

# Carrier Line Service

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**Content**

<b>1</b>	<b>Introduction</b>	.....	<b>3</b>
<b>2</b>	<b>Service overview</b>	.....	<b>3</b>
<b>3</b>	<b>Service Levels</b>	.....	<b>4</b>
3.1	Overview	.....	4
3.2	Carrier Line Service Basic and Premium Silver	.....	4
3.3	Carrier Line Service Premium Platinum	.....	5
<b>4</b>	<b>Technical specifications</b>	.....	<b>6</b>
4.1	Available transmission capacities and interfaces	.....	6
4.2	Customer Premise Equipment	.....	6
<b>5</b>	<b>Options</b>	.....	<b>6</b>
5.1	Function test with report	.....	6
5.2	Fulfillment outside standard working hours	.....	7
5.3	Express Orders	.....	7

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## 1 Introduction

1. This service description describes the services offered by Swisscom in conjunction with the Carrier Line Service (CLS) and Carrier Line Service FMG (hereinafter referred to both CLS).
2. All Carrier Line Services with Ethernet interfaces are certified and compliant to the MEF 9 and MEF 14 standards of the Metro Ethernet Forum (MEF).
3. Where not otherwise mentioned below, responsible for the processes between Swisscom and the FDA are stated in the list of contact points and declarations of intent made by electronic means (e.g. e-mail, fax, Web Tool / electronic interfaces, etc.).

## 2 Service overview

1. The Carrier Line Service is a leased line with various bandwidth and interfaces. With CLS, Swisscom offers other providers of telecommunication services (PTS) transparent point-to-point connections with symmetrical, pre-agreed bandwidth.
2. The basic properties of a CLS are the transmission capacity between the two endpoints and the service quality (service level). The service level determines the availability and guarantee levels for the service, as well as the degree of redundancy and fault rectification intervention times.
3. The Service Access Points (SAP) are located at the Customer Premise Equipments (CPE) interface at each of the endpoints. The responsibility of Swisscom for the operation of the CLS ends at the SAP, where it transfers to the PTS.
4. CLS is generally implemented as follows:
  - Access: Connection between the Swisscom point of presence (PoP) and the PTS's SAP
  - Backbone: Connection between the two Swisscom PoPs
  - End-to-end Circuit: Connection between the PTS's two SAPs

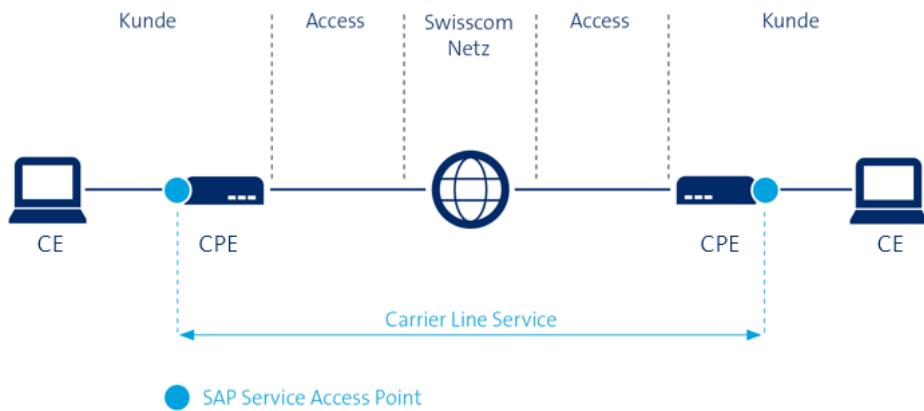


Figure 1: Graphical representation of a Carrier Line Service

5. CLS is realized using access media fibre optics.
6. Carrier Line Service Basic and Premium are available throughout Switzerland.

### 3 Service Levels

#### 3.1 Overview

1. In order to meet many different needs in terms of availability and redundancy, etc., Swisscom offers CLS with the corresponding service levels Basic, Premium Silver and Premium Platinum.
2. The service level is agreed for each individual service.
3. The availability will depend on the chosen service level. Availability indicates how long the individual service remains in fault-free operation over the course of a year, in terms of total running time.
4. An overview of the differences between the Basic and Premium services can be found in Table 1.

Parameter	CLS Basic	CLS Premium
End-to-end availability	Typical value, not guaranteed $\geq 99.90\%$	Guaranteed value Silver: $\geq 99.95\%$ Platinum: $\geq 99.99\%$
Recovery time	Typical value, not guaranteed $\leq 6$ hour	Guaranteed value Silver: $\leq 4$ hour Platinum: $\leq 2$ hour
Redundancy	None	Silver: None Platinum: Diversified redundant access
Fault rectification	24 hours / 365 days <sup>1</sup>	24 hours / 365 days
Service monitoring	Reactive	Proactive

Table 1: Service Level Agreements offered for CLS Basic and Premium

#### 3.2 Carrier Line Service Basic and Premium Silver

1. CLS Basic is the standard product offered by Swisscom. The service is reactively monitored and has no redundancy in the access and along the backbone.
2. CLS Premium Silver is a proactively monitored service. In order to implement CLS as a Premium Silver service, a monitored CPE is required at both endpoint sites. Usually, Premium Silver services are protected by automatic rerouting in the backbone. The access is not protected, however.

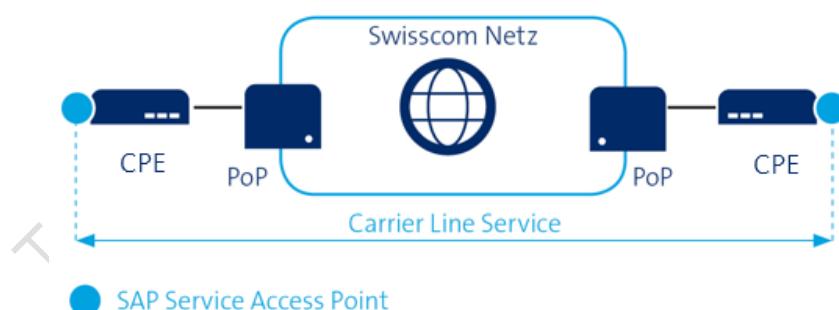


Figure 2: Graphical representation of a Carrier Line Service Basic / Premium Silver

<sup>1</sup> Dependent on local factors and Swisscom staffing capacities. Preferential treatment is given to Premium services.

### 3.3 Carrier Line Service Premium Platinum

1. CLS Premium Platinum is a proactively monitored service. In order to implement CLS as a Premium Platinum service, monitored CPE are required at the endpoint sites.
2. Thanks to the diversified redundant access, CLS Premium Platinum has SAP-to-SAP protection. The service comprises two completely diverse lines (connections) and has no single point of failure, neither in the backbone nor in the access. Each access uses a separate cable (cabling ducts). There are two Swisscom CPEs at both the starting and end points of the line.

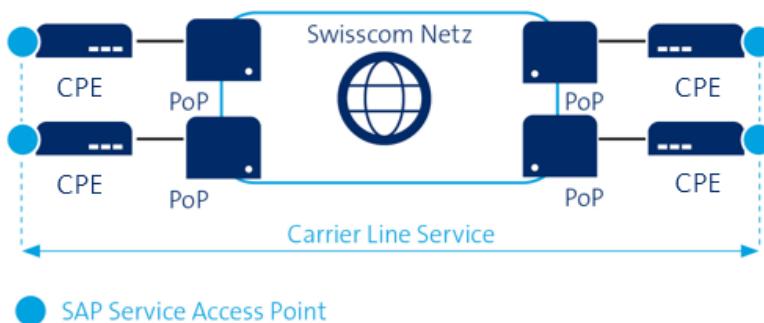


Figure 3: Graphical representation of a Carrier Line Service Premium Platinum

3. In operational terms, the PTS is permitted to use both lines of the Premium Platinum service. It should be noted that Swisscom merely ensures the capacity of one line.
4. If a fault is caused due to the use of the secondary connection, the PTS is responsible for rerouting the connection.
5. A CLS Premium Platinum access is only considered to be not available if both lines fail simultaneously.
6. In the case of planned maintenance work, it is ensured that at least one of the two lines will always be in operation.

#### 3.3.1 Premium Platinum Light

1. An alternative variant (Premium Platinum Light) provides a solution in which the access lines are not routed on separate cables. There is therefore a single point of failure in the access.
2. There are specific SLA conditions for the Premium Platinum Light service.



Figure 4: Graphical representation of a Carrier Line Service Premium Platinum Light

## 4 Technical specifications

### 4.1 Available transmission capacities and interfaces

- CLS is available with the transmission capacities and interfaces listed below in Table 2. The availability of the interfaces will be announced after the feasibility clarification or when the order is placed.

Net bandwidth [Gbit/s]	Gross bandwidth [Gbit/s]	Interface
1	1.25	1G Ethernet
10	10.312	10G Ethernet
100	103.125	100G Ethernet
400	425.000	400G Ethernet
6.4	8.5	Fibre Channel 800
12.8	14.025	Fibre Channel 1600
25.6	28.05	Fibre Channel 3200

Table 2: Available transmission capacities and interfaces for CLS

### 4.2 Customer Premise Equipment

- Swisscom will provide the appropriate CPE type for the selected service level and number of interfaces required.
- The PTS undertakes to leave the CPE at the site at which they were installed. Any moving of CPE to another location shall require the prior written consent of Swisscom. No modifications may be made to the CPE. Repairs, maintenance or any other intervention on the CPE must be performed by an authorized representative of Swisscom. The PTS ensures that only qualified personnel have access to the CPE.

## 5 Options

### 5.1 Function test with report

#### 1. New lines

If the PTS requires a report on the function test (15 minutes or 24 hours) for the corresponding new Carrier Line Service, this must be specified in the order.

#### Lines in service

Swisscom will test lines in service for 15 minutes or 24 hours at the PTS's written request. These function tests are only carried out during standard working hours.

## 5.2 Fulfillment outside standard working hours

- At the PTS's request, Swisscom will arrange installation or modification of services in Customer Windows outside standard working hours.

## 5.3 Express Orders

- If the necessary resources are in place, the PTS may place an express order for CLS 1Gbit/s and 10Gbit/s for the service level Basic and Premium Silver.

Prerequisites in customer access	Service level	Express target lead times
Cable and equipment available	Basic, Premium Silver	5-9 working days <sup>2</sup>

Table 3: CLS expedited provisioning

<sup>2</sup> Depending on local factors and personnel capacities of Swisscom.