

Guide Certifikats- administration

Swish Certificate Management

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2015-11-06	0.9.8		Version 0.9.8
2015-12-10	0.9.8.1	CS	Changed name to Guide Certifikatsadministration Updated introduction. Changed headings, numbering and order.

1. Swish Certificate Management

1.1. Background

In order to integrate a merchant commerce solution with Swish API the merchant needs to get a client TLS certificate from Swish Certificate Management and install it on their server. The certificate will be used for client authentication of TLS communication with Swish API.

The Swish server is set up with a TLS server certificate, which needs to be verified when initiating TLS from a merchant web server to Swish.

More information about Swish certificate handling is available in the **Guide Swish API**.

1.2. Certificate Administration

Persons who are authorised by a merchant as Certificate Point of Contacts (CPOC) can administer a merchant's certificates by logging in to the Swish Certificate Management which is available at <https://getswishcert.bankgirot.se/>.

The following functions are provided:

- Log-in and Log-out
- List all certificates that the CPOC is authorised to administer
- Download the certificate chain for the Swish-server TLS certificate that is used for authentication of the Swish server.
- Download previously issued client certificates for the Merchant
- Ordering a new certificate for the Merchant
- Revoke certificates for the Merchant

2. Functions

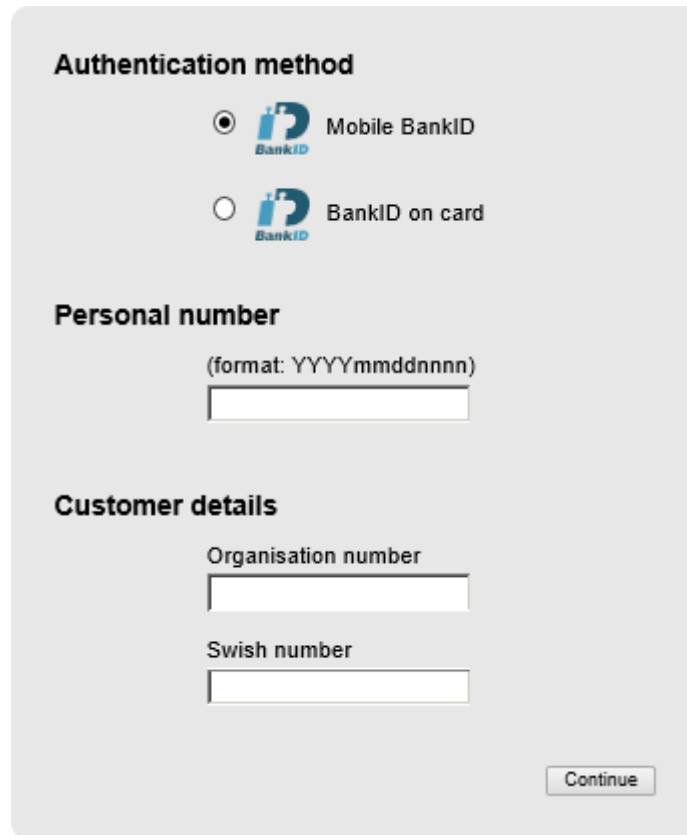
2.1. Log in

A person that has been registered by a merchant's bank to represent the merchant can log in to Swish Certificate Management by providing organisation number and the Swish number that is to be administered.

If the person uses a BxID or BgID it is the person's identity number instead of the personal number that is provided.

A person can authenticate his or her identity using Mobile BankID or BankID on card (or BxID/BgID on card).

If the person uses Mobile BankID he or she will also have to provide his or her Personal number.



The form is titled "Authentication method" and contains two radio button options: "Mobile BankID" (selected) and "BankID on card". Below this is a section titled "Personal number" with a text input field and a format hint "(format: YYYYmmddnnnn)". Underneath is a section titled "Customer details" with two text input fields: "Organisation number" and "Swish number". A "Continue" button is located at the bottom right of the form.

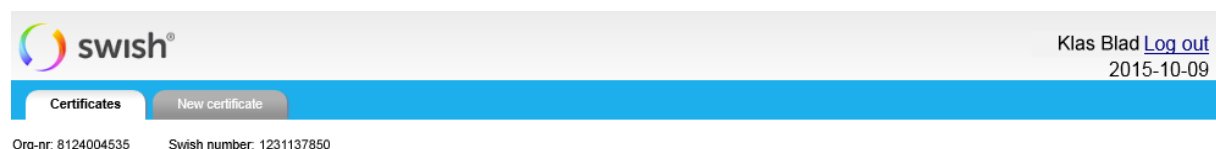
Only the certificates related to one specific Swish number can be administered at a time. If a person represents more than one merchant, or if one merchant has more than one Swish number, and the person needs to administer the certificates related to another Swish number, the person has to log out and log in again by providing the new information.

2.2. General functionality

The name of the person that is logged in and the date is displayed at the top right corner of the page.

The merchant's organisation number and the Swish number that is administered are displayed under the top menu at all times.

Through tabs on the top menu the person can choose to display a list of certificates issued for the merchant and the Swish number that is administered, or to request a new certificate.



2.3. List all Certificates








A list of certificates issued for the merchant and the Swish number that is administered is displayed by default when logging in.

Above the list is a link through which it is possible to download the certificate chain for the Swish server TLS certificate.

Certificate list

[Download Swish server TLS certificate](#)

Issued (GMT)	Valid through (GMT)	Issuer	Requested by	Status	Download	Revoke
2015-09-09 22:00:00	2017-09-09 21:59:59	BGABSESS	197908089274	VALID	Download	
2015-09-01 22:00:00	2017-09-01 21:59:59	BGABSESS	197908089274	VALID	Download	
2015-08-12 22:00:00	2017-08-12 21:59:59	BGABSESS	198001139297	VALID	Download	
2015-08-12 22:00:00	2017-08-12 21:59:59	BGABSESS	196705053723	VALID	Download	
2015-08-11 22:00:00	2017-08-11 21:59:59	BGABSESS	196705053723	REVOKED	Download	

The list of certificates contains the following information:

Column	Description
Issued (GMT)	The date and time when the certificate was issued.
Valid through (GMT)	The date and time when the certificate expires.
Issuer	The BIC of the bank that issued the certificate.
Requested by	The person number (or identity number) of the person that requested the certificate.
Status	The status of the certificate. The status can be either "Valid", "Expired", or "Revoked".
Download	Link through which it is possible to download the certificate.
Revoke	Link through which it is possible to revoke a certificate.

2.4. Download Swish Server TLS Certificate

In order to download the certificate chain for the Swish server TLS certificate copy the text in the text area and save it to a file. The text represents the certificate chain of the Swish server TLS certificate, i.e. the Swish Root CA certificate and the Intermediate CA certificate in PEM format.

Download certificate

Swish server TLS certificate

To download, copy to clipboard:

(Format: PEM)

```
-----BEGIN CERTIFICATE-----
MIIFrjCCBA5agAwIBAgIIEhclBF0nNX3UwDQYJKoZIhvcNAQENBQAwHwEUMBIGA1UE
CgwLR2V0c3dpce2ggQUlXhjaAcBgNVBAsMFVN3aXNoIE1lbWJlcjBCYW5rcyBDQTEj
MCEGA1UEAwwaVGVzdCBTd21saCB3b290IENBIHYxIFRlc3QwHhcNMjUwNTI1MTM1
NDU5WhcNMzUxMjM1NDU5WjBbMRQwEgYDVQQKDAthZXRkd21saCB3b290IENBIHYx
A1UECwwvVU3dpce2ggTUVtImVyeIEJhbmtzIENEMSMwIQYDVQQDDBpUZXN0IFN3aXNo
IFJvb3Q0EgdjEgVGVzdDCCAIwDQYJKoZIhvcNAQENBQADggIPADCCAggCggIB
AL1H8AjTaFkVCF2nxIJJwT17CE+9eKGHhmXx75/sKwThCTtJx20x2tKC50onQ24d
3x2Tfy1g1ojMyAT1bFcEC50uCGe2IuMGVgtQs9b2ZHL72uOfCbrZoOHWkeZsv60d
QQ9AapKK/Dx5J0nybqFCxg6EtfCvUP9eY/ViAs/RuIvvy1GfPwqresEq+S2mJQWqA
u06h+1IFv3WuLk11Zak58AKeVgsGT93+tkpQUHHOD1M6t5xBUtObKRx0q4x0EX5D
ofuTdhFw6HQqQRWAMI7ikL65XkR9Ce29FidJBqTGVemeVqaLjwB6CIZTj0b4VhS
JcQOnEfS0qVygNk1Kb2YBU70/krbg4S9A/26MwArWJeOtyQW39CGxVcX/w+OvP8
E1qOTM2GV2UX4WtcrPPN6C1GFpKDSW/tt1+LCtJUaR0WygU8jSadwC/MXds1k0Gj
9Y9a/U5RE76VzWdMtIlzZLFi9DP5aSiisbrg/fkMbaw763t6DDvnaTi4N/it1bF
E31y0aJa1ltegh5WWGt+HHDWoZydHOasBk28Rq5HV6Xr7mvRBm34y8Py8M+oITV
KYogpLkCR9TAb1PTa+Bf/NRJWEMaMKiWMB/E+978aBGwBLE9f5LPAW3YxegiZUC
cHGcROM50A5zIpAxpEKsjV0mXpSKf5R0no+T5DcHHWG3AgMBAAGjdjBOMBGA1Ud
DgQWBBCQZaH13VskneJrYkTGk97a6S/OGjAPBgNVHRMBAf8EBTADAQH/MB8GA1Ud
IwQYMBaAFBZ1oEXdWysd4mtiRMAIT3trpL/QaMBEGA1UdIAQKMAgwBgYEKqMEBTAC
BgNVHQ8BAf8EBAMCAQYwDQYJKoZIhvcNAQENBQADggIBA8H/NnOCXk+QRieltgEKR
YyNp/iw/npIn98GuhdSr6dyppMDOvMxpH9Pvqr+Izn7pnW7WnEUM3gaupJMimUWBS
-----
```

On the merchant web server, choose to trust Swish Root CA (o=Getswish AB, ou=Swish Member CA, cn=Swish Root CA v1). For details on how to perform this consult the web solution documentation or the web solution supplier.

2.5. Download Client Certificate

It is possible to download all certificates that have been issued for the merchant and the Swish number that is administered.

If a certificate has expired or has been revoked an information message is displayed if a person tries to download it.

In order to download a certificate, copy the text in the text area and save it to a file on the merchant web server. The text represents the certificate together with the certificate chain, i.e. the Swish Root CA certificate and two intermediate bank CA certificates, in either PEM or PKCS#7 format.

Download certificate

Issued (GMT): 2015-09-09 22:00:00

Valid through (GMT): 2017-09-09 21:59:59

Issuer: BGABSESS

Requested by: 197908089274

Status: VALID

To download, copy to clipboard:

(Format: PKCS #7)

```
-----BEGIN CERTIFICATE-----
MIIXxQYJKoZIhvcNAQcCoIIKtjCCF7ICAQExDjAMBggqhkiG9w0CBQUAMCIGCSqGSIb3E
QEHAaAV
BBNpbmRlbnRpb25hbGx5IGVtcHR5oIIV9zCCBJQWggJ8oAMCAQICCDI+/H7TTDV7MA0GC
SgGSIB3
DQEBcUAMHYxCzAJBgNVBAYTA1NFMR4wHAYDVQQKDBVOb3JkZWEgQmFuayBBQjAocHVi
CkxEsAR
BgNVBAUTCjEzMTEuMTEuMTEuMjAwBgNVBAMMFVRlc3QgTm9yZGVhIEN1c3RvbWVyeIENBI
HYxIGZv
ciBTd21zCBUzKN0MB4XDTE1MDkwOTIyMDAwMFOXDTE3MDkwOTIzNTk1OVowNzELMAkG
1UEBhMC
U0UxEzARBgNVBAoMCjU1ODg4OTc5ODIxExARBgNVBAMMCjE5MzQ3NjAwNDcwggEiMA0GC
SgGSIB3
DQEBAAQAB4IBDwAwggEKAAoIRAQDAHn55uHoaoD7zEooE0AbD+6yGr0G0VNdqWUAQAjCMA
WE09u1E
xMBLt0d21BEFGZ21h6c67M1ELxQGEV+IL62Z/fuY12w8zViI21jzLcPuuz5obEwBzI2h3
hbq7QA
kHc01JN4sMFI7SZXzKcp+LyQBf1jzXNyMFyYX/3sD9ehdjw2IJoIU3oJV4SEt3j2c7uE
H566dg4
2ICHkGozsdS45UWfnmUcSJQFPQRiw1Dq+JjpsLq/gyR2u2DEqGq1IWhv5m6823RC/VOR
4dW33yF
14PyKudqQRENJ0WwFvxyrRcRsgBhid5UEKkU9E94zHrCj977Q1QujGJDXo3nGj99AgMBA
```

2.6. Order a new Certificate

In order to request a new certificate, paste the text content of a Certificate Signing Request (CSR), (PKCS#10 with 2048-bit RSA key), in the text area. Then choose the desired format of the certificate, i.e. PEM or PKCS#7, and the BIC of the bank that should issue the certificate, and click the “Generate” button.

New certificate

Paste CSR (PKCS #10 with 2048-bit RSA key):

Certificate format:

PKCS #7 PEM

BIC:

In order to download the generated certificate, copy the text in the text area and save it to a file. The text represents the certificate together with the certificate chain, i.e. the Swish Root CA certificate and two intermediate bank CA certificates, in either PEM or PKCS#7 format.

2.7. Revoke Certificate

Before a certificate is revoked a warning is displayed together with information about the certificate, and the person has to confirm that the certificate should be revoked.

Revoking a certificate is irreversible and will lead to discontinuation of the Swish service for the merchant if that specific certificate is being used.

Revoke certificate

Warning!

You are about to revoke the following certificate:

Organisation number: 8124004535

Swish number: 1231137850

Issued (GMT): 2015-09-01 22:00:00

Valid through (GMT): 2017-09-01 21:59:59

Issuer: BGABSESS

Requested by: 197908089274

Status: VALID

Revoking a certificate is irreversible and will lead to discontinuation of the Swish service for the merchant.

Revoke

2.8. Logout

A person can log out by clicking on the “Log out” link at the top right corner of the page.

If a person is inactive for a more than 15 minutes he or she will be logged out automatically.