB |
| ■ Windows 7 | 64-bit | 4 GB |
| ■ Windows 10 | 32-bit | 8 GB |
| ■ Windows 10 | 64-bit | 8 GB |

Hard Disk Space

The DSix application requires a minimum of 700 MB of free hard drive space for installation.

DSix projects vary in size, and may require substantial additional disk space.

Required Hardware

- Keyboard
- Mouse or other pointing device
- DVD drive (for installation via CD-ROM)
- USB 2.0 port (for USB-based license dongles)

Optional Hardware

- **Audio Devices** Any DirectX compatible audio card will support DSix sound
- **Graphics_II** PCI Express 3d Graphics Card. BAR currently recommends the NVIDIA GeForce 1080
- **Additional Pilot Input Devices** For most desktop systems, DirectX joysticks, throttles and rudder pedals are employed. Any input device compatible with Windows® and DirectX® may be attached to DSix.

Software Dependencies

The following software is required by DSix

- Microsoft DirectX version 9c*
- Microsoft Visual C runtime libraries for VC6, VC9*
- Safenet Licensing drivers*
- TeeChart ActiveX control*

* Items marked with an asterisk are provided with the DSix installation

Additionally, the Developer version of DSix requires a Visual C++ compiler. Supported development environments are

- Visual Studio 2008, 2010, 2012, 2013, 2015, 2017

Install DSix

- Launching the installation
- Responding to installation prompts and options
- Review installation results

Launching the Installation

- Must have Administrator Privileges
- Auto-Run, or browse to <DVD Drive>\Setup.exe
- DSix is not digitally signed. Allow installation
- Allow the installation to make changes to the system

Under Windows 7, When Windows UAC is enabled, a considerable period of time may elapse while the operating system prepares this prompt. It may appear that the installation has stopped working. Please be patient, as this delay can take 20+ seconds

Responding to Installation Prompts and Options

- Application Installation Path
- Potential overwrite warning if installing over prior DSix
- Safenet Licensing Services
- C Runtime Libraries

Review Installation Results

- Safenet Software Check
 - “Sentinel Runtime” for USB.
 - “Sentinel LDK” for software licenses
- Environment Variables
- BAR_COMMON Directory
- RegLog.txt

DSix Licensing

- ❑ Trial Software License
- ❑ USB License Dongles
- ❑ LDK Software License
- ❑ Modular Licensing
- ❑ Troubleshooting
- ❑ Viewing Current Permissions / Obtaining License Updates

Trial License

- A trial license (software-based) is provided with DSix. The trial license grants fully-featured use of DSix for 60 days from time of install.
- It is recommended that a trial license be activated at earliest convenience, so work is not interrupted when trial expires. An inserted USB dongle will override the trial license.
- Re-Installation of the software WILL NOT grant a new trial period.

USB License Dongles

- Portable – USB dongles may be transferred to another machine, or to another user

- No Activation Required

Software Licenses

- No USB device to break or lose
- Remote update and activation available
- Update online or via email if sim is not connected to internet
- Transfer of software-based licenses currently under development

Online Software License Activation

- License activation code
 - Provided with delivery of hard install media
 - Provided via email if software downloaded

- Start DSix. Select ..Help..License from menu

- From drop-list select “Activate License”

- Enter Activation Code. Close with “OK”

Offline Activation

- When it is not possible to connect the DSix computer to the internet
- Start DSix. Select ..Help..License from Menu
- From drop-list select “Activate License Offline
- Select “Generate Activation Request...” OK
- Send resulting file to Bihrlle Applied Research
- When Bihrlle sends response file, open license tool, use drop-list to select “Activate License Offline”. Select “Browse to Activation File”. Browse to file from Bihrlle. OK.

Modular Licensing

DSix software is modular in nature. Licenses granted apply to a specific set of modules, according to the terms of the purchase contract. Additional licenses may be added as the need arises, either by updating a current key, or providing additional key(s).

Troubleshooting Licensing Problems

- USB license
- Software license

Troubleshooting USB license problems

- ❑ When USB dongle is not detected, the license utility will display the status of the software-based trial license provided with DSix installation.
- ❑ If machine was not restarted after installation, restart now.
- ❑ Check Safenet USB license service
 - Windows Start button, type “services” and hit Enter.
 - Ensure the service “Sentinel Keys Server” is set to start automatically, and is currently started.
- ❑ Check that the USB key is seated in the USB port
- ❑ Confirm USB port is working correctly

Troubleshooting LDK software licensing problems

- ❑ When current software license is not detected, the license utility will display the status of the software-based trial license provided with DSix installation.

- ❑ If machine was not restarted after installation, restart now.

- ❑ Check Safenet software license service
 - Windows Start button, type “services” and hit Enter.
 - Ensure the service “Sentinel LDK License Manager” is set to start automatically, and is currently started.

Licensing Problem: Permission Denied

The user is attempting to load an application or module that is not licensed using the current key.

This may occur when a demonstration license period has expired, or when the key does not contain the appropriate permission(s).

Insert the appropriate key, or contact Bihrlle Applied Research to obtain a license upgrade.

Viewing and Updating Licenses

- Viewing current license status

- Updating license status

Viewing Current License Status

- Run the BAR License Utility by selecting **Help -> License** from the DSix Menu. Note the following information from the display:
- License Type – Upper left corner. Hasp-SL (Software License) or Hasp-HL (Hardware License)
- License ID – Immediately following the License Type
- Individual License Components:
 - Name, description, type, status – Located in the center window. Individual component license types may be trial or perpetual



Flight Simulation Environment