Printcode-API documentation

GetQRCodeImage and GetQRCode a QR-code solution for the transport product option:

DB SCHENKER*parcel retur via ombud* with option: QR code return on demand API

Schenker AB, Sweden, specification version 1.1.0

GET – print-code/v1

Table of content - Printcode-API documentation

1   General information

This document describes the Printcode-API for GetQRCodeImage and GetQRCode used for the Swedish transport product:

- DB SCHENKER*parcel retur via ombud* with the option QR code return on demand API

The Printcode-API is a QR-code solution, to use after transport order for DB SCHENKER*parcel retur via ombud* with option QR code return on demand API is transferred to DB Schenker TMS, for customers or system developer to download and share shipment Print code image via e.g. their own GUI, Mail or SMS solution to e.g. a return consumer.

GetQRCodeImage:

Example, Print code image: Description of image file:

QR-code

Print code number, as backup

Datamatrix-code, as backup

The Print code image is shown at the DB Schenker collection point which allow the collection point to scan the barcode and print the label for the transferred transport order.

GetQRCode:

Example, Print code number: Description:
50917223   Print code number, as backup

The Print code number from GetQRCode is only to be used together with the Print code image, from GetQRCodeImage. in customer or system developers GUI, Mail or SMS solution as backup if problem for consumer to show the Print code image at the collection point.

NOTES
The Printcode-API require that transport order first is transferred with option QR code return on demand API to DB Schenker TMS to generate the Print code image/number.

After transport order for DB SCHENKER*parcel retur via ombud with option QR code return on demand API is transferred to DB Schenker the Print code image*

and number is available via the Printcode-API and valid to use at collection point within 60 days.

1.1 Transport product information

DB SCHENKER*parcel retur via ombud sp*ecifications of e.g. max number of packages, size, weight, volume and available options, see latest product information via www.schenker.se/products and Transport Terms and Conditions and via: www.schenker.se/transportvillkor or contact agi@dbschenker.com

NOTE
For technical specifications for order the transport instruction for the product DB SCHENKERparcel retur via ombud and option QR code return on demand API, see separate specification.

1.1.1 Process example shipment with option QR-code and Printcode-API

1 Create and transfer shipment according to DB SCHENKERparcel via ombud with option QR code return on demand API to DB Schenker TMS

   NOTE
   Transfer time to DB Schenker TMS is normally within ca. 2 minutes, can be longer based on the communication setup in your transport order solution.
   Recommended to send separate files on each shipment to minimize transfer time.

2 Download the Print code image, using GetQRCodeImage, according to the Printcode-API specification. Optional: To use GetQRCode and also share the Print code number separately.

3 Share the Print code image to the return contact person via e.g. customer or system provider GUI, Mail, SMS or other solution

4 Return contact person shows the Print code image to the DB Schenker collection point

5 The collection point scans the Print code to print the label for transferred shipment at the collection point

6 The label is applied by the return contact person on the correct physical package and package is hand over to the collection point

7 The collection point scans the label on the package and receive the package at the collection point, to be forwarded in DB Schenker network to receiver.Package/Shipment is now shown in public tracking and Tracking-API

8 Receipt that the shipment has been handed over to the DB Schenker collection point is sent to return contact person via DB Schenker mail or sms, based on Consignors contact details in transport order

1.2 F.A.Q.

1.2.1 Label – Do I need to create and share a label to consignor/return contact?

1.2.1.1 Answer: No, not required.
Optional to share your label if you want to offer the return contact person to choose between using the Print code image at collection point or Print your shared label themselves

1.2.2 Can I develop a solution only based on the GetQRCode solution?

1.2.2.1 Answer: No, support for the Print code image via GetQRCodeImage is required. The Print code number via GetQRCode is only a backup solution.

1.2.3 Can I use Package-ID (18 characters) to GetQRCodeImage and GetQRCode?

Answer: No, the Printcode-API only supports Shipment-ID (10 characters).

1.3 Getting started

The webservice is located at the following URL:
https://parcelservices-se.dbschenker.com/Apipartner/Help

Authorizations information details for request:
https://parcelservices-se.dbschenker.com/Apipartner/Help/GeneralInfo

1.4 Help and examples

https://parcelservices-se.dbschenker.com/Apipartner/Help/ExamplePage

1.5 Authentication

Request API key for access to the Printcode-API via:
https://forms.office.com/e/NbMeZaDm4c

Access requires e-mail address to enable communication of future updates and modifications.

NOTE

- *API credentials assigned to system providers with a central SAAS solution use the assigned API credentials for <u>all</u> customers in the same system solution.*

Authentication API-access alternative:
In API-request choose authentication solution in header based on below alternative.

Alternative 1:
Use basic authentication in header according to below:

Json/XML Header:	Value:	Username:	Apikey	Example:
Authorization	Basic MDA3Om15YXBpa2V5	Your ID	Your secret API-key	"007:myapikey" -> base64encoded -> "MDA3Om15YXBpa2V5" Send as header "Authorization" with value "Basic " + base64encoded string.

Alternative 2:
Use API credentials (User ID and Key) in request as calculated hash according to information in 1.3 Getting Started

API credentials assigned to system providers with a central SAAS solution use the assigned API credentials for all customers in the same system solution.

1.6 Requirements for Print code solution

Share the downloaded print code image without changes. Add support for the print code number if needed.

To use a DB Schenker logotype in e.g. GUI, Mail etc. link to logotype according to: www.schenker.se/checkout

1.7 Tracking – HTML-link and API solution

To create HTML-link to a Shipment-/Package-ID in our Tracking, or to integrate the Tracking-API: www.schenker.se/api

NOTE
DB SCHENKER*parcel retur via ombud shipments is shown in public Tracking and Tracking-API first after consumer has hand over the physical package to the collection point.*

2 Method – GetQRCodeImage

2.1 Information - GetQRCodeImage

The Printcode-API solution GetQRCodeImage returns a print code image file based on Shipment-ID and image format in request.

NOTE

Important information about GetQRCodeImage in 1. General information

2.2 Request Element - GetQRCodeImage

Json/XML:	Description:	Element:	Example:
shipmentNumber	Shipment-ID, 10-digit number (No support for Package-ID)	Mandatory	1026441012
Imageformat	Default is "svg", other see below	Optional	Png
useBackground	Use "true" to return white background or "false" to return transparent background	Mandatory	true

Easy to use as ex. img-src or background-image on element
Ex. set img src to "data:image/svg+xml;base64," + [Svg response from endpoint]
If png, a bytestream is returned

2.3 Endpoint links - GetQRCodeImage

Test Endpoint API page:

https://staging-parcelservices-se.dbschenker.com/Apipartner/Help/Api/GET-print-code-v1-image shipmentNumber imageformat

Test Endpoint Post link:

https://staging-parcelservices-se.dbschenker.com/Apipartner/print-code/v1/image?shipmentNumber=&imageformat=

Production Endpoint API page:

https://parcelservices-se.dbschenker.com/Apipartner/Help/Api/GET-print-code-v1-image shipmentNumber imageformat

Production Endpoint Post Link:

https://parcelservices-se.dbschenker.com/Apipartner/print-code/v1/image?shipmentNumber=&imageformat=

2.4 Error handling

According to error information and handling on:

https://parcelservices-se.dbschenker.com/Apipartner/Help/Api/GET-print-code-v1-image_shipmentNumber_imageformat

3   Method – GetQRCode

3.1   Information - GetQRCode

The Printcode-API solution GetQRCode returns the print code number based on Shipment-ID in request, only to be used together with Method GetQRCodeImage.

NOTE
Important information about GetQRCode in 1. General information

3.2   Request Element - GetQRCode

Json/XML:	Description:	Element:	Example:
shipmentNumber	Shipment-ID, 10-digit number (No support for Package-ID)	Mandatory	1026441012

3.3   Endpoint links - GetQRCode

Test Endpoint API page:
https://staging-parcelservices-se.dbschenker.com/Apipartner/Help/Api/GET-print-code-v1_shipmentNumber

Test Endpoint Post link:
https://staging-parcelservices-se.dbschenker.com/Apipartner/print-code/v1?shipmentNumber=

Production Endpoint API page:
https://parcelservices-se.dbschenker.com/Apipartner/Help/Api/GET-print-code-v1_shipmentNumber

Production Endpoint Post Link:
https://parcelservices-se.dbschenker.com/Apipartner/print-code/v1?shipmentNumber=

3.4   Error handling

According to error information and handling on:
https://parcelservices-se.dbschenker.com/Apipartner/Help/Api/GET-print-code-v1_shipmentNumber

4   Support

Support questions related to the API solution and documentation:
agi@dbschenker.com

5   Revision notes

Changes in this document:

Version:	Notes:	Date:
1.0.0	Document created	2023-06-12
1.0.1	Add access request link in "1.5 Authentication". Minor changes in "1.1.1 Process example shipment with option QR-code and Printcode-API" Update of the option name QR code return on demand API	2023-10-06
1.1.0	Update in "1.2 F.A.Q." with new question: 1.2.3 Can I use Package-ID (18 characters) to GetQRCodeImage and GetQRCode? Update in "1.5 Authentication": Add information with new authentication API-access alternative, to simplify access Update in "2.2 Request Element – GetQRCodeImage": Add information about Element "useBackground"	2024-07-09