

APPLIES TO:

SAP Router Configuration

SUMMARY

This article explains how to configure the SAP Router in the SAP Solman System.

AUTHOR:

K.VENKATA RAMU.

COMPANY:

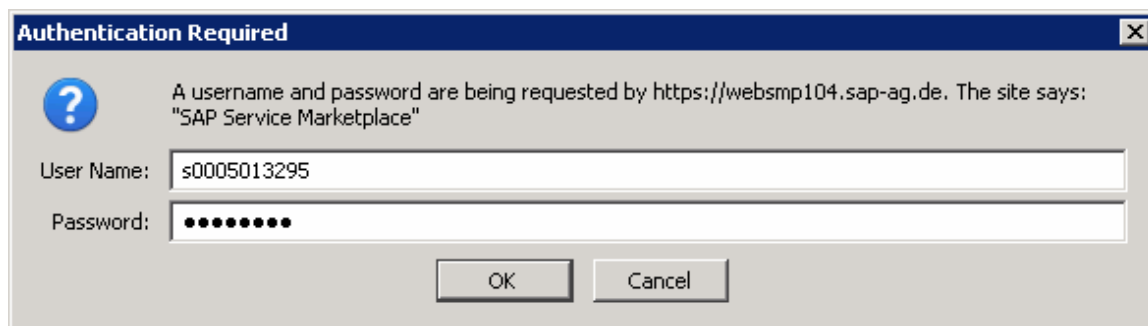
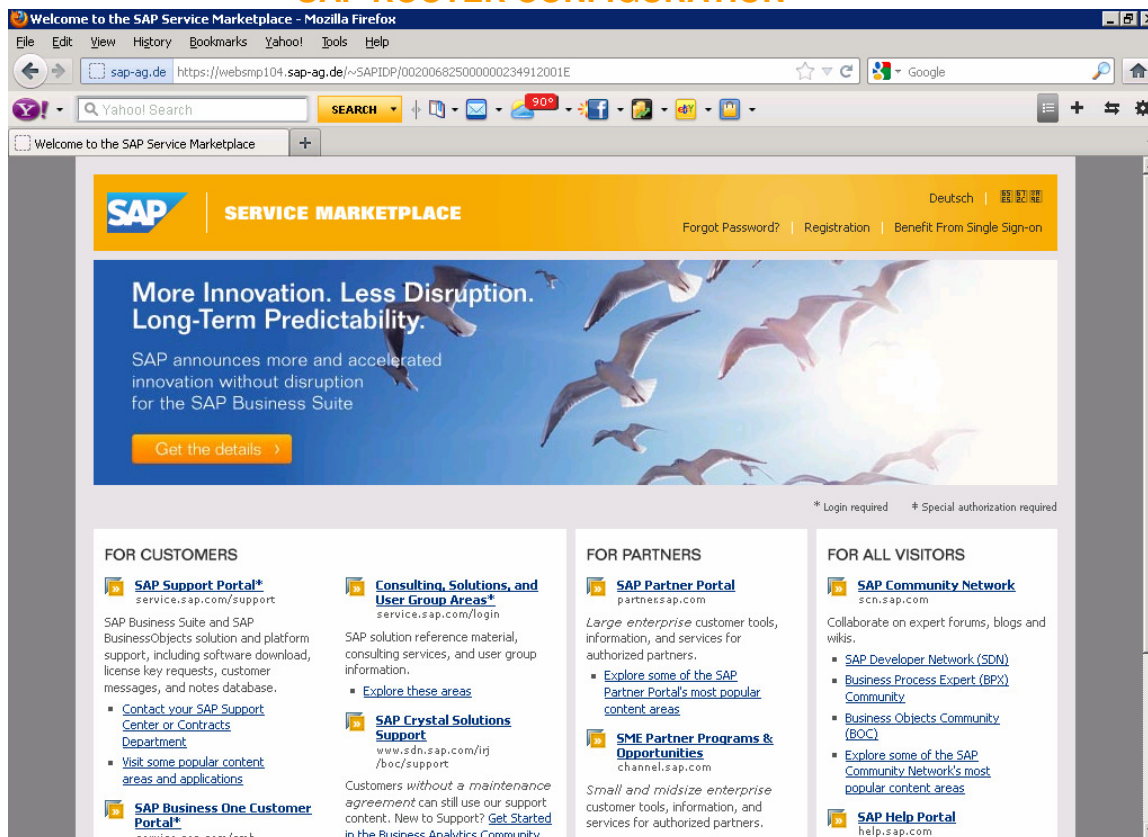
Willsys Infosystems Pvt. Ltd.,

CREATED ON:

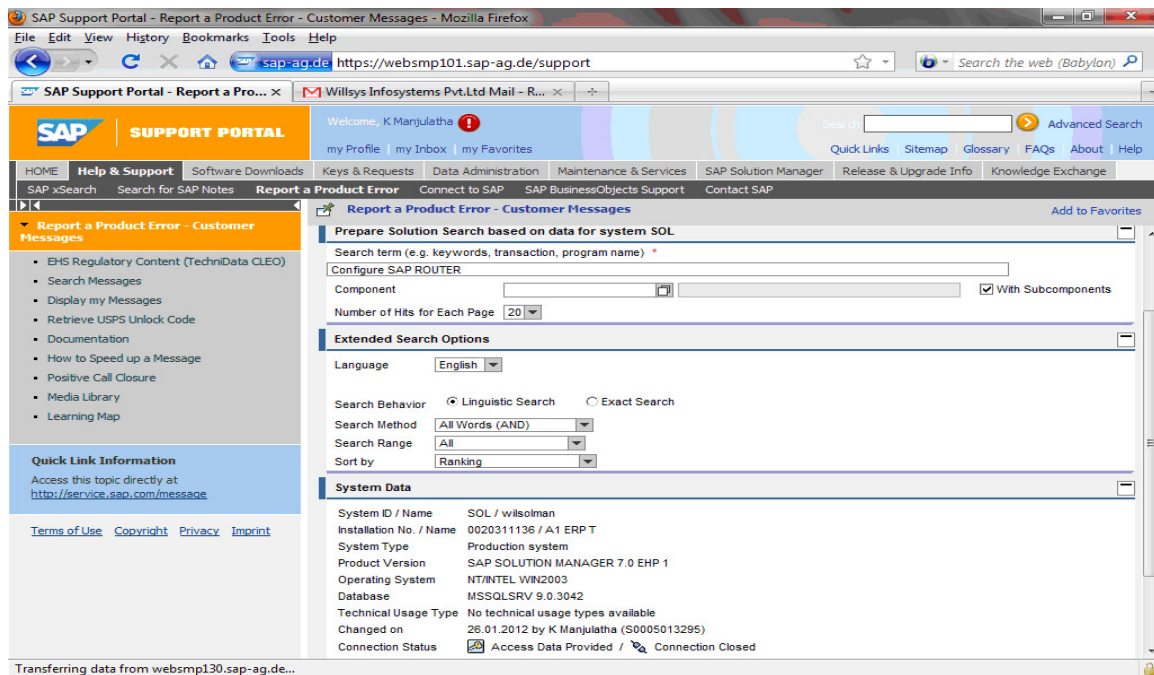
12th March 2012.



SAP ROUTER CONFIGURATION



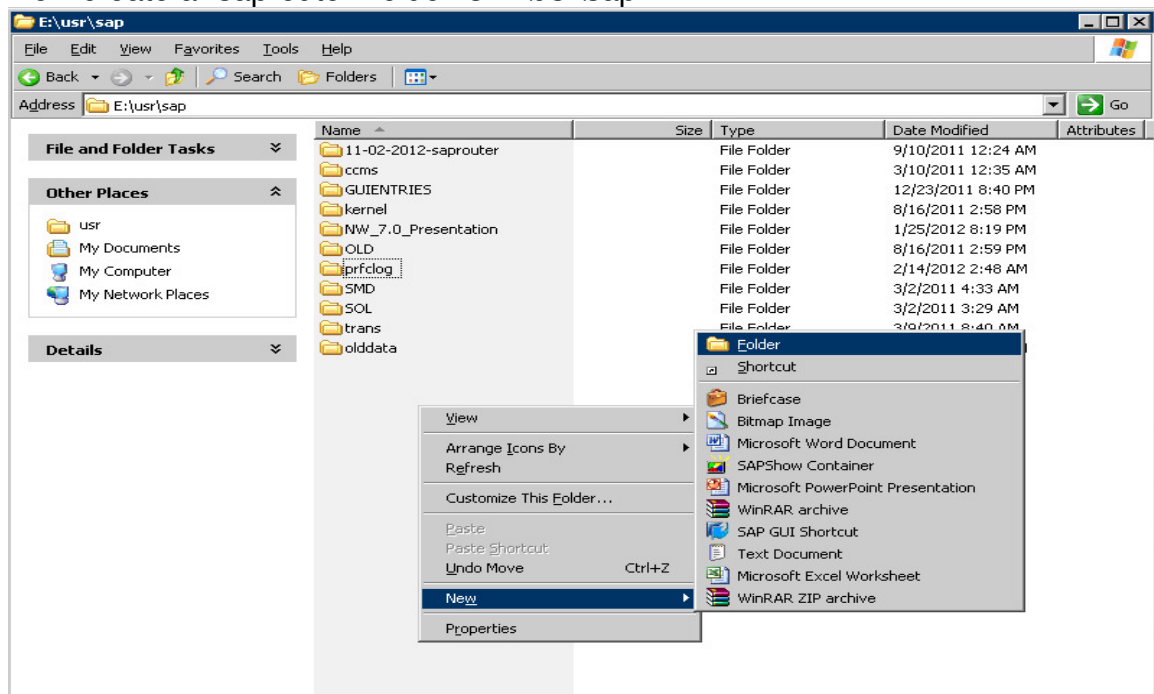
Create Message to SAP Support Team to provide the distinguished name to configure the Saprouter.

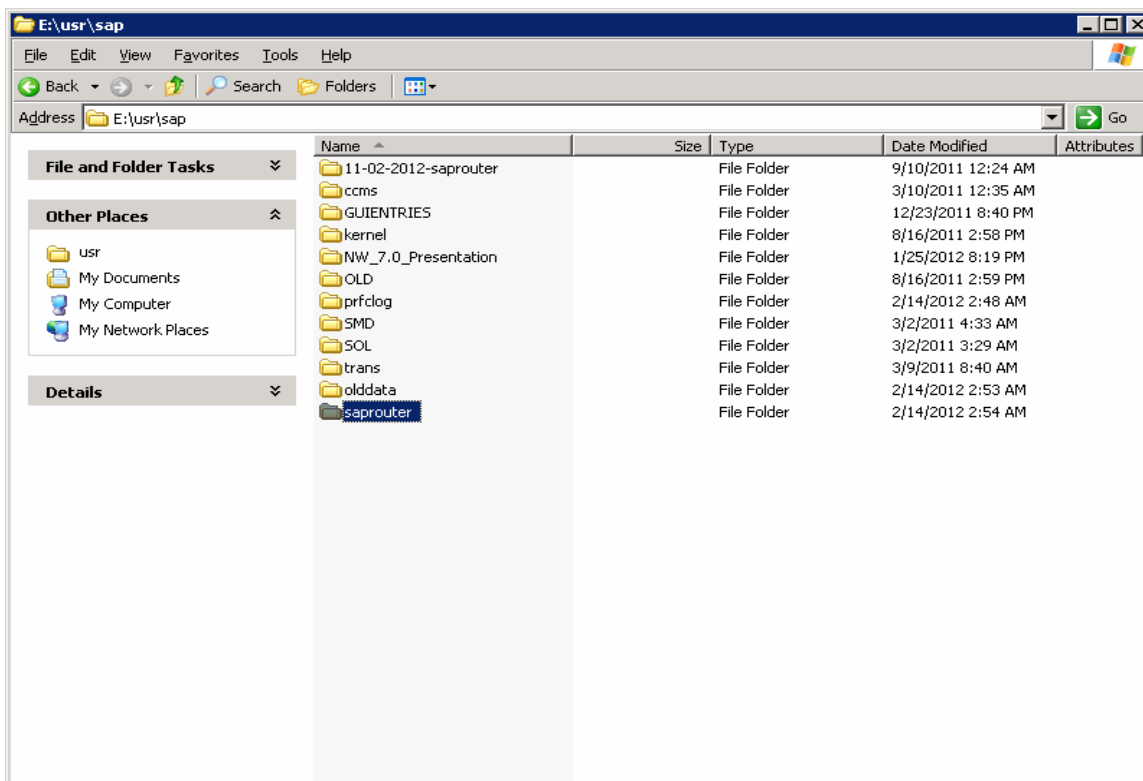
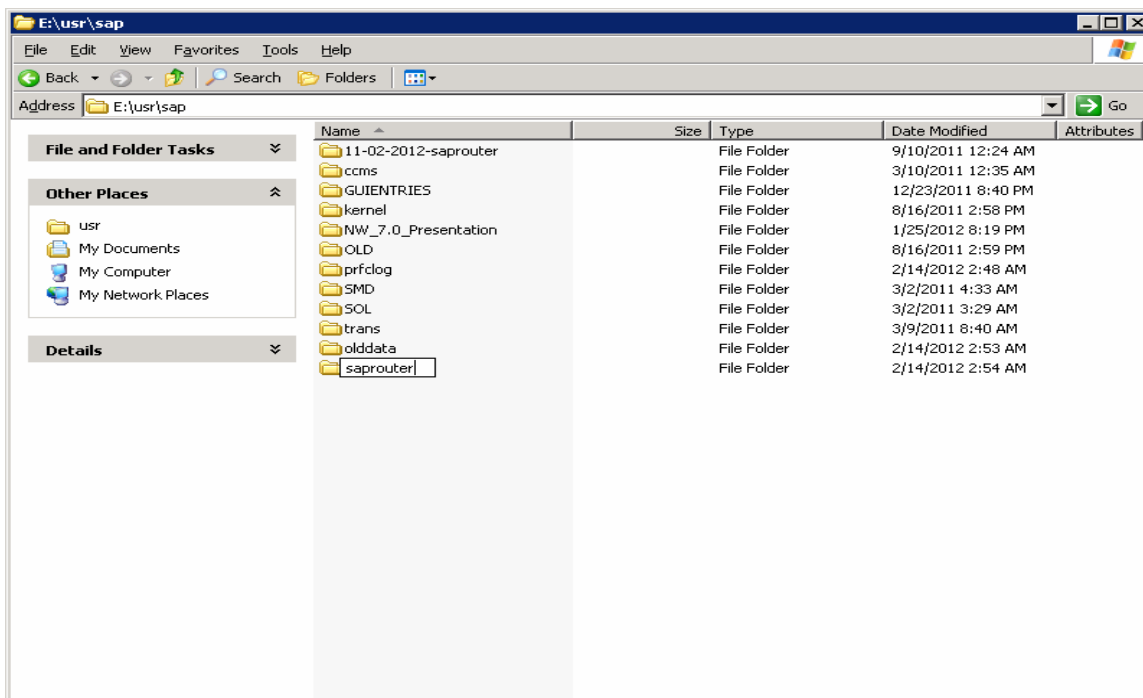


Navigate to HELP and Support→Report a Product Error→"message to configure saprouter"→component type→XX-SER-NET→priority→HIGH→Send Message
SAP provides the DN name in the Market Place.

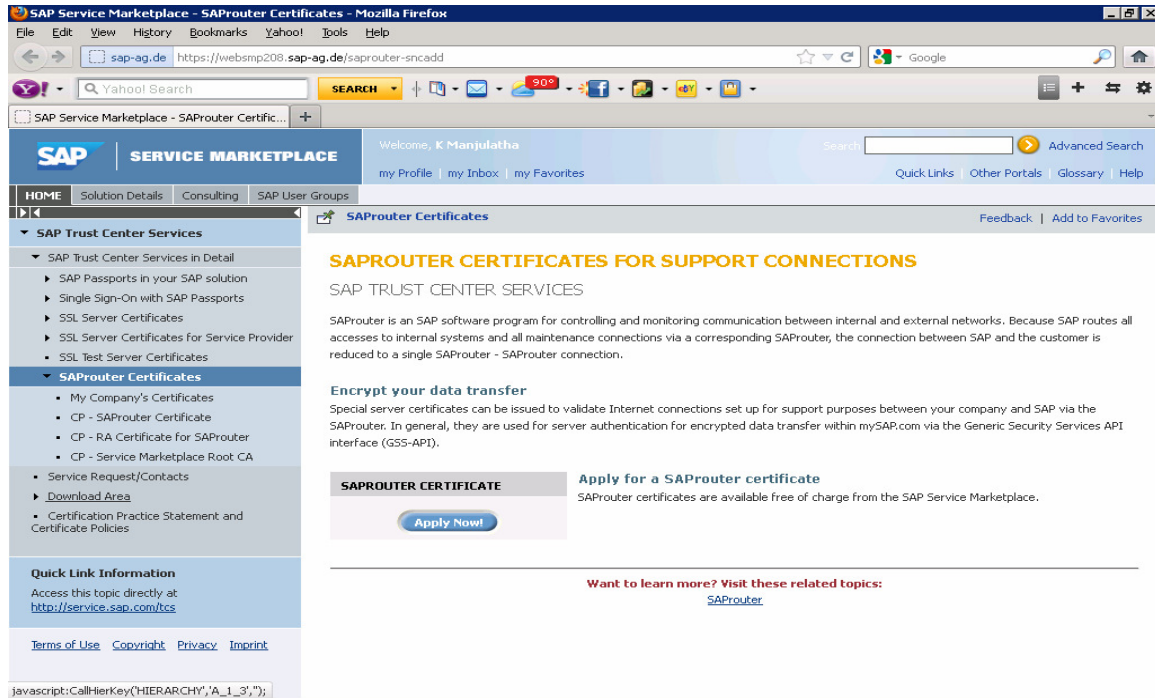
SAP ROUTER INSTALLATION:

Now create a "saprouter" folder is E:\usr\sap





Now download the SAP ROUTER Software and Cryptographic Library Software
www.service.sap.com/saprouter-sncadd



SAP Service Marketplace - SAProuter Certificates - Mozilla Firefox

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 - SSL Server Certificates for Service Provider
 - SSL Test Server Certificates
- SAProuter Certificates**
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javascript:CallHierKey("HIERARCHY","A_1_3","");

SAProuter Certificates

SAPROUTER CERTIFICATES FOR SUPPORT CONNECTIONS

SAP TRUST CENTER SERVICES

SAProuter is an SAP software program for controlling and monitoring communication between internal and external networks. Because SAP routes all accesses to internal systems and all maintenance connections via a corresponding SAProuter, the connection between SAP and the customer is reduced to a single SAProuter - SAProuter connection.

Encrypt your data transfer

Special server certificates can be issued to validate Internet connections set up for support purposes between your company and SAP via the SAProuter. In general, they are used for server authentication for encrypted data transfer within mySAP.com via the Generic Security Services API interface (GSS-API).

SAPROUTER CERTIFICATE

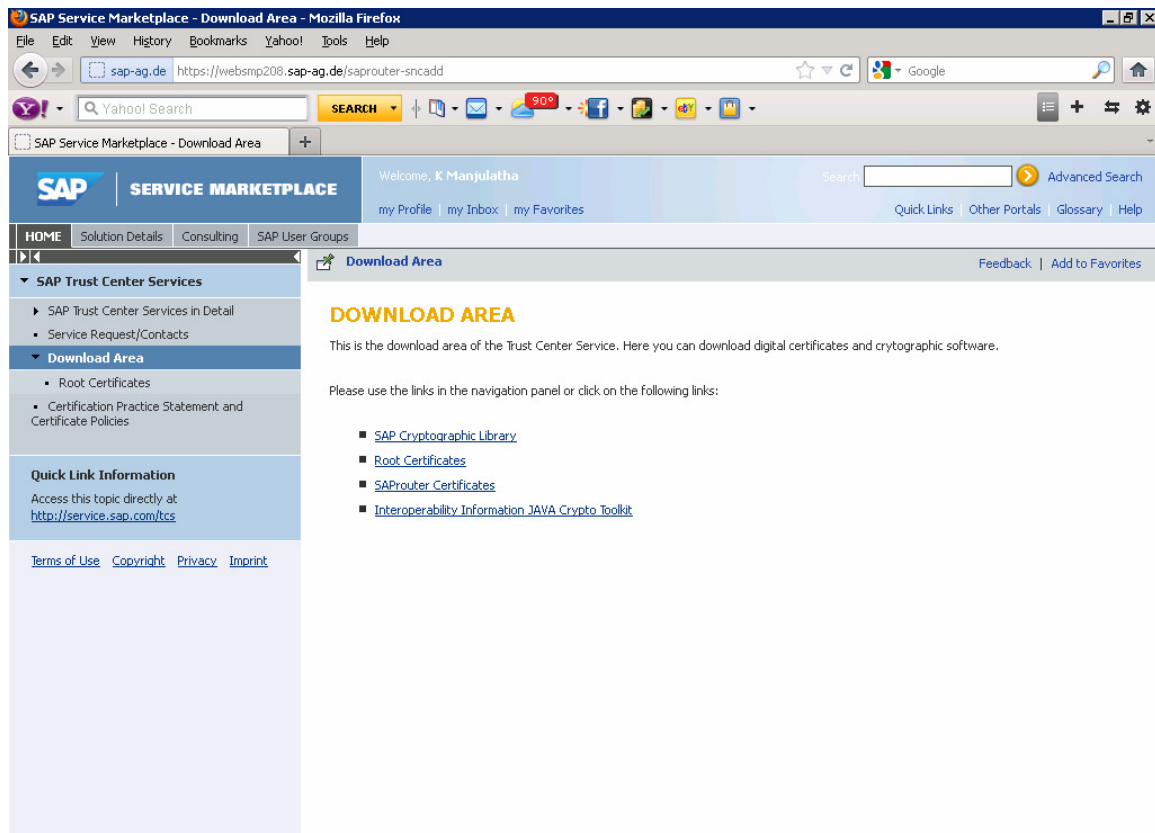
Apply for a SAProuter certificate

SAProuter certificates are available free of charge from the SAP Service Marketplace.

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Want to learn more? Visit these related topics:

[SAProuter](#)



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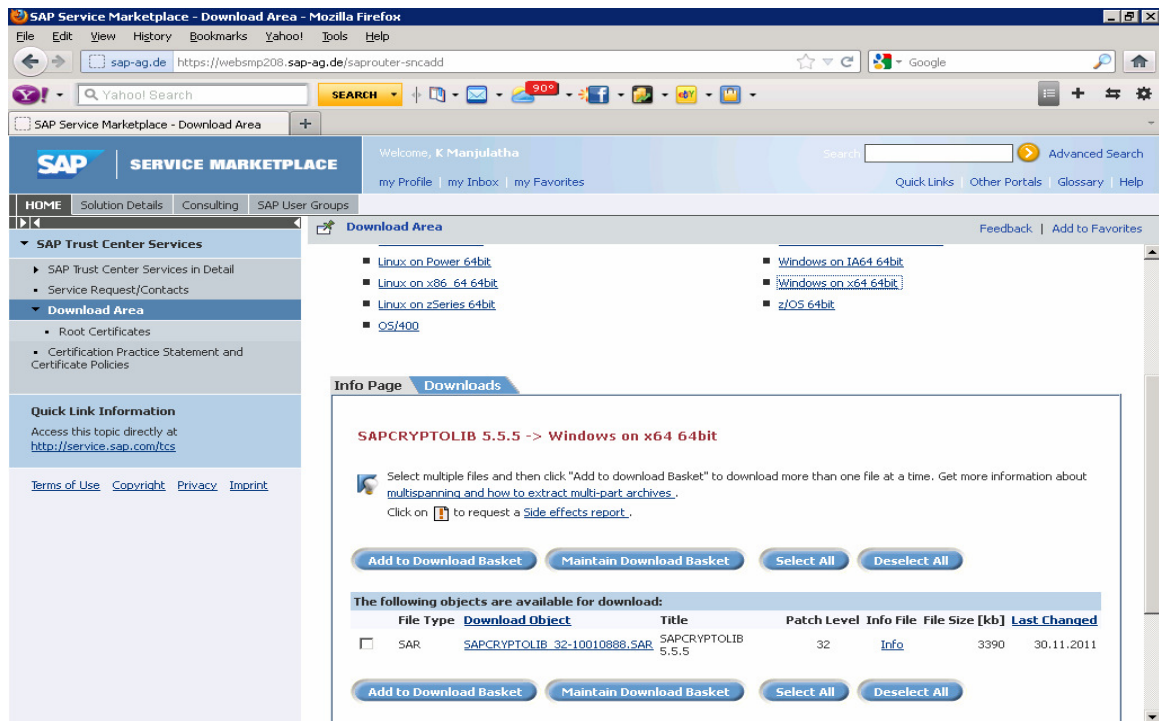
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Download Area

This is the download area of the Trust Center Service. Here you can download digital certificates and cryptographic software.

Please use the links in the navigation panel or click on the following links:

- [SAP Cryptographic Library](#)
- [Root Certificates](#)
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- [Interoperability Information JAVA Crypto Toolkit](#)



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Select multiple files and then click "Add to download Basket" to download more than one file at a time. Get more information about [multispanning and how to extract multi-part archives](#).

Click on to request a [Side effects report](#).

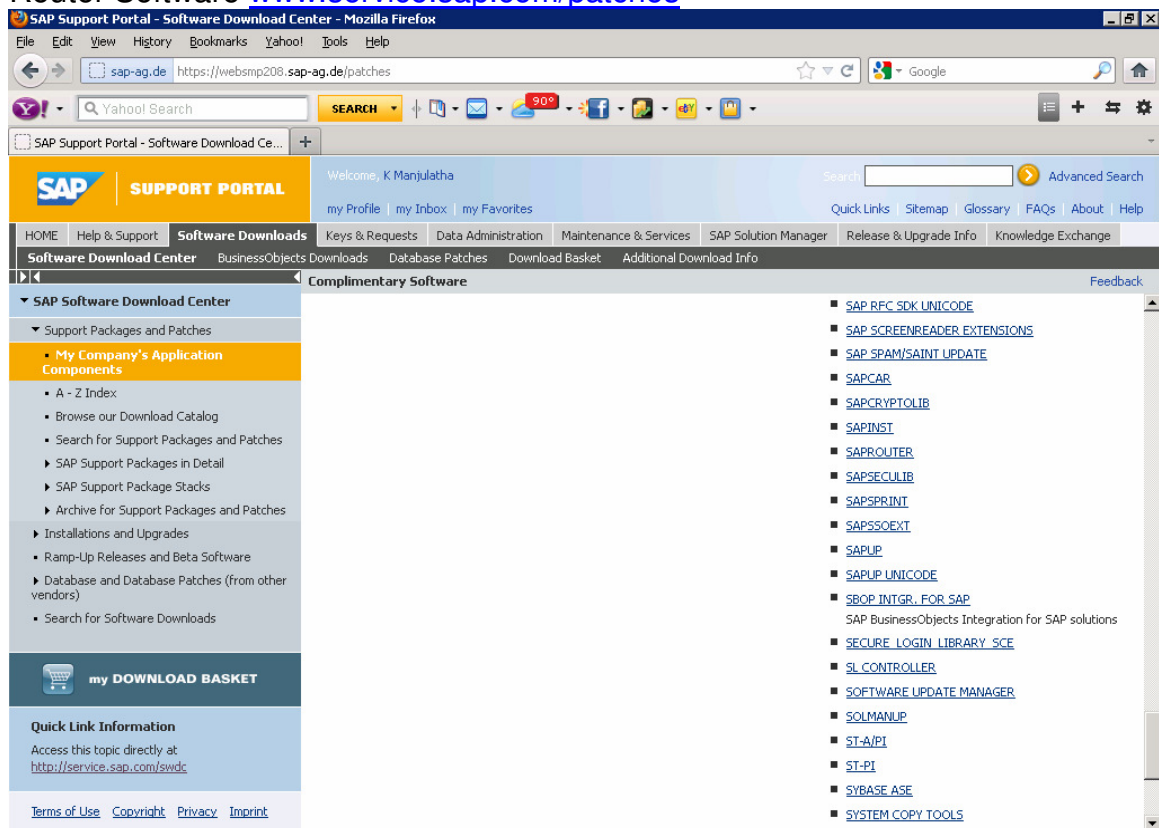
Add to Download Basket **Maintain Download Basket** **Select All** **Deselect All**

The following objects are available for download:

File Type	Download Object	Title	Patch Level	Info File	File Size [kb]	Last Changed
<input type="checkbox"/> SAR	SAPCRYPTOLIB 32-10010888.SAR	SAPCRYPTOLIB 5.5.5	32	Info	3390	30.11.2011

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Router Software www.service.sap.com/patches



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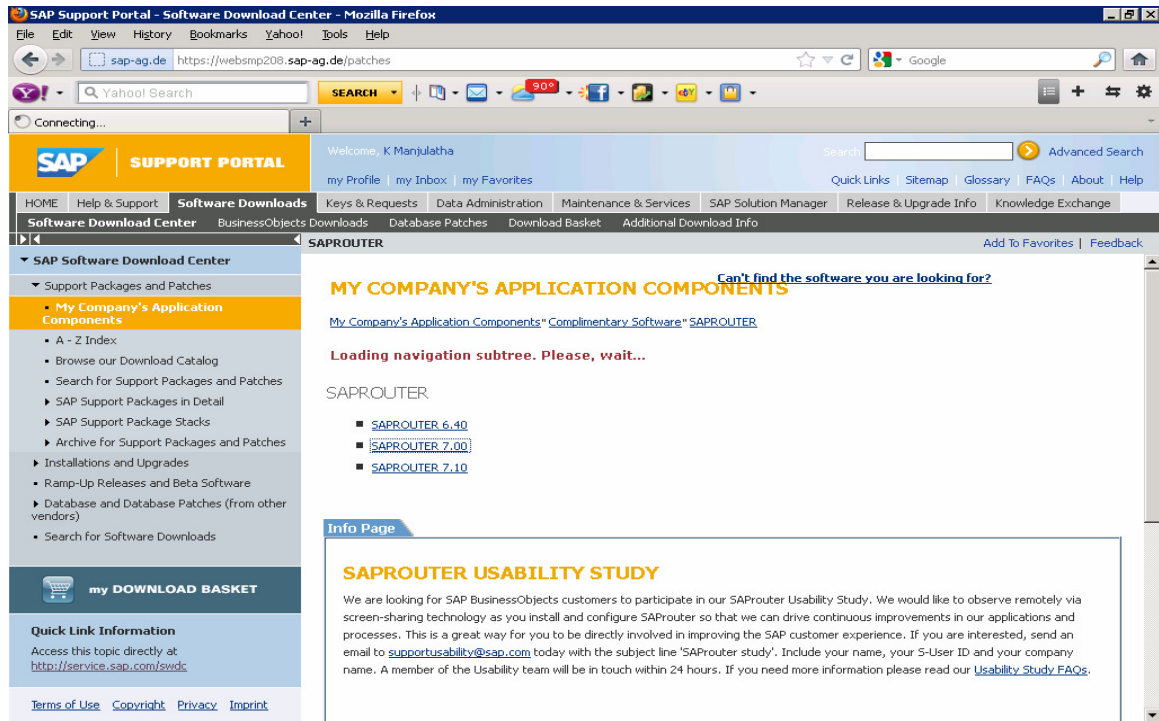
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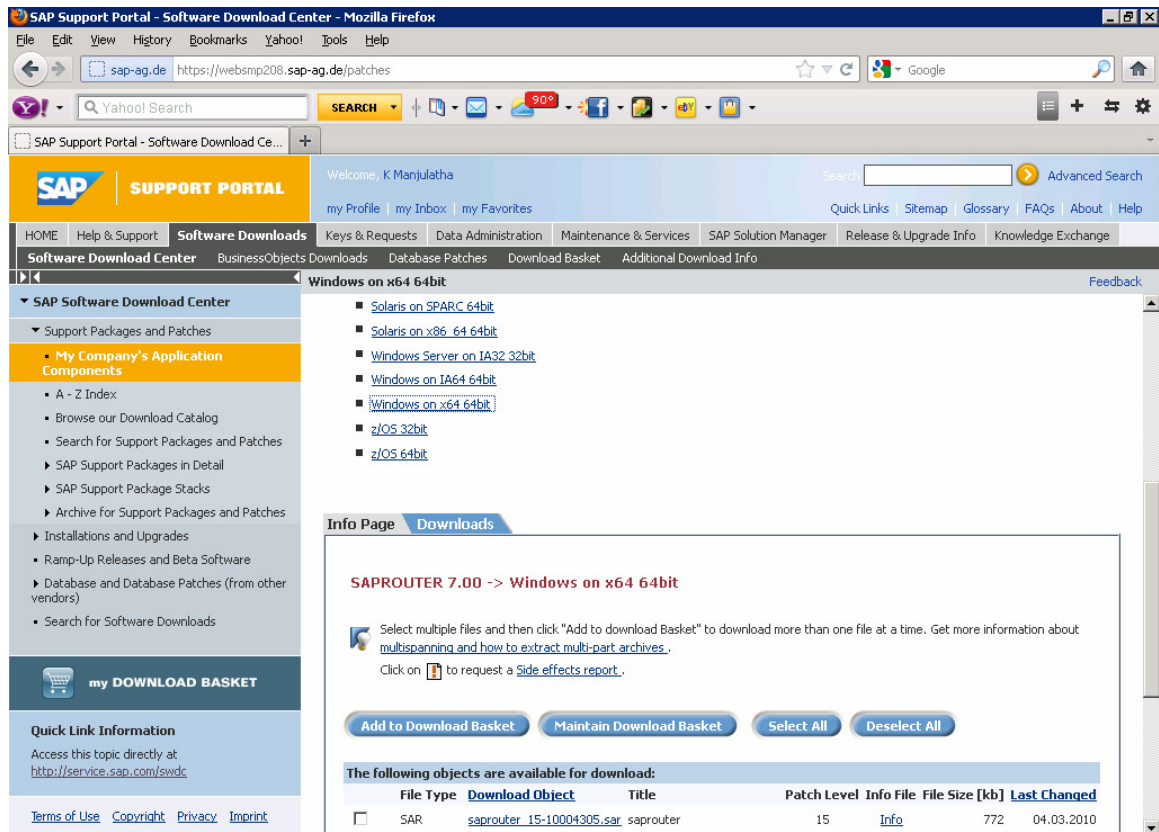
SAPROUTER

- [SAPROUTER 6.40](#)
- [SAPROUTER 7.00](#)
- [SAPROUTER 7.10](#)

Info Page

SAPROUTER USABILITY STUDY

We are looking for SAP BusinessObjects customers to participate in our SAProuter Usability Study. We would like to observe remotely via screen-sharing technology as you install and configure SAProuter so that we can drive continuous improvements in our applications and processes. This is a great way for you to be directly involved in improving the SAP customer experience. If you are interested, send an email to supportusability@sap.com today with the subject line 'SAProuter study'. Include your name, your S-User ID and your company name. A member of the Usability team will be in touch within 24 hours. If you need more information please read our [Usability Study FAQs](#).



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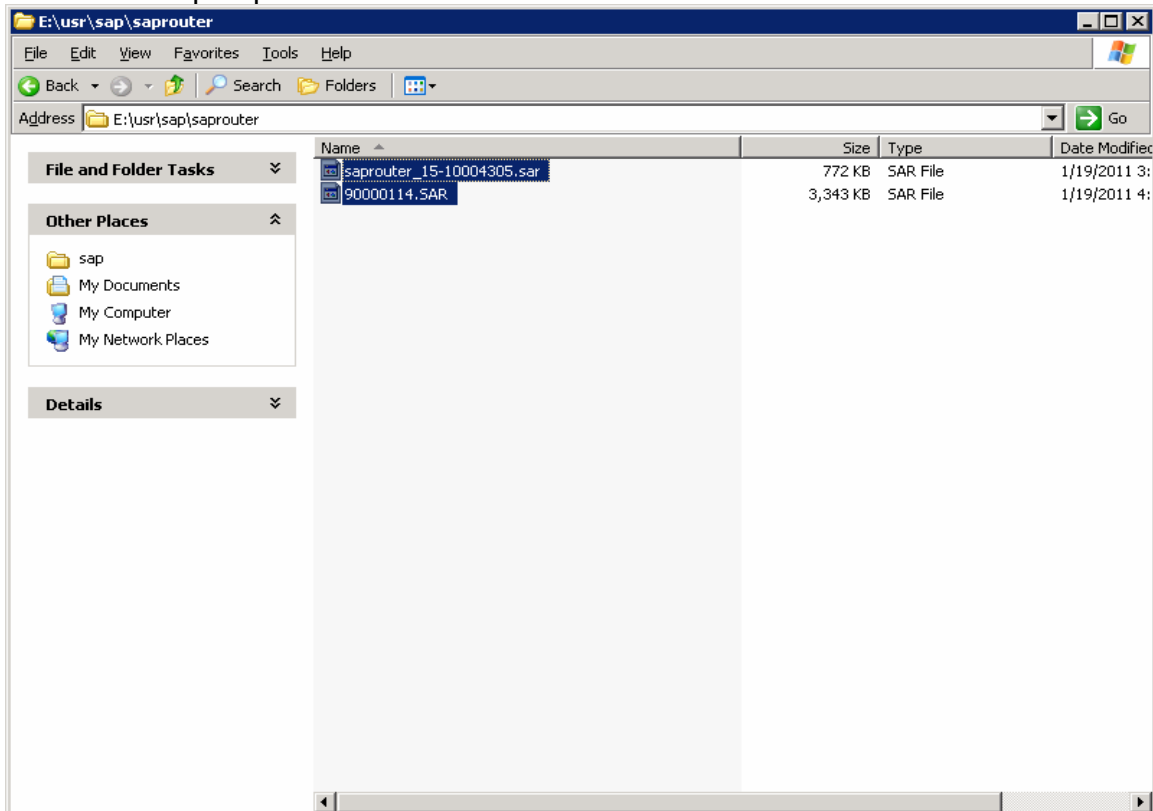
Click on to request a [Side effects report](#).

Add to Download Basket **Maintain Download Basket** **Select All** **Deselect All**

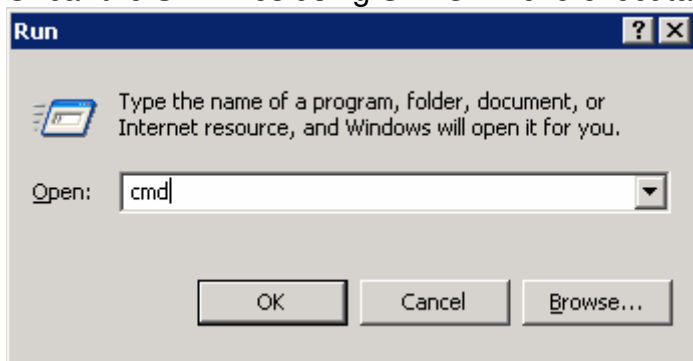
The following objects are available for download:

File Type	Download Object	Title	Patch Level	Info File	File Size [kb]	Last Changed
<input type="checkbox"/>	SAR	saprouter_15-10004305_sar	saprouter	15	Info	772 04.03.2010

Once the software is downloaded copy the saprouter and cryptographic software into E:\usr\sap\saprouter



Uncar the SAR files using SAPCAR.exe executable in the saprouter folder




```
C:\WINDOWS\system32\cmd.exe
Microsoft Windows [Version 5.2.3790]
(C) Copyright 1985-2003 Microsoft Corp.

C:\Documents and Settings\soladm>e:

E:\>cd \usr\sap\saprouter

E:\usr\sap\saprouter>dir
Volume in drive E has no label.
Volume Serial Number is A007-F661

Directory of E:\usr\sap\saprouter

02/14/2012  02:59 AM    <DIR>          .
02/14/2012  02:59 AM    <DIR>          ..
01/19/2011  04:14 AM             3,422,930  90000114.SAR
01/19/2011  03:32 AM             790,511  saprouter_15-10004305.sar
                2 File(s)          4,213,441 bytes
                2 Dir(s)  44,999,442,432 bytes free

E:\usr\sap\saprouter>_
```

```
C:\WINDOWS\system32\cmd.exe

02/14/2012  02:59 AM    <DIR>          .
02/14/2012  02:59 AM    <DIR>          ..
01/19/2011  04:14 AM             3,422,930  90000114.SAR
01/19/2011  03:32 AM             790,511  saprouter_15-10004305.sar
                2 File(s)          4,213,441 bytes
                2 Dir(s)  44,999,442,432 bytes free

E:\usr\sap\saprouter>sapcar -xvf 90000114.SAR_
```

```

C:\WINDOWS\system32\cmd.exe
02/14/2012 02:59 AM <DIR> .
02/14/2012 02:59 AM <DIR> ..
01/19/2011 04:14 AM 3,422,930 90000114.SAR
01/19/2011 03:32 AM 790,511 saprouter_15-10004305.sar
2 File(s) 4,213,441 bytes
2 Dir(s) 44,999,442,432 bytes free

E:\usr\sap\saprouter>sapcar -xvf 90000114.SAR
SAPCAR: processing archive 90000114.SAR (version 2.00)
x Changelog.txt
x LEGAL.TXT
x LICENSE.TXT
x Ver555.pl30
x WHICH.TXT
x nt-x86_64
x nt-x86_64/sapgenpse.exe
x nt-x86_64/sapcrypto.dll
x nt-x86_64/sapcrypto.lst
x ntia64
x ntia64/sapgenpse.exe
x ntia64/sapcrypto.dll
x ntia64/sapcrypto.lst
x ntintel
x ntintel/sapgenpse.exe
x ntintel/sapcrypto.dll
x ntintel/sapcrypto.lst
x ticket
SAPCAR: 18 file(s) extracted

E:\usr\sap\saprouter>sapcar -xvf saprouter_15-10004305.sar_

```

```

C:\WINDOWS\system32\cmd.exe
02/14/2012 02:59 AM <DIR> .
02/14/2012 02:59 AM <DIR> ..
01/19/2011 04:14 AM 3,422,930 90000114.SAR
01/19/2011 03:32 AM 790,511 saprouter_15-10004305.sar
2 File(s) 4,213,441 bytes
2 Dir(s) 44,999,442,432 bytes free

E:\usr\sap\saprouter>sapcar -xvf 90000114.SAR
SAPCAR: processing archive 90000114.SAR (version 2.00)
x Changelog.txt
x LEGAL.TXT
x LICENSE.TXT
x Ver555.pl30
x WHICH.TXT
x nt-x86_64
x nt-x86_64/sapgenpse.exe
x nt-x86_64/sapcrypto.dll
x nt-x86_64/sapcrypto.lst
x ntia64
x ntia64/sapgenpse.exe
x ntia64/sapcrypto.dll
x ntia64/sapcrypto.lst
x ntintel
x ntintel/sapgenpse.exe
x ntintel/sapcrypto.dll
x ntintel/sapcrypto.lst
x ticket
SAPCAR: 18 file(s) extracted

E:\usr\sap\saprouter>sapcar -xvf saprouter_15-10004305.sar
SAPCAR: processing archive saprouter_15-10004305.sar (version 2.01)
x niping.exe
x saprouter.exe
SAPCAR: 2 file(s) extracted

E:\usr\sap\saprouter>exit_

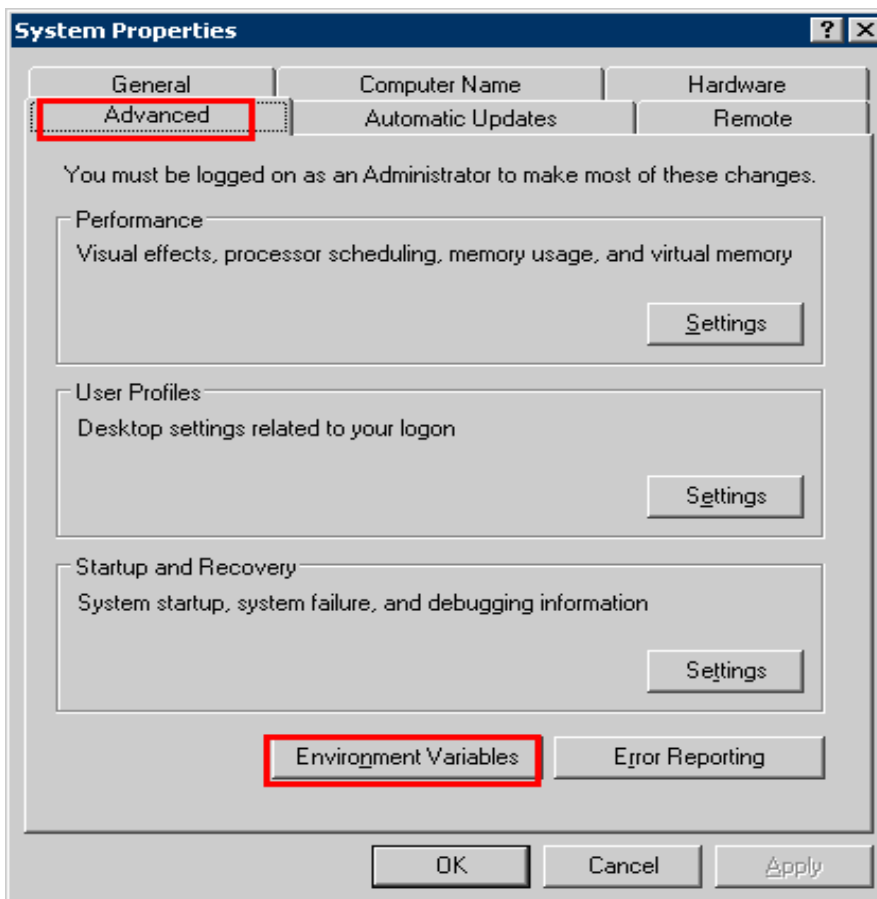
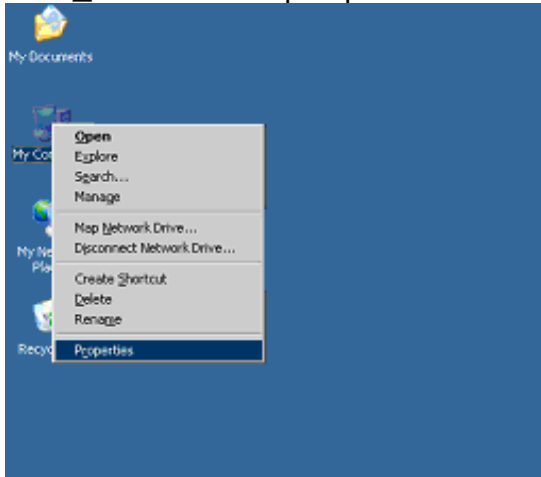
```

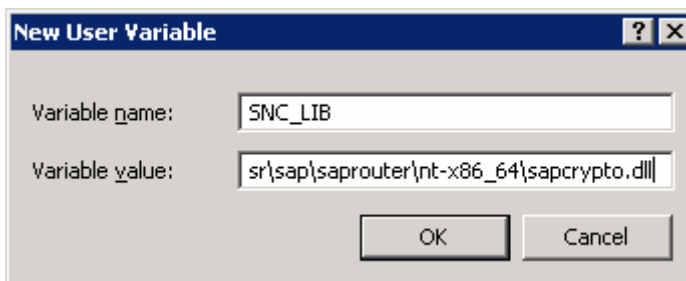
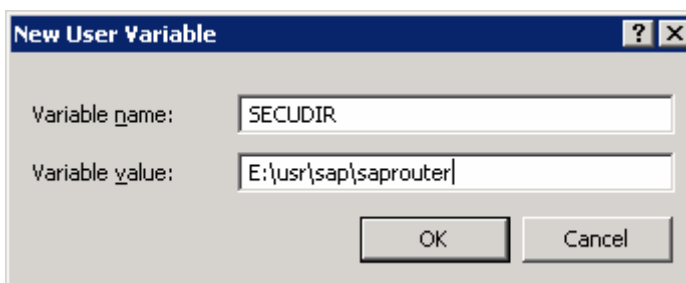
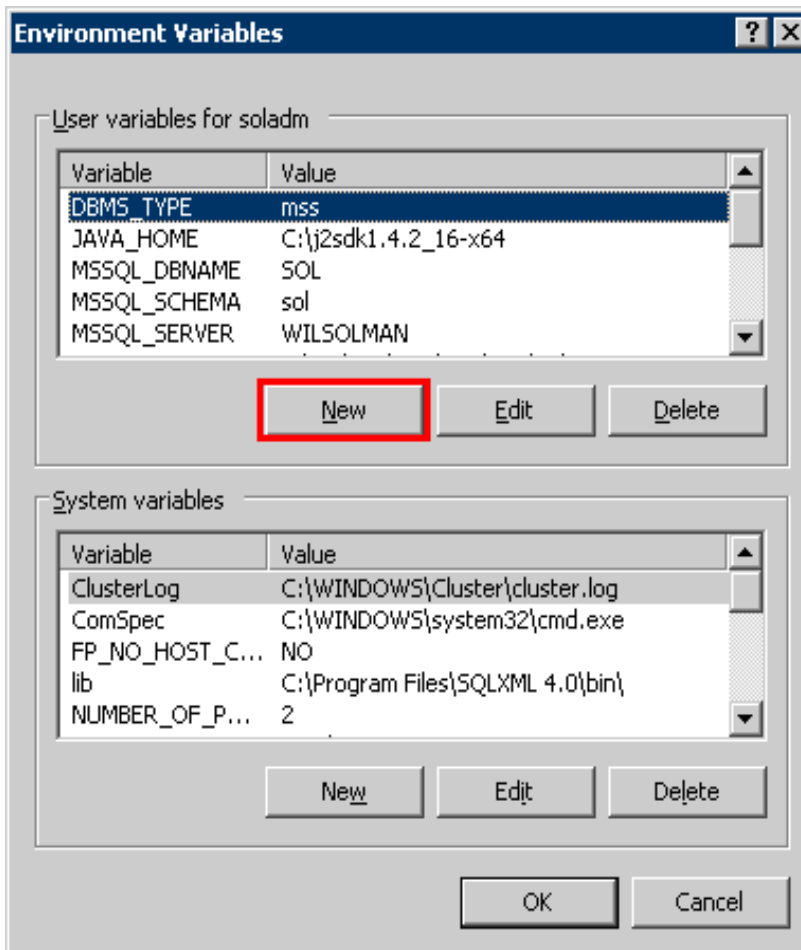
Set the environmental variables

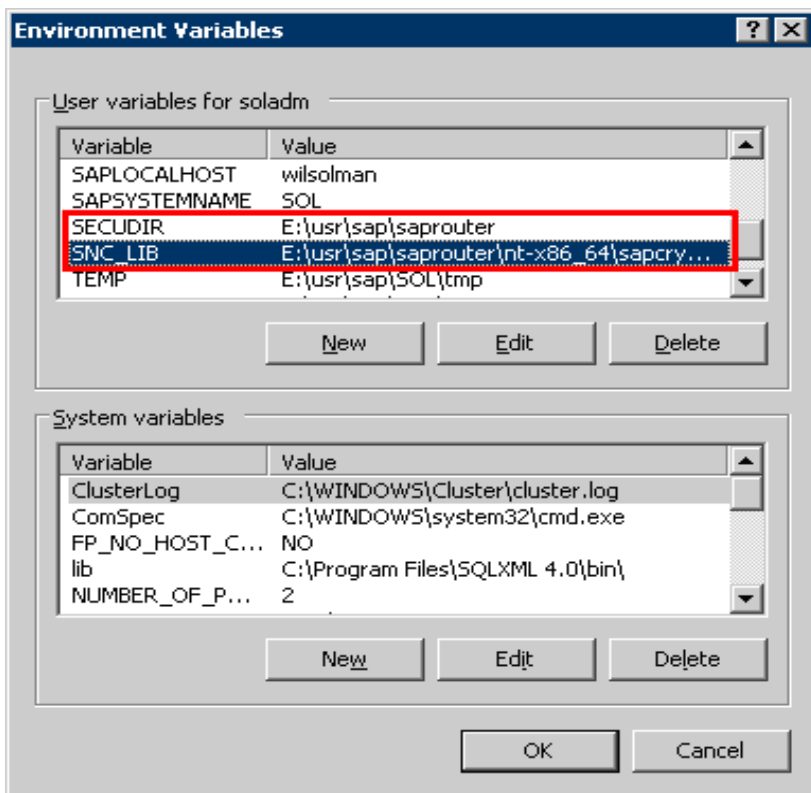
My computer → Right Click → properties → advanced → Environmental Variables

SECUDIR=E:\usr\sap\saprouter

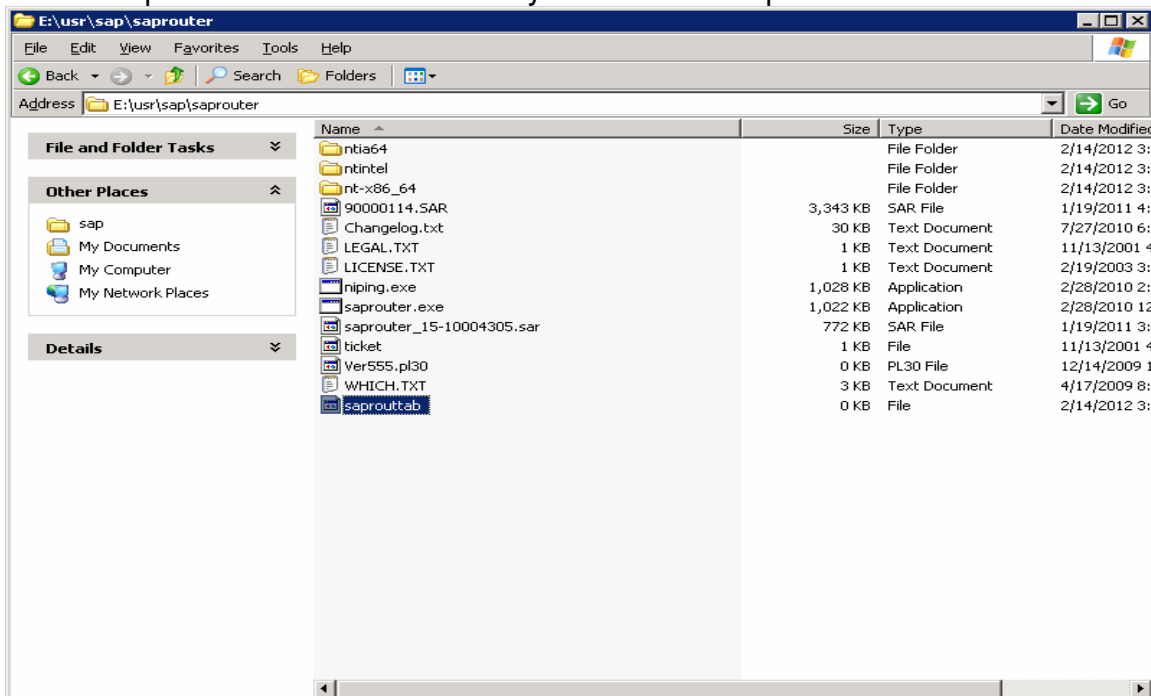
SNC_LIB=E:\usr\sap\saprouter\nt-x86_64\sapcrypto.dll





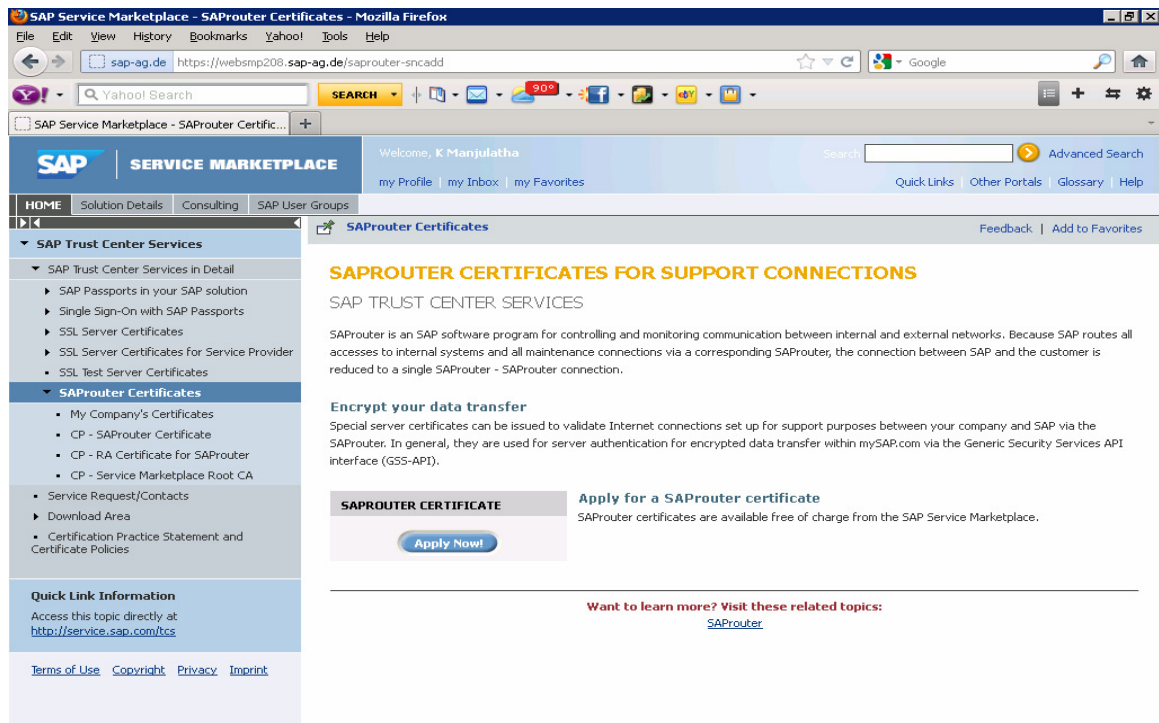


Create saprouttab text file without any extension in saprouter folder



Download the Distinguished Name from the SMP.

www.service.sap.com/saprouter-sncadd



SAP Service Marketplace - SAProuter Certificates

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SAPROUTER CERTIFICATE

Apply for a SAProuter certificate

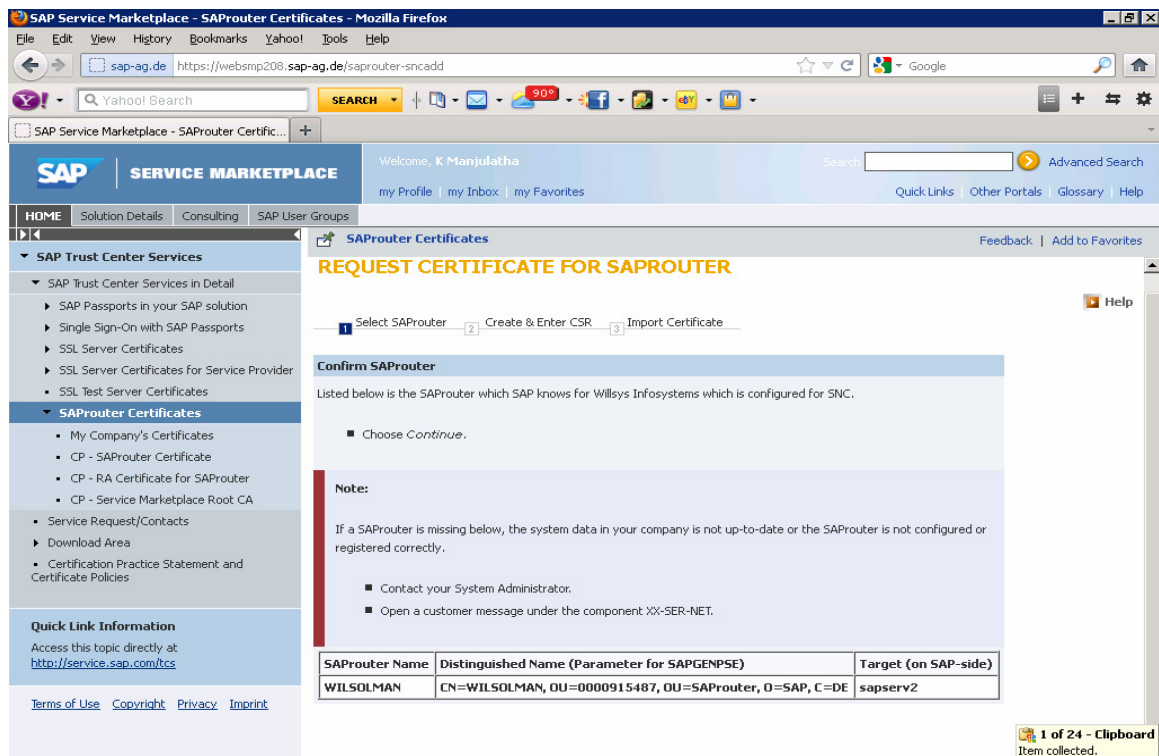
SAProuter certificates are available free of charge from the SAP Service Marketplace.

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SAP Service Marketplace - SAProuter Certificates

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SAProuter Certificates

REQUEST CERTIFICATE FOR SAPROUTER

1. Select SAProuter 2. Create & Enter CSR 3. Import Certificate

Confirm SAProuter

Listed below is the SAProuter which SAP knows for Willsys Infosystems which is configured for SNC.

■ Choose *Continue*.

Note:

If a SAProuter is missing below, the system data in your company is not up-to-date or the SAProuter is not configured or registered correctly.

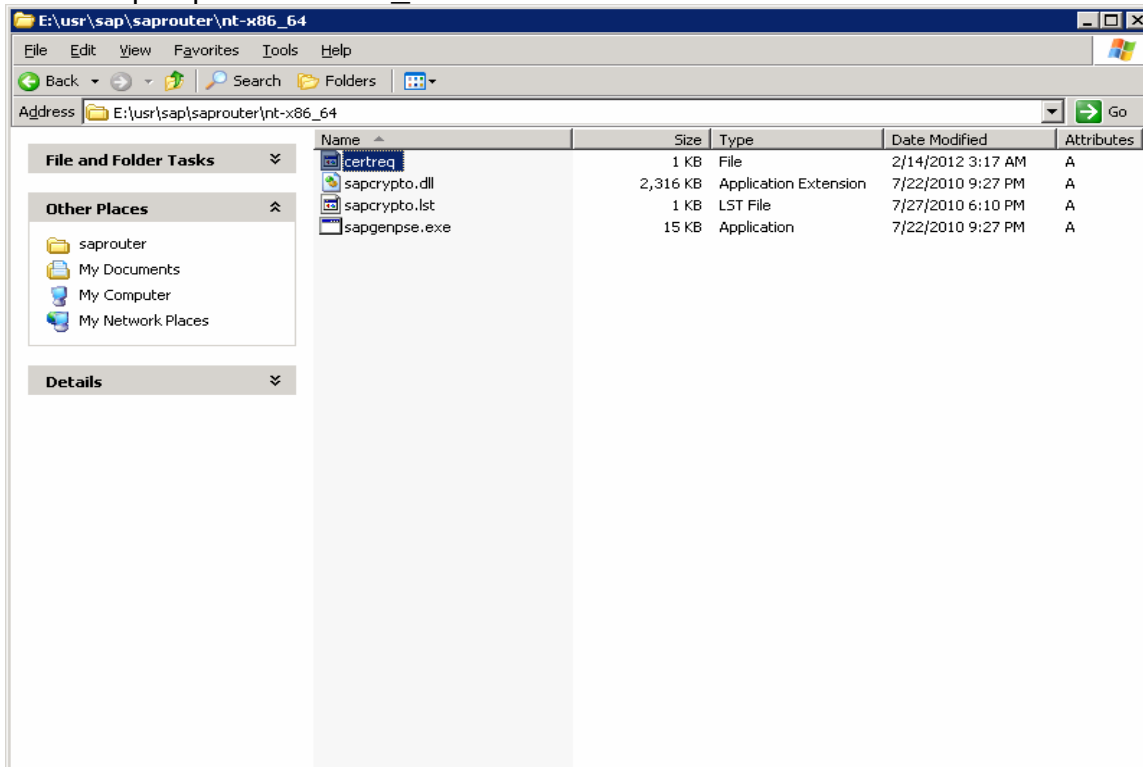
■ Contact your System Administrator.
■ Open a customer message under the component XX-SER-NET.

SAProuter Name	Distinguished Name (Parameter for SAPGENPSE)	Target (on SAP-side)
WILSOLMAN	CN=WILSOLMAN, OU=0000915487, OU=SAProuter, O=SAP, C=DE	sapserv2

1 of 24 - Clipboard Item collected.

Distinguished Name→
CN=WILSOLMAN, OU=0000915487, OU=SAProuter, O=SAP, C=DE

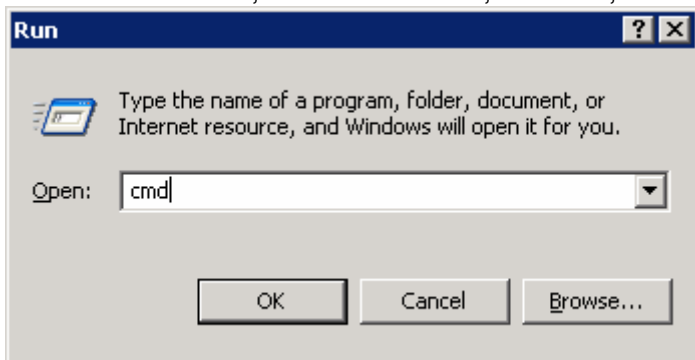
Now create a “certreq” textfile without any extension in the E:\usr\sap\saprouter\nt-x86_64 folder



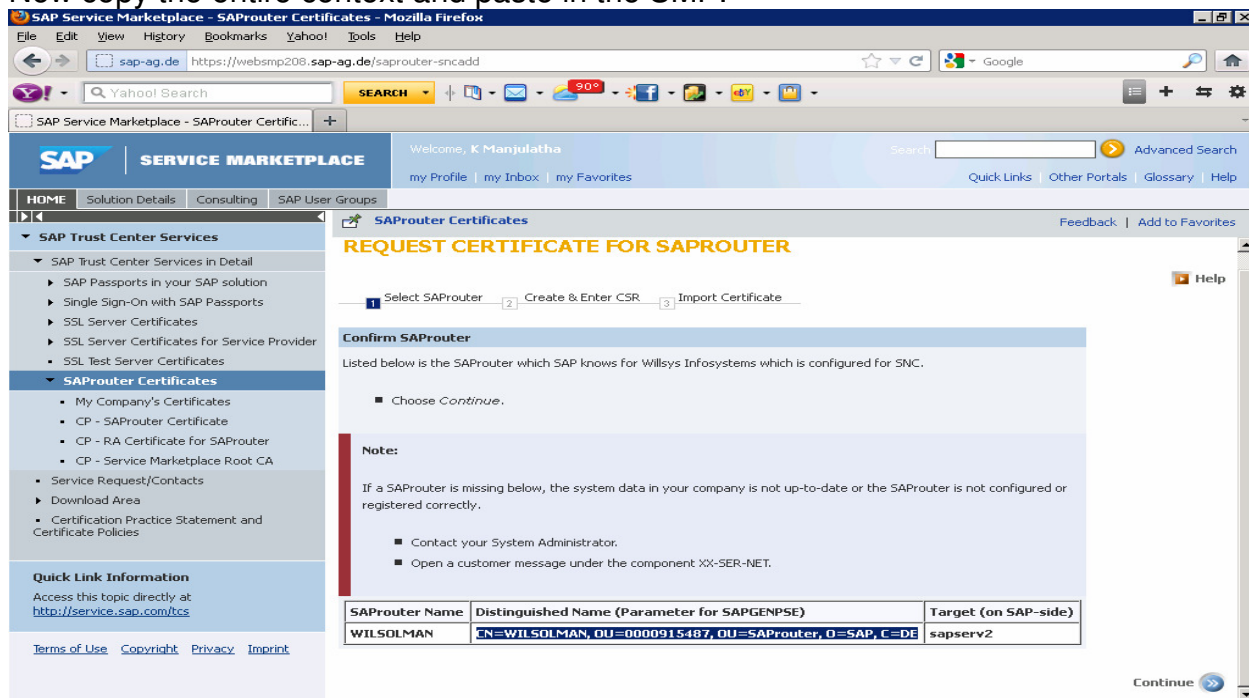
Execute theCommand

Sapgenpse get_pse -v -r certreq -p local.pse “<Distinguished Name>”

sapgenpse get_pse -v -r certreq -p local.pse “CN=WILSOLMAN, OU=0000915487, OU=SAProuter, O=SAP, C=DE”



Now copy the entire context and paste in the SMP.



The screenshot shows the SAP Service Marketplace interface for SAProuter Certificates. The page title is "REQUEST CERTIFICATE FOR SAPROUTER". The navigation pane on the left includes "SAP Trust Center Services" and "SAProuter Certificates". The main content area shows a progress bar with three steps: "1. Select SAProuter", "2. Create & Enter CSR", and "3. Import Certificate". The current step is "1. Select SAProuter".

Confirm SAProuter

Listed below is the SAProuter which SAP knows for Willsys Infosystems which is configured for SNC.

- Choose *Continue*.

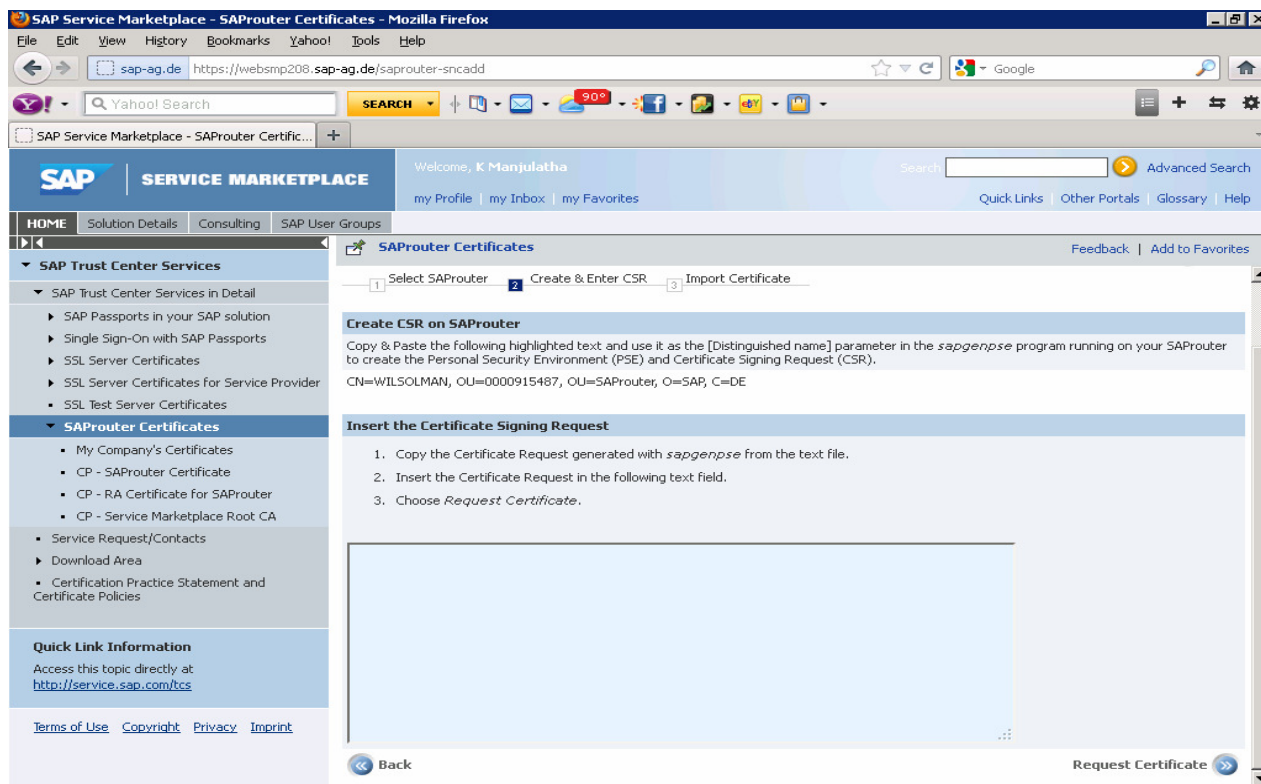
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Continue



The screenshot shows the SAP Service Marketplace interface for SAProuter Certificates. The page title is "REQUEST CERTIFICATE FOR SAPROUTER". The navigation pane on the left includes "SAP Trust Center Services" and "SAProuter Certificates". The main content area shows a progress bar with three steps: "1. Select SAProuter", "2. Create & Enter CSR", and "3. Import Certificate". The current step is "2. Create & Enter CSR".

Create CSR on SAProuter

Copy & Paste the following highlighted text and use it as the [Distinguished name] parameter in the *sapgenpse* program running on your SAProuter to create the Personal Security Environment (PSE) and Certificate Signing Request (CSR).

CN=WILSOLMAN, OU=0000915487, OU=SAProuter, O=SAP, C=DE

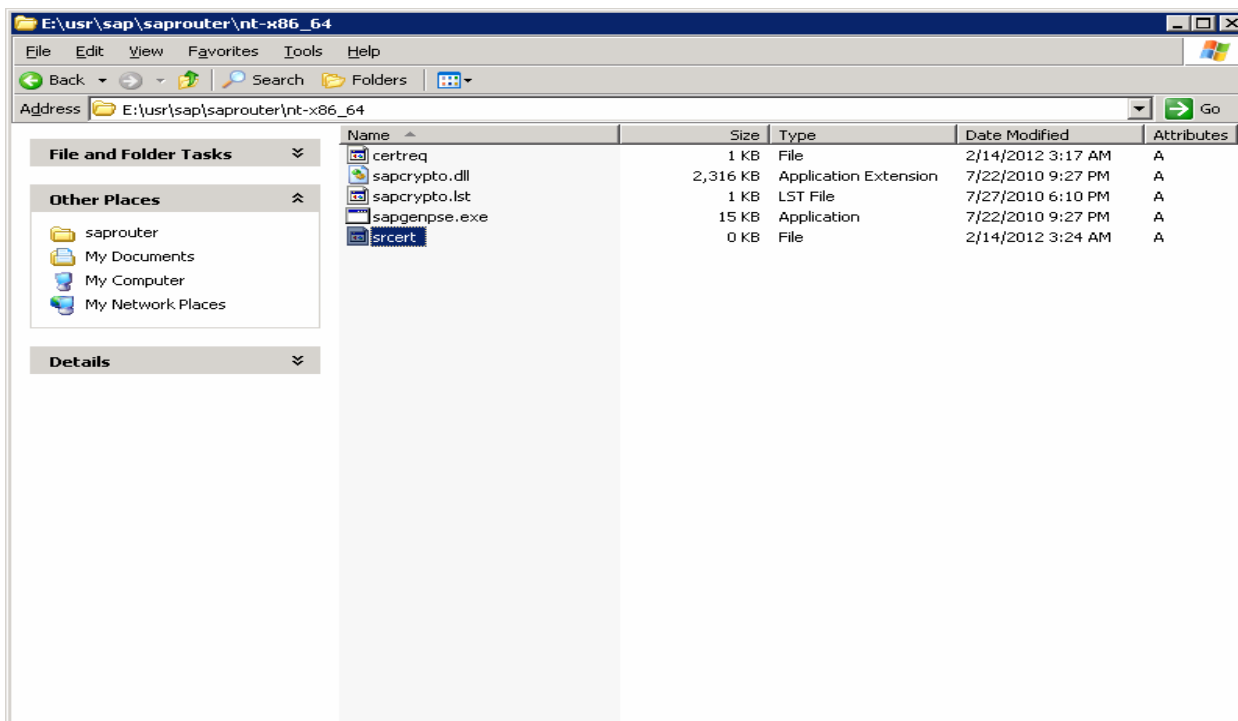
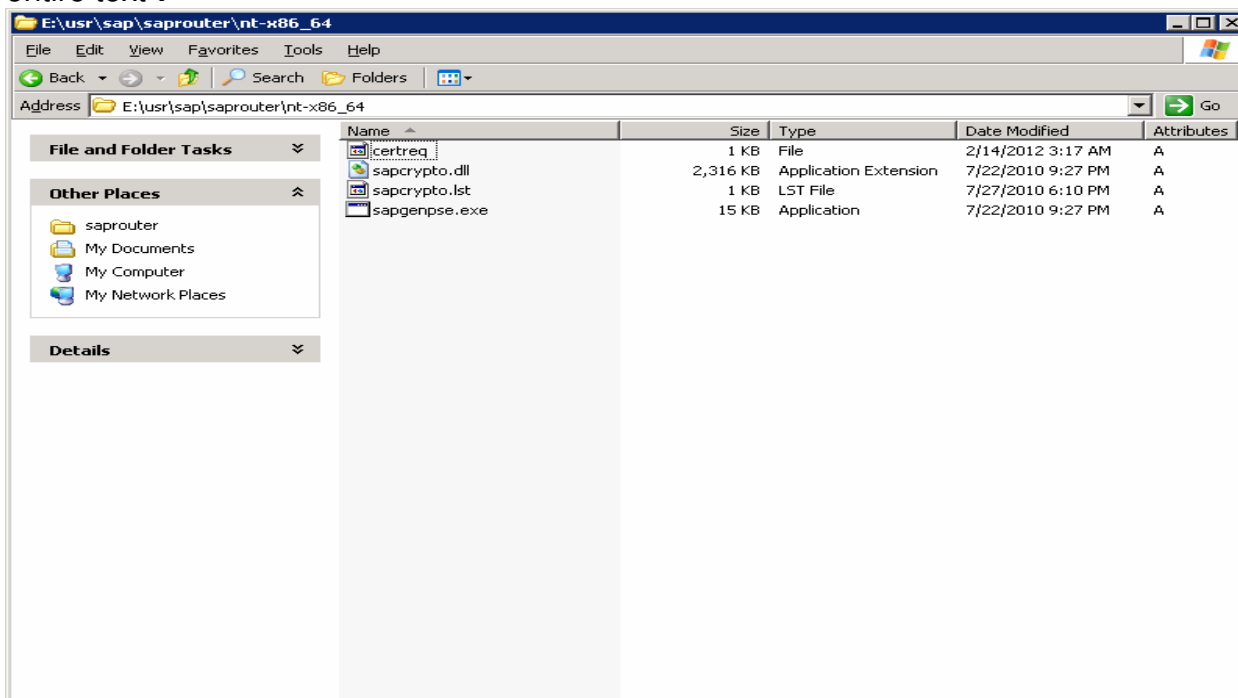
Insert the Certificate Signing Request

- Copy the Certificate Request generated with *sapgenpse* from the text file.
- Insert the Certificate Request in the following text field.
- Choose *Request Certificate*.

Back Request Certificate

The screenshot shows a web browser window displaying the SAP Service Marketplace page for SAProuter Certificates. The browser's address bar shows the URL <https://websmp208.sap-ag.de/saprouter-sncadd>. The page has a navigation bar at the top with links like 'HOME', 'Solution Details', 'Consulting', and 'SAP User Groups'. The main content area is titled 'SAP Trust Center Services' and 'SAProuter Certificates'. It includes a 'Quick Link Information' section with a URL to <http://service.sap.com/tcs>. The page is in German, with a sidebar on the left and a main content area on the right.

Create a “srcert” file without any extension in the same location and paste the entire text→




```

C:\WINDOWS\system32\cmd.exe
07/22/2010 09:27 PM          2,371,584 sapcrypto.dll
07/27/2010 06:10 PM              42 sapcrypto.lst
07/22/2010 09:27 PM        15,360 sapgenpse.exe
4 File(s)          2,386,986 bytes
2 Dir(s)  44,986,920,960 bytes free

E:\usr\sap\saprouter\nt-x86_64>sapgenpse get_pse -v -r certreq -p local.pse "CN=
WILSOLMAN, OU=0000915487, OU=SAProuter, O=SAP, C=DE"
Got absolute PSE path "E:\usr\sap\saprouter\local.pse".
Please enter PIN:
Please reenter PIN:
Supplied distinguished name: "CN=WILSOLMAN, OU=0000915487, OU=SAProuter, O=SAP,
C=DE"
Creating PSE with format v2 (default)
Generating key (RSA, 1024-bits) ... succeeded.
certificate creation... ok
PSE update... ok
PKRoot... ok
Generating certificate request... ok.

E:\usr\sap\saprouter\nt-x86_64>sapgenpse import_own_cert -c srcert -p local.pse
Please enter PIN:
CA-Response successfully imported into PSE "E:\usr\sap\saprouter\local.pse"

E:\usr\sap\saprouter\nt-x86_64>sapgenpse seclogin -p local.pse -O soladm
running seclogin with USER="soladm"
creating credentials for user "WILSOLMAN\soladm"...
Please enter PIN:
Adjusting credentials and PSE ACLs to include "WILSOLMAN\soladm"...
Oh, you supplied your own name explicitly ... ok.
E:\usr\sap\saprouter\cred_v2 ... ok.
E:\usr\sap\saprouter\local.pse ... ok.
Added SSO-credentials for PSE "E:\usr\sap\saprouter\local.pse"
"CN=WILSOLMAN, OU=0000915487, OU=SAProuter, O=SAP, C=DE"

E:\usr\sap\saprouter\nt-x86_64>

```

```

C:\WINDOWS\system32\cmd.exe
Supplied distinguished name: "CN=WILSOLMAN, OU=0000915487, OU=SAProuter, O=SAP,
C=DE"
Creating PSE with format v2 (default)
Generating key (RSA, 1024-bits) ... succeeded.
certificate creation... ok
PSE update... ok
PKRoot... ok
Generating certificate request... ok.

E:\usr\sap\saprouter\nt-x86_64>sapgenpse import_own_cert -c srcert -p local.pse
Please enter PIN:
CA-Response successfully imported into PSE "E:\usr\sap\saprouter\local.pse"

E:\usr\sap\saprouter\nt-x86_64>sapgenpse seclogin -p local.pse -O soladm
running seclogin with USER="soladm"
creating credentials for user "WILSOLMAN\soladm"...
Please enter PIN:
Adjusting credentials and PSE ACLs to include "WILSOLMAN\soladm"...
Oh, you supplied your own name explicitly ... ok.
E:\usr\sap\saprouter\cred_v2 ... ok.
E:\usr\sap\saprouter\local.pse ... ok.
Added SSO-credentials for PSE "E:\usr\sap\saprouter\local.pse"
"CN=WILSOLMAN, OU=0000915487, OU=SAProuter, O=SAP, C=DE"

E:\usr\sap\saprouter\nt-x86_64>sapgenpse get_my_name -v -n Issuer
Opening PSE "E:\usr\sap\saprouter\local.pse"...
PSE (v2) open ok.
Retrieving my certificate... ok.
Getting requested information... ok.
SSO for USER "soladm"
with PSE file "E:\usr\sap\saprouter\local.pse"

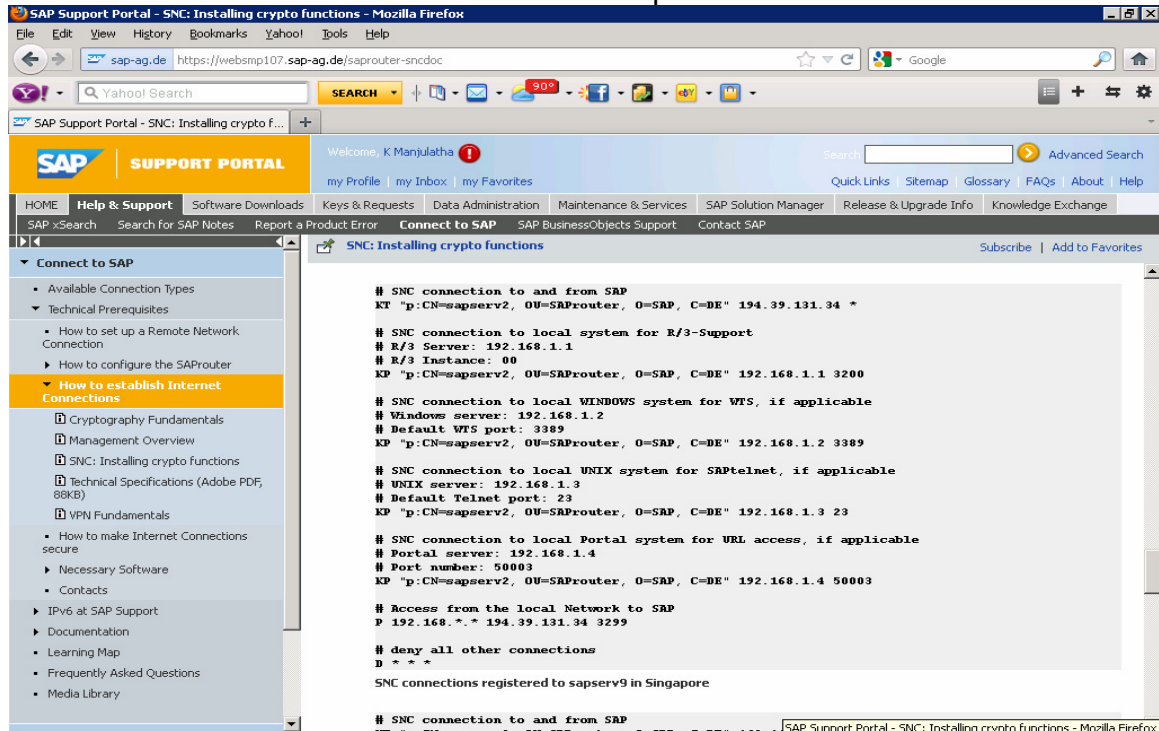
Issuer : CN=SAProuter CA, OU=SAProuter, O=SAP, C=DE

E:\usr\sap\saprouter\nt-x86_64>

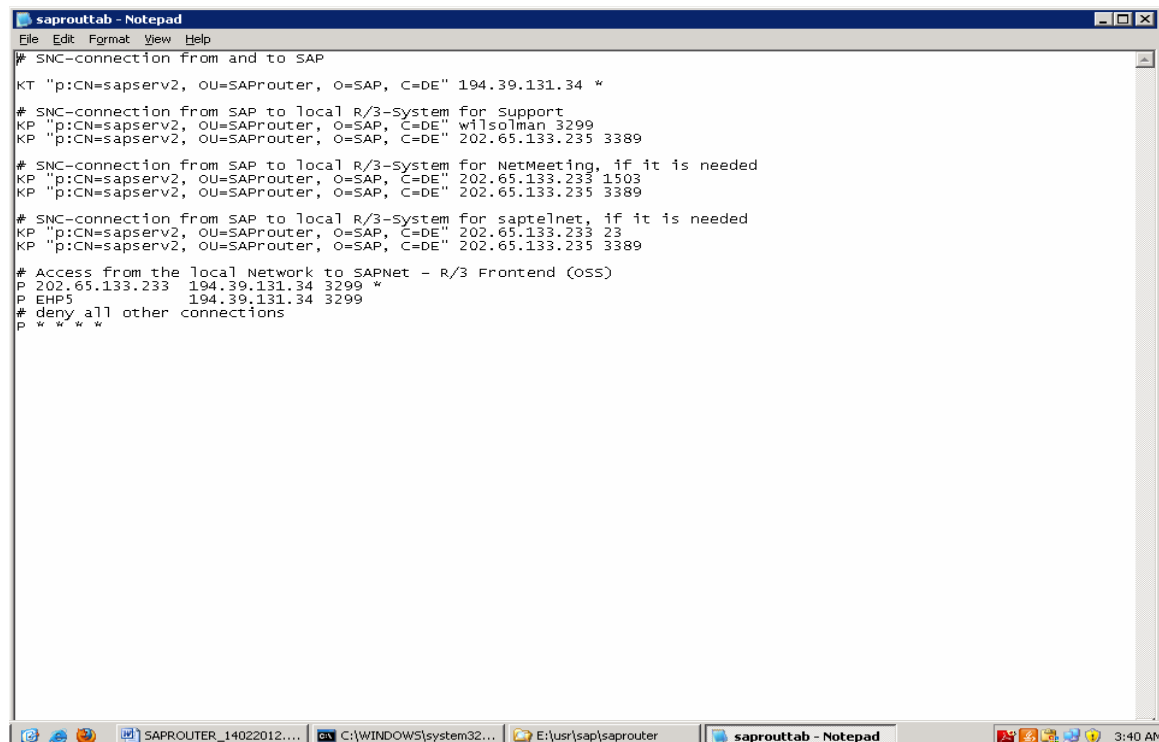
```

The Router is configured successfully

Now we need to maintain the details in the saprountab file



The screenshot shows the SAP Support Portal interface in a Mozilla Firefox browser. The page title is "SAP Support Portal - SNC: Installing crypto functions - Mozilla Firefox". The address bar shows the URL "https://websmp107.sap-ag.de/saprouter-sncdoc". The page content includes a search bar, a navigation menu, and a main content area titled "SNC: Installing crypto functions". The main content area contains a list of configuration steps for SNC connections, including connections to SAP, local R/3 systems, local Windows systems, local UNIX systems, and local Portal systems. The steps are numbered 1 through 5, each with a specific configuration command and a description of the connection type and port.



The screenshot shows a Notepad window titled "saprountab - Notepad". The window contains the following configuration text:

```
# SNC-connection from and to SAP
KT "p:CN=sapserv2, OU=SAProuter, O=SAP, C=DE" 194.39.131.34 *

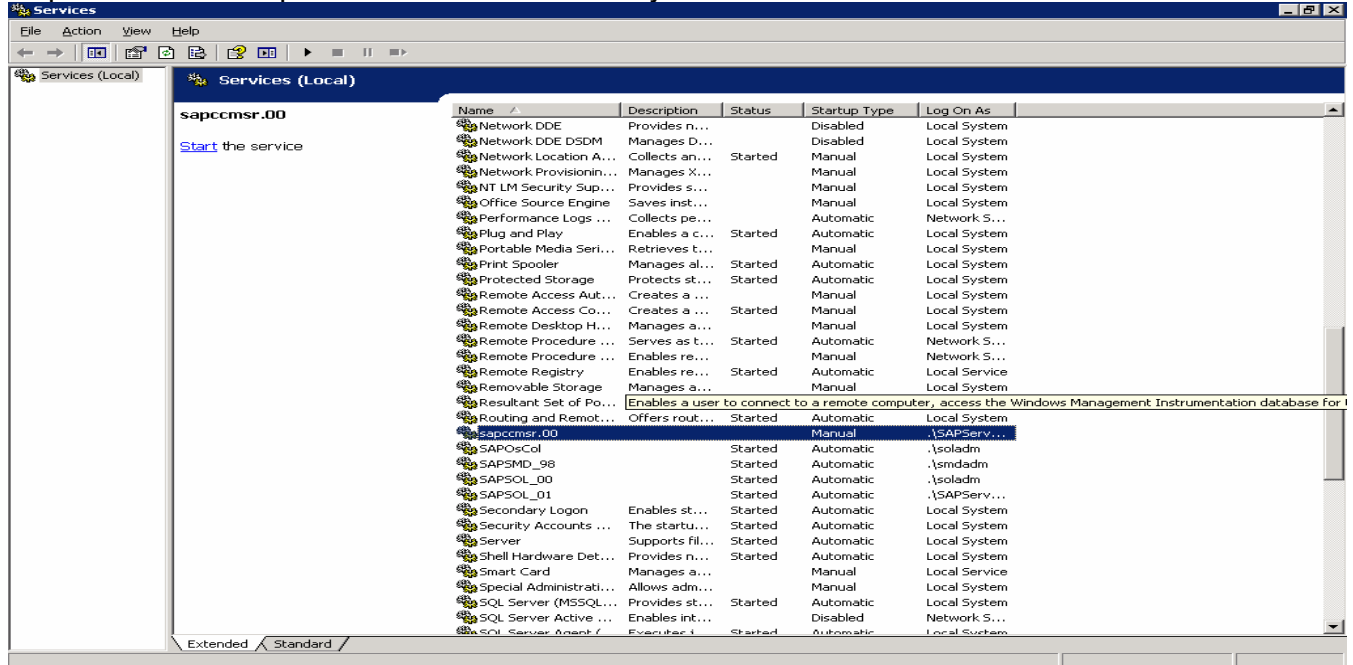
# SNC-connection from SAP to local R/3-System for Support
KP "p:CN=sapserv2, OU=SAProuter, O=SAP, C=DE" willsolman 3299
KP "p:CN=sapserv2, OU=SAProuter, O=SAP, C=DE" 202.65.133.235 3389

# SNC-connection from SAP to local R/3-System for NetMeeting, if it is needed
KP "p:CN=sapserv2, OU=SAProuter, O=SAP, C=DE" 202.65.133.233 1503
KP "p:CN=sapserv2, OU=SAProuter, O=SAP, C=DE" 202.65.133.235 3389

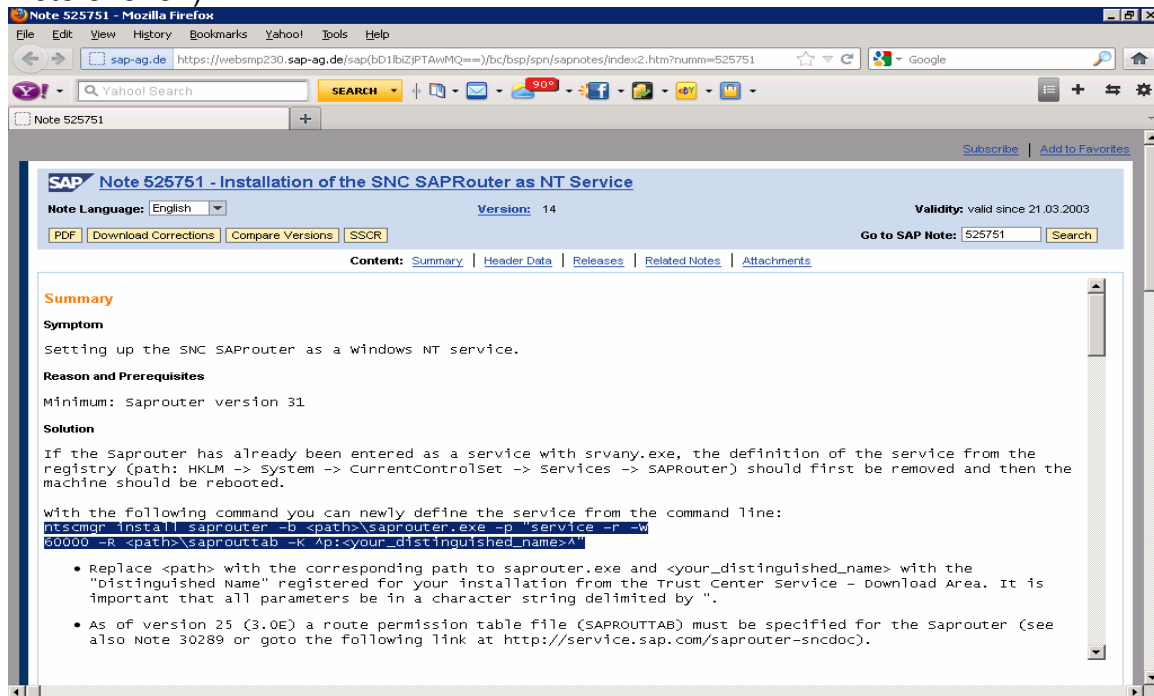
# SNC-connection from SAP to local R/3-System for saptelnet, if it is needed
KP "p:CN=sapserv2, OU=SAProuter, O=SAP, C=DE" 202.65.133.233 23
KP "p:CN=sapserv2, OU=SAProuter, O=SAP, C=DE" 202.65.133.235 3389

# Access from the local Network to SAPNet - R/3 Frontend (OSS)
P 202.65.133.233 194.39.131.34 3299 *
P EHP5 194.39.131.34 3299
# deny all other connections
P * * * *
```

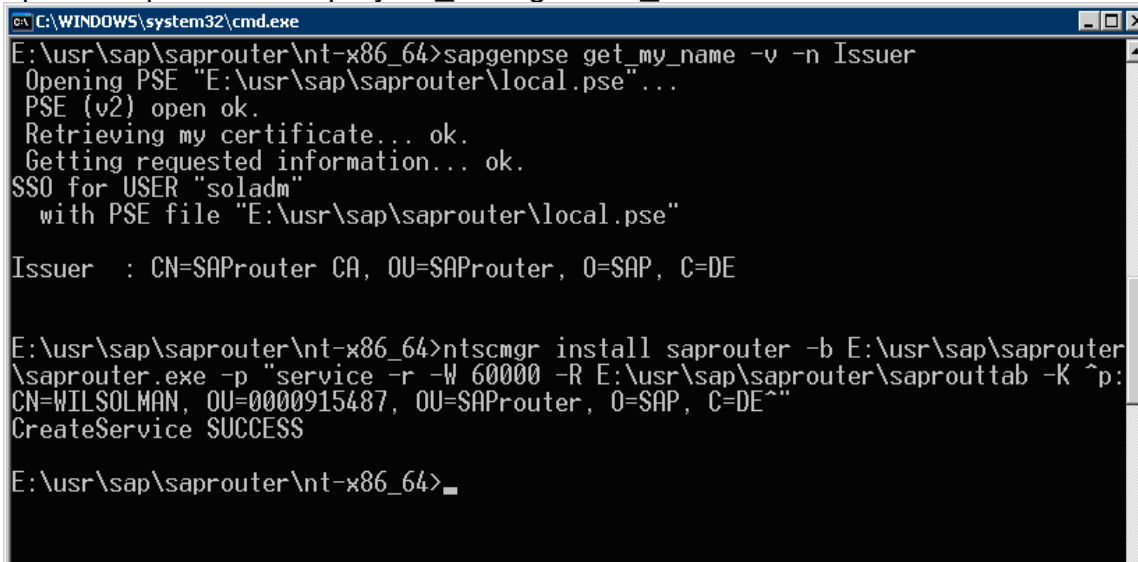
We can use `saprouter -r` to start
Saprouter `-s` to stop the SAP Router Manually



If we want to create as a service we need to execute the below command (Refer Note:525751)



ntscmgr install saprouter -b <path>\saprouter.exe -p "service -r -W 60000 -R
<path>\saprountab -K ^p:<your_distinguished_name>^"



```
C:\WINDOWS\system32\cmd.exe
E:\usr\sap\saprouter\nt-x86_64>sapgenpse get_my_name -v -n Issuer
Opening PSE "E:\usr\sap\saprouter\local.pse"...
PSE (v2) open ok.
Retrieving my certificate... ok.
Getting requested information... ok.
SSO for USER "soladm"
  with PSE file "E:\usr\sap\saprouter\local.pse"

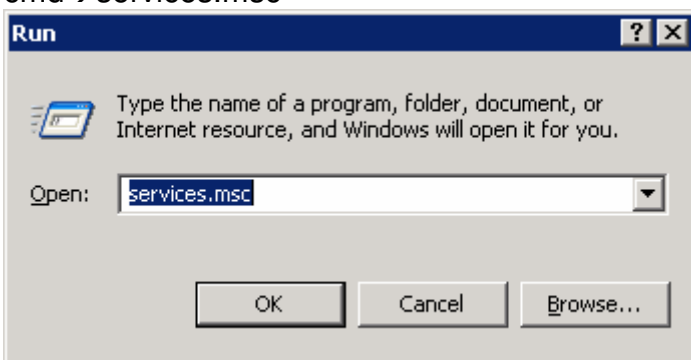
Issuer   : CN=SAProuter CA, OU=SAProuter, O=SAP, C=DE

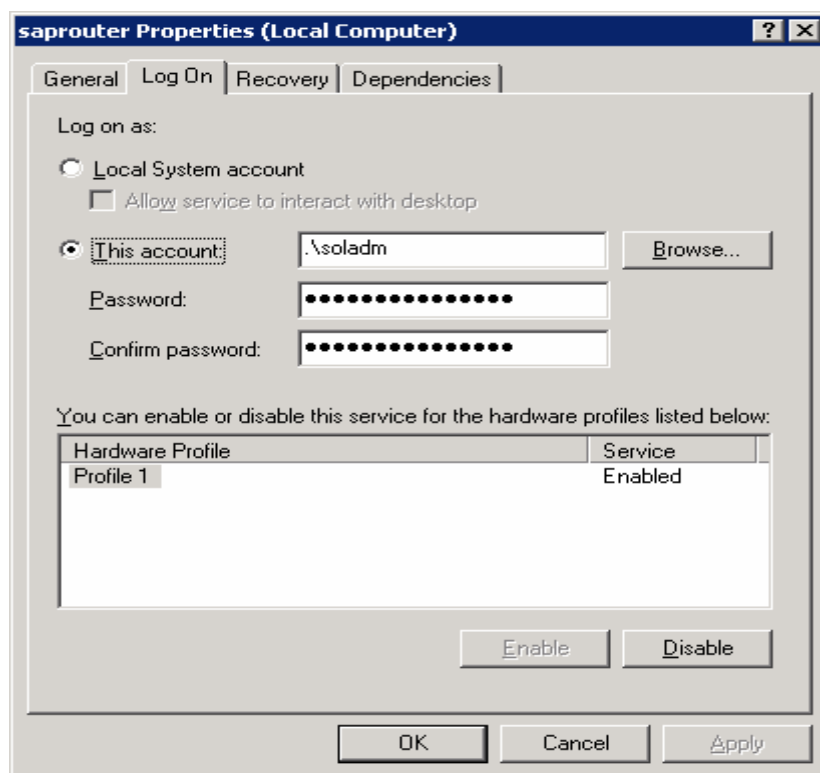
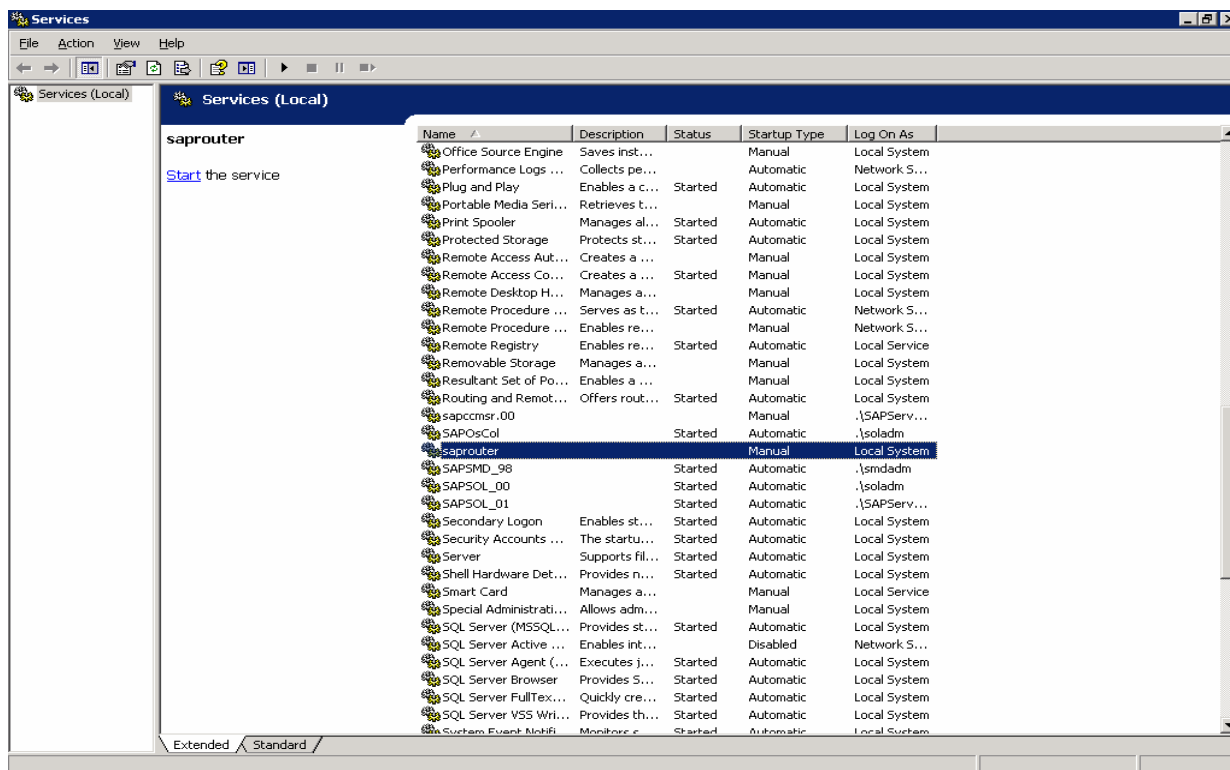
E:\usr\sap\saprouter\nt-x86_64>ntscmgr install saprouter -b E:\usr\sap\saprouter
\saprouter.exe -p "service -r -W 60000 -R E:\usr\sap\saprouter\saprountab -K ^p:
CN=WILSOLMAN, OU=0000915487, OU=SAProuter, O=SAP, C=DE^"
CreateService SUCCESS

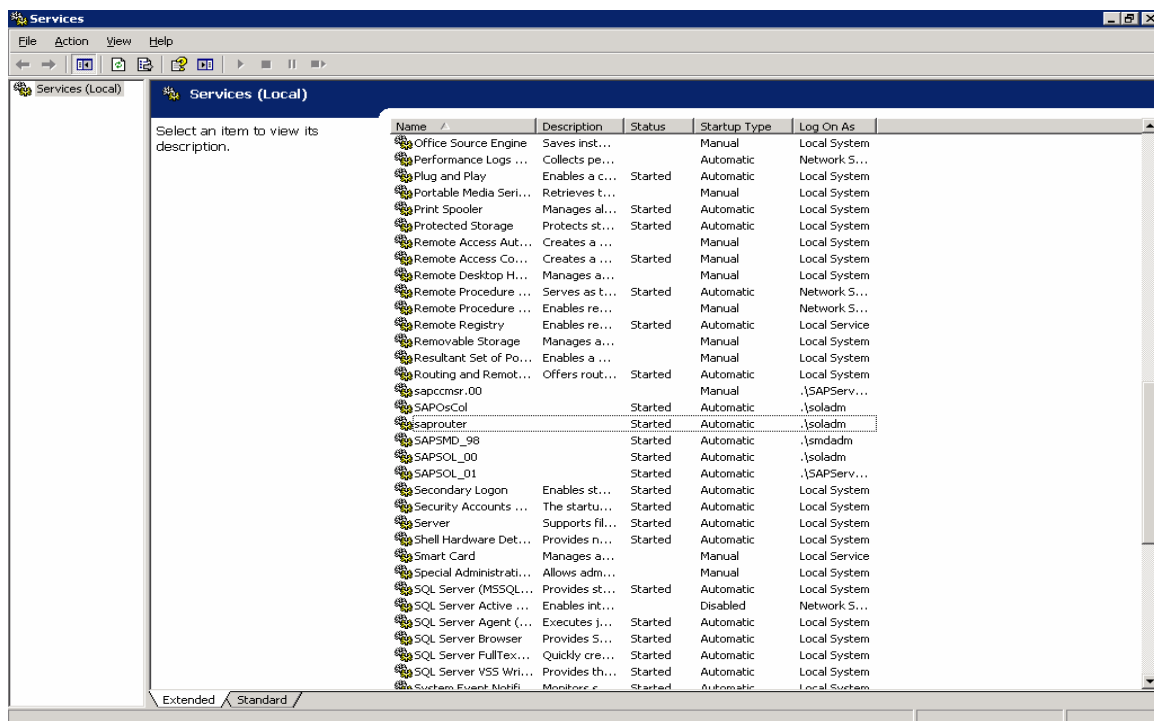
E:\usr\sap\saprouter\nt-x86_64>
```

The service is created successfully

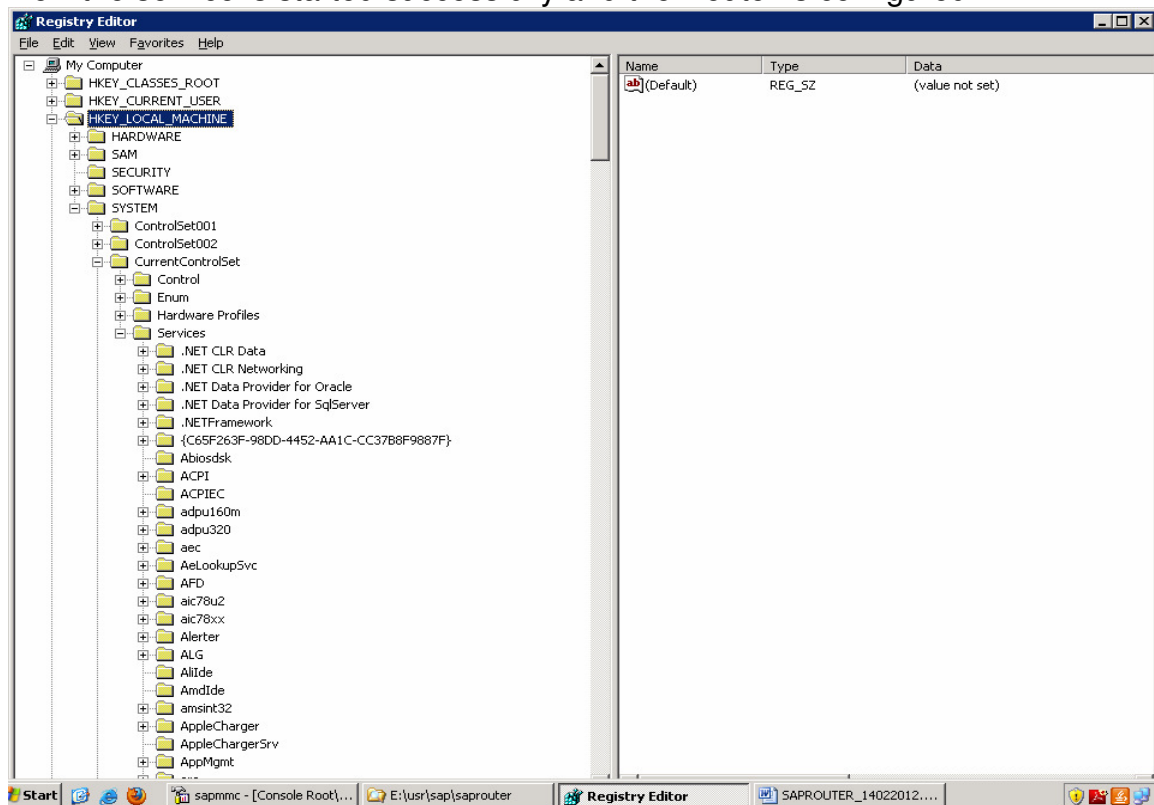
cmd→services.msc

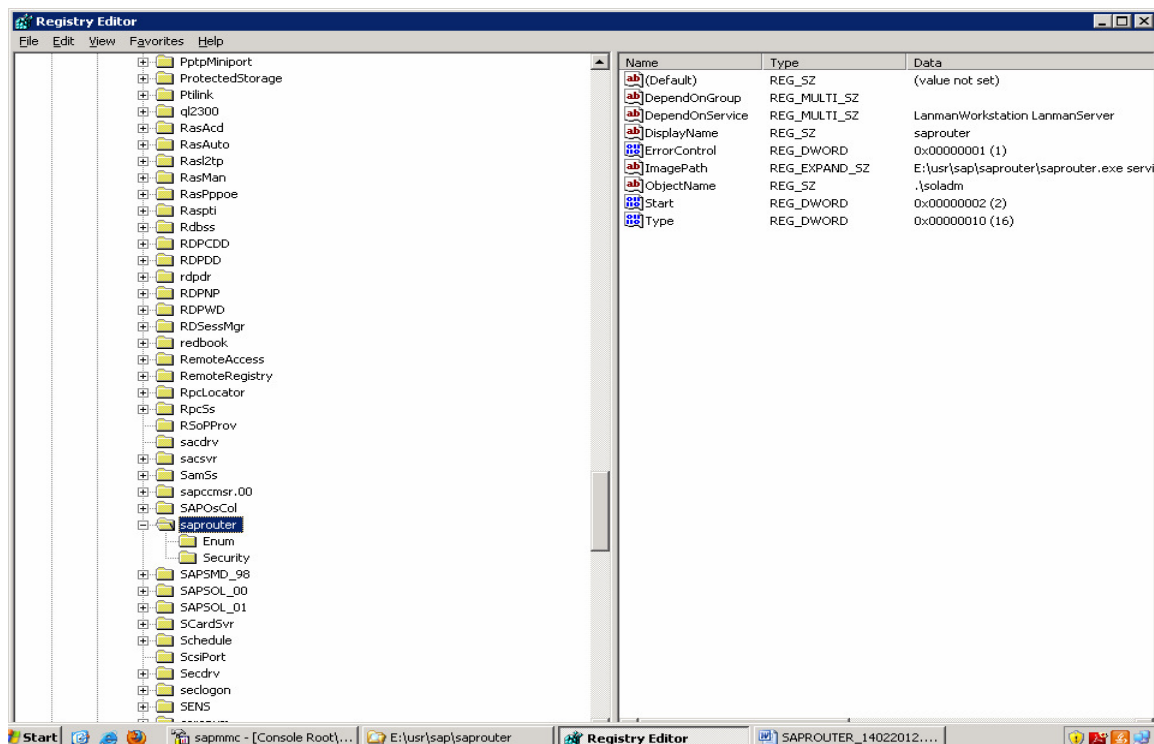




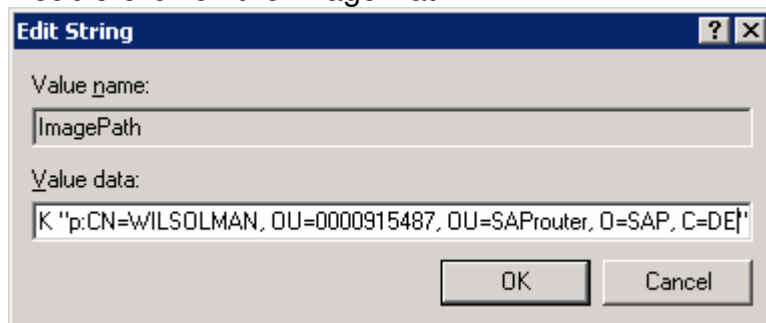


Now the service is started successfully and the Router is configured



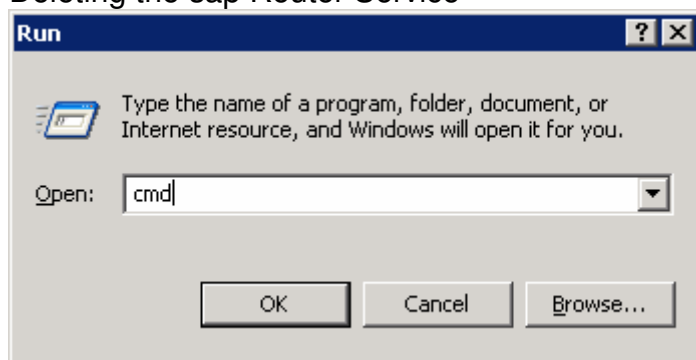


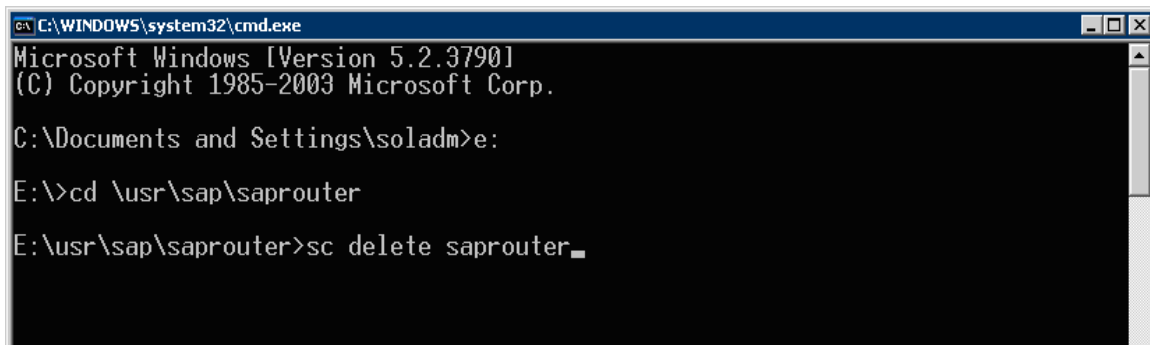
Double-click on the Image Path→



Remove the “^”

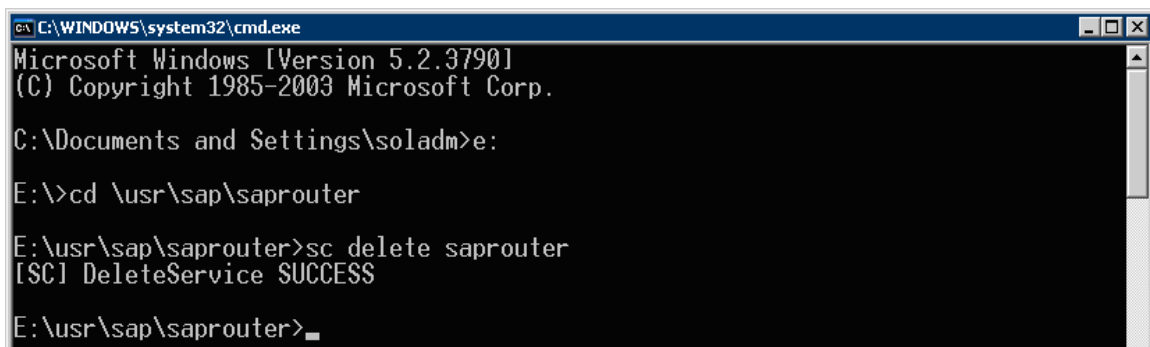
Login to system and execute “OSS1” and maintain the IP Address and Hostname
Deleting the sap Router Service





```
C:\WINDOWS\system32\cmd.exe
Microsoft Windows [Version 5.2.3790]
(C) Copyright 1985-2003 Microsoft Corp.

C:\Documents and Settings\soladm>e:
E:\>cd \usr\sap\saprouter
E:\usr\sap\saprouter>sc delete saprouter_
```

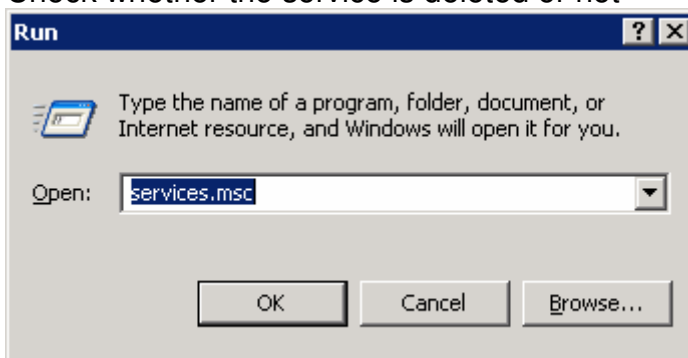


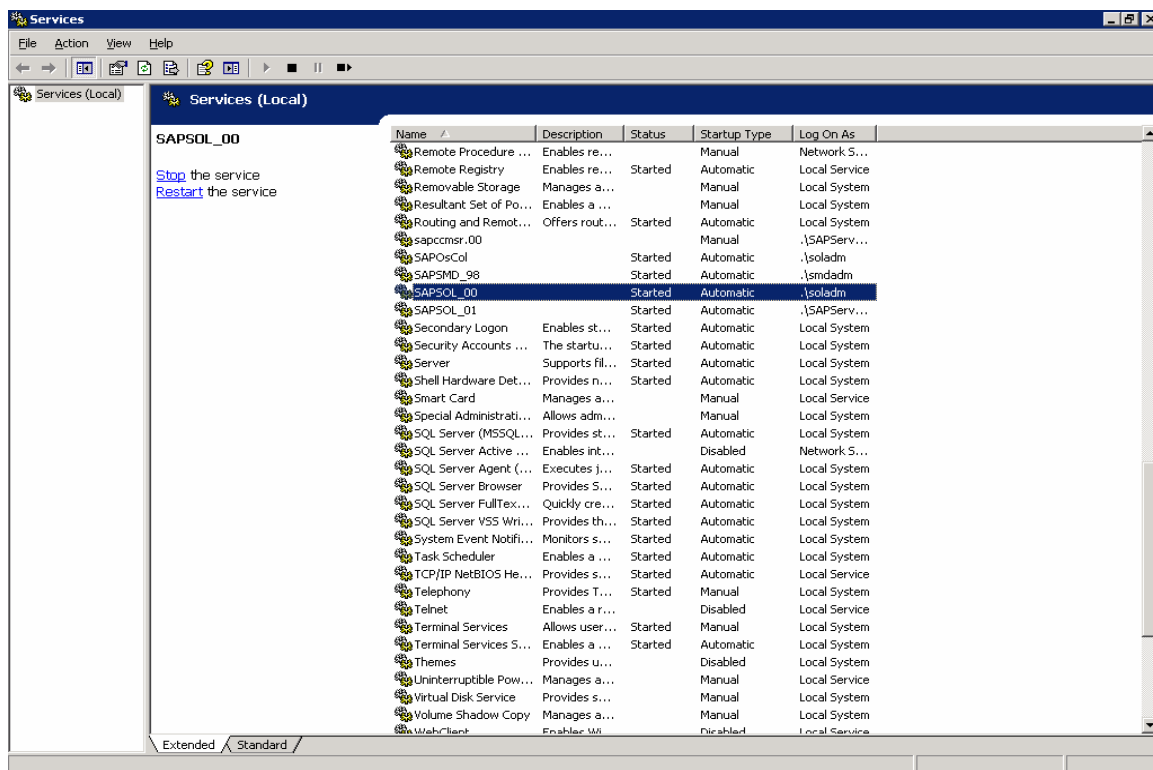
```
C:\WINDOWS\system32\cmd.exe
Microsoft Windows [Version 5.2.3790]
(C) Copyright 1985-2003 Microsoft Corp.

C:\Documents and Settings\soladm>e:
E:\>cd \usr\sap\saprouter
E:\usr\sap\saprouter>sc delete saprouter
[SC] DeleteService SUCCESS
E:\usr\sap\saprouter>_
```

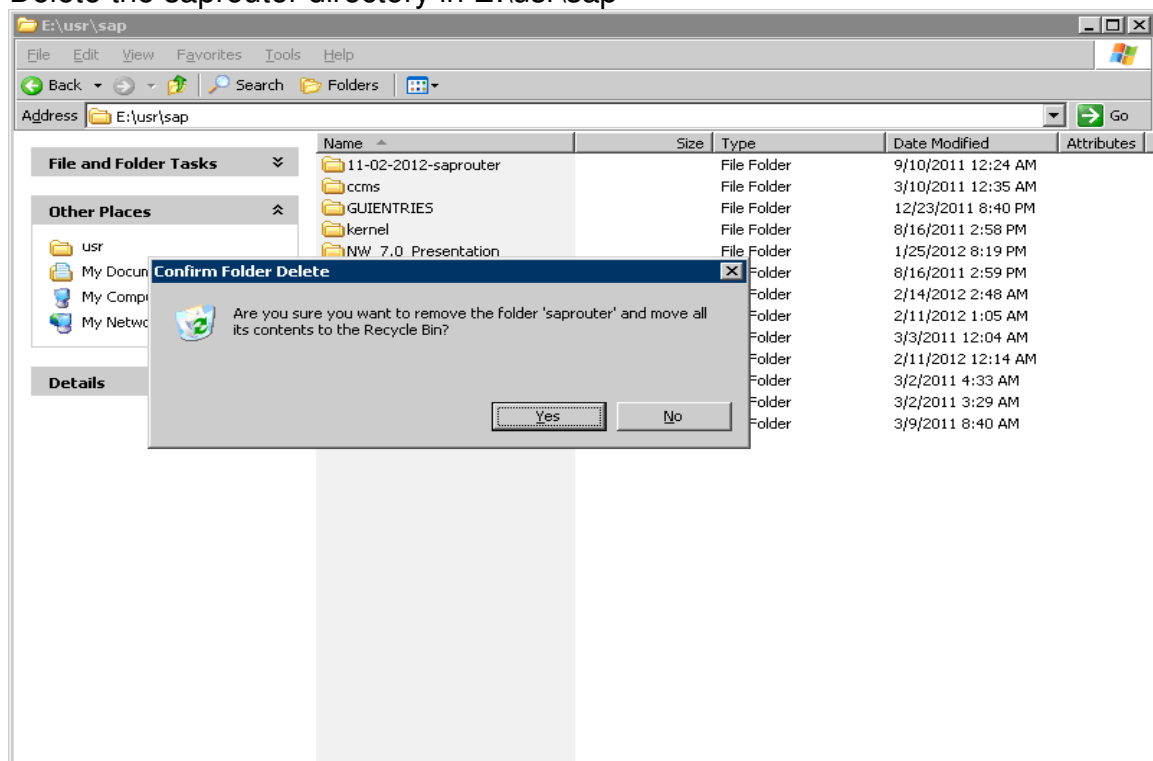
Restart the System

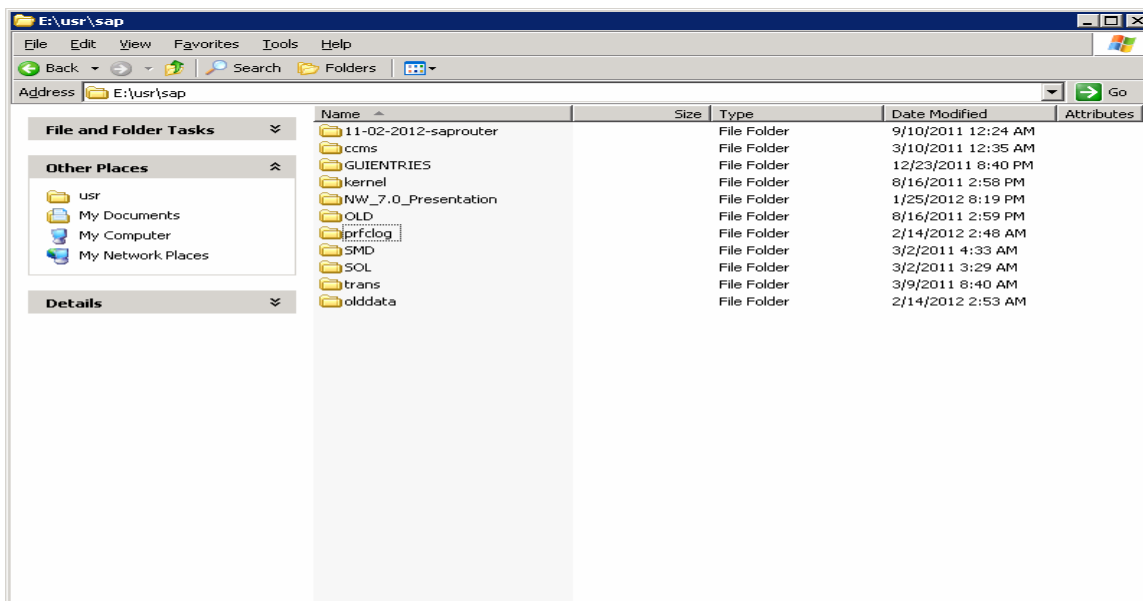
Check whether the service is deleted or not





Delete the saprouter directory in E:\usr\sap





Once the Directory is deleted now we can configure the SAP Router Again

Related Content:

www.help.sap.com

www.sdn.sap.com/irj/sdn/index.

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