

Swish Certificate Management

Guide

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1. Introduction

1.1 Background

By enrolling to the Swish Commerce service at the merchant's bank and getting access to the Swish API, merchants can handle payments in e-commerce and m-commerce scenarios in a way which is very convenient and familiar to millions of Swedish consumers. A merchant can either integrate to this solution directly, or by using a Technical Supplier (referred to as **TS** in this document) who does the integration.

When a merchant is enrolled by their bank, they will get a Swish Alias that is prefixed with 123. If a TS is enrolled by Getswish, they will get a Swish Alias that is prefixed with 987.

In order to integrate a merchant commerce solution with the Swish Commerce API, the merchant or the TS needs to obtain 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 the Swish Commerce API.

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

Merchants using Swish Payout service are required to sign the payout instruction sent to Swish system. In order to create this signature, the merchant needs to issue another certificate dedicated for signing purposes. There is no technical difference between a TLS and a signing certificate. The important thing is that the payout merchant should obtain two different certificates and use one of them for TLS communication and the other one for signing purposes. The process of issuing these certificates are described in the following sections.

More information about Swish certificate handling is available in the **Swish Merchant Integration Guide** and the **Technical Supplier Guide Swish API**.

1.2 Certificate Administration

A person that is authorized by a merchant/TS as Certificate Point of Contacts (CPOC) can administrate a merchant's/TS's certificates by logging in to Swish Certificate Management, which is available at <https://portal.swish.nu/>

The following functionality is provided:

- Log in and log out
- Ordering a new certificate for the Merchant/TS
- List all certificates that the CPOC is authorized 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/TS
- Revoke certificates for the Merchant/TS

2. Swish Certificate Management

2.1 Log in

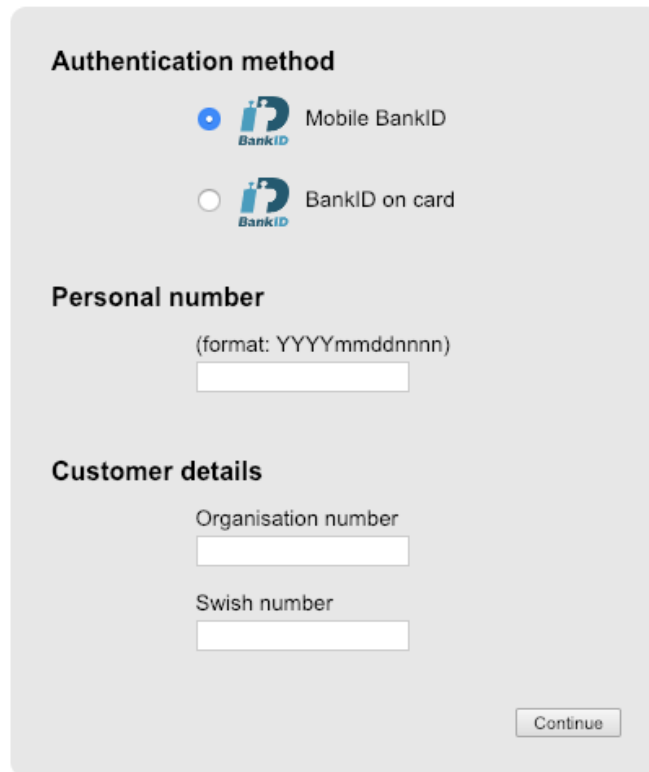
A person that has been registered by a merchant's bank to represent the merchant can log in to Swish Certificate Management by providing the organization number and the Swish number that is to be administered. For TS, the person has to be registered by Getswish.

If the person uses a BxID, it's the person's identity number that should be provided instead of the personal number.

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

If the person uses Mobile BankID he or she will also have to provide his or her Personal number. Only the certificates related to one specific Swish number can be administered at a time.

If a person represents more than one merchant/TS, or if one merchant/TS has more than one Swish number, and the person needs to administer the certificates related to another Swish number, the person must log out and log in again by providing the new information.



The form is titled "Authentication method" and contains three sections:

- Authentication method:** Two radio button options. The first is "Mobile BankID" with a selected radio button and the BankID logo. The second is "BankID on card" with an unselected radio button and the BankID logo.
- Personal number:** A text input field with the label "Personal number" and a format hint "(format: YYYYmddnnnn)".
- Customer details:** Two text input fields. The first is labeled "Organisation number" and the second is labeled "Swish number".

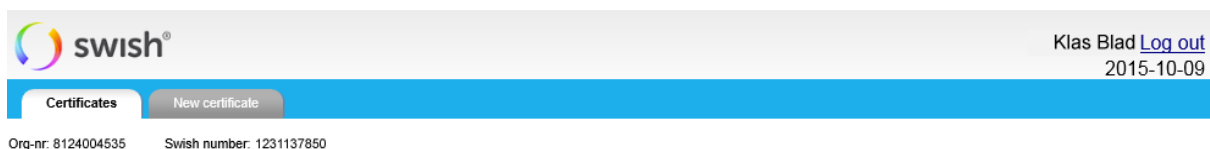
A "Continue" button is located at the bottom right of the form.

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/TS's organization number and the Swish number that is administered are always displayed under the top menu.

Through tabs in the top menu the person can choose to display a list of certificates issued for the merchant/TS 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/TS 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 personal 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.

2.5 Download the 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-----
MIIFrjCCAsAgAwIBAgIIHc1BF0nNX3UwDQYJKoZIhvcNAQENBQAwWzEUMBIGA1UE
CgwLR2V0e3dpc2ggQUlxHjAcBgNVBAsMFVt3aXNoIE1lbWJlciBjYXN0e3dpc2gg
MCEGA1UEAwwaVGVzdCBTd21zaCB3b290IENBIHYxIFRlczQwHhcMMTUwNTI1MTM1
NDU5WmcNMzUxMjM1NDU5WjBbMRQwEgYDVQKDAthZXRsd21zaCB3b290IENBIHYx
IUECwwVU3dpc2ggTWVtYmVyeUEJbmtzIEEMEMwIQYDVQQDBpU2XNoIEFNSaXNo
IFJvb3QgQ0EgdjEgVGVzdDCCAI1wDQYJKoZIhvcNAQEBBQADggIPADCCAgwCggIB
AL1HSAjTAFkVCF2nxIJJvt17CP+9eKGHhmXx75/sKkThCTtJx20x2tKC5OonQ24d
3x2Tfy1g1ojMyAT1bFeEC50uCGe2IuMGVgtQs9bZzHL72uOfCbRZoOHwkeZsv60d
QQ9AsPKX/Dr5J0nybqFCxg6EtfCvUP9eY/ViAs/RuIvvy1GfPwqresEq+32mJQWqA
u06h+1IFv3WuLk11Zak58AKsVgsGI93+tkpQUHHOD1M6t5xBUtObKRx0q4x0EX5D
ofuTdhFww6HQqQRWRMI7ikL65KkR9Cz29FidJbqTGVemeVqaLjwB6CI2Tj0b4VhS
JCGOnEfs0qVygNklKb2YBU70/krbg489A/26MwArWJeOtyQWS9CGxVcX/w+OvP8
E1gOTM2GV2UX4WtcrPPN6C1GFpKD9W/tt1+LCtJUAa0WYgU8jSadwC/MKd81k0qj
9Y9a/Us8RE76VwFdMtIlzZLFi9DP5aSiSbrg/fkMbaw763t6DDvnaTi4N/it1bE
E31y0aJallteqh5WFGt+HHDWoZydHOasBk28RqSHV6Xr7mvREm34y8Pp8M+o+I7V
KYogpLXcR9TaAb1PTa+Bf/NAJWEMaMxiWMB/E+978aBGwBLE9fSLPAN3YxegiZUC
cHGcROM50A5=IpaXpEKsjV0mXpSKf5R0no+T5DcHHWG3AgMBAAQgdjBOMB0GA1Ud
DgQWBQBQZaH13VskneJrYkTGk97a68/0GjAPBgNVHRMBAf8EBTADAQH/MB8GA1Ud
IwQYMBaAFBZ1oFXdWYs84mtiRMAIT3trpL/QaMBEGA1UdIAQKMAgwBgYEKGMETAC
BgNVHQ8BAfEBAMCRQYwDQYJKoZIhvcNAQENBQADggIBAH/NnOCXk+QRic1tgEKK
vYyNp/lw/npIn98GuhdSr6dypMDOyMxpH9Pvqz+Izn7pnW7WnEUM3qaupJMimUWB5
```

On the merchant/TS 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.

2.6 Download Client Certificate

It is possible to download all certificates that have been issued for the merchant/TS 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.

2.7 Revoke Certificate

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

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

Revoke certificate

Warning!

You are about to revoke the following certificate:

Organisation number: 5510071250

Swish number: 1234567889

Issued (GMT): 2018-04-26 17:41:50

Valid through (GMT): 2020-04-26 17:41:50

Issuer: SWEDSESS

Requested by: 198812311234

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.