



IWeb

Installation Guide

v5.16.5



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This documentation describes the following Scientific Technologies Corporation software: IWeb 5.16.5

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Supported Platforms

What	Supported	Notes
Number of instances	Single only	
Java server platform	1.7	As of November 2016, Java 1.8 will be supported.
Operating systems	<ul style="list-style-type: none">LinuxMicrosoft Windows	
Minimum RAM	<ul style="list-style-type: none">8+ Gb for application server16+ Gb for database	RAM requirements can vary based on the size of the state, the amount of traffic into the application, and the number of reports run simultaneously.
Minimum disc size	1 TB	
Minimum processor	2 Quad Core 64-bit processors	
Application server	Tomcat 7	
Database	Oracle 11g	Oracle 12c will be supported after August 2016.
Web browser	Internet Explorer 11	As of January 2016, Internet Explorer 8, 9, and 10 are no longer supported.

Database Installation Instructions

[Oracle 11g](#) must be downloaded and installed per the instructions provided on the website.

Once Oracle 11g has been successfully installed, follow these steps to install and configure the database for IWeb installation:

1. Install the Oracle software to C:\Oracle.
2. Create a Listener using Net Configuration Assistant. This only needs to be done once per server.
3. Create the database using Database Configuration Assistant:
 - a. Select the **General Purpose or Transaction Processing** option.
 - b. Click **Next**.
 - c. Enter **SIIS** as the Global Database Name. If there is more than one database on the environment, enter a unique SIIS name, such as **SIISTEST** or **SIISPROD**, instead.
 - d. For the SID, use the same name as the database name.
 - e. Click **Next**.
 - f. Leave the defaults and click **Next** again.
 - g. Select the **Use the Same Administrative Password for All Accounts** option. Enter a secure password, then enter it again to confirm it. Make note of the password (securely) for future use.
 - h. Click **Next**.
 - i. Click **Yes** on the pop-up about password security.
 - j. Modify the defaults per your hardware setup and click **Next** again.
 - k. Leave the defaults and click **Next** again.
 - l. Leave the defaults and click **Next** again.
 - m. Leave the defaults and click **Next** again.
 - n. Leave the defaults and click **Next** again.
 - o. Click **Finish**.
 - p. Wait for the database to finish installing. Be aware of pop-ups that may appear in the background.

- q. Click **Exit** when the installation process finishes.
4. Obtain from STC the IWeb database installation folder and any patch folders that may be needed (via SFTP, for example). If you do not have access to the folder, or if you need assistance with this step, contact IT.
5. If the database SID is anything other than **SIIS** (see [step 3c](#) above), do the following:
 - a. Edit the `import.bat` install script, changing all **@SIIS** entries to the proper **@<SID>**.
 - b. Edit the install script to change all four DBF filenames from **SIIS** to the proper SID. For example, change **SIIS.DBF** to **<SID>.DBF**, **SIISTEMP.DBF** to **<SID>TEMP.DBF**, etc.
6. Edit the install script to reflect the Oracle password entered in [step 3g](#) above.
7. Run the install script.
8. Open a command prompt and enter the command `sqlplus h33asiis/ASIIS@<SID>` to connect to the database.
9. Set the state code:
 - a. Enter the command `update h33_system set state_code='XX'` (where 'XX' is the state's two letter abbreviation, such as 'AZ').
 - b. Enter the command `commit;`
10. Verify the version number. It should match the version number in the `.dmp` file from the installation folder.
11. Enter the command `select * from h33_registry_version order by insert_stamp;`
12. If the database SID is anything other than **SIIS**, edit all patch scripts to change all **@SIIS** entries to the proper **@<SID>**.
13. Run the patch scripts in the order of oldest to newest, starting with the first version number after the version number located in [step 10](#) above.
14. Verify that the version number now. It should match the newest `.sql` file version number from the last patch script run. Note that not all versions of IWeb have an associated database patch revision. For example, the IWeb version 5.14.5.4 database only patches to version 5.14.5.3.

Application Installation Instructions

Follow these steps to install and configure IWeb version 5.16.5:

1. Download and install the [Java SE Development Kit 7u80](#) software development tools and public JRE, not the source code, according to the instructions on their website.
2. Download the [Tomcat 7](#) zip file, then extract the folder to the desired location (typically `c:\` on Windows). If desired, rename the Tomcat folder to make it more easily identifiable (`apache-tomcat-test`, `apache-tomcat-prod`, etc.).
3. Set the OS environment variables:
 - a. Create and set **JAVA_HOME** to **<root JDK folder>** (for example, `C:\Program Files\Java\jdk1.7.0_55`).
 - b. Locate the **path** variable and add this to the end: `;%JAVA_HOME%\bin`
4. Open a command prompt and change the directory to `<tomcat_folder>\bin`.
5. Create the Tomcat service by entering the command `service install <service_name>` (for example, `service install test`).
6. Set the Tomcat memory settings:
 - a. Enter the command `tomcat7w //ES//<service_name>`. If not using Tomcat 7, change the command to reflect the correct version number.
 - b. Within the new window, go to the Java tab and enter the values based on your hardware. These are example values only:
 - Initial pool = **1024**
 - Max pool = **2048**
 - Add to the last line of the text box = **-XX:MaxPermSize=256m**
 - c. Note: These values should be minimum defaults. Other environments (i.e., production) may use more memory.
7. Copy the `war` file into `<tomcat_folder>\webapps`. Note that the `war` file name is the portion of the URL that follows the trailing slash at the end, such as `http://domain.com/<war_name>`.
8. Start the Tomcat service to deploy the `war` file.
9. Change the directory to `<tomcat_folder>\webapps\<war_name>\WEB_INF\classes\`

10. Edit the `dbConfig.xml` file to point to the correct database and include the correct connection settings. Also perform the following:
 - a. If the database SID is anything other than **SIIS**, change it to the proper `<SID>`.
 - b. Enter a new secure password and confirm it if necessary.
 - c. Verify that the host attribute is pointing to the correct location. For example, set it to **localhost** if the database is on the same server.
 - d. Set the following values, based on your hardware. These values are example only:
 - **dbPoolMinSize=25**
 - **dbPoolMaxSize=250**
11. Restart the Tomcat service.
12. Verify that IWeb loads by browsing to this URL on the application server:
`http://localhost:<port_number>/<war_name>` (for example,
`http://localhost:8080/test`).