

# PPPoE Passthrough

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<b>Dokument-ID</b>	PPPoE Passthrough
<b>Version</b>	2.0
<b>Status</b>	Final Version
<b>Date of publication</b>	09.2020



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# PPPoE Passthrough

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## 1.1 Need

You would like to forward Internet traffic and your static public IP addresses for your Business Internet connection to a private router or security gateway (equivalent to bridge mode for Business Internet light).

## 1.2 Description

If PPP Passthrough is enabled on your Centro Business router, all Internet traffic, including the fixed public IP addresses of your Business Internet connection, is forwarded from the Centro Business router to a private device (router or security gateway). The PPPoE access data is entered manually into this device and the PPPoE session is launched from your private gateway.

The private device (router or security gateway) must always be connected to LAN Port 1 on the Centro Business router.

You can only use LAN Ports 2-4 and the WLAN for devices with Swisscom services such as Business Telephony and TV, but not the Internet. For LAN IP address distribution for devices with Swisscom services, see the instructions on “DHCP settings in a LAN”.

The Centro Business router portal is accessible via LAN Ports 2-4 or the WLAN.

## 1.3 Requirements/Limitations

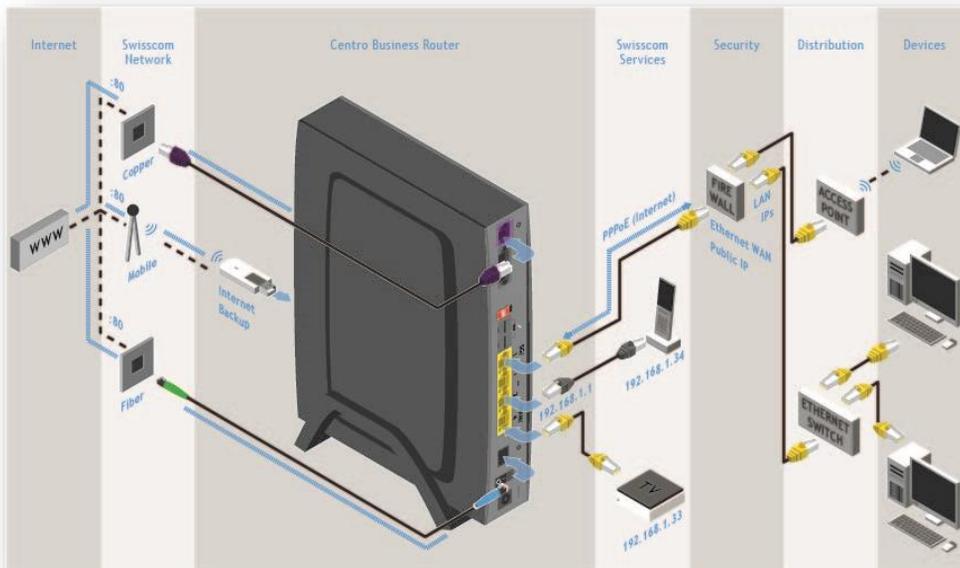
### Requirements:

- Swisscom Contract: My SME Office, Business Internet Services, Enterprise Connect XS, Business Internet Light
- Centro Business 2.0 with current firmware version. You can find the firmware on the official Centro Business help page under [Update Firmware](#)
- Access to the router portal is established

### Limitations:

- Internet Backup no longer works
- The Centro Business router is no longer accessible through the Customer Centre via remote management
- No Internet connection for devices that have the Centro Business as a gateway
- A guest WLAN on the Centro Business router can be activated with an enabled PPP Passthrough, but an Internet connection is no longer possible
- The integrated firewall of the Centro Business router cannot be used for the Internet connection
- If you have activated PPPoE Passthrough, the settings Public DMZ, Connectivity to internet and Public IP Pool as DHCP Pool cannot be configured
- TV 2.0 apps in the TV menu such as games and YouTube cannot be used
- TV 2.0 help videos cannot be played
- TV 2.0 additional packages such as language packages or Teleclub cannot be subscribed to via the TV. They can only be activated via the Customer Centre
- Radio via TV 2.0 cannot be used

## 1.4 Illustration\*



## 1.5 Activating PPPoE Passthrough in the Centro Business

Go to **Network > Passthrough** and select “Enabled” in the **PPPoE passthrough** field. Finish by clicking on **Save**.



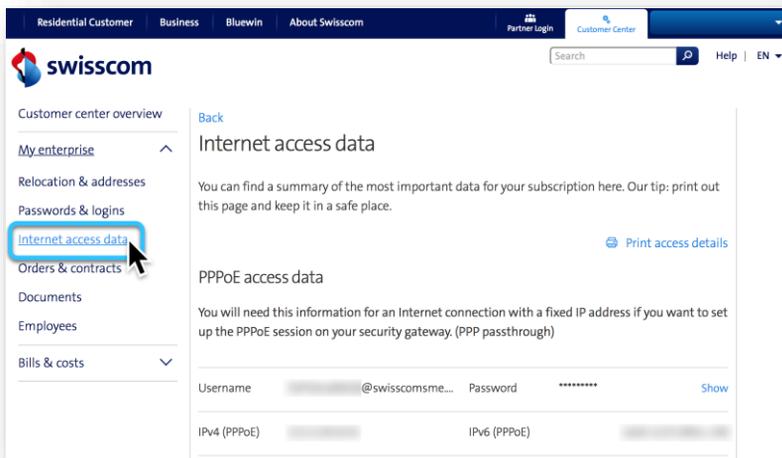
\* The illustration is identical for both Centro Business 1.0 and Centro Business 2.0.

## 1.6 Obtaining PPPoE session access data

You can find the username and password for the PPPoE session in the Customer Centre, under My enterprise > Internet access data > PPPoE access data. This function is only recommended for “expert users” and has various negative limitations.

### Note for existing installations:

If a customer changes from a Business Internet Light (BIL) to an inOne SME or Business Internet Service with fix-IP (All IP) and uses the PPPoE Passthrough function on Centro Business 2.0, the PPP user name always changes from [xxx@swisscomdata.ch](mailto:xxx@swisscomdata.ch) to [xxx@swisscomsme.ch](mailto:xxx@swisscomsme.ch). This must be done on the device that terminates the PPP session (e.g. firewall) within 60 days after migration!



## 1.7 Display of IP address distribution with enabled local security gateway

If you have enabled the local security gateway function on your Centro Business router, the public IP addresses are no longer visible in the Overview menu under Internet.

Internet	
<b>Internet Access</b>	
Internet connection	OK <span style="color: green;">✔</span>
WAN access	VDSL2
Connectivity Type	DHCP and PPPoE
Connectivity Mode	Dualsession Business Internet
DNS Server	195.186.1.162
	195.186.4.162
IP address in Internet	213.200.223.129
IP address Swisscom Services	100.94.126.134
IPv6 Prefix	2a02:121f:11::/64
DynDNS	Disabled

Internet	
<b>Internet Access</b>	
Internet connection	OK <span style="color: green;">✔</span>
WAN access	VDSL2
Connectivity Type	DHCP
Connectivity Mode	Dualsession Business Internet
DNS Server	195.186.1.162
	195.186.4.162
IP address Swisscom Services	100.94.124.151
DynDNS	Disabled

## 1.8 MTU Size mit PPPoE Passthrough

MTU Size	Description
<b>1508 Bytes</b>	The Swisscom network and Centro Business support jumbo frames up to 1508 bytes. This ensures that the user data (1500 bytes) and the PPP header (8 bytes) can be transmitted in one packet. If your private router or security gateway supports these jumbo frames, you must set the MTU Size of the WAN Ethernet interface to 1508 bytes. This prevents fragmentation of the packets, which can lead to a loss of performance.