

Approach for MAC Utility Installation

UTIITSL in process of implementation of MAC Utility for the machines at all the centres of the PSA's those who all working on behalf of UTIITSL for PAN card processing. The application will be accessed only when the Mac ID is configured with the respective systems. Hence this utility needs to be downloaded in the respective systems for smooth functioning of the application for enhanced data security.

The process needs to be followed for the installation process is as under:

Installation Instruction for Mac Utility on Windows OS

Step 1:- The utility software is available at the user's home screen of the application.

Download MAC Utility Software (macutility.zip) from respective portal after login.

Step 2:-

- Extract the macutility.zip to the folder macutility; this will be downloaded at your download folder of local machine.

For example d:\macutility or users may check with respective of the local system.

Step 3:- Setting JRE_HOME Environment Variable. (Please note, if jre 8.0 or higher version is installed at the local machine then JRE_HOME may set otherwise users may download as follows)

To download the JRE package click on the link

<https://www.oracle.com/technetwork/java/javase/jre8-downloads-2133155.html>

To download the package you may need oracle's login credential. Once the login credential created for yourself you have to download the package based on your Operating System configuration

Otherwise the user can download the JRE from our google drive for Windows 32/Windows 64 bit OS. User may use the link

<https://drive.google.com/drive/folders/1Mfk9RH3erGIdqS2VkHMy74-R4Eevdqlr?usp=sharing>

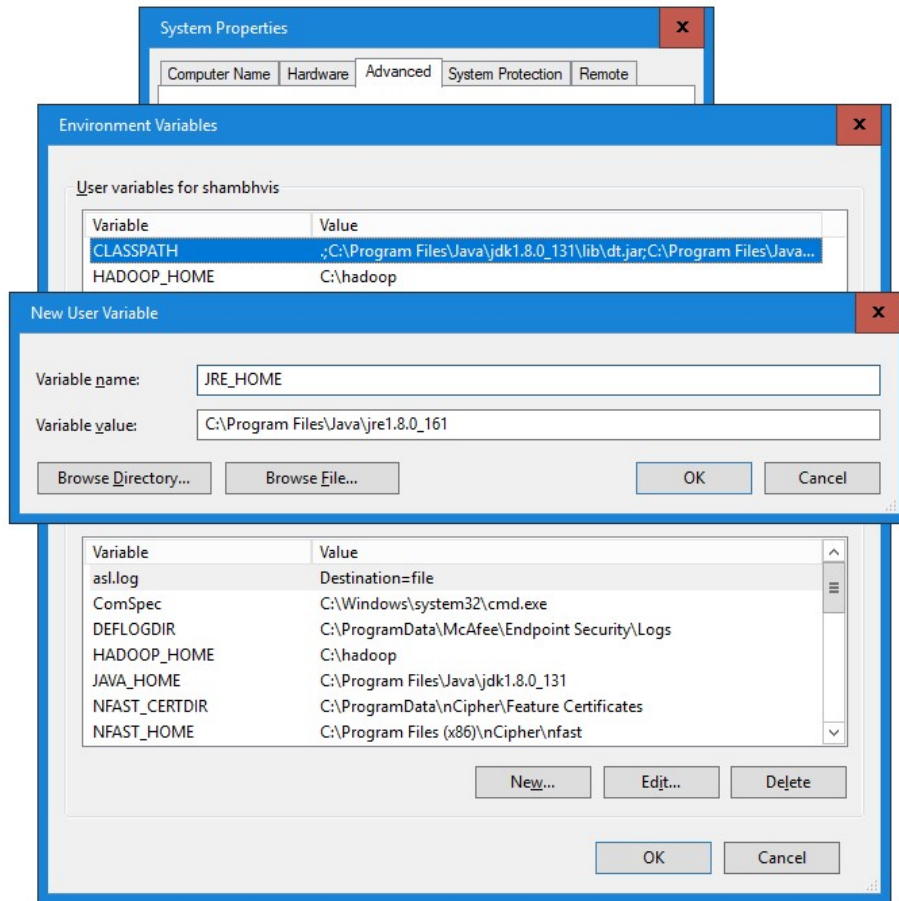
Please note **jre-8u221-windows-i586.exe** is for 32 bit windows OS and **jre-8u221-windows-x64.exe** for Windows 64 bit OS

- If JDK is installed on the machine then set the JRE_HOME variable pointing to your JRE installation folder , for example,

C:\Program Files\Java\jdk1.8.0_131\jre.

- If only JRE is installed on the machine then set JRE_HOME by pointing to JRE installation folder, for example, C:\Program Files\Java\jre1.8.0_161

For example, if you set the JRE_HOME variable in the Windows 7 environment or higher version, the **Environment Variables** dialog will look like the following screenshot



Note: if jre is not installed then download the latest jre package and install before setting JRE_HOME variable

Step 4 :- Open command prompt (cmd).

- Cd\
- cd macutility

// instruction to install service.bat file.

- service.bat install

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Administrator: Command Prompt
Microsoft Windows [Version 10.0.15063]
(c) 2017 Microsoft Corporation. All rights reserved.

C:\Windows\system32>cd\
C:\>d:
D:\>cd D:\macutility

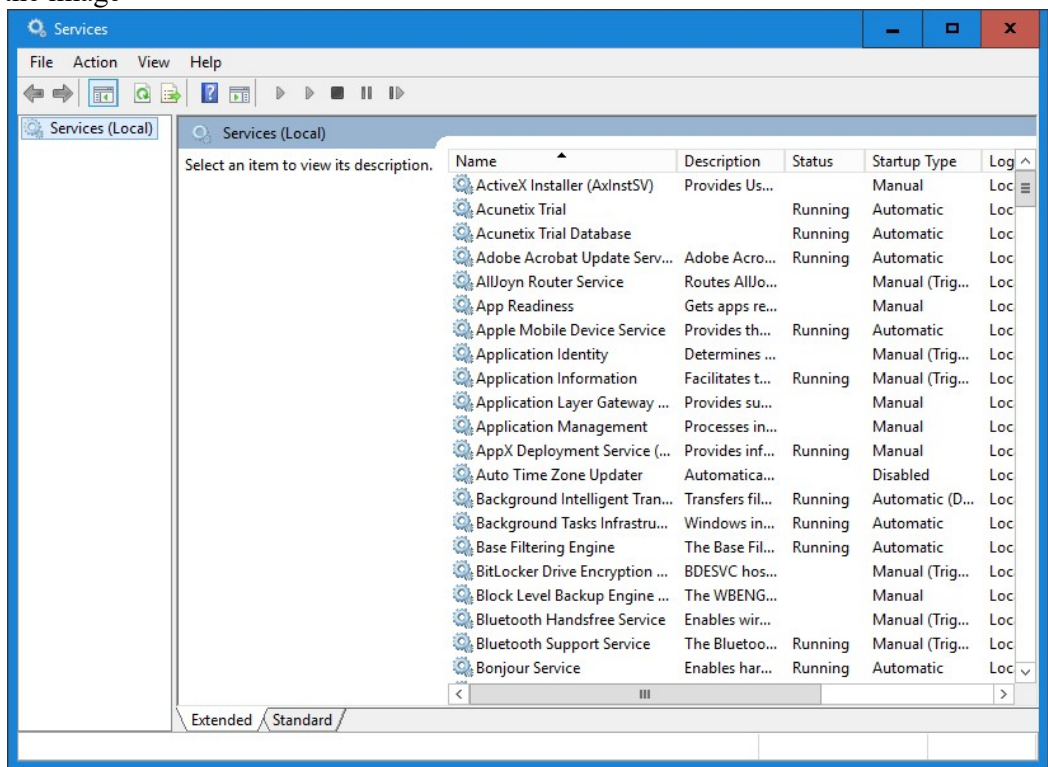
D:\macutility>service.bat install
The JRE_HOME environment variable was detected.
C:\Program Files\Java\jre1.8.0_161
C:\Program Files\Java\jre1.8.0_161\bin\server\jvm.dll
Installing the service 'D:\macUtility\prunsvr.exe' 'UtiitslMacUtility' ...
Exiting service.bat ...

D:\macutility>_

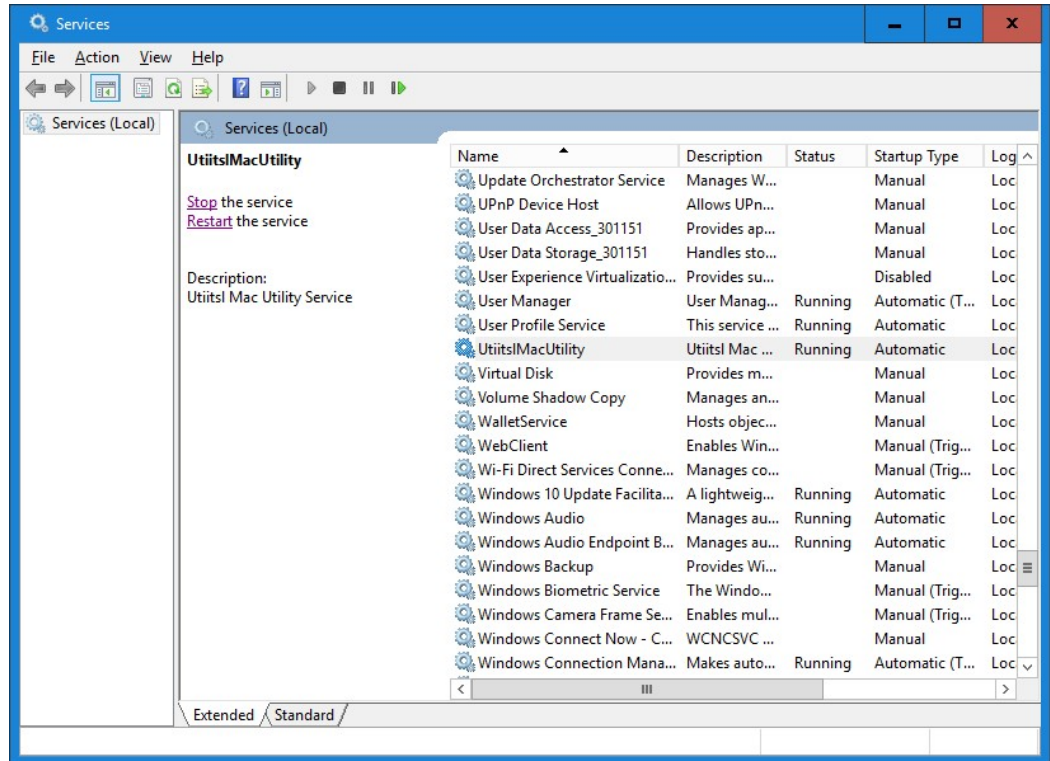
```

Step 4:- Verify mac utility service status

- Open run window (Win+R)
- Type services.msc command and then enter, the screen will open shown as in the image



- Find Utiitsl MacUtility from the list and If service is installed successfully status will look like the image shown as below



- For restarting click on restart link
- For stopping the service click on stop link

Instruction for uninstalling MAC utility from Windows OS

Step 1:-

Open command prompt (cmd).

- Cd\
• cd macutility

Step 2:-

Remove service.bat file.

Type service.bat removes

```
Administrator: Command Prompt
Microsoft Windows [Version 10.0.15063]
(c) 2017 Microsoft Corporation. All rights reserved.

C:\Windows\system32>cd\

C:\>d:

D:\>cd macutility

D:\macutility>service.bat remove
The JRE_HOME environment variable was detected.
C:\Program Files\Java\jre1.8.0_161
C:\Program Files\Java\jre1.8.0_161\bin\server\jvm.dll
Removing the service 'D:\macutility\prunsv.exe' 'UtiitslMacUtility' ...
The service 'UtiitslMacUtility' has been removed
Exiting service.bat ...

D:\macutility>
```