

# Digital Delivery Note Cloud4Log





# STATUS QUO


# In the digital age of EDI, AI, blockchain and other technologies...

... almost all deliveries to retail companies in Germany are accompanied by a paper delivery note

- In the food retail sector, that's about 20 million delivery notes per year.
- With multiple copies, that's at least 180 million sheets of paper.
- Or to make it clearer, 1,500 trees 40cm thick and 25m high.

CEREAL PARTNER DEUTSCHLAND  
400551500008

Nestlé Deutschland AG  
Customer-/Delivery Service



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CEREAL PARTNER DEUTSCHLAND  
DE 60523 Frankfurt

Lieferanschrift:  
EDEKA Südbayern Handels  
Stiftung & Co.KG  
Zentrallager Südbayern  
Ingolstädter Str. 120  
DE 85080  
Gaimersheim

Lieferschein Seite 1

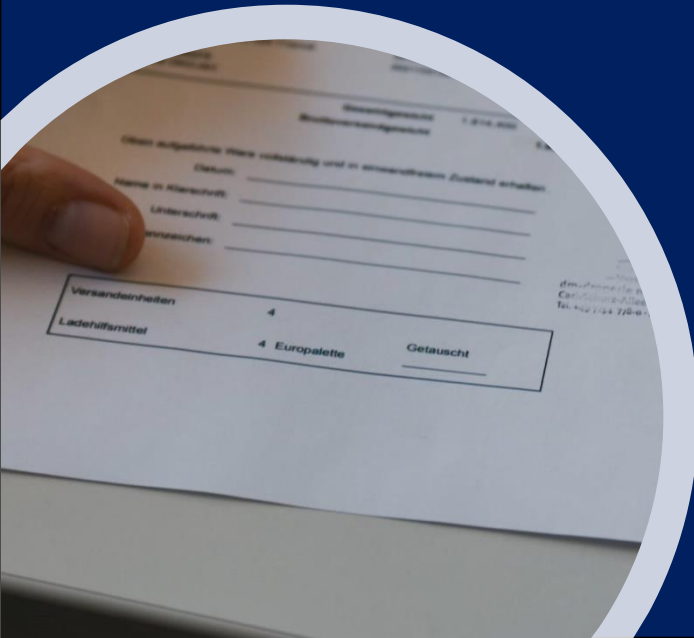
Bei Rückfragen bitte angeben		
Kunden-Nr. 0000522546	SAP-Liefernr. 0833260639	Liefertermin 08.07.2019
ILN-Kunden-Nr. 4314214990016	SAP-Auftragsnr. 0339993119	Incoterms
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Lager/Kopfstation		

*NKE Follage*

Bei Rückfragen wenden Sie sich bitte an:  
Nestlé- Kunden - und Lieferservice, Tel. 069-66710  
Lyoner Str. 23, 60523 Frankfurt

DE-ÖKO-003 Für Bio-Produkte  
Avisierung über Internetplattform Mercareon  
WA: MO-DO 4.00-12.00, FR 4.00-10.00 H

Pos	Artikelbezeichnung	EAN-Nr.	Art.-Nr.	Liefermenge [ VE ] --- [ KE ]	FC	RLZ
1	COOKIE CRISP Cereal 12x375g N8 DE Chargenbezeichnung:	5011546157276	12373619			T180
		30.06.2020	9159083800	36		
2	COOKIE CRISP Cereal 14x625g N8 DE Chargenbezeichnung:	7613031847549	12373523			T180
		30.06.2020	9180083800	36		
3	NESTLE Cer 5Var Dspl 72St PREP+20% N7 DE Chargenbezeichnung:	7613035983717	12331756			T180
		31.03.2020	91750707	13		
4	NESTLE Cer 4Vari Dspl 84St TLK DE Chargenbezeichnung:	7613036211611	12406032			T180
		31.03.2020	91480707	1		
5	NESTLE Cer 3Vari Dspl 60St Msl N8 D E Chargenbezeichnung:	7613036411011	12362066			T150
		31.01.2020	91820707	3		



## The paper delivery note seems to have fallen out of time today

Manual and analogue delivery note handling is characterised by:

- **Time-consuming** manual paper handling by the consignor and consignee
- **Multiple media breaks** along the supply chain
- **Long travel and layover times** for the return flow of information
- **High paper consumption** throughout the entire supply chain

A close-up, slightly blurred photograph of a person's hands typing on a laptop keyboard. The laptop screen is visible in the background, displaying a code editor with lines of code in various colors (blue, green, yellow, red) on a dark background. The code appears to be JavaScript or a similar programming language. The overall scene is dimly lit, suggesting an indoor setting at night or in low light. A white curved line separates the image from the dark blue background on the right.

# THE DIGITAL APPROACH - Cloud4Log



## A solution from the community for the community

- Hour of birth: Idea development in the **working group Digitalisation in Transport Logistics of the Bundesvereinigung Logistik e.V.** on 04.12.2019 in Nuremberg.
- **Intensive collaborative development with GS1-Germany** and over 20 interested companies in the industry working group.
- Implementation of a **first practical Proof-of-Concept (PoC)** in mid-2021 with participants from industry - transport services - retail
- Lessons learned from the experiences of the working group and further detailing of the requirements and the solution approach

# A solution from the community for the community

## Manufacturer

- Alnatura
- Arla Foods
- Berief Food
- Beurer
- Coca-Cola
- EBM-Papst
- Eckes Granini
- Ferrero
- Frosta
- GAH-Alberts
- Griesson – de Beukelaer
- Hailo
- Henkel
- HIT Holz
- Jacobs Douwe Egberts
- Jermi
- Knauf
- L'Oréal
- Rotkäppchen Mumm
- Nestlé
- Mondelez
- Unilever
- Roozen
- Vitakraft



## Logistics Service Provider

- Ansorge Logistik
- BTK
- BLG Logistics Group
- Chep
- Dachser
- DHL Supply Chain
- eCom Logistik
- Fiege
- IPP
- Metro Logistics
- Nagel-Group
- Nordfrost
- RUNDEN Packaging & Logistics
- SITRA Spedition
- REINERT Logistics
- Uhlhorn Logistik
- Rüdinger Spedition
- Van Eupen

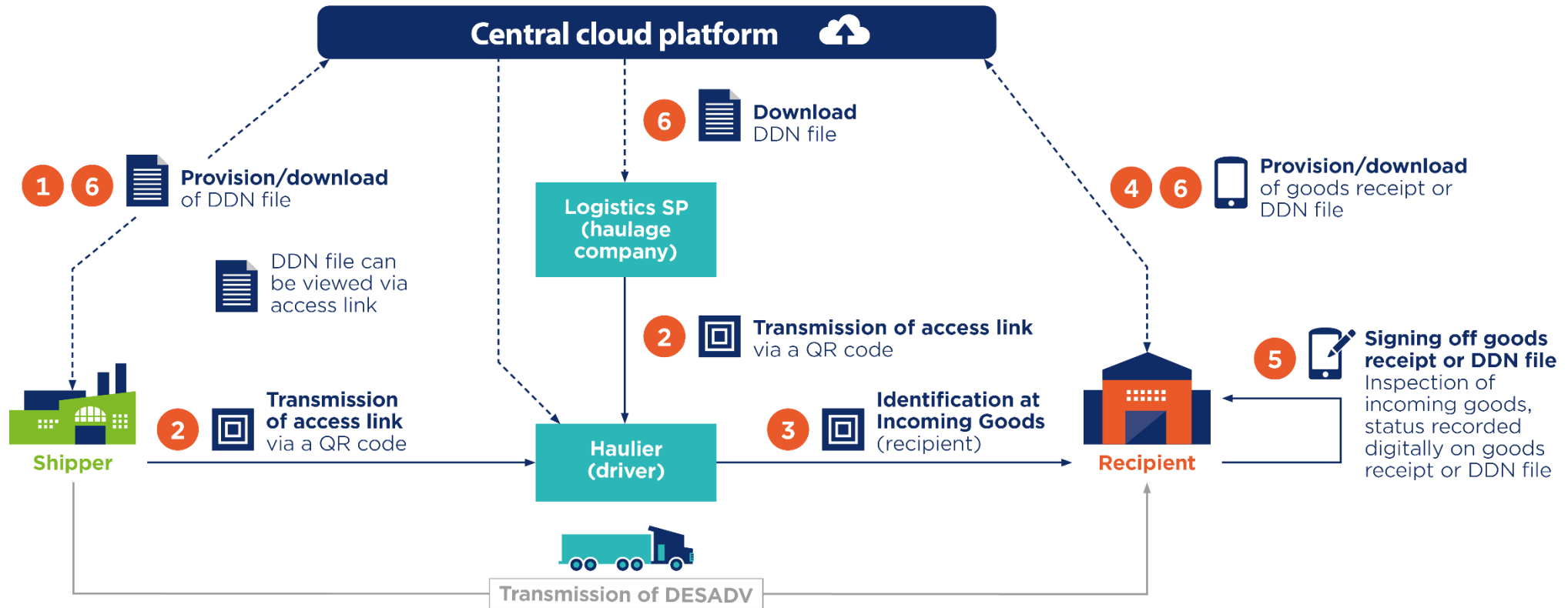


## Retailer

- dm-drogerie markt
- Edeka
- Lidl
- Rewe
- Tchibo
- Toom Baumarkt



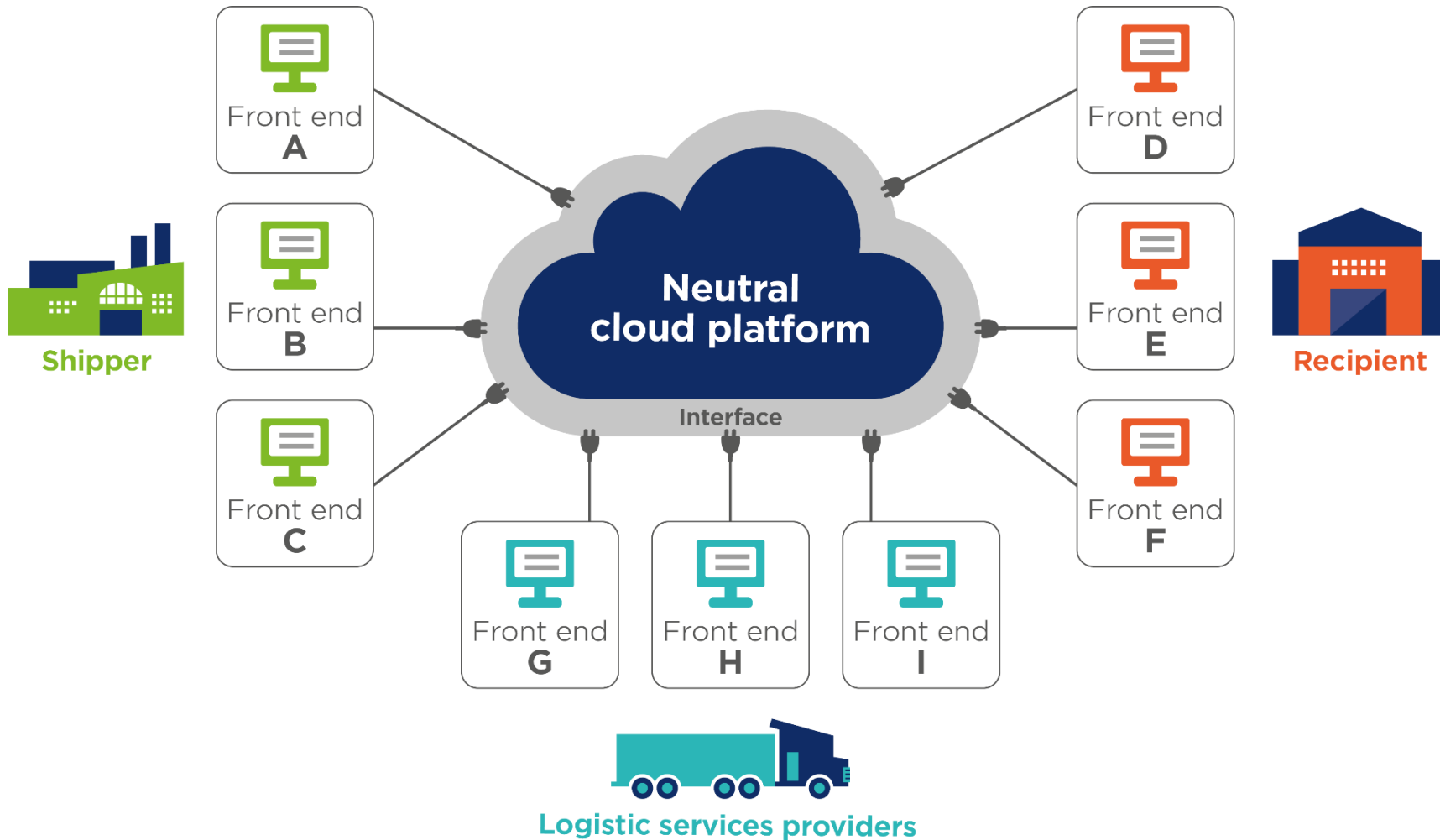
# The process behind Cloud4Log



- |  |  |   |
|--|--|---|
| <b>1</b> Provision of DDN file                     | <b>3</b> Identification at Incoming Goods                    | <b>5</b> Signing off DDN file or goods receipt        |
| <b>2</b> Transmission of access link via a QR code | <b>4</b> Amendment of DDN file or provision of goods receipt | <b>6</b> Download DDN file with/without goods receipt |
- DDN = digital delivery note**  
Assuming:  
• direct delivery  
• nationwide process (DE)



# Cloud infrastructure with an Open API



## Neutral cloud platform

Neutral cloud for the exchange of digital transport documents (delivery notes)

## Interface

Open, standardised interface for cloud access and standardised digital formats for transport documents (delivery notes)

## Front end/applications

Application providers offer users solutions for exchanging digital transport documents (delivery notes)

## Users

Users (shippers, recipients, logistic services providers) use the data exchange services of their preferred front-end provider

# DEMO-Time



Willkommen bei Cloud4Log  
Ihr digitaler Lieferschein

Wie lautet Ihre E-Mail-Adresse?

Wie ist Ihr Passwort?

Anmelden

[Passwort vergessen?](#)

Cloud4Log - die Cloud-Plattform zum Austausch von digitalen  
Transportdokumenten

Cloud4Log lohnt sich auch für Sie!  
[Mehr erfahren](#)  
[Support-Anfrage](#)

T-Systems Let's open  
higher performance  
in cooperation with T-Systems  
operated on Open Telekom Cloud



## Cloud4Log has gone live

- 20 companies have already registered for the Cloud4Log service.
- Since 14 Nov 2022, digital delivery notes have accompanied physical deliveries of goods to retailers' central warehouses
- Around two weeks after the launch at the German Logistics Congress in Berlin
- Rewe, dm, Nestlé and many other companies are involved in the introduction phase



Make  
paperless  
trade happen!

[www.cloud4log.de](http://www.cloud4log.de)

Cloud4Log powered by BVL & GS1 Germany



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