

UPGRADING SOFTWARE ON A SMARTENGINE CLUSTER(From Release 3.x to 4.x)



Table of Contents

INTRODUCTION	3
PRE-REQUISITES	3
UPGRADING THE SMARTDIRECTOR	5
UPGRADING THE SMARTENGINES	9
VALIDATION OF A SUCCESSFUL UPGRADE	12
	14



INTRODUCTION:

The smartDirector Management software allows a user an easy way to upgrade the software version on the entire cluster with little downtime.

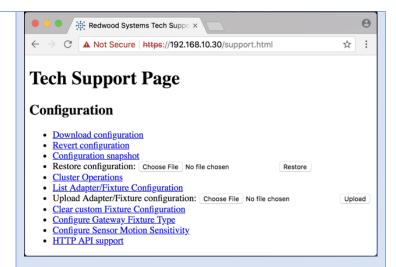
PRE-REQUISITES:

Prior to performing any software upgrades, it is a **best practice** (and highly recommended) to download critical pieces of information from the system/cluster. In this example, the smartDirector-led cluster is running **version 3.x** of the software. These steps will illustrate what a user should download before upgrading. We are assuming the newer **4.x software** image has already been acquired by the user from wtec.

Steps to follow This is what you will see Log into the smartDirector (https://<IP Address of smartDirector>) using the C ▲ Not Secure https://192.168.10.30 default admin account. Note 1: This should not be an account Your connection is not private that has admin privileges. It must be the Attackers might be trying to steal your information from 192.168.10.30 (for example, ages, or credit cards). <u>Learn more</u> default admin account. NET::ERR_CERT_AUTHORITY_INVALID Automatically send some system information and page content to Google to help detect Note 2: If you get prompted by a dangerous apps and sites. Privacy policy certificate page, please **bypass** it by HIDE ADVANCED clicking on the ADVANCED link and then This server could not prove that it is 192.168.10.30; its security certificate is not by clicking on proceeding to the trusted by your computer's operating system. This may be caused by a misconfiguration or an attacker intercepting your connection. smartDirector's login page. This is Proceed to 192.168.10.30 (unsafe) simply an indication of an unsigned certificate. The web browser used in this example is Google Chrome. For other web browsers you may get notified of the connection not being private (**Safari**) or secure (**Firefox**), or the site not being secure (**Internet Explorer**) etc. Simply bypass it. After a successful login, once the main splash page appears, click on the button for Admin Tools. Note in this example the cluster is running version **3.x** of the software.



The **Tech Support Page** will appear.

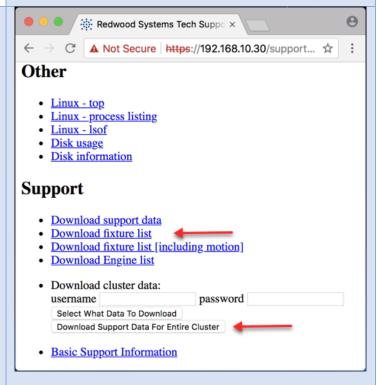


Step 2.

Scroll down to the last section of the page called **Support**.

- a) Download the **fixture** list. The downloaded file will be called fixture.csv
- b) Input the admin credentials in the fields available for Download Cluster data option and click on the button to "Download Support Data for the Entire Cluster". This will take a little time to download as the smartDirector will collect all the information from every single cluster member and package it all up. The downloaded file will be named similar to

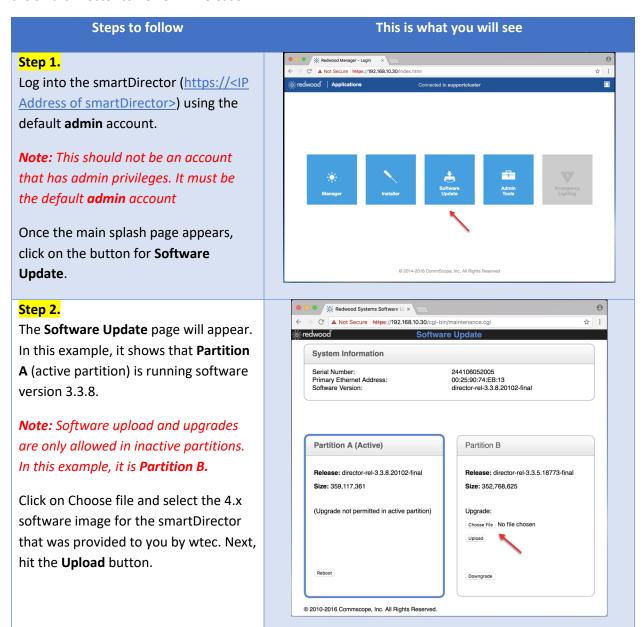
ClusterDataFor_<smartDirector name>(<smartDirector IP>)_XXXXXXXXXXXXXXX.tgz. It is a compressed file.



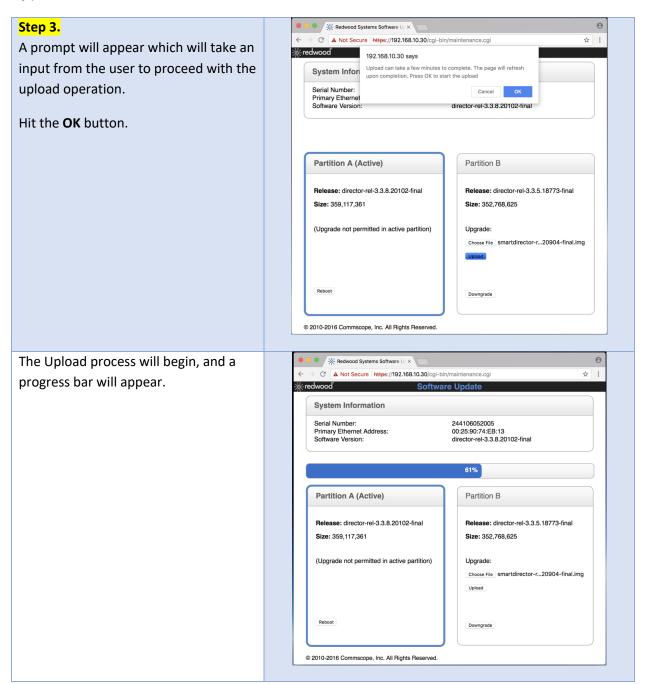


UPGRADING THE SMARTDIRECTOR:

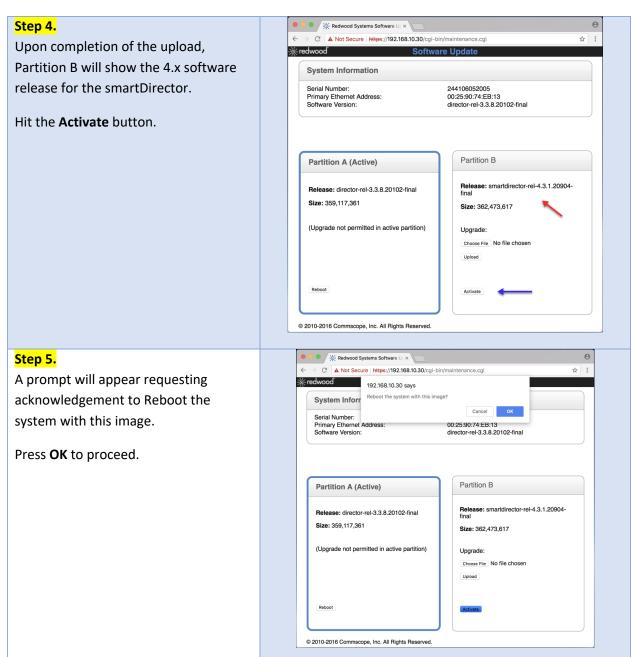
After the important pieces of information have been gathered, a user can now proceed with upgrading the smartDirector to newer 4.x release.









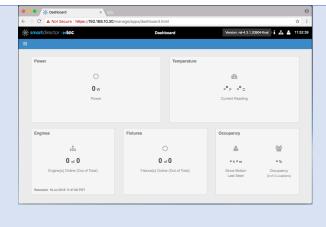


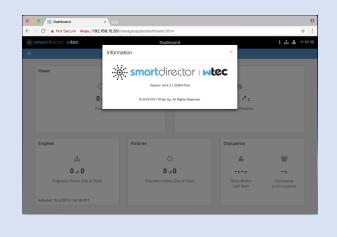


The smartDirector will proceed with booting up with the 4.x software image. Give it a couple of minutes while the system reboots. *Note: Do not power cycle the smartDirector*. Once HTTPS access is restored again, a user can try accessing the UI @ <a href="https://<IP Address of smartDirector">https://<IP Address of smartDirector>. Now you will see a landing page which is different than what one would have experienced with version 3.x.

If the user hovers over the "i" icon on the top right corner or clicks on it, a verification of the newer software 4.x will be revealed.

At this point the smartDirector upgrade is now complete and the user can proceed with upgrading the entire cluster with the same software release.





UPGRADING THE SMARTENGINES:

After the smartDirector is upgraded to the newer version, it will no longer be able to communicate with the smartEngines since there will be a mismatch of the release, however, it will be able to see all available smartEngines that are part of the cluster. By using the **Cluster Management** tool, one will be able to upgrade all the cluster members to be on the same version as the smartDirector.

Below are the steps that a user will have to take in order to upgrade the software version on the entire cluster

Steps to follow

This is what you will see

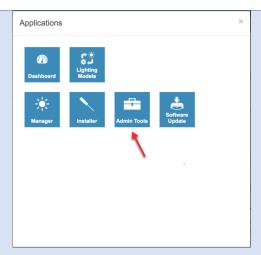


Step 1.

Login to the smartDirector Manager using the default **admin** account.

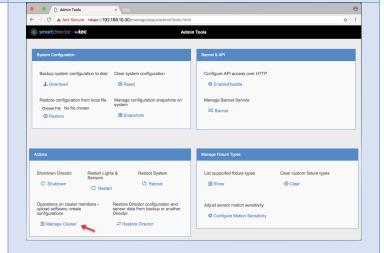
Note: This should not be an account that has admin privileges. It must be the default **admin** account.

 Access the Applications menu and click on Admin Tools.



Step 2.

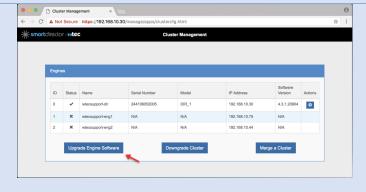
Under the Actions section click on **Manage Cluster.**



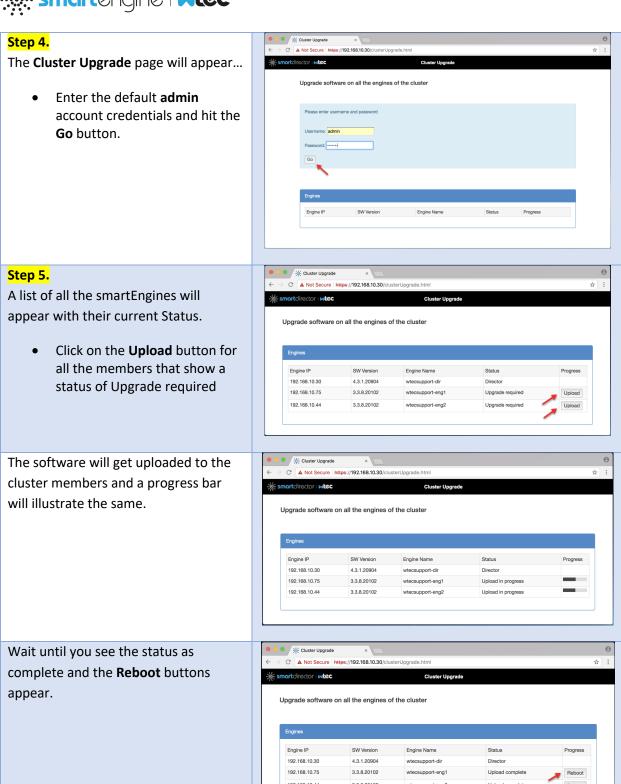
Step 3.

This will bring up the **Cluster Management** page. Notice that you can see the Software version for the smartDirector, but it is not visible for the cluster members yet.

• Click on **Upgrade Engine Software** button.





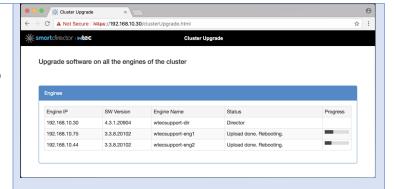




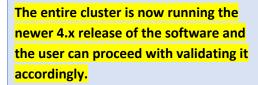
Step 6.

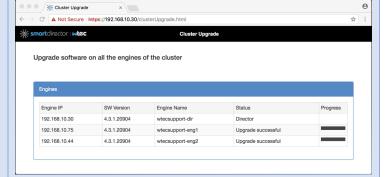
You can choose to Reboot all the smartEngines at once or you can stagger the operation assuming you do not want the entire site to lose lights temporarily at the same time.

• Hit the **Reboot** button(s)



Once the smartEngines have been rebooted they will cluster up themselves and the status will show a successful upgrade. Notice the SW Version column having the same version as the smartDirector.

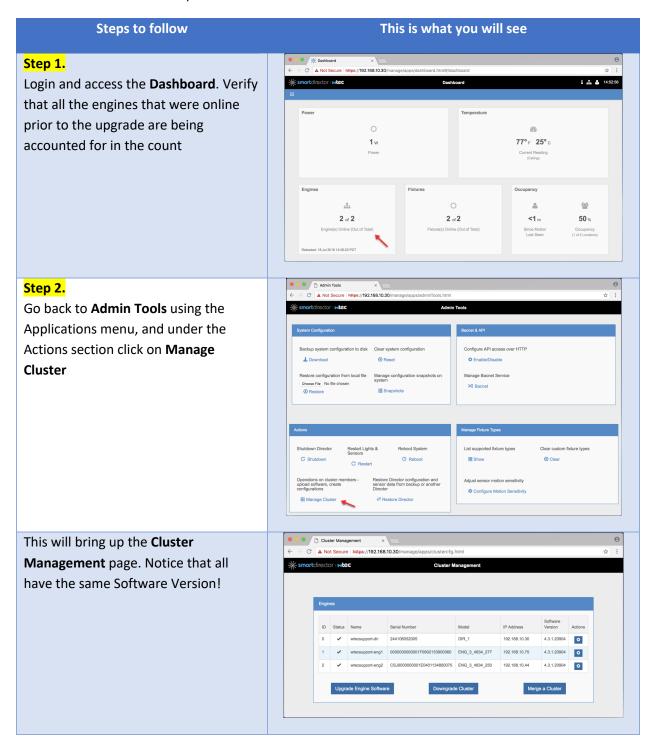






VALIDATION OF A SUCCESSFUL UPGRADE:

While the above should be sufficient to indicate a successful upgrade, there are additional steps a user should take to validate the operation.



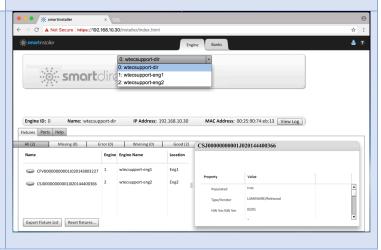


Step 3.

Access the **Applications** menu again and click on **Installer**



The smartInstaller page will appear. Use the drop-down menu and scroll through verifying that all the engines appear as they did when the system was on version 3.3.8.





POST-UPGRADE DOWNLOAD OF INFORMATION:

It is a **best practice** (and highly recommended) that the user downloads key information from the cluster after a successful software upgrade. This information should be kept safe place in the event it is needed at a later time.

