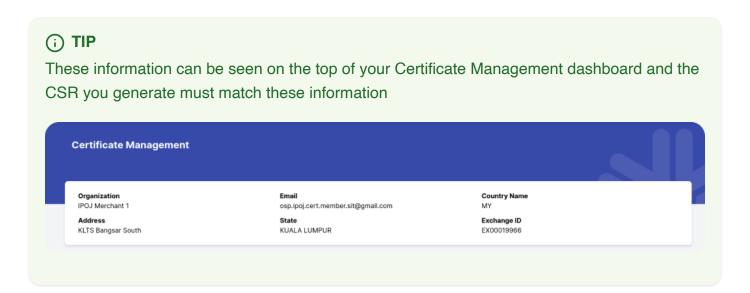
# **Generate CSR and Private Key**

# **CSR Format Guidelines**

Before you begin generating your CSR (Certificate Signing Request), please ensure that you follow these format guidelines to adhere to PayNet's standards:

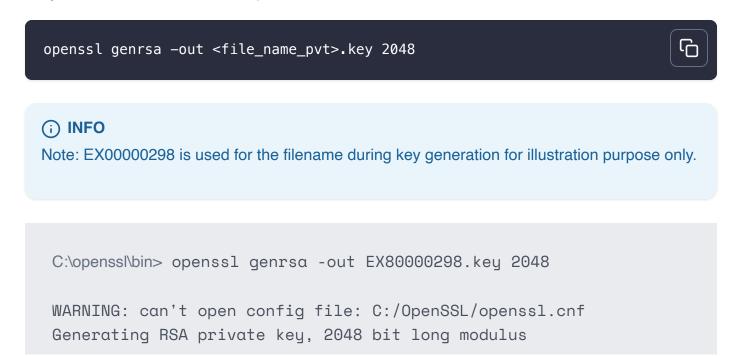
Country Name (C)	MY
Organization Name (O)	Applicant's organization name. For example:  XYZ Sdn. Bhd.
Organizational Unit (OU)	Indicate the name of the product or service. For example:  • For FPX: PayNet FPX  • For DuitNow: PayNet RPP  • For DuitNow Pay: PayNet DNPAY
Common Name (CN)	Assign the appropriate value based on your application type:  • For Banks: BIC Code  • For Merchants: Merchant ID  • For FPX Merchants: Exchange ID  • For DuitNow Pay Acquirer: Developer Portal Project Id
Email Address (E)	Business email address



# **Generate on Windows Platform**

Generation of Private Key and CSR at Merchant's/TPA's End.

Step 1: Generation of Private Key



Step 2: Generation of CSR

```
openssl req -out <file_name_csr>.csr -key <file_name_key>.key -new -sha256
```

C:\openssl\bin> openssl req -out EX00000298.csr -key EX80000298.key - new-sha256

**Step 3:** Information that will be incorporated into the certificate request. Please leave a challenge password and an optional company name blank.

```
What you are about to enter is what is called a Distinguished Name or a DN.

There are quite a few fields but you can leave some blank For some fields there will be a default value,

If you enter '.', the field will be left blank.

Country Name (2 letter code) [XX]:MY

State or Province Name (full name) []: Kuala Lumpur Locality Name (eg, city) [Default City]: 50600

Organization Name (eg, company) [Default Company Ltd]: XYZ Sdn.

Bhd.

Organizational Unit Name (eg, section) []: PayNet FPX
```

```
Common Name (eg, your name or your server's hostname) []:
EX00000298
Email Address []: johdoe@gmail.com

Please enter the following 'extra' attributes
to be sent with your certificate request
A challenge password []:
An optional company name []:
```

# Sample of Private Key

#### --BEGIN PRIVATE KEY--

MIIEVAIBADANBqkqhkiG9w0BAQEFAASCBKqwqqSKAqEAAoIBAQDQnJqYYBVNBEAJ MI3jfTmo7PHTjw7nguc0Y1sQJpGCWYvorv4nNtfWgUrag5Y69nT131pMrXWak9tA uuwrzTDeyeE0seHaNkjaCRuLA1SpnySTBKLQ4JbMiq0qsolvHBj4eItUqLqP8Vqb ma17zTeBsCLdW7teulzrhPqqNxKMLBQswOnisDunxBpVRRmdoYAhF6AFdIL+XOKO t5GYENOPFrfoPQNPqV+rTD8D6TT1801XhRICwKWBZCJCqGFNKYAao8B5I/sqKajE ju4H1KnPdky5tnaEXoiBLtQxrJJUWLP+usZ0m+EHppGArGNqW0BXP67c/W8a6rMr 4hbH+ZABAqMBAAECqqEALBYRUZqjpm/Rmd/cqPqfayqXUCb1/dprzcoQmm+tYSTS QteOAnjEVy3hGDAKSj+HJHYAOaqMLa2KNTvRaMmwxctmhZ//pAbkkl/CpTiFFIEE WNooG4CCHCpMw1Q+N/p3BUNoIuw9huaARFrQplcUn6XBGZGmIZfBIKQYQuKjteDR BJCewIdh9fxRfkaa6vMdxbUK0hzwWYChwQmR/uqARKXDm1119QRTUG9Z4VpjvHNM mI7X+ntwQTyc3KXqSedD5h80D/tDyQA16cbbX12EHY00A/zWBXXPUG/V1bMXiLjU hrhvlnEmoiugfEyfKowgAIlg77d0rK0crv02M5BHSQKBgQDcku16UrsHJCY2ZKym AKALQXtn8w15RvZojHK2Hj+pUcHU9TUADrquztem2LcuPdWSJo+CvmqCTc46fJNJ Z4fiFv80UwbnfN1B5T6NjCuqotHwm23yyvv0m5pYVnPc5Pt/+IRz/MiuqyrY/zsT 7U5q6h2QNH1peMGEE4qzvUqt9QKBqQDyHdddXRSZrzVEu1Hcw5PWeFSLAToqVeui ax34pSLB4yB9/gts0rn4t0/wH+KE3Vzv40g/xW/pjZIGMYlrsUZThzm00Qn64ZfN SY6SsBQ2/OeLUXAe5IFCQrFNKjujoWHvRfHtsvFcu+UKuQ+Ph4gKFwzPwgXL/rcI OgBOsmtrzwKBgB8FZvK6KeWSNVGVbRaX4Gv01KdE7pMs4MDJZ+SnEmr8vZb2uXJ9
n3g900R9PB6LxbqdQ7eukgoraSKenJRJRD004+nG64So8WESHYUIvqdr6Ly/D1KD
K7Dd/3IHDpp1dc2EpRQu7AZnGiKUmrltuYadāHSUFULVIdoyaQhlyX31AOGBAKTV
KTHD4XW0QqB4IK44WWY/+KGRrWglYpgMr5UjwaK90/Q4bMYMY3410p+EyQXj2pza
5LwUnuFGFNRVSJ0hXZwnQVGGG7tZ1NTXKBXLd2niLUXeC3gwB91AptG/VSHPHW0n
g+B+hyfFClmnkD8hf84H18VsEhDeiwdCo+7bYIXHAOGBANTUbrrSHszHy98TNQI2
hdfge5b20Y650YV0zfGeBZZKGH88nsokEdnU02qxz1nPyc8twqast6xEqsmKtZFH
B2nqtbf6y0g703uPFx63XDNiZ17zm7XZj6ZiDQGZgcqPgVQDc9MDMhHaiXcXbDl+
PyVhyMjcLV9kmpmhMaNz/LGK

----END PRIVATE KEY----

## · Sample of CSR File

-BEGIN CERTIFICATE REQUEST-

MIIDKJCCAHICAQAwgbQxCzAJBgNVBAYTAK1ZMRUWEWYDVQQIDAXLdWFsYSBMdW1wdXIXGTAXBgNVBACMEFcuUCBLdWFsYSBMdW1wdXIXFTATBgNVBAoMDELwb20gU2Ru
IEJIZDEYMBYGA1UECwwPQ2VydCBNYW5hZ2VtZW50MRwwGgYDVQQDDBNERVZQT1JU
QUwUUEFZTKVULK1ZMSQwIgYJKoZIhvcNAQKBFhVmYW16Lmhhc251bEBwYX1uZXQu
bXkwggEiMA0GCSqGSIb3DQEBAQUAA4IBDWAwggEKAoIBAQDQnJqyYBVNBeAJMI3j
fTmo7PHTjw7ngyc0Y1sQJpGCWYvorv4nNtfWqUraq5Y69nT131pMrXWak9tAuuwr
ZTDeyeEoseHaNkj@CRuLA1SpnySTBKLQ4JbMiq0gsolvHBj4eItUgLqP8Vqbma17
zTeBsCLdW7teulzrhPqgNxkMLBQswonisDunxBpVRRmdoYAhF6AFdIL+xoK0t5G
EN0PFrfoPQNPqV+rTD8D6TTi801XhRICwKWBZCJCgGfNKYAao8B51/sqKajEju4H
1KnPdky5tnaEXoiBLtQxrJJUWLp+usZ0m+EHppGArGNgW0BXP67c/W8a6rMr4hbH
+ZABAgMBAAGgMDATBgkqhkiG9w0BCQIXBgwESXBvajAZBgkqhkiG9w0BCQCXDAWK
MjEwNDkwVyFzZTANBgkqhkiG9w0BAQsFAAOCAQEADWT3wdhXxlapEjGcMqPiCsN9
7Du6AwHeUwVDkYwvFJGYOCPmZPIuk10cX4ItlY+DnJfm5AKIN834RZ90SUL2pSe+
OdeTwNbZzxxfNYUG4FisrInoInRRbSgTSXHz9TMeWYSRywTjEwOmAj/Fk9uwMW5Q
8xw09t0n/d08NTNUegqaHcwnbRJqUYMNhL60M0hUK0Y5mplkx+qheNcaT8Gj9h9Y

vY7B7jyb5gqqGAhWBVt5UtUnz6x8D7606sAqh9LJdYkBUpm+FQopc40H8jEHTA0B CLC02dJLGto6CS5xs1vu4rDmo3xgJKvm6jZaSr8h/+14oq8u/hn8n5pnB4VvMw== -END CERTIFICATE REQUEST-

# **Generate on Linux Platform**

Generation of Private Key and CSR at Merchant's/TPA's End.

**Step 1:** Generation of Private Key



Step 2: Generation of CSR



• Information that will be incorporated into the certificate request. Please leave a challenge password and an optional company name blank.

```
What you are about to enter is what is called a Distinguished
Name or a DN.
There are quite a few fields but you can leave some blank
For some fields there will be a default value.
If you enter '.', the field will be left blank.
Country Name (2 letter code) [XX]:MY
State or Province Name (full name) []: Kuala Lumpur
Locality Name (eq, city) [Default City]: 50600
Organization Name (eq, company) [Default Company Ltd]: XYZ Sdn.
Bhd.
Organizational Unit Name (eq. section) []: PayNet FPX
Common Name (eq, your name or your server's hostname) []:
EX00000298
Email Address []: johdoeagmail.com
Please enter the following 'extra' attributes
to be sent with your certificate request
A challenge password []:
An optional company name [ ]:
```

Sample of Private Key

#### --BEGIN PRIVATE KEY--

MIIEVAIBADANBqkqhkiG9w0BAQEFAASCBKqwqqSKAqEAAoIBAQDQnJqYYBVNBEAJ MI3jfTmo7PHTjw7nguc0Y1sQJpGCWYvorv4nNtfWgUrag5Y69nT131pMrXWak9tA uuwrzTDeyeE0seHaNkjaCRuLA1SpnySTBKLQ4JbMiq0qsolvHBj4eItUqLqP8Vqb ma17zTeBsCLdW7teulzrhPqqNxKMLBQswOnisDunxBpVRRmdoYAhF6AFdIL+XOKO t5GYENOPFrfoPQNPqV+rTD8D6TT1801XhRICwKWBZCJCqGFNKYAao8B5I/sqKajE ju4H1KnPdky5tnaEXoiBLtQxrJJUWLP+usZ0m+EHppGArGNgW0BXP67c/W8a6rMr 4hbH+ZABAqMBAAECqqEALBYRUZqjpm/Rmd/cqPqfayqXUCb1/dprzcoQmm+tYSTS QteOAnjEVy3hGDAKSj+HJHYAOaqMLa2KNTvRaMmwxctmhZ//pAbkkl/CpTiFFIEE WNooG4CCHCpMw1Q+N/p3BUNoIuw9huaARFrQplcUn6XBGZGmIZfBIKQYQuKjteDR BJCewIdh9fxRfkaa6vMdxbUK0hzwWYChwQmR/ugARKXDm1119QRTUG9Z4VpjvHNM mI7X+ntwQTyc3KXqSedD5h80D/tDyQA16cbbX12EHY00A/zWBXXPUG/VlbMXiLjU hrhvlnEmoiugfEyfKowgAIlg77d0rK0crv02M5BHSQKBgQDcku16UrsHJCY2ZKym AKALQXtn8w15RvZojHK2Hj+pUcHU9TUADrguztem2LcuPdWSJo+CvmgCTc46fJNJ Z4fiFv80UwbnfNlB5T6NjCugotHwm23yyvv0m5pYVnPc5Pt/+IRz/MiugyrY/zsT 7U5q6h2QNH1peMGEE4qzvUqt9QKBqQDyHdddXRSZrzVEu1Hcw5PWeFSLAToaVeyj ax34pSLB4yB9/qts0rn4t0/wH+KE3Vzv40q/xW/pjZIGMYlrsUZThzm00Qn64ZfN SY6SsBQ2/OeLUXAe5IFCQrFNKjujoWHvRfHtsvFcu+UKuQ+Ph4gKFwzPwgXL/rcI OqBOsmtrzwKBqB8FZvK6KeWSNVGVbRaX4GvO1KdE7pMs4MDJZ+SnEmr8vZb2uXJ9 n3q900R9PB6LxbqdQ7eukqoraSKenJRJRD004+nG64So8WESHYUIvqdr6Ly/D1KD K7Dd/3IHDpp1dc2EpRQu7AZnGiKUmrltuYadaHSUFULVIdoyaQhlyX31AOGBAKTV KTHD4XW0QqB4IK44WWY/+KGRrWqlYpqMr5UjwaK90/Q4bMYMY3410p+EqQXj2pza 5LwUnuFGFNRVSJ0hXZwnQVGGG7tZ1NTXKBXLd2niLUXeC3gwB91AptG/VSHPHW0n q+B+hufFClmnkD8hf84H18VsEhDeiwdCo+7bYIXHAOGBANTUbrrSHszHu98TNQI2 hdfqe5b20Y650YV0zfGeBZZKGH88nsokEdnU02qxz1nPyc8twqast6xEqsmKtZFH B2nqtbf6y0q703uPFx63XDNiZ17zm7XZj6ZiDQGZqcqPqVQDc9MDMhHaiXcXbDl+ PyVhyMjcLV9kmpmhMaNz/LGK

----END PRIVATE KEY----

### • Sample of CSR File

-BEGIN CERTIFICATE REQUEST-

MIIDKJCCAHICAQAwqbQxCzAJBqNVBAYTAK1ZMRUWEWYDVQQIDAXLdWFsYSBMdW1w dXIXGTAXBqNVBACMEFcuUCBLdWFsYSBMdW1wdXIXFTATBqNVBAoMDELwb20qU2Ru IEJIZDEYMBYGA1UECwwPQ2VudCBNYW5hZ2VtZW50MRwwGqYDVQQDDBNERVZQT1JU QUwUUEFZTKVULK1ZMSQwIqYJKoZIhvcNAQKBFhVmYW16Lmhhc251bEBwYX1uZXQu bXkwqqEiMAOGCSqGSIb3DQEBAQUAA4IBDWAwqqEKAoIBAQDQnJqyYBVNBeAJMI3i fTmo7PHTjw7nqyc0Y1sQJpGCWYvorv4nNtfWqUraq5Y69nTl31pMrXWak9tAuuwr ZTDeyeEoseHaNkjaCRuLA1SpnySTBKLQ4JbMiq0qsolvHBj4eItUqLqP8Vqbma17 zTeBsCLdW7teulzrhPqqNxkMLBQswonisDunxBpVRRmdoYAhF6AFdIL+xoK0t5G ENOPFrfoPQNPqV+rTD8D6TTi801XhRICwKWBZCJCqGfNKYAao8B51/sqKajEju4H 1KnPdky5tnaEXoiBLtQxrJJUWLp+usZOm+EHppGArGNqW0BXP67c/W8a6rMr4hbH +ZABAqMBAAGqMDATBqkqhkiG9w0BCQIXBqwESXBvajAZBqkqhkiG9w0BCQCXDAWK MjEwNDkwVyFzZTANBqkqhkiG9w0BAQsFAAOCAQEADWT3wdhXxlapEjGcMqPiCsN9 7Du6AwHeUwVDkYwvFJGY0CPmZPIuk10cX4It1Y+DnJfm5AKIN834RZ90SUL2pSe+ OdeTwNbZzxxfNYUG4FisrInoInRRbSgTSXHz9TMeWYSRywTjEwOmAj/Fk9uwMW5Q 8xw09t0n/d08NTNUeggaHcwnbRJqUYMNhL60MQhUK0Y5mplkx+gheNcaT8Gj9h9Y vY7B7jub5gggGAhWBVt5UtUnz6x8D7606sAgh9LJdYkBUpm+FQopc40H8jEHTAOB CLC02dJLGto6CS5xs1vu4rDmo3xgJKvm6jZaSr8h/+14og8u/hn8n5pnB4VvMw== -END CERTIFICATE REQUEST-