

MORPHO RD SERVICE INSTALLATION

How to Install RD Service

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VISIT WWW.RDSERVICEONLINE.COM

← → ↻ Secure | https://rdserviceonline.com

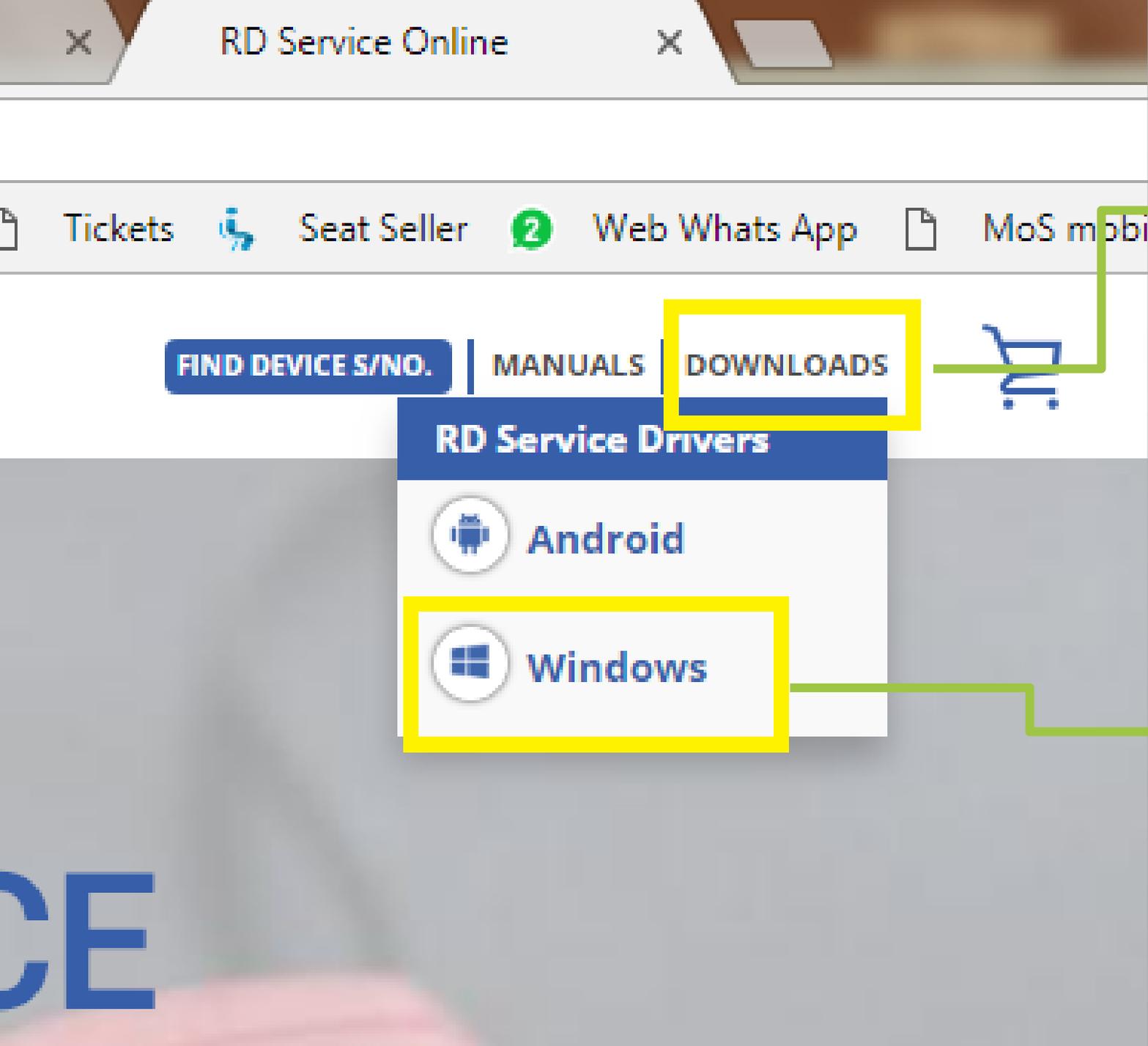
Apps Mos Reports GoAdmin ® 3.0 Ho Panel Yes Bank Money On Mobile IRCTC ADMIN Tickets Seat Seller Web Whats App MoS mo

☰ RD Service FIND DEVICE S/NO. | MANUALS | DOWNLOADS 🛒

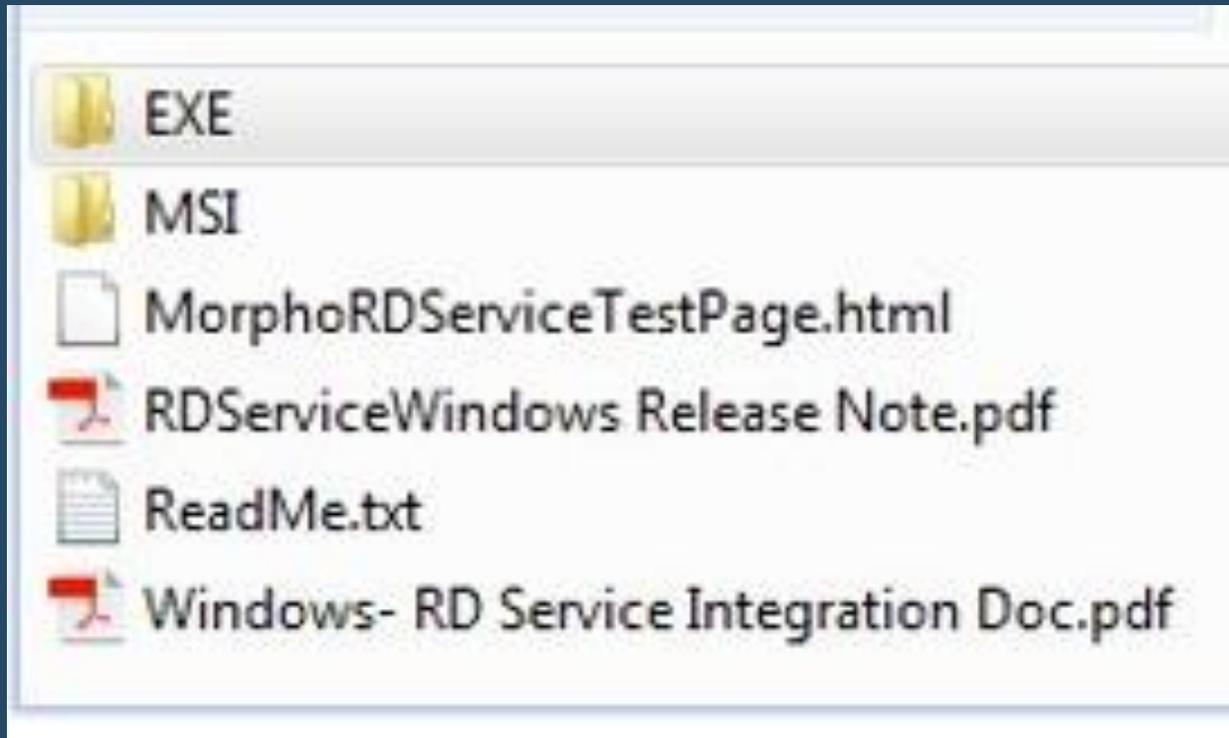
RD SERVICE

Register your MSO 1300 E device with UIDAI

REGISTER NOW



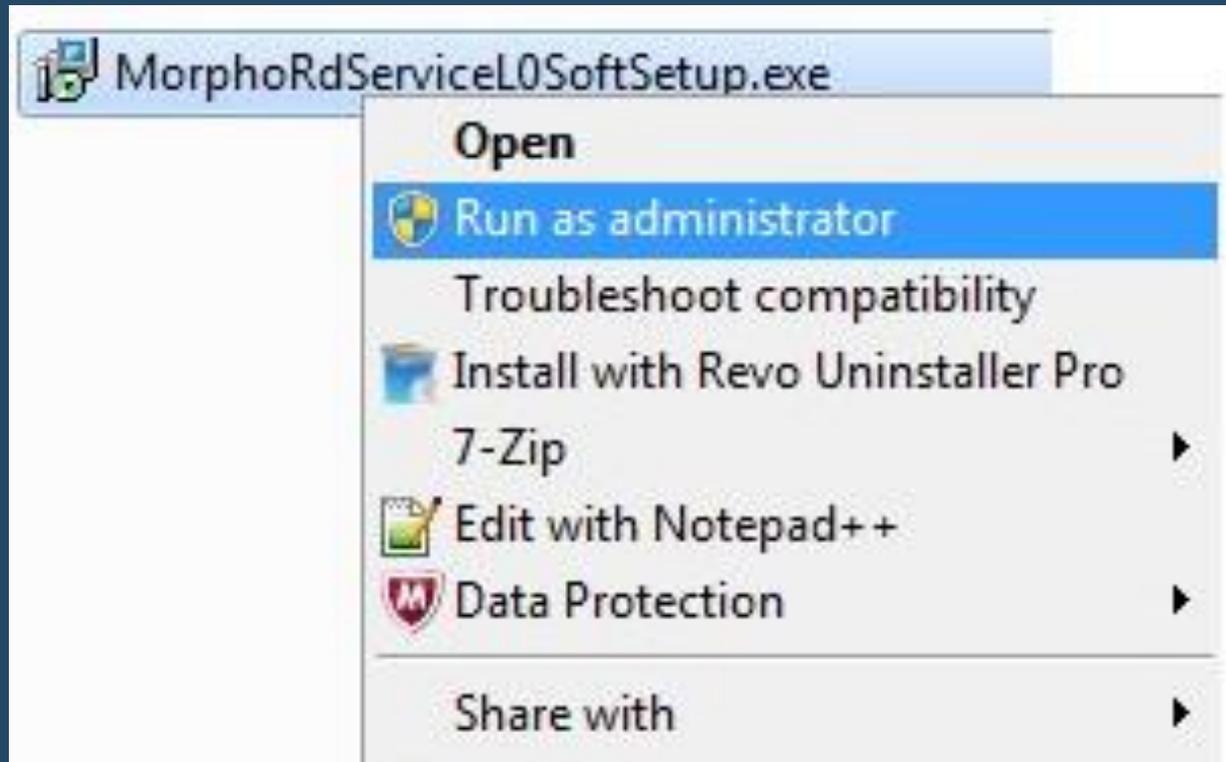
- Click on the downloads option on the website which highlighted in yellow
- When you click on the download option you will get an option to download windows and android.
- Select the windows option and then open the file in drive which it has been downloaded.



STEPS:
VISIT ON THE WEBSITE
[HTTPS://RDSERVICEONLINE.COM/](https://rdserviceonline.com/)

1. OPEN THE EXE FOLDER
INCLUDED WITH RD
PACKAGE.

2. RIGHT CLICK ON EXE
AND RUN AS
ADMINISTRATOR.



FOLLOW THE INSTRUCTION IN SETUP WIZARD TO COMPLETE
THE INSTALLATION.
MSO DEVICE DRIVER INSTALLATION:



ON SUCCESSFUL INSTALLATION, PLEASE MAKE SURE FOLLOWING PATH IS CREATED ON C DRIVE WITH 35 FILES.

Organize ▾ Include in library ▾ Share with ▾ New folder

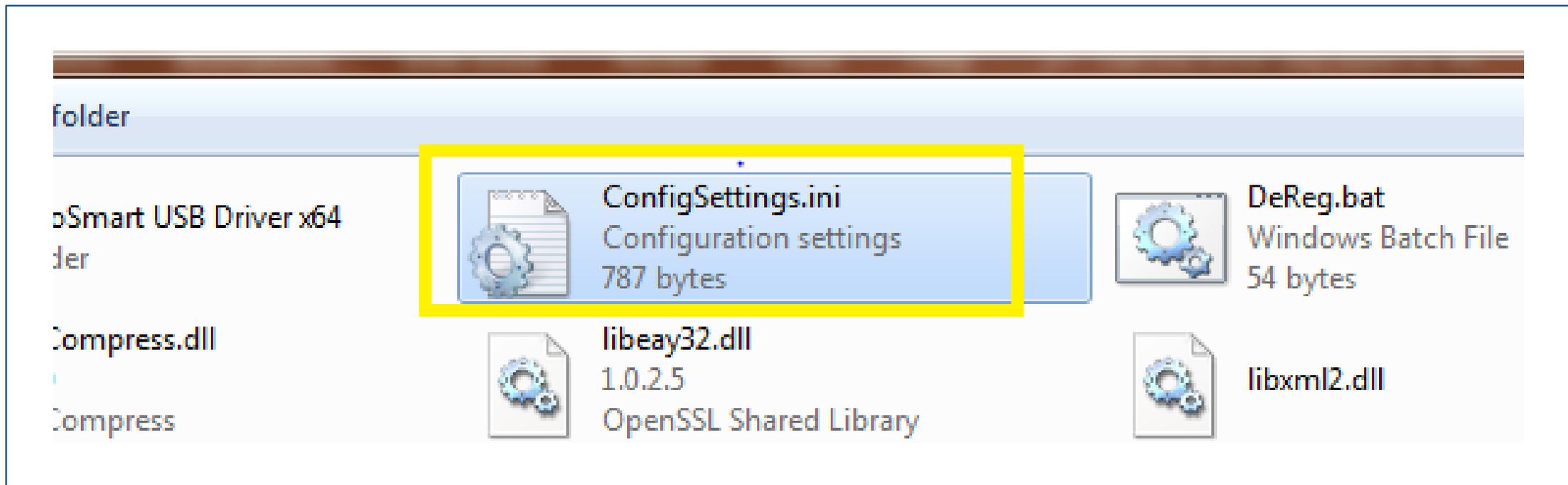
★ Favorites
Desktop
Downloads
Recent Places
Dropbox
OneDrive

Libraries
Documents
Music
Pictures
Videos

Computer
Local Disk (C:)
Local Disk (D:)
System Reserved (F:)
Status (\\192.168.1.11\B:)

Network

File Name	File Type	Size
MorphoSmart USB Driver x64	File folder	
ImageCompress.dll	ImageCompress	6.16.0.0
MORPHO_SDK.dll	MorphoSmart SDK interface	6.16.0.0
MSO_Sprs232.dll	MSO_Sprs232	6.16.0.0
MSOSECU.dll	MSOSECU	6.16.0.0
msvcp100d.dll	Microsoft® C Runtime Library	10.0.21003.1
msvcr90.dll	Microsoft® C Runtime Library	9.0.30729.1
msvcr120.dll	Microsoft® C Runtime Library	12.0.21005.1
server.crt	Security Certificate	1.40 KB
unins000.dat	DAT File	4.27 KB
ConfigSettings.ini	Configuration settings	787 bytes
libeay32.dll	OpenSSL Shared Library	1.0.2.5
MorphoGLog.dll	MorphoSmart SDK interface	6.16.0.0
Mso_SpUsb.dll	Mso_SpUsb	6.16.0.0
msvcp90.dll	Microsoft® C++ Runtime Library	9.0.30729.1
msvcp120.dll	Microsoft® C Runtime Library	12.0.21005.1
msvcr90d.dll	Microsoft® C Runtime Library	9.0.30729.1
MSVCRT.dll	Microsoft (R) C Runtime Library	6.0.8168.0
server.key	KEY File	1.69 KB
unins000.exe	Setup/Uninstall	51.52.0.0
DeReg.bat	Windows Batch File	54 bytes
libxml2.dll		
MorphoInteractiveRDService.exe	It manages the Morpho RD Service MorphoInteractiveService	
MSO100.dll	MSO100	6.16.0.0
msvcp90d.dll	Microsoft® C++ Runtime Library	9.0.30729.1
msvcr71.dll	Microsoft® C Runtime Library	7.10.3052.4
msvcr100.dll	Microsoft® C Runtime Library	10.0.40219.1
MSVCRTD.dll	Microsoft (R) C Runtime Library	6.0.8168.0
ssleay32.dll	OpenSSL Shared Library	1.0.2.5
zlib1.dll	zlib data compression library	1.3.0.0
iconv.dll	LGPLed libiconv for Windows NT...	1.11.0.0
Morpho_API.dll	Morpho Dynamic Link Library	1.16.616.0
MorphoRdServiceL0Soft.exe	MorphoRdServiceL0Soft Smart Chip Pvt Ltd	
msoDevice.p12	Personal Information Exchange	2.66 KB
msvcp100.dll	Microsoft® C Runtime Library	10.0.30319.1
msvcr80.dll	Microsoft® C Runtime Library	8.0.50727.762
msvcr100d.dll	Microsoft® C Runtime Library	10.0.40219.325
Reg.bat	Windows Batch File	169 bytes
uidai_public.crt	Security Certificate	1.89 KB



**CLICK ON THE
CONFIGSETTING.INI**

;0 for Staging, 1 for Pre-Production, 2 for Production

RDEnviroment:2

;0 for disable, 1 for Enable

RDSERVICELOGS:0

;0 for disable, 1 for Enable

ClientValidation:0

Validate Management Server Certificate -- 0 for Yes, 1 for No

ValidateCertificate:0

Proxy Configuration -- 0 for Direct Internet Access, 1 for Access via Proxy

ProxyConfig:0

ProxyIP: [Proxy IP]

ProxyPort: [Proxy Port]

;0 for Https, 1 for Http

CommunicationMode: 1|

Port Range Setting in below field

PortBegin: 11100

PortEnd: 11120

ManagementServerURL

Registration: <https://rdm.smartbioplus.com/rdm-device-app/registration>

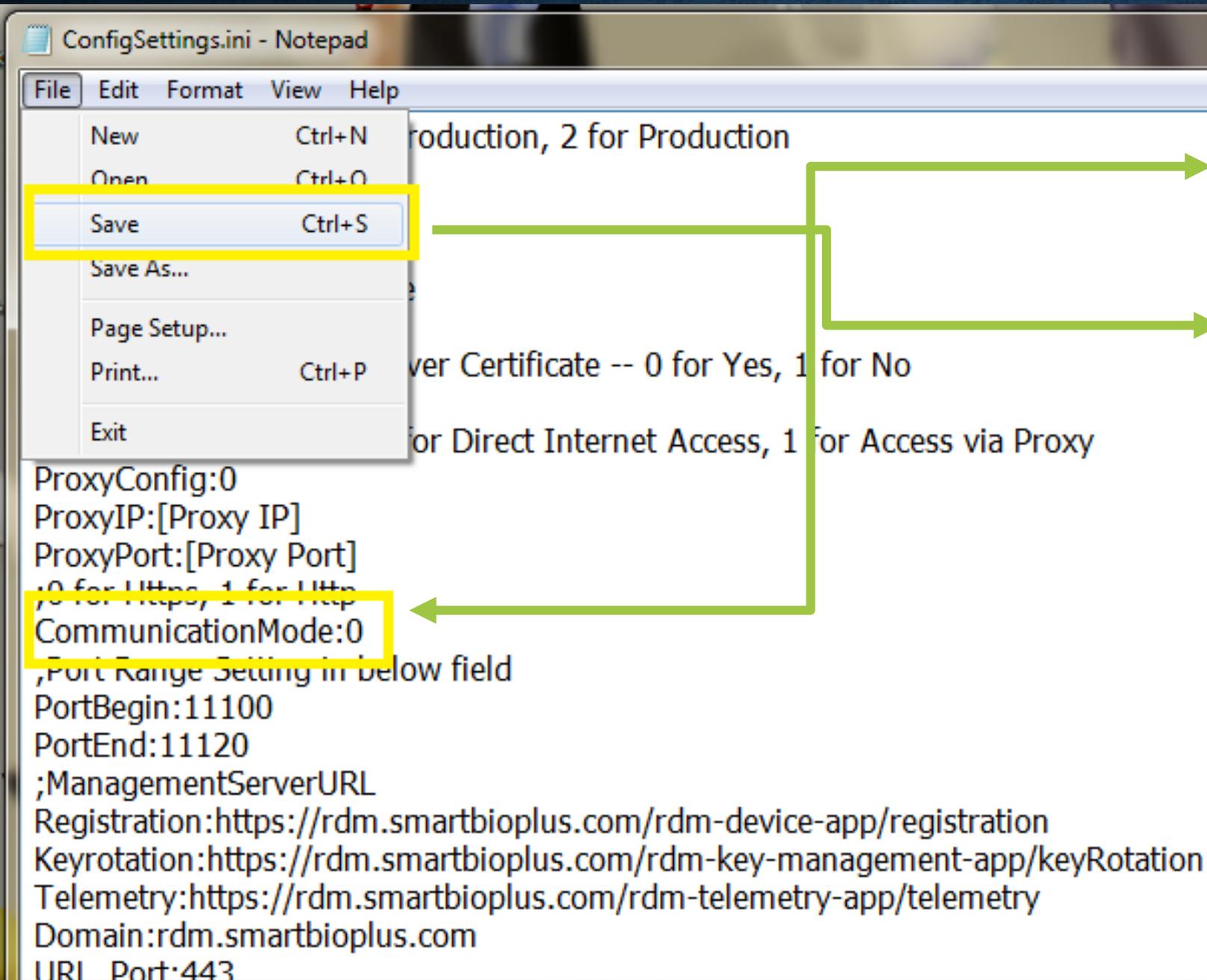
Keyrotation: <https://rdm.smartbioplus.com/rdm-key-management-app/keyRotation>

Telemetry: <https://rdm.smartbioplus.com/rdm-telemetry-app/telemetry>

Domain: rdm.smartbioplus.com

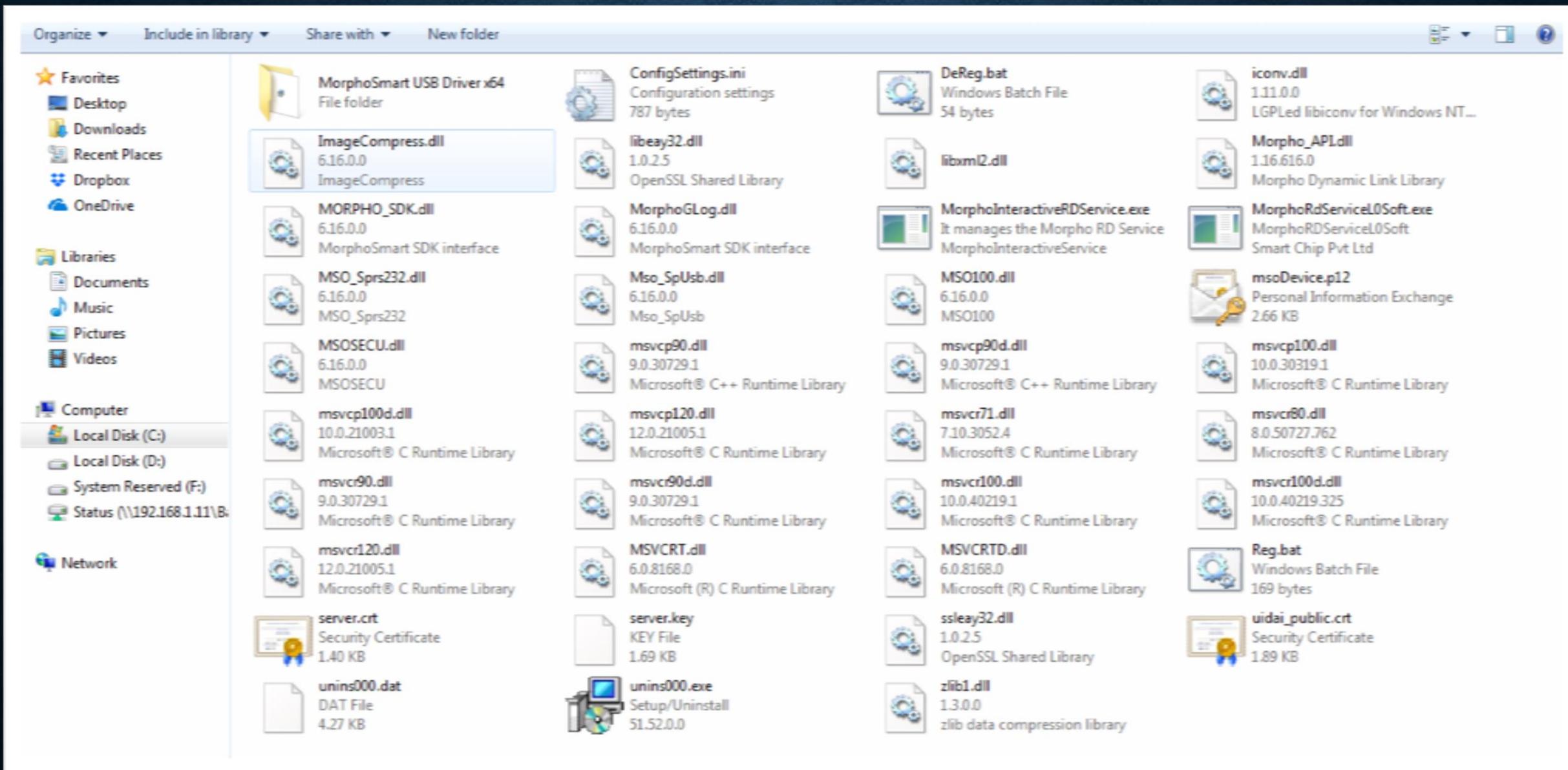
URL_Port: 443

- Change the Communication mode from 1 to 0



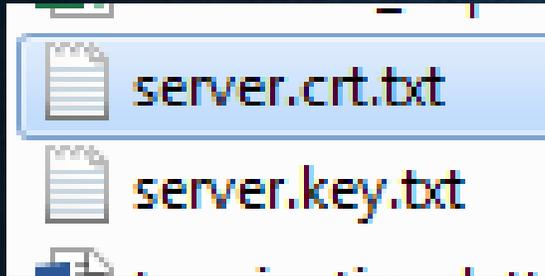
- After changing the communication mode from 1 to 0
- Save the file and close it

- Now Copy and paste the certificate sent to you by your service Provider which is multilink. Which sent you along with the installation guide in your email



After that you need to rename the file which mentioned below

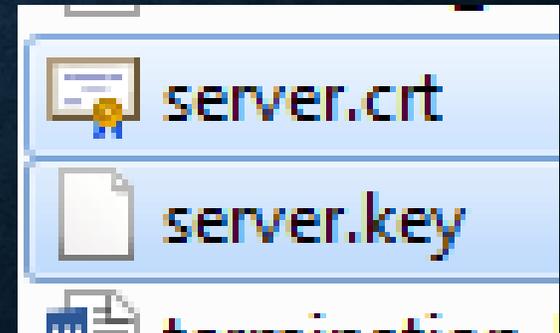
Previous Name



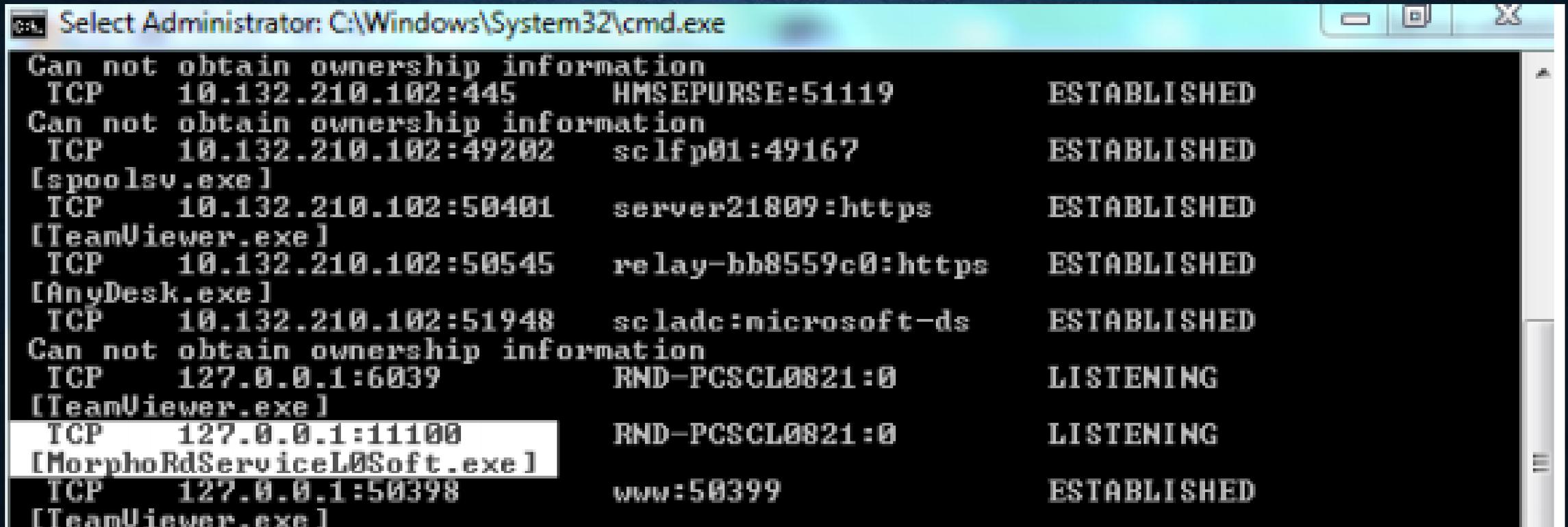
server.crt.txt rename it to server.crt
server key.txt to server.key

After renaming the names you need to copy both the files and paste it in the C drive the where the installation is complete i.e.
(C:\MorphoRdServiceL0Soft)

New Name



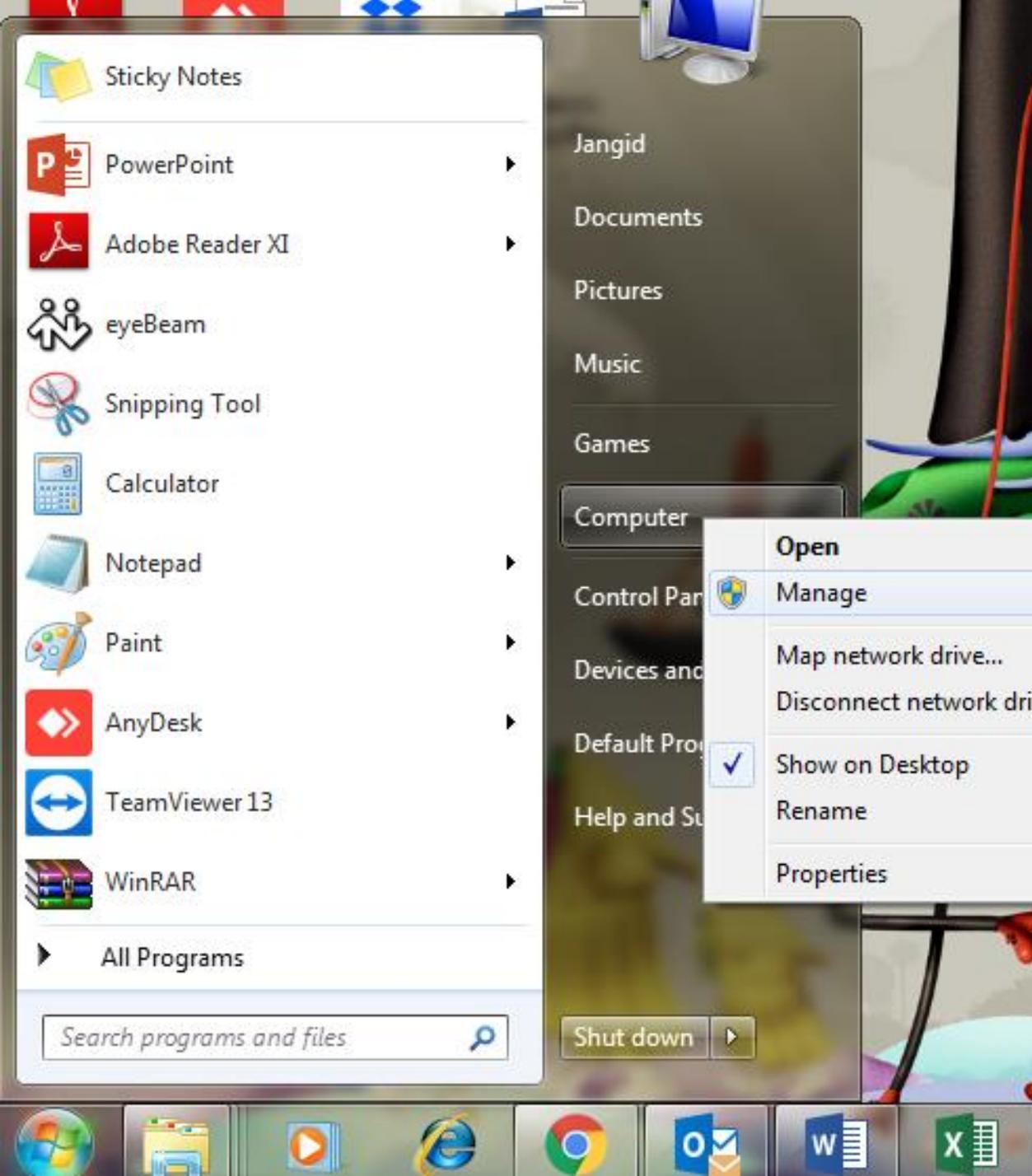
3. TO CHECK THE RD SERVICE IS RUNNING , PLEASE RUN FOLLOWING COMMAND ON RUN WINDOW IN ADMINISTRATIVE MODE NETSTAT -AB IN CASE OF SUCCESSFUL INSTALLATION, FOLLOWING RD SERVICE STATUS WOULD BE SHOWN



```
Select Administrator: C:\Windows\System32\cmd.exe
Can not obtain ownership information
TCP    10.132.210.102:445      HMSEPURSE:51119      ESTABLISHED
Can not obtain ownership information
TCP    10.132.210.102:49202   sc_lfp01:49167       ESTABLISHED
[spoolsv.exe]
TCP    10.132.210.102:50401   server21809:https     ESTABLISHED
[TeamViewer.exe]
TCP    10.132.210.102:50545   relay-bb8559c0:https  ESTABLISHED
[AnyDesk.exe]
TCP    10.132.210.102:51948   scladc:microsoft-ds  ESTABLISHED
Can not obtain ownership information
TCP    127.0.0.1:6039         RND-PCSCLE0821:0     LISTENING
[TeamViewer.exe]
TCP    127.0.0.1:11100       RND-PCSCLE0821:0     LISTENING
[MorphoRdServiceL0Soft.exe]
TCP    127.0.0.1:50398       www:50399             ESTABLISHED
[TeamViewer.exe]
```

4. PLUG-IN THE MORPHO BIOMETRIC FINGER PRINT DEVICE. IF MORPHO USB DRIVER IS INSTALLED SUCCESSFULLY, THE DEVICE WOULD BE DETECTED (LIGHT WILL BE BLINKED FOR FRACTION OF SECOND).

5. AFTER RUNNING THE BUSINESS APPLICATION WHICH IS INTEGRATED WITH MORPHO RD SERVICE, IT WILL PROMPT TO ENTER ONE-TIME-TOKEN MAY APPEAR IF THE CONNECTED DEVICE IS NOT WHITELISTED AT SCPL RD MANAGEMENT SERVER. ENTER THE PROVIDED TOKEN FOR RD SERVICE TO LAUNCH SUCCESSFULLY



• Step 1

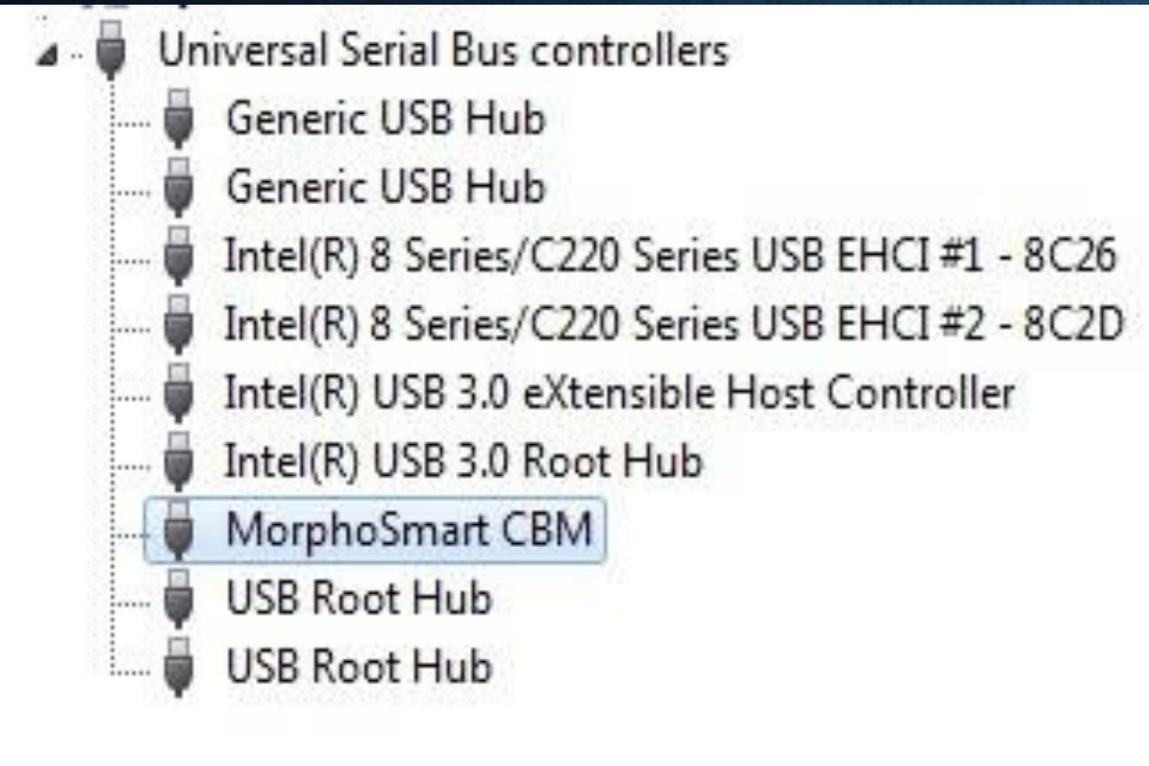
- 1. After RD Service installation restart the system then Connect whitelisted Morpho biometric scanner to the system. After connecting the device to the system the device driver will be installed..

If device driver not installed, then follow the below steps:

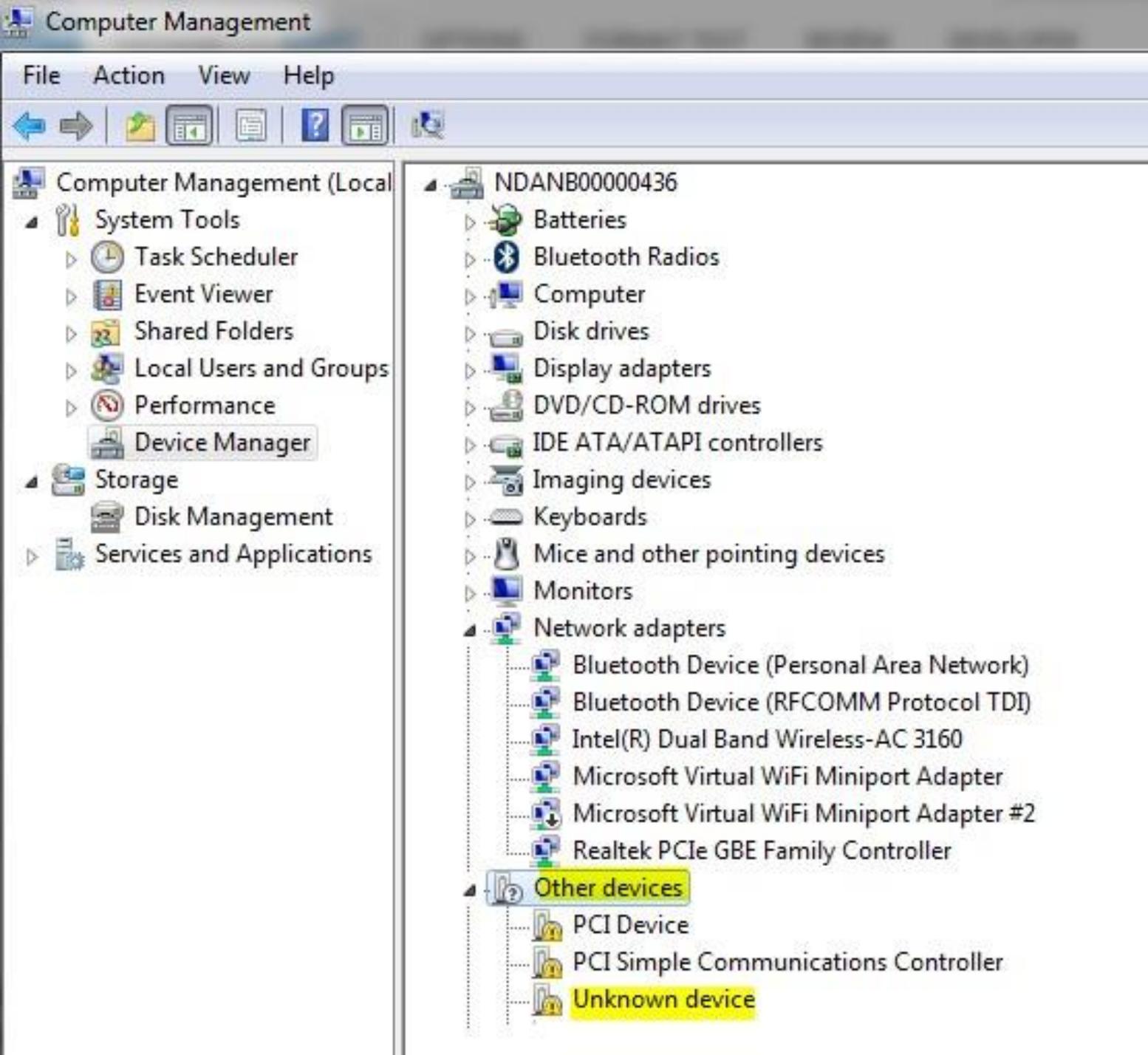
A) Right click on **Computer** and click on **manage**.

B) Now click on **Device Manager** and check **Morpho Smart CBM driver** under **Universal Serial Bus Controllers**.

• Step 2



- If the driver is present, there with yellow warning sign then
- Right click on the device driver icon->click on Update Driver- >
- “Browse My Computer for Driver Software” -> Let me Pick from a list of device drivers on my computer->Have Disk->Browse->go to “C:\Morpho\Morpho Smart USB Driver” and select
- ” usbBioDriver.inf in Driver search location and click on next for completion of manual driver installation and restart the machine for driver installation finalization.
- After restarting it should show as below in the Universal Serial Bus Controllers in device manager:



• Step 3

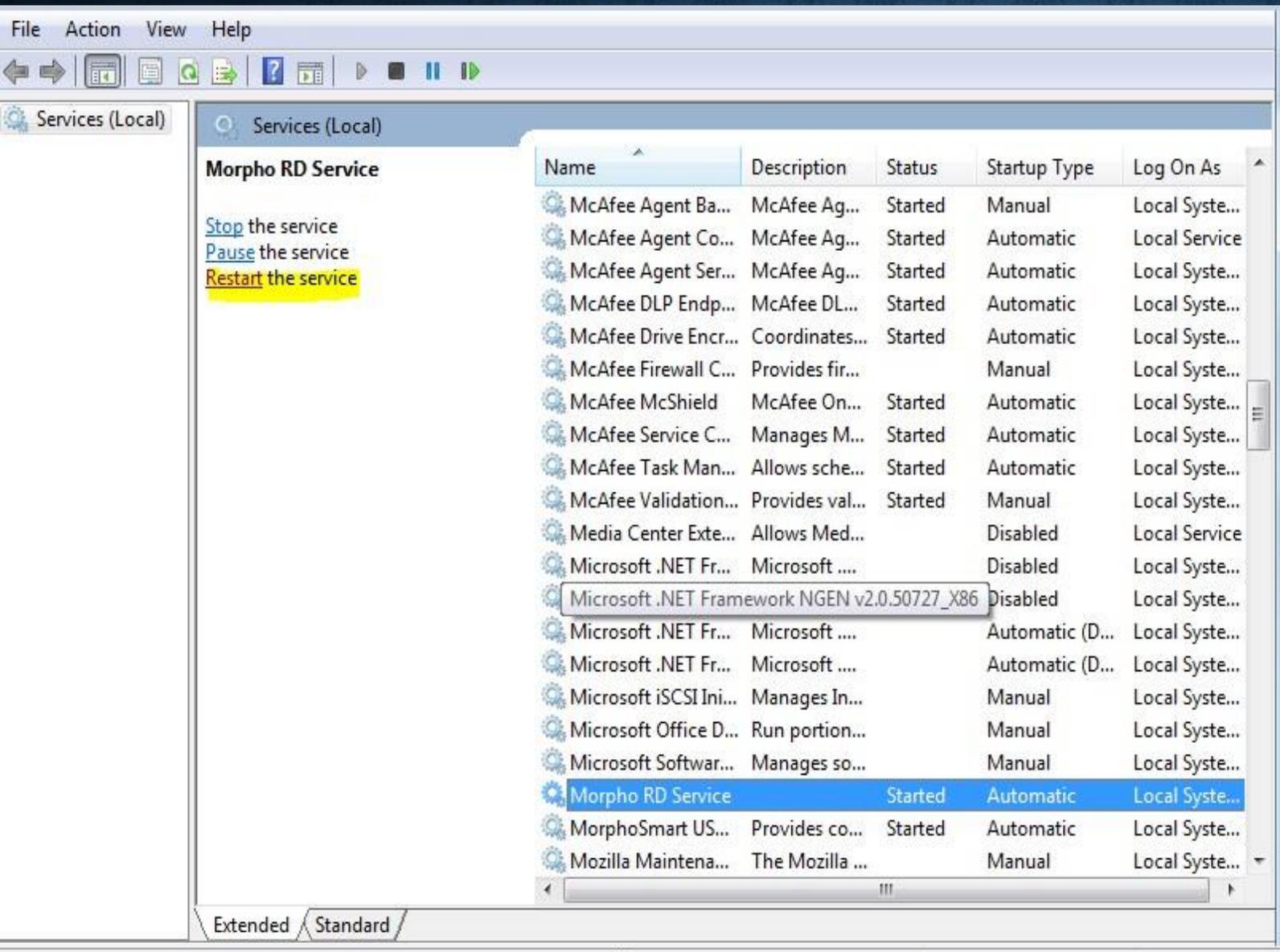
- If the device driver is not showing under **Universal Serial Bus Controllers** then please check under **Other Devices** there will be driver icon of **Unknown Device**.

• Step 4



- Right click on the **Unknown Device** icon->click on Update Driver->
- “Browse My Computer for Driver Software” -> Let me Pick from a list of device drivers on my computer->Have Disk->Browse->go to
- “C:\Morpho\MorphoSmart USB Driver” and select
- ”usbBioDriver.inf”” in Driver search location and click on next for completion of manual driver installation and restart the machine for driver installation finalization.
- After restart it should show as below in the Universal Serial Bus Controllers in device manager:

• Step 5



- **MSO Device Registration:**
- After device driver installation the device need to be registered.
- **Note:** After successful device registration please restart **Morpho RD Service** to get update from Management Server.
- **How to restart Morpho RD Service:**
 - Click on **start** and type **services.msc** in RUN window.
 - Now in windows services go to **MorphoRDSERVICE** and restart it.

FAQS

- Ques 1. What is RD Service?

Ans. RD Service is a device provider's registered device service compliant to Aadhaar Registered Devices Specification used to ensure secured biometric capture, and authentication of biometrics using UIDAI's Aadhaar based services.

Ques 2. What is Port range on Local Machine where RD Services will listen for Windows?

Ans. 11100-11120

Ques 3. Which biometric device models are certified as a Registered Device?

Ans. The Morpho 1300 E, Morpho 1300 E2, Morpho 1300 E3 are certified as a Registered Device.

- Ques 4. Are there any technical documents from UIDAI to refer?

Ans. All the updated technical documents can be checked from following link:

<https://authportal.uidai.gov.in/web/uidai/home-articles?urlTitle=technicaldocuments&pageType=resources>

- Ques 5. Is the Morpho devices certified for Level 0 or Level 1?

Ans. Level 0

- Ques 6. From where will customer get MORPHO RD Service?

Ans. Go to www.rdserviceonline.com and go to Downloads and get Android and Windows RD Service Packages.

- Ques7 . How can I use MORPHO RD Service?

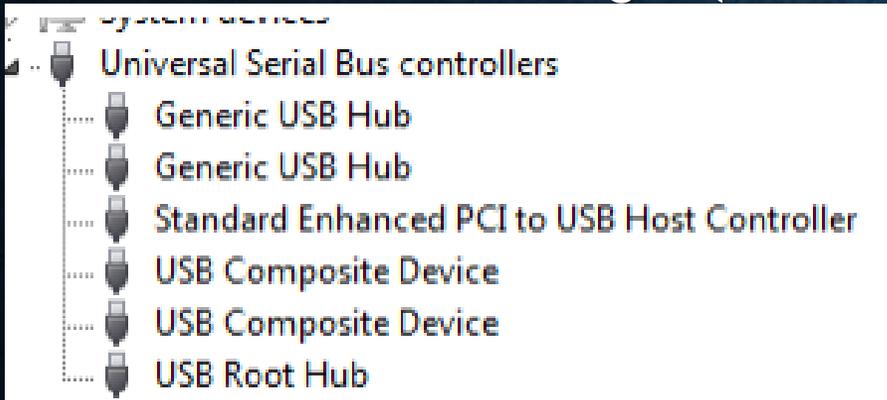
Ans. Customers have to integrated MORPHO RD Service with their business application, get tested with the help of MORPHO RD Integration team for Staging and Pre-Production Environment and then use go for Production environment using MORPHO RD Production Services, downloadable from www.rdserviceonline.com.

- Ques 8. How can I get my device whitelisted?

Ans. Go to www.rdserviceonline.com and follow the process for device whitelisting. In case of bulk device (i.e. devices count is more than 100) whitelisting, please contact your respective account manager with SCL and perform certain formalities and get device whitelisted.

- Ques 9. After RD Service installation, “Device Driver is not installed successfully” message is pop up in windows tray bar. What should I do?

Ans. Go to Device Manager (from Windows Control Panel ->Device Manager) and check MORPHO



If it is not, please change the device type to “Universal Serial Bus Controller” using navigation Other Devices->Unknown device-> Properties -> Update Driver- > “Browse My Computer for Driver Software” -> Add

“C:\Morpho\MorphoSmart USB Driver” and click on browse and select “usbBioDriver.inf” in Driver search location and click on next for completion of manual driver installation and restart the machine for driver installation finalization.

- Ques 10. How can I enable HTTPS communication between my application and RD Service?
Ans. Please use following Steps Set value 'CommunicationMode:0' in 'C:\MorphoRdServiceL0Soft\ConfigSettings.ini' file to enable Https communication in Morpho RD Service. Keep the Bank/Merchant's server certificate file at 'C:\MorphoRdServiceL0Soft\' named as 'server.crt'. Certificate must be in pem format. Keep the Bank/Merchant's server private key file at 'C:\MorphoRdServiceL0Soft\' named as 'server.key'. Private key must be in pem format. Rename '127.0.0.1' as Bank/Merchant's URL to which certificate is issued, in the host file of the windows present at 'C:\Windows\System32\drivers\etc'. Update this URL in the calling Javascript functions given in the MorphoRDServiceTestPage.html.

- Ques 11. What is Production Environment Setting in Config.ini?

Ans. Please follow the following steps

1. Change the RDEnviroment variable in ConfigSetting.ini file (PATH : C:\MorphoRdServiceL0Soft\). Set RDEnviroment: 2
2. Change the URLs: a. Registration : <https://rdm.smartbioplus.com/rdm-device-app/registration> b. Keyrotation : <https://rdm.smartbioplus.com/rdm-key-managementapp/keyRotation> c. Telemetry : <https://rdm.smartbioplus.com/rdm-telemetry-app/telemetry>
3. Change URL_IP : rdm.smartbioplus.com
4. Change URL_Port: 443
5. Restart the service

- Ques 12. How can set Proxy server setting for RD Service?

Ans. Go to Proxy Configuration in config.ini file (C:\MorphoRdServiceL0Soft\Config.ini)

1. Set ProxyConfig variable value to 1. i.e. ProxyConfig:1
2. Set ProxyIP variable to Proxy Server IP address. In case, proxy script is to be used, please write Proxy Script URL.
3. Set ProxyPort variable to Proxy Server Port Address

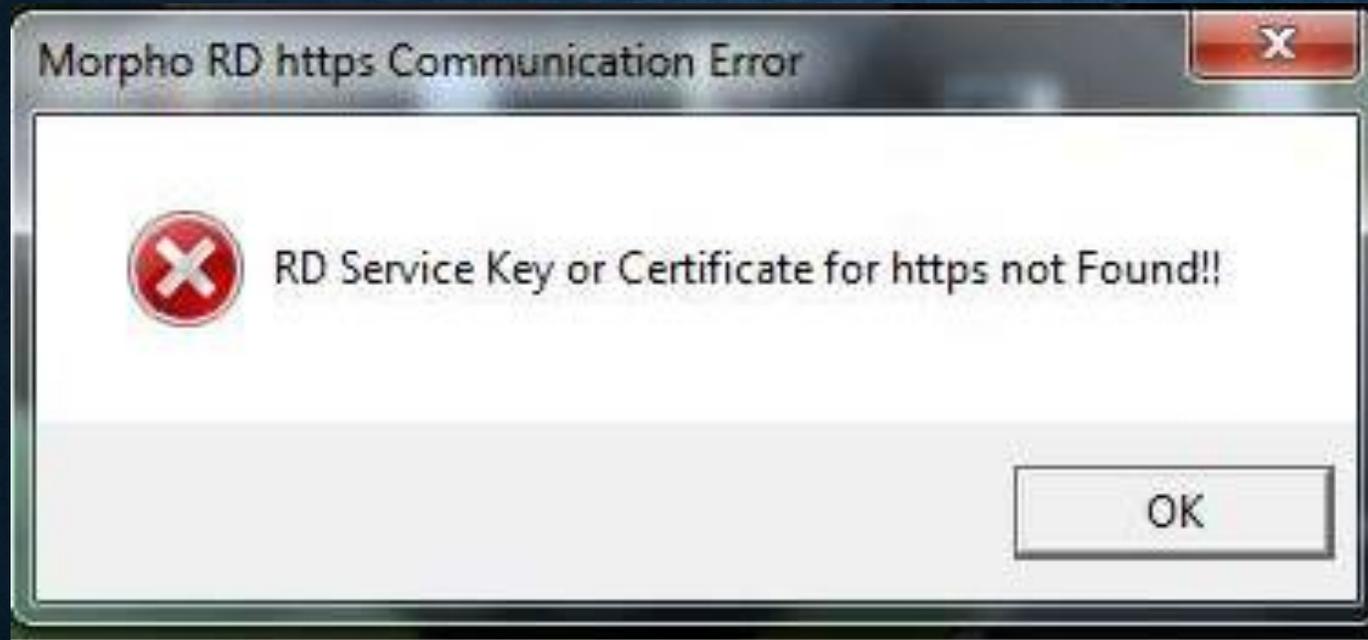
- Ques 13. What should I do even after setting the Proxy Server Setting, still RD Service call to management server is not reachable?.

Ans. Please follow the following steps 1. Check the connectivity of Management server from Host machine (Machine on which RD Service is installed) through Proxy Server. 2. Check the ping of Proxy Server from RD Service on Host Machine using Network trace or any other supported trace mechanism. 3. If yes and request is still not reaching to Management Server, make sure the certificate URL “*.COMODOCA.COM” is bypassed on Proxy server.

- Ques 14. Error “Permission Denied” while running MORPHO RD Service Test HTML Page.

Ans. Please follow the following steps 1. root/url Certificate for RD services domain needs to be installed on desktop. 2. Add dns in trusted site for RD service. 3. Enable "Access data sources accross domains" in trusted sites customer level. 4. Reset customer settings to "Medium(default)"

- Ques 15. What does following error means?



Ans. It shows that the required certificate and key for HTTPS communication at required path "C:\MorphoRdServiceL0Soft\ConfigSettings.ini" is missing. Please put the certificate on mentioned path.

THANKYOU