

UPGRADING SOFTWARE ON A SMARTENGINE CLUSTER (running software version 4.x)



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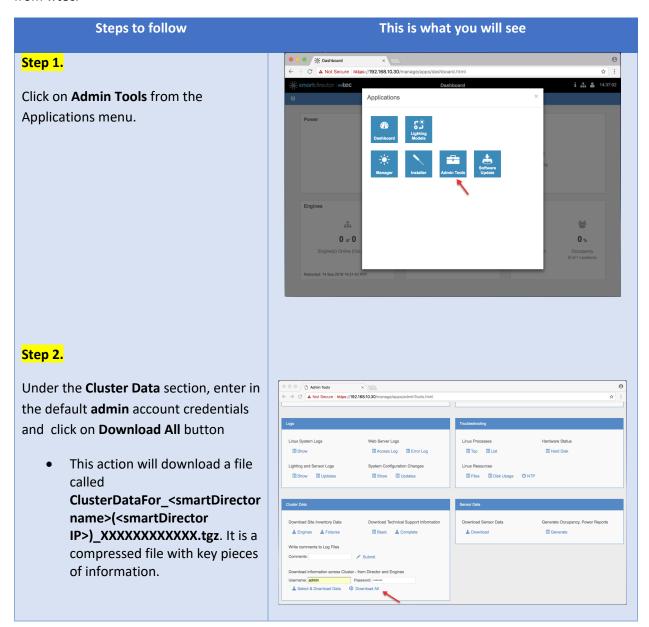


INTRODUCTION:

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

PRE-REQUISITES:

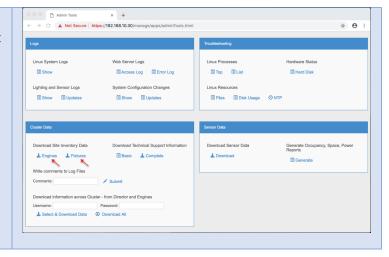
Prior to performing any software upgrades, it is a **best practice** (and highly recommended) to download critical pieces of information from the system/cluster. In this example, the smartDirector-led cluster is running **version 4.3.1** of the software. These steps will illustrate what a user should download before upgrading. We are assuming the newer **4.3.2 software** image has already been acquired by the user from wtec.





Download the **Site Inventory Data** as well as the Complete Technical Support information from the smartDirector

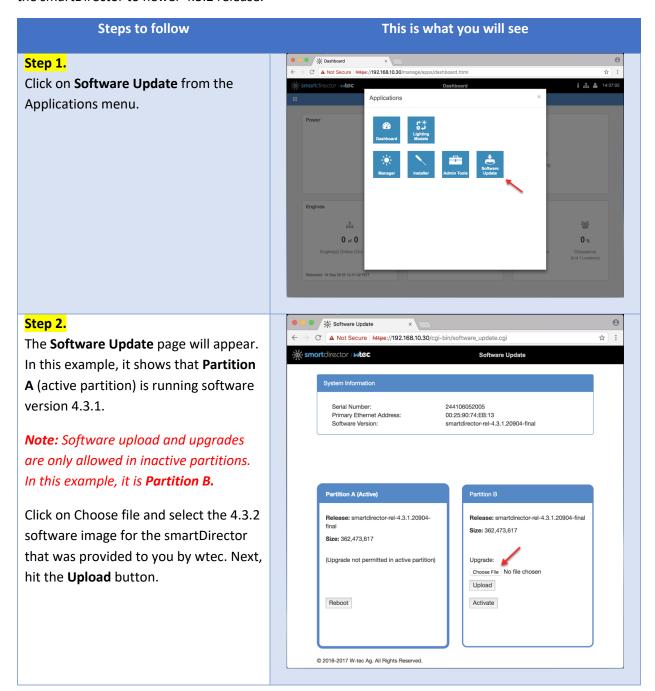
- The link for Engines will download a file called engines.csv
- The link for Fixtures will download a file called fixture.csv



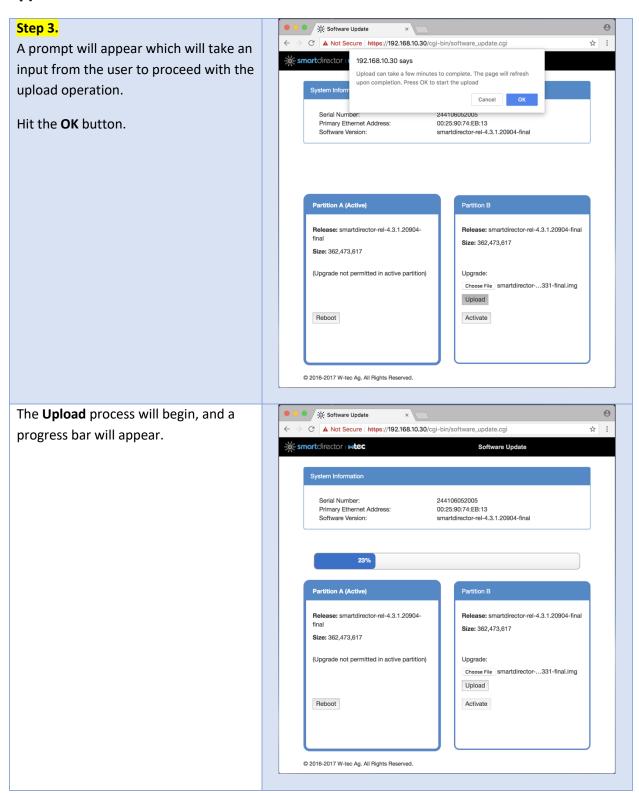


UPGRADING THE SMARTDIRECTOR:

After the important pieces of information have been gathered, a user can now proceed with upgrading the smartDirector to newer 4.3.2 release.





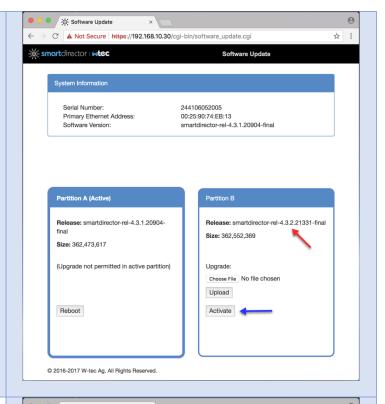




Step 4.

Upon completion of the upload, Partition B will show the 4.3.2 software release for the smartDirector.

Click on the Activate button.



Step 5.

A prompt will appear requesting acknowledgement to **Reboot** the system with this image.

Press **OK** to proceed.



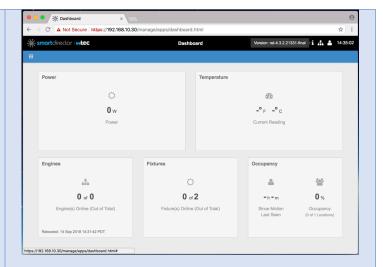


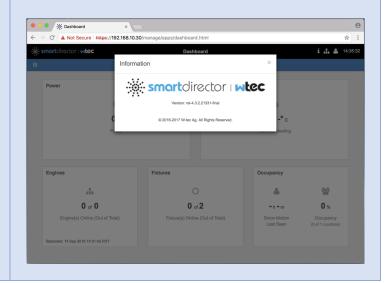
The smartDirector will proceed booting up with the 4.3.2 software image. Give it a couple of minutes while the system reboots. *Note: Do not power cycle the smartDirector.* Once HTTPS access is restored again, the user can try accessing the UI @ <a href="https://<IP Address">https://<IP Address of smartDirector>.

Notice that the Engines section does not show what you would expect. This is because the engines in the cluster are not on the same software version as the Director!

If the user hovers over the "i" icon on the top right corner or clicks on it, a verification of the newer software 4.3.2 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 4.3.2 software release.



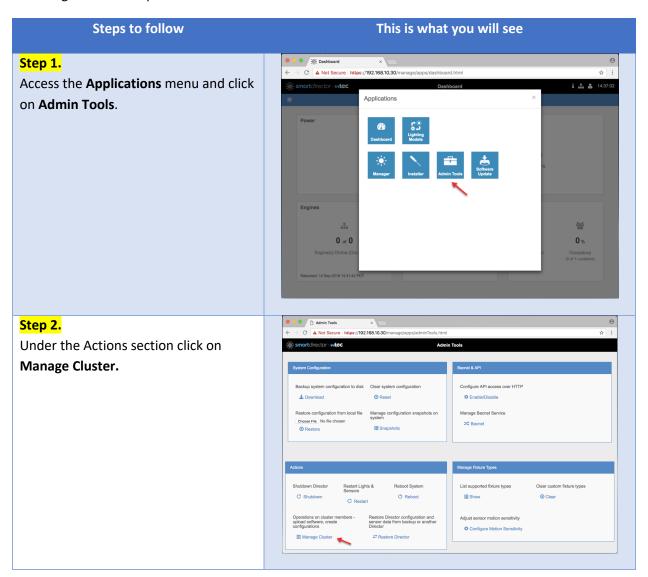




UPGRADING THE SMARTENGINES:

After the smartDirector is upgraded to the newer 4.3.2 version, it will no longer be able to communicate with the smartEngines since there will be a mismatch of the software 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 all the smartEngines that are part of the cluster.

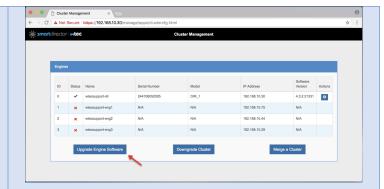




Step 3.

This will bring up the **Cluster Management** page. Notice that you can see the Software version and other information for the smartDirector, however the same is not available for the cluster members yet.

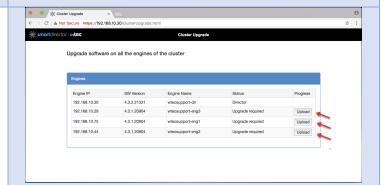
Click on Upgrade Engine
Software button.



Step 4.

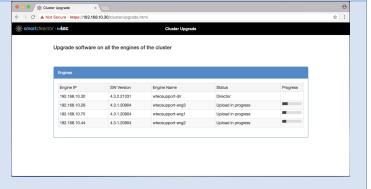
A list of all the smartEngines will appear with their current Status.

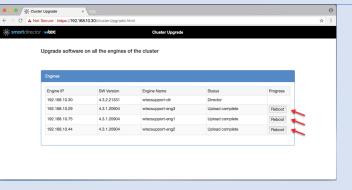
 Click on the **Upload** button for all the members that show a status of Upgrade required



The software will get uploaded to the cluster members and a progress bar will illustrate the same.

Please wait until you see the status as complete and the **Reboot** buttons appear.







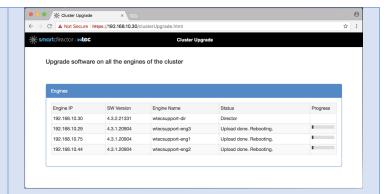
Step 5.

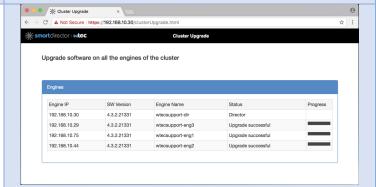
You can choose to Reboot all the smartEngines at once or you can stagger the operation assuming you do not want the entire site to lose lights temporarily at the same time.

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.

The entire cluster is now running the newer 4.3.2 release of the software and the user can proceed with validating it accordingly.

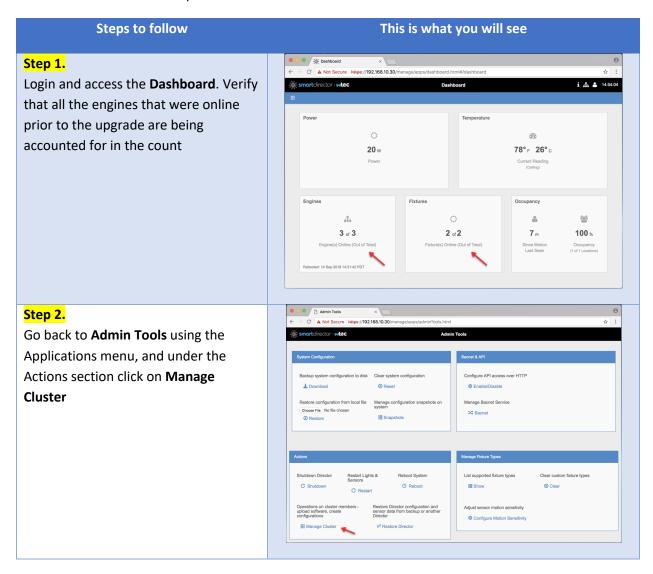




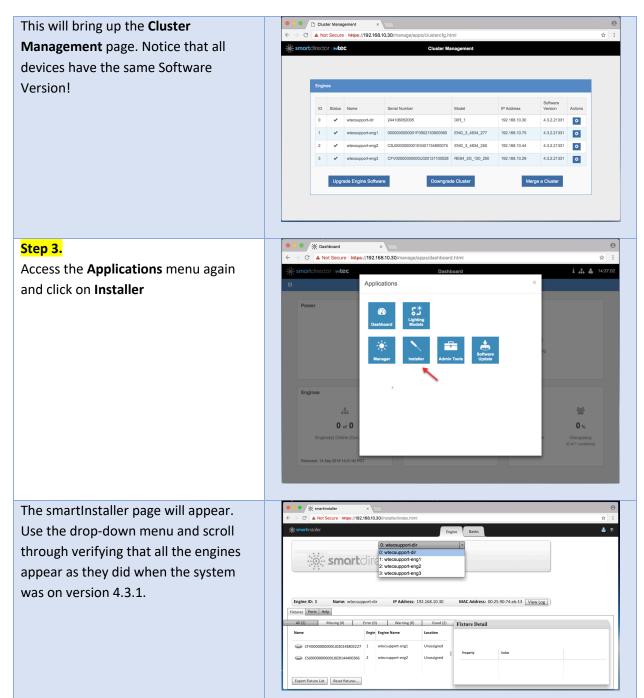


VALIDATION OF A SUCCESSFUL UPGRADE:

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









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.

