

INSTALLATION GUIDE

BP SERVICE CONNECTOR

BP Code 8.2.1

Buypass OPEN

Version: 1.4 Document date: 19.11.2019

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History of change

Version	Date	Status	Description/Change
1.0	25.02.2014	First version	First version
1.1	13.03.2014	Updated	Added upgrade information
1.2	25.09.2014	Updated	Updated with new config path and log messages
1.3	04.10.2017	Updated	Updated weblinks, New SC 8.2.1 release
1.4	19.11.2019	Updated	Updated supported OS systems

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Overview

Buypass Code Service Connector (SC) is the physical access point to the Buypass Code solution for merchants. The SC uses a regular SSL certificate issued by Buypass to perform point-to-point encryption when communicating with Buypass Code Servers located centrally at Buypass.

A unique signing certificate is used to identify a SC. The signing certificate is generated by Buypass and should be used on all SC's so that all requests are signed.

The SC is a light weight access point for Radius traffic, and mostly routes the traffic to Buypass Code Servers for further processing. It also handles directory lookup using instructions based on configurations that the merchant enters into Buypass Code Manager.

SC supports the following authentication protocols: PAP, CHAP, MSCHAPv2.

1.1 Technical requirements

1.1.1 Software requirements

- Windows 2012 (R2) / Windows 2016 / Windows 2019
- Active internet connection

1.1.2 Hardware requirements

- CPU Pentium class processor 1 GHz or faster
- HD 200Mb of available hard disk space
- RAM 2GB of available ram

1.1.3 Network connectivity

- Buypass SC needs read access to your Directory Server via LDAP. Service account credentials are entered in Buypass Code Manager.
- Buypass SC needs to communicate with Buypass Code Servers via https (port 443).
- The access point/Radius client needs to communicate with the SC via Radius (default port 1812).

Installation and configuration

There are three phases for installation/configuration of the SC. Radius and LDAP configurations have to be established in Buypass Code Manager. The point of access (RAS, NAS, VPN etc.) has to be configured to use the SC. And finally the SC has to be installed and configured.

2.1 Buypass Code Manager

2.1.1 LDAP configuration

The LDAP configuration is used to lookup user information using a Directory Service via LDAP, e.g. Active Directory (AD) from Microsoft. The Directory Service should contain mobile numbers and/or App-ID for users.

11/	///			Buypass Code Ma
S buypass				
<u>Audit log</u> Audit log Administration Users Manabast	LDAP settings The settings below will be used I to Buypass Code.	by Buypass to determine w	/hat users in your organizations	user database that have access
Administrator	URI	Username	Phone.no. attribute	APP ID attribute
Configuration	Idap://192.168.1.21 Priority LDAP path	bpcodeuser	mobile	
Radius	1 basedn[OU=Bruke	re,DC=lab,DC=buypass,D	C=no(*)],filter[samAccountNan	ne=#USER#] x remove
	New path	Edit Del	ete	
aged on:				

For more information about LDAP configuration, see https://buypassdev.atlassian.net/wiki/spaces/BpCodeEN/pages/120094775/LDAP+HTTP+look+up

2.1.2 Radius configuration

The Radius configurations define which access points/Radius clients are allowed to send requests to the SC.

-11/-		Buypass Code Manager
C buypass		
Overview and warnings Audit log Administration Users Merchant Administrator Configuration LDAP Radius	RADIUS settings The information below is used to define what services are allowed to query Buypass Code Radius server. IP address NAS identifier # 192-168.1.1 Checkpoint PW1 New configuration	NAS IP
Logged on: Test Brukere		
[Logout]		
or more information	about Radius configuration, see	
ttps://buypassdev.a	tiassian.net/wiki/spaces/bpcodeEN/pages/14090432/Radius+clie	ents

2.2 Point of access/Radius client

The local point of access/Radius client has to be configured to communicate with the SC via Radius. The IP-address has to point to the SC and the PSK (pre-shared key) has to be the same as the one in the Radius configuration in Buypass Code Manager.

Name:	BP_Code-RADIUS-GW
Comment:	BP Code RADIUS GW
Color:	
Host:	BP-RADIUS-G 👻 New
Service:	UDP NEW-RADIUS -
Shared Secret:	•••••
Version:	RADIUS Ver. 2.0 Compatible
Protocol:	PAP 🔻
Priority:	1 🚔 (1 is highest)

For more information about integrating Buypass Code with other products, see Integration Guides at https://buypassdev.atlassian.net/wiki/spaces/BpCodeEN/pages/72084580/Installation+Guides

2.3 Installation of Buypass Code Service Connector

A Service Connector install wizard can be downloaded from Buypass Ekstranett. Please make sure you have access to the signing certificate sent by e-mail and the certificate password sent by SMS from number 1960. Also make sure you have admin access.

2.3.1 Installation guide

1. Start the install wizard and press "Next".

buypass-	installasjonsveiviseren for Buypass Code Service Connector Nå vi Installasjonsveiviseren installere Buypass Code Service Connector på din datamaskin. Trykk Neste for å fortsette eller Avbryt for å avslutte Installasjonsveiviseren.
----------	--

 Find the signing certificate and enter the certificate password. Press "Next" and then "Install". The necessary files will be installed in C:\bps\ and a service named "bpcode-sc" will be installed.

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Buypass Code Service Connector Installasjon		
Certificate File : C:\Users\oot\\Desktop\merchant_cert.p12 Bla gjennom	Messages 19-60	🕘 50% 💶
Password :	14 Jun 2012 11:23	
Advanced Installer		

3. Check the "Start service" checkbox and press "Finish".



4. Verify that the SC has started by opening C:\bps\log\trace\sc_trace_TIMESTAMP.log and check that the last rows look like the following:

```
1: 2014.02.25 12:57:28,151 Starting SC Resources ...
1: 2014.02.25 12:57:28,151 Starting SC Encryption Manager
1: 2014.02.25 12:57:28,382 SC Encryption Manager started (cryptographic configuration OK)
1: 2014.02.25 12:57:28,382 Starting SC Communication Manager
1: 2014.02.25 12:57:28,810 SC authenticated and security context established
1: 2014.02.25 12:57:28,811 SC Communication Manager started
1: 2014.02.25 12:57:28,811 SC Communication Manager started
1: 2014.02.25 12:57:28,811 Starting SC Radius Proxy Manager
1: 2014.02.25 12:57:28,811 SC Radius Proxy Manager started
1: 2014.02.25 12:57:28,811 SC User Resolver Manager started
1: 2014.02.25 12:57:28,811 All SC Resources started successfully
1: 2014.02.25 12:57:28,811 Starting SC servers
1: 2014.02.25 12:57:28,811 Starting SC authentication server on UDP port: 1812
1: 2014.02.25 12:57:28,818 SC authentication server was successfully started
1: 2014.02.25 12:57:28,818 All SC servers started
```

 You can also try to authenticate and verify that it is logged in C:\bps\log\trace\sc_trace_TIMESTAMP.log.

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2.3.2 Upgrading guide

This section describes how to upgrade from an earlier version of the Service Connector.

1. Start the install wizard and press "Next.

👘 Installasjon av Buypass Code Se	ervice Connector
9	Velkommen til installasjonsveiviseren for Buypass Code Service Connector
buypass [.]	Nå vil installasjonsveiviseren installere Buypass Code Service Connector på din datamaskin. Trykk Neste for å fortsette eller Avbryt for å avslutte installasjonsveiviseren.
	< Tilbake Neste > Avbryt

2. The install wizard will automatically find your certificates and config, press "Install".

Klar for installering	starte Buynass Code Service
Connector installasjon	buypass
trykk Installere for a starte installasjonen. trykk Tilbake. Trykk Avbryt for å avslutte i	Hvis du ønsker a ga gjennom noen av dine vaig nstallasjonsveiviseren.

3. The upgrade is finished. Check the "Start service" box and press "Finish" to start the service.

buy pass [.]	Fullfører installasjonsveiviseren for Buypass Code Service Connector
	Trykk Fullfør-knappen for å avslutte installasjonsveiviseren.
	✓ Starte tjenesten
-	< Tilbake Fulfar

Buypass AS

4. Verify that the SC has started by opening C:\bps\log\trace\sc_trace_TIMESTAMP.log and check that the last rows look like the following:

```
1: 2014.02.25 12:57:28,151 Starting SC Resources ...
1: 2014.02.25 12:57:28,151 Starting SC Encryption Manager
1: 2014.02.25 12:57:28,382 SC Encryption Manager started (cryptographic configuration OK)
1: 2014.02.25 12:57:28,382 Starting SC Communication Manager
1: 2014.02.25 12:57:28,810 SC authenticated and security context established
1: 2014.02.25 12:57:28,811 SC Communication Manager started
1: 2014.02.25 12:57:28,811 Starting SC Radius Proxy Manager
1: 2014.02.25 12:57:28,811 SC Radius Proxy Manager
1: 2014.02.25 12:57:28,811 SC Radius Proxy Manager started
1: 2014.02.25 12:57:28,811 SC User Resolver Manager started
1: 2014.02.25 12:57:28,811 All SC Resources started successfully
1: 2014.02.25 12:57:28,811 Starting SC servers
1: 2014.02.25 12:57:28,812 Starting SC authentication server on UDP port: 1812
1: 2014.02.25 12:57:28,818 SC authentication server was successfully started
1: 2014.02.25 12:57:28,818 All SC servers was successfully started
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1: 2014.02.25 12:57:28,818 All SC servers was successfully started
```

 You can also try to authenticate and verify that it is logged in C:\bps\log\trace\sc_trace_TIMESTAMP.log.

2.3.3 Configuration parameters

If you wish to modify the default SC configurations this is done in

C:\bps\config\properties\cnl\bpc\sc\scconfig-local.properties. The "bpcode-sc" service has to be restarted before new configurations become active.

Parameter and default value	Description			
Log paramater				
cfg.gen.general.logger_type=1	Specifies what logger type to use			
	0 - void logger			
	2 - file logger, specified by file_log_dir			
cfg.gen.general.file_log_dir=/bps/log/	Specify log path for log, only used if logger_type is 2			
cfg.gen.general.tracer_type=1	Specifies what tracer type to use			
	1 - console tracer (stdout/stderr)			
	2 - file tracer, path specified by file_trace_dir			
cfg.gen.general.trace_level=8	Trace lever for the server, primary used for			
	8 - maximum trace			
cfg.gen.general.file_trace_dir=/bps/log/trace/	Specify log path for trace, only used if tracer_type is 2			
cfg.gen.general.print_properties=true	Specifies if configurations should be written to trace on start up of Service Connector.			
Networking configuration				
cfg.gen.io.client_socket_read_wait=30000	Specifies socket timeout for read operations against Buypass Code Server – in milliseconds			
cfg.gen.io.max_raw_message_bytesize=2097152	Maximum packet size between the SC and the Buypass Code Server server (in bytes)			
cnl.bpc.sc.rasurl=https://ras.buypass.no/ras2/	Specifies the Buypass Code Server (RAS) URL			
cnl.bpc.sc.auth_port=1812	Specifies the Radius Authentication port			
cfg.gen.io.bind_ip=	Can be used on a multi-homed host for only accepting connect requests to one of its addresses. If not set, it will default accepting connections on any/all local addresses			

cnl.bpc.sc.proxy.url=	An optional parameter defining the HTTP proxy to use. If no port is present the default port is 8080. E.g. (http://proxy.hostname:8080)	
Start up		
cnl.bpc.sc.halt_on_startup_remote_initialization_e rror=true	Specifies if SC should stop if it can't contact the Buypass Code Server	
Radius duplicate handling		
cnl.bpc.sc.duplicate_window_time=30000	Duplicate package handle timeout in milliseconds	
cnl.bpc.sc.duplicate_window_size=5000	Duplicate package handle max cache size	
Key and certificate configuration		
cnl.bpc.sc.keystore.path= /bps/tools/jarsigning/512keystore	Specifies the physical path to the signing certificate used by the service connector. This file authenticates this instance of the service connector	
cnl.bpc.sc.keystore.alias=AUTO	Specifies the key file alias. If the key file contains only one entry, please set this value to AUTO. If the key file contains more than one entry, the correct alias must be specified	
cnl.bpc.sc.keystore.type=AUTO	Specifies key file type JKS - Java Key Store PKCS12 - PKCS12 key file AUTO - auto detect key file type based on file extension (PKCS12 files has .p12 extensions, JKS has no extension)	
cnl.bpc.sc.keystore.password=test123	Specifies the signing certificate password	
cnl.bpc.sc.encryption_certificate.path= /bps/tools/jarsigning/512.crt	Physical path to encryption certificate used to encrypt kommunication between the SC and Buypass Code Server	
cnl.bpc.sc.node_id=0	Specify when you use more than one Service Connector per Service Connector certificate to guarantee unique ID per SC	

2.3.4 Server logging

All trace log files can be found in C:\bps\log\trace\ All access log files can be found in C:\bps\log\access\ Error log files can be found in C:\bps\log\error\ or C:\bps\bpcode-sc\winservice\log\

2.3.4.1 Configuration parameters for log rotation

The SC can rotate/archive log files based on time and/or size. The table shows configuration parameters and examples of different configurations. Choose one for each type of log and put it in C:\bps\release\[version]\config\properties\cnl\bpc\sc\scconfig-local.properties.

Parameters and example configurations	Description	
Trace log		
cfg.gen.general.tracer_type=6	Specifies type of log rotation	

	6 = Time based (or time and size based) 7 = Size based
cfg.gen.general.tracer_history=3	Specifies the number of archive files to store
cfg.gen.general.tracer_rollover_pattern=hourly	Specifies how often rotation should happen minutely = Every minute hourly = Every hour daily = Every day weekly = Every week monthly = Every month
cfg.gen.general.tracer_max_size=5mb	Specifies maximum size of active file before rotation happens. Size in km, mb or gb
Example of configurations for trace log	
Time dependent	
cfg.gen.general.tracer_type=6 cfg.gen.general.tracer_history=3 cfg.gen.general.tracer_rollover_pattern=hourly	Rotates every hour with maximum 3 archive files
Size dependent	
cfg.gen.general.tracer_type=7 cfg.gen.general.tracer_history=10 cfg.gen.general.tracer_max_size=5mb	Rotates when active file is 5mb with maximum 10 archive files
Time dependent with size limit	
cfg.gen.general.tracer_type=6 cfg.gen.general.tracer_history=3 cfg.gen.general.tracer_rollover_pattern=hourly cfg.gen.general.tracer_max_size=5mb	Rotates every hour or when active file is 5mb with maximum 4 archive files
Access log	

cfg.gen.general.access_logger_type=6	Specifies type of log rotation 6 = Time based (or time and size based) 7 = Size based
cfg.gen.general.access_history=3	Specifies the number of archive files to store
cfg.gen.general.access_rollover_pattern=hourly	Specifies how often rotation should happen minutely = Every minute hourly = Every hour daily = Every day weekly = Every week monthly = Every month
cfg.gen.general.access_max_size=5mb	Specifies maximum size of active file before rotation happens. Size in km, mb or gb
Example of configurations for access log	
Time dependent	
cfg.gen.general.access_logger_type=6 cfg.gen.general.access_history=3 cfg.gen.general.access_rollover_pattern=hourly	Rotates every hour with maximum 3 archive files
Size dependent	
cfg.gen.general.access_logger_type=7 cfg.gen.general.access_history=10 cfg.gen.general.access_max_size =5mb	Rotates when active file is 5mb with maximum 10 archive files
Time dependent with size limit	
cfg.gen.general.access_logger_type=6 cfg.gen.general.access_history=3 cfg.gen.general.access_rollover_pattern=hourly cfg.gen.general.access_max_size =5mb	Rotates every hour or when active file is 5mb with maximum 4 archive files
Erro	r log
cfg.gen.general.logger_type=6	Specifies type of log rotation 6 = Time based (or time and size based) 7 = Size based
cfg.gen.general.logger_history=3	Specifies the number of archive files to store

cfg.gen.general.logger_rollover_pattern=hourly	Specifies how often rotation should
	happen minutely = Every minute hourly = Every hour daily = Every day weekly = Every week monthly = Every month
cfg.gen.general.logger_max_size=5mb	Specifies maximum size of active file before rotation happens. Size in km, mb or gb

Example of configurations for error log

Time dependent	
cfg.gen.general.logger_type=6 cfg.gen.general.logger_history=3 cfg.gen.general.logger_rollover_pattern=hourly	Rotates every hour with maximum 3 archive files
Size dependent	
cfg.gen.general.logger_type=7 cfg.gen.general.logger_history=10 cfg.gen.general.logger_max_size=5mb	Rotates when active file is 5mb with maximum 10 archive files
Time dependent with size limit	
cfg.gen.general.logger_type=6 cfg.gen.general.logger_history=3 cfg.gen.general.logger_rollover_pattern=hourly cfg.gen.general.logger_max_size=5mb	Rotates every hour or when active file is 5mb with maximum 4 archive files

2.3.5 Troubleshooting

If the installation fails for some reason, start by looking for error messages in the log files C:\bps\log\trace\

C:\bps\log\error\

C:\bps\bpcode-sc\winservice\log\

The following are examples of error messages, what they mean and how to solve the error.

2.3.5.1 Wrong password

gen.util.bpc.error.BpcException: Failed to load keyfile /bps/tools/jarsigning/oottgateway.p12

- at cnl.bpc.common.adapter.DataEncryptionServiceFactory.loadPrivateKeyCertificate(DataEncryptionServiceFactory.java:127)
- at cnl.bpc.common.adapter.DataEncryptionServiceFactory.createDataEncryptionService(DataEncryptionServiceFactory.java:67)
- at cnl.bpc.sc.server.handler.ScEncryptionManager.doStart(ScEncryptionManager.java:52) at cnl.bpc.sc.server.handler.ServiceManager.awaitRunning(ServiceManager.java:25)
- at cnl.bpc.sc.server.handler.ScResourceManager.startResources(ScResourceManager.java:27) at cnl.bpc.sc.server.handler.ScResourceManager.startResources(ScResourceManager.java:27)
- at cnl.bpc.sc.server.socket.ScServer.startup(ScServer.java:36)
- at cnl.bpc.sc.server.socket.ScServer.main(ScServer.java:55)

Caused by: gen.util.bpc.error.BpcException: Failed to load keyfile /bps/tools/jarsigning/oottgateway.p12

- at cnl.bpc.common.adapter.DataEncryptionServiceFactory.loadKeyStore(DataEncryptionServiceFactory.java:142)
- at cnl.bpc.common.adapter.DataEncryptionServiceFactory.loadPrivateKeyCertificate(DataEncryptionServiceFactory.java:124)
 ... 6 more

Caused by: java.io.IOException: failed to decrypt safe contents entry: javax.crypto.BadPaddingException: Given final block not properly padded at sun.security.pkcs12.PKCS12KeyStore.engineLoad(PKCS12KeyStore.java:1304)

- at java.security.KeyStore.load(KeyStore.java:1214)
- at cnl.bpc.common.adapter.DataEncryptionServiceFactory.loadKeyStore(DataEncryptionServiceFactory.java:137)

... 7 more Caused by: javax.crypto.BadPaddingException: Given final block not properly padded

- at com.sun.crypto.provider.CipherCore.doFinal(CipherCore.java:811)
- at com.sun.crypto.provider.CipherCore.doFinal(CipherCore.java:676)

at com.sun.crypto.provider.PKCS12PBECipherCore.implDoFinal(PKCS12PBECipherCore.java:355)

- at com.sun.crypto.provider.PKCS12PBECipherCore\$PBEWithSHA1AndRC2_40.engineDoFinal(PKCS12PBECipherCore.java:462)
- at javax.crypto.Cipher.doFinal(Cipher.java:2087)
- at sun.security.pkcs12.PKCS12KeyStore.engineLoad(PKCS12KeyStore.java:1295)
- ... 9 more

Above error means that the signing certificate password is wrong. Verify that the password sent to you by SMS is the same as the password found in

C:\bps\config\properties\cnl\bpc\sc\scconfiglocal.properties for attribute cnl.bpc.sc.keystore.password. Note that 0 (zero) and O as well as I (upper case i) and I (lower case L) can easily be mixed.

2.3.5.2 Unable to load certificate

gen.util.bpc.error.BpcException: Failed to load keyfile /bps/tools/jarsigning/oottgateway.pl2 at cnl.bpc.common.adapter.DataEncryptionServiceFactory.loadPrivateKeyCertificate(DataEncryptionServiceFactory.java:127) at cnl.bpc.common.adapter.DataEncryptionServiceFactory.createDataEncryptionService(DataEncryptionServiceFactory.java:67) at cnl.bpc.sc.server.handler.ScEncryptionManager.doStart(ScEncryptionManager.java:52) at cnl.bpc.sc.server.handler.ServiceManager.awaitRunning(ServiceManager.java:25) at cnl.bpc.sc.server.handler.ScResourceManager.startResources(ScResourceManager.java:27) at cnl.bpc.sc.server.socket.ScServer.startup(ScServer.java:36) at cnl.bpc.sc.server.socket.ScServer.main(ScServer.java:55) Caused by: gen.util.bpc.error.BpcException: Key file /bps/tools/jarsigning/oottgateway.pl2 not found at cnl.bpc.common.adapter.DataEncryptionServiceFactory.loadKeyStore(DataEncryptionServiceFactory.java:140) at cnl.bpc.common.adapter.DataEncryptionServiceFactory.loadPrivateKeyCertificate(DataEncryptionServiceFactory.java:124) .. 6 more Caused by: java.io.FileNotFoundException: \bps\tools\jarsigning\oottgateway.p12 (The system cannot find the file specified) at java.io.FileInputStream.open(Native Method) at java.io.FileInputStream.<init>(FileInputStream.java:138) at java.io.FileInputStream.<init>(FileInputStream.java:97) at cnl.bpc.common.adapter.DataEncryptionServiceFactory.loadKeyStore(DataEncryptionServiceFactory.java:135) ... 7 more

Above error means that the signing certificate can't be loaded by the SC. Verify that the signing certificate that was sent by mail is located in C:\bps\tools\jarsigning\ and that the cnl.bpc.sc.keystore.path attribute in CC:\bps\config\properties\cnl\bpc\sc\scconfig-local.properties points to the certificate.

2.3.5.3 <u>Port in use</u>

ERROR:
2014.02.25 12:41:37,155 Unable to start SC authentication server at port 1812
Address already in use: Cannot bind
java.net.BindException: Address already in use: Cannot bind
at java.net.DualStackPlainDatagramSocketImpl.socketBind(Native Method)
at java.net.DualStackPlainDatagramSocketImpl.bind0(DualStackPlainDatagramSocketImpl.java:81)
at java.net.AbstractPlainDatagramSocketImpl.bind(AbstractPlainDatagramSocketImpl.java:95)
at java.net.DatagramSocket.bind(DatagramSocket.java:376)
at java.net.DatagramSocket. <init>(DatagramSocket.java:231)</init>
at java.net.DatagramSocket. <init>(DatagramSocket.java:284)</init>
at gen.io.server.socket.ServerSocketAcceptor.startServer(ServerSocketAcceptor.java:133)
at gen.io.server.socket.ServerSocketAcceptor.startUdpServer(ServerSocketAcceptor.java:111)
at gen.io.server.socket.SocketServer.startUdpServer(SocketServer.java:70)
at gen.io.server.socket.SocketServer.startUdpServer(SocketServer.java:58)
at cnl.bpc.sc.server.socket.ScServer.startAuthenticationServer(ScServer.java:77)
at cnl.bpc.sc.server.socket.ScServer.startServers(ScServer.java:86)
at cnl.bpc.sc.server.socket.ScServer.startup(ScServer.java:37)
at cnl.bpc.sc.server.socket.ScServer.main(ScServer.java:55)

Above error means that the port that the SC is trying to use for Radius communication is already in use by another application. Close the application that is using the port or set another port that the SC can use for Radius communication by specifying it for attribute cnl.bpc.sc.auth_port in C:\bps\config\properties\cnl\bpc\sc\scconfig-local.properties (requires version 7.26.X.X).