

AN INTRODUCTION TO PIER

How to use Metro In-house traceability solution

AGENDA

- 01 Introduction
- 02 Using PIER
- 03 Next steps

WHAT IS TRACEABILITY?

Traceability

...is the ability to **track forward** and **trace backward** the **history, application** or **location** of a product along the supply chain.

Global

...agenda has traceability as **one of its priorities** and METRO is strongly **committed** in its **implementation.**

NOW

...is the time to start as traceability will be **the future for many companies.**



EU LEGISLATION

EU Directives ask for proper traceability solutions on place by wholesalers regarding fish and meat products.

MILLENNIALS & DIGITALISATION

Millennials want to know if food comes from sustainable origins whereas technology calls for more transparency and real-time information.

WHY DOES METRO

ENGAGE IN TRACEABILITY?

FOOD SAFETY & SECURITY

Food incidents require on-time management and detailed information about different processes of production as well as location.

SUSTAINABILITY

Our planet requires global engagement in order to ensure its sustainability and proper resource management and allocation.

BENEFITS OF TRACEABILITY

We aim to provide **SAFE FOOD** to our customers.

By having traceability information, our customers get the **ABILITY TO CHOOSE**

This will lead to **INCREASED TRUST** towards METRO and its partners.

More and more retailers are asking for traceability and METRO prepares you to be **READY FOR THE FUTURE**

Through traceability, your products and your company experiences **INCREASED VISIBILITY**

Furthermore, traceability solutions lead to internal **OPTIMIZED PROCESSES**

DIFFERENTIATION of the company on the competitive market acquiring information about their products lifecycle

WHAT IS PIER?

As an In-house solution, METRO cannot share the entered information with other companies.

Tailor-made integrated platform for suppliers

Opportunity to add soon marketing information and promote your company

PIER is METRO's In-house traceability solution designed to be used by suppliers delivering traceability data to METRO.

Support on each stage of the onboarding process

Easy and simple information uploading

There is no fee for uploading data into PIER as well as for using additional marketing attributes.

PIER & fTRACE

DIFFERENCES BETWEEN PIER & FTRACE

As an In-house solution, METRO cannot share the entered information with other companies.

Tailor-made integrated platform for suppliers

Opportunity to add soon marketing information and promote your company

Data upload in **fTRACE** as well as the using of additional marketing attributes has a fee.

PIER is METRO's In-house traceability solution designed to be used by suppliers delivering traceability data to METRO.

If you want to deliver the same information to other companies, you should consider using **fTRACE**.

Support on each stage of the onboarding process

Easy and simple information uploading

There is no fee for uploading data into PIER as well as for using additional marketing attributes.

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HOW TO USE PIER?

1

GLN
(Global Identification Number)

Unique identifier of your company

2

GTIN
(Global Trade Item Number)

Unique identifier for each item

3

Labeling your products with barcodes

From either GS1 Databar expanded or expanded-stacked

to be requested from your local GS1 provider



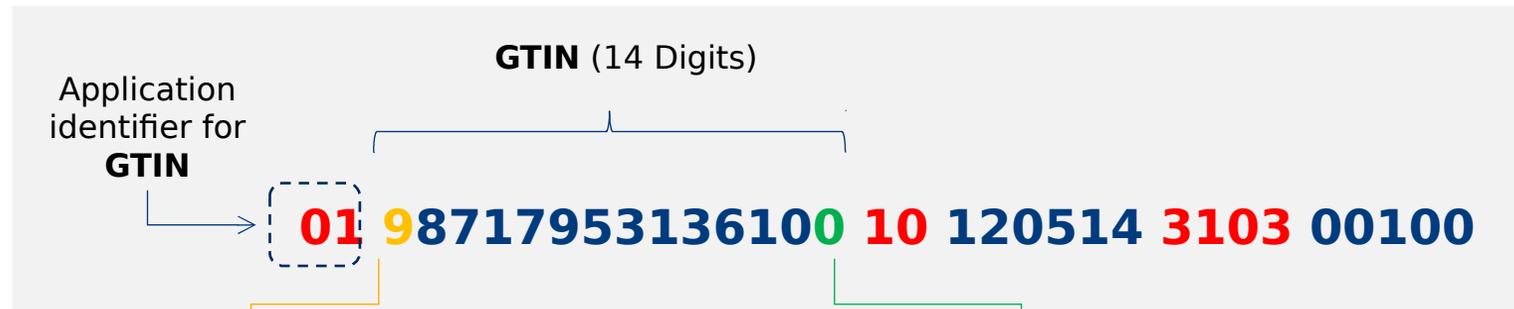
IMPORTANT POINT!

If you can't deliver GS1 Databar, an alternative can be to use barcodes of GS1-128 format



HOW TO CREATE YOUR GTIN14

From your Local GS1 provider you will receive a 13 digits code (GTIN13). In order to build your GTIN14, you have to add a first digit and then recalculate the last (check) digit.



Type of weight Digit: In case of having a 13 digits code (GTIN13), you will have to add the first digit according to the type of weight of the product:

- **Fix-weight** products will always start with **0**.
- **Variable weight** products will always start with **9**.

Check Digit: Last digit comes from a formula depending on the other 13 values of the GTIN14.
Can be calculated on

<https://www.gs1.org/services/check-digit-calculator>

Calculate a check digit

GS1 key without check digit

Calculate

STEPS CHECKING YOUR GTIN14

1. Add your GTIN13 in the search bar
2. Add 0 or 9 at the beginning of your GTIN13
3. Delete the last digit
4. Click on “Calculate check digit”
5. You will receive your GTIN14

Calculate a check digit

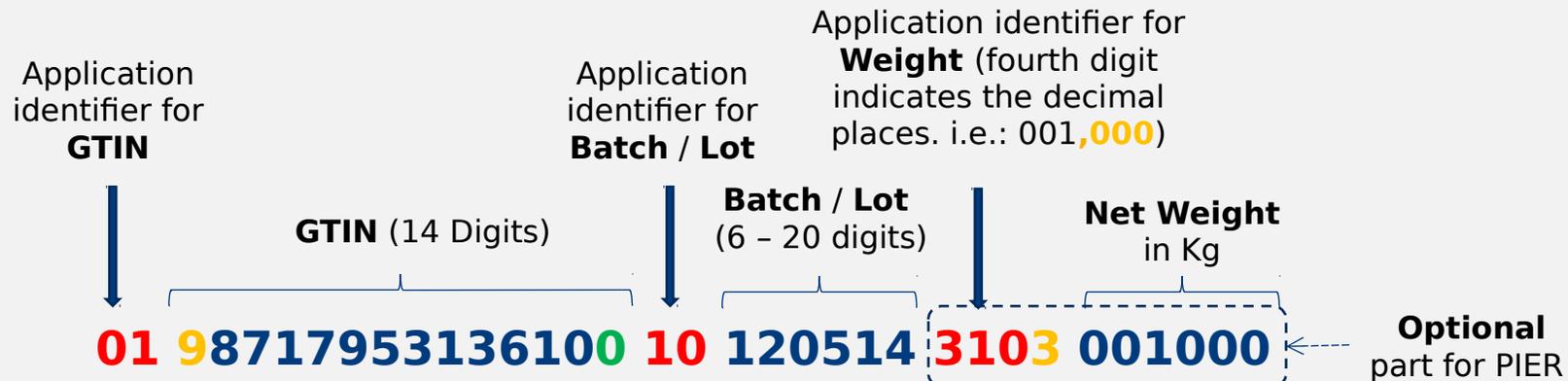
GS1 key without check digit

8717953136107



08717953136107

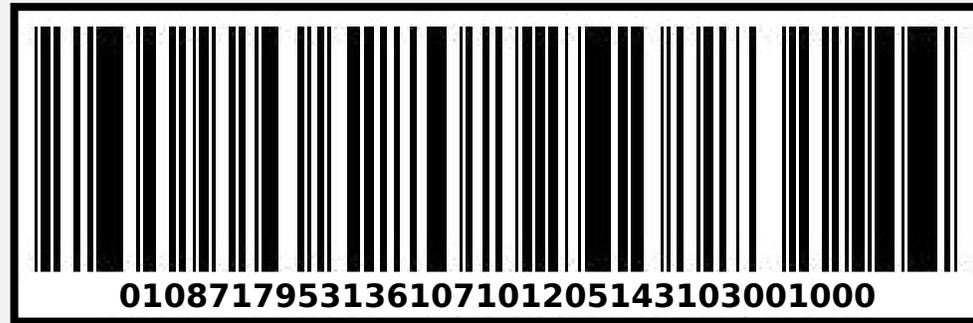
KEY POINTS OF GS1-128 BARCODE



GS1-128 code:

0108717953136107101205143103001000

GS1-128 Barcode:



List of all application identifiers

<https://www.gs1.org/standards/barcodes/application-identifiers>

Note: In some examples the application identifier are written with spaces or in brackets, this is just for readability and shall not be encoded into the barcode:



010871



(01) 0871

PROTRACE FEATURES

Find our application



for iOS/Android/Windows



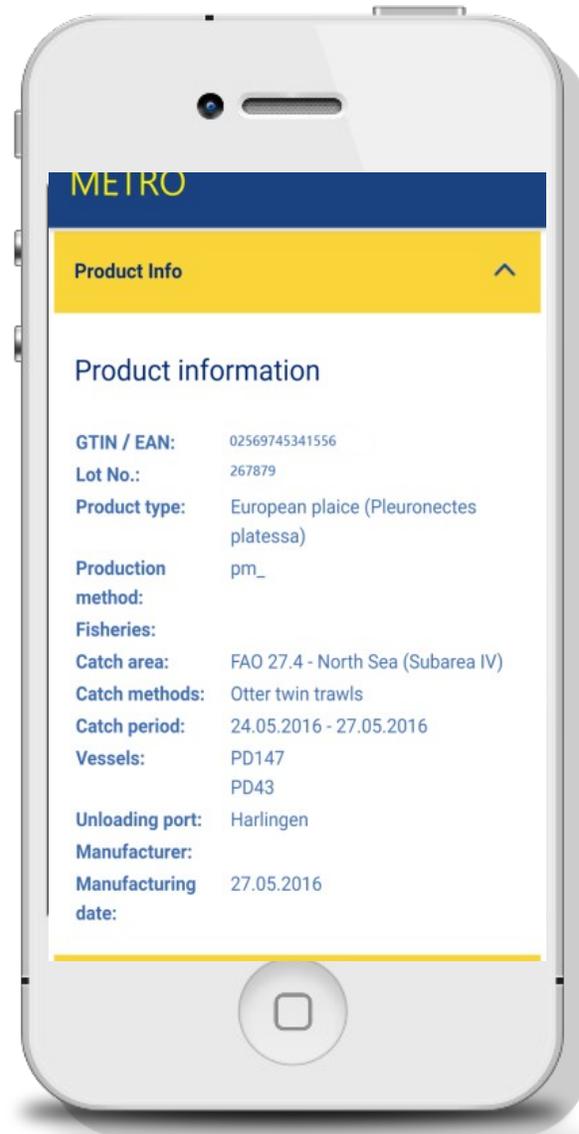
App Store



Play Store



Windows Store



● **Product info**

● **Catch method**

● **Origin**

● **Species**

OPTIONS FOR DATA UPLOAD

[Details](#)

Manual Upload



Low data volume

⚙️ Data entry website - PIER

- ✓ Easy to use
- ✓ No setup needed
- ✓ Internet access
- ✓ Entry device

Semi Automatic Upload



Medium to high data volume

⚙️ XLS - XML - PIER

- ✓ Simple set up
- ✓ Takes data from your ERP system

Automatic Upload

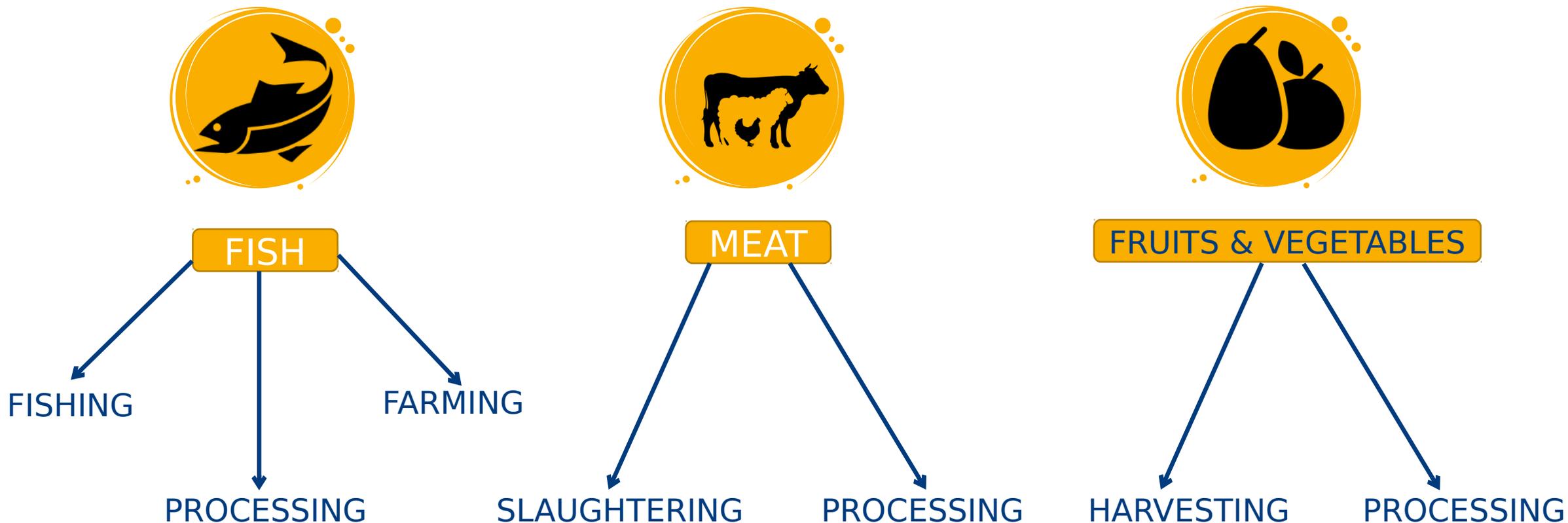


High data volume

⚙️ Machine (ERP) - Machine (PIER)

- ✓ Complex set up
- ✓ Directly connects to your ERP system

DO YOU DELIVER...?



MEAT

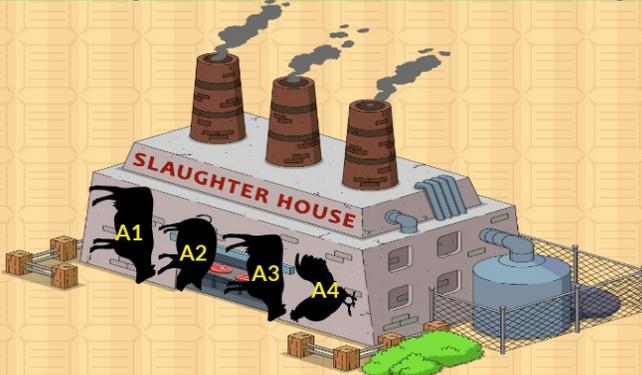
Step 1: Slaughtering

RAW
product



Born
in Ukraine

RAW
product



Slaughtered
in Germany

Meat is slaughtered and
GTIN "A" is assigned

Final
products

Step 2: Processing

Final
products



Situation A



Supplier sells the carcass
and assigns GTIN "A1"



Situation B



Supplier processes the carcass
and assigns "GTIN "B1, B2, B3..."



Situation C



Supplier processes raw products, mixes
them and assigns GTIN "C"

Input: A1
Output: A1

Input: A1
Output: B1, B2, B3 ...

Input: A1, A2
Output: C

Situation A

In case the supplier sells the whole carcass, and there is no assigned **GTIN** by the previous SCU*, then the supplier assigns **GTIN „A1“**.

Situation B

In case there is no **GTIN** assigned to raw product (e.g. carcass) by the previous SCU*, then supplier assigns **GTIN „A1“**
In case the supplier processes the raw product (e.g. makes fillet), then he has to assign **GTIN „B1, B2, B3...“** to the final products (e.g. fillet, steak)

Situation C

In case the supplier processes and mixes more than one raw product (e.g. pork and beef), then he has to assign **GTIN „C“** to the final product (e.g. minced meat)

MANUAL UPLOAD - SLAUGHTERING

Origin information

Slaughter / Cutter GLN *	4047111000006 - SLAUGHTERING TEST	▼	ⓘ
Slaughtering Date *		⊞	ⓘ
Slaughtering Period End		⊞	ⓘ
Transaction Type		▼	ⓘ

Farm details

Farm Identification *	Number of animals *	Percentage of total *	Ranking
<i>Please add at least one farm</i>			
Add farm			

Meat part details

GTIN *	Description *	Quantity *	Lot *
<i>Please add at least one meat part</i>			
Add meat part			

[Save](#)

[Add farm](#)

Farm Details

All fields marked with an asterisk (*) are mandatory.

Farm Identification *		▼	ⓘ
Number of animals *	0		ⓘ

[Add](#)

[Close](#)

[Add meat part](#)

Meat Part Details

All fields marked with an asterisk (*) are mandatory.

GTIN *		▼	ⓘ	
Lot *			ⓘ	
Quantity	Quantity	kilogram	▼	ⓘ

[Add](#)

[Close](#)

The fields marked with „*“ are mandatory (required by traceability regulations)

The fields without „*“ are optional (useful for customers)

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MANUAL UPLOAD - PROCESSING

Input details

Product	Lot	Quantity	Unit of measurement
<i>Please add at least one input</i>			
<input type="button" value="Add input"/>			

Output details

Product	Lot	Quantity	Unit of measurement
<i>Please add at least one output</i>			
<input type="button" value="Add output"/>			

Processing details

Business Location *	<input type="text" value="4047111000006"/>	<input type="button" value="i"/>
Processing Date *	<input type="text"/>	<input type="button" value="i"/>
Best Before Date *	<input type="text"/>	<input type="button" value="i"/>
Use by date	<input type="text"/>	<input type="button" value="i"/>
Previously frozen *	<input type="button" value="Yes"/> <input checked="" type="button" value="No"/>	<input type="button" value="i"/>
Transaction Type	<input type="text"/>	<input type="button" value="i"/>
<input type="button" value="Save"/>		

Input Details

All fields marked with an asterisk (*) are mandatory.

GTIN *	<input type="text"/>	<input type="button" value="i"/>
Lot *	<input type="text"/>	<input type="button" value="i"/>
Quantity	<input type="text" value="0"/>	<input type="text" value="kilogram"/> <input type="button" value="i"/>

The LOT number in the inputs and outputs will be different since then they are different products

Output Details

All fields marked with an asterisk (*) are mandatory.

GTIN *	<input type="text"/>	<input type="button" value="i"/>
Lot *	<input type="text"/>	<input type="button" value="i"/>
Quantity	<input type="text" value="0"/>	<input type="text" value="kilogram"/> <input type="button" value="i"/>

The fields marked with „*“ are mandatory (required by traceability regulations)

The fields without „*“ are optional (useful for customers)

HINTS (I)

GTIN and GLN are linked

GTIN needs to be registered with GLN of the supplier. It doesn't need to contain the corresponding country.

Products supplied for different brother companies

If the supplier is part of a bigger company, conglomerate, each of its parts needs to have their own GLNs and their own GTINs for the raw and finished data.

From GS1

GLN and GTIN have to come from the company GS1 (Only exceptions: GTINs provided by Metro which are either starting with 28 or are corresponding to Metro trading Office).

HINTS (II)

If you can't get GTINs for raw products

then you can use the XML converter where the only needed GTINs are the finished GTINs.

If you don't have the farm GLN

The XML converter accepts data about the country of origin or the farm address instead of the farm GLN.

HINTS (III)

Case sensitive

Pay attention to capital and regular letters as system is sensitive..



(01)04250796805693(3103)002060(15)170121(10)404313bc



...10404313bc



...10404313BC

Spaces or brackets in lot number

The system PIER allows only alpha-numeric characters, dashes (-) and underscores (_) in the lot number. Don't use other signs like a space or a bracket as it makes the lot unreadable (the barcode would be different from what is in the system).



(01)04250796805693(3103)002060(15)170121(10)40431302



...10 40431 302



...1040431302



(01)04250796805693(3103)002060(15)170121(10)40431302



...(10)40431302



...1040431302

HINTS (IV)

Different numbers

Lot numbers in the barcode, on the label and in the system PIER should be the same so the customers can search for info manually or by scanning the barcode.

Printing the barcode

The barcode should be printed correctly on the box so that scanning the barcode will retrieve the correct information about the GTIN and the lot.

LET'S TRY LIVE!



 Login

+ Access

Register to get access to the PRO TRACE DATA ENTRY webpage

? Help

In case of any problems or questions regarding the login to this webpage, please contact us

⬇ Download

Download the PRO TRACE app for **Android** or **iOS** and trace your products.

<https://dataentry.protrace.metrosystems.net/about>

YOU ARE HERE 

NEXT STEPS

After the training, METRO provides YOU _____
with the Master Data template

1**10 working days**

You should submit Master data to pier@sourcingsupport.de
and ask local GS1 for GTINs.

2**5 working days**

METRO enters your Master data in the system
and sends YOU login details.

3**10 working days**

When YOU receive login details, please enter traceability data in PIER.
Keep in mind that Data cannot be changed after you save it.

4**SUPPORT**

Please contact pier@sourcingsupport.de for any questions regarding
PIER

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PIER OUTCOME

OD **GÜLTIG VOM 13.06. - 19.06.2019**

METRO

Rinder-Steakhüfte
 - Argentinische Herkunft
 - Vorgereift
 - Ca. 2,5 kg
 - Vak-verp.
 Je kg

TOP-HIT
1249*
 (13,36)

kg-Preis bei Kartonabnahme
 (ca. 20 kg): 11,99* (12,83)

Haribo Stückartikel
 - Verschiedene Sorten
 Je 150-/30-Stück-Dose

TOP-HIT
369*
 (3,95)

Ramazzotti Amaro/Rosato
 - 30%/15% Vol.
 Je 0,7-l-Flasche

TOP-HIT
799*
 (9,51)

Nur für Gewerbetreibende www.metro.de
 Maximale Abgabemenge Getränke je Marke: 1 Palette. Bei Mehrbedarf wenden Sie sich bitte an unsere Betriebsleitung im Markt.

Schweinelachs-Steaks
 - Deutsche Herkunft
 - Frisch
 - Ca. 140-160 g
 - Ca. 15-kg-Schale
 Je kg

Mika Dry aged Kalbs-T-Bone-Steak
 - Ca. 21 Tage am Knochen gereift
 - Vom deutschen Kalb
 - Ca. 2 x ca. 350 g, vak-verp.
 Je kg

Bio Hähnchen
 - Herkunft: Deutschland/Österreich
 - Hkl. A
 - Frisch
 - Ca. 1000 g
 Je kg

Grillbuffet Schweine-Nackensteaks
 - In Western-/Kräuter-Marinade
 - 10er-Packung à ca. 1,5 kg
 - Vak-verp.
 Je kg

Kasserler-Lachse
 - Mild geräuchert
 - Europäische Herkunft
 - Ca. 2 kg
 - Vak-verp.
 Je kg

Grillbuffet Rinder-Hüftsteaks
 - In Pfeffermarinade
 - Europ. Herkunft
 - 8 Steaks à ca. 200 g
 - Ca. 1600-g-Schale
 Je kg

Rinderbraten Falsches Filet
 - Europ. Herkunft
 - Ca. 15 kg
 - Vak-verp.
 Je kg

TOP-HIT
459*
 (4,91)

TOP-HIT
1679*
 (17,97)

TOP-HIT
499*
 (5,34)

TOP-HIT
899*
 (9,62)

TOP-HIT
399*
 (4,27)

TOP-HIT
1149*
 (12,29)

Gutfried Reffelweil-Fleischwurst
 - Fein/grob
 - Geschnitten
 Je 80-/100-g-Packung

Stockmeyer Salami Aufschnitt
 - Verschiedene Sorten
 - Geschnitten
 Je 150-g-Packung

Menken Schinken-Grillbratwurst
 - Schweinedarm/
 - Eiweißarm
 - 20 Stück
 Je kg

NEU

TOP-HIT
089*
 (0,95)

TOP-HIT
199*
 (2,13)

TOP-HIT
619*
 (6,62)

4 FLEISCH/WURST **Gültig vom 19.06. - 26.06.2019**
 weitere Infos unter: www.metro.de/protrace

Willms Holzfällersteaks mariniert
 - Aus dem Schweine Nacken
 - Deutsche Herkunft
 - 6 x ca. 150 g
 - Ca. 900-g-Packung, vak-verp.
 Je kg

Mika Dry aged Kalbs-Tomahawk Steak
 - Ca. 21 Tage am Knochen gereift
 - Vom deutschen Kalb
 - Ca. 600-800 g
 - Vak-verp.
 Je kg

Rinderbraten Falsches Filet
 - Europ. Herkunft
 - Ca. 15 kg
 - Vak-verp.
 Je kg

Willms Rinder-Entrecôte-Steaks portioniert
 - Argentinische Herkunft
 - 12 Stück à ca. 230 g einzeln vak.
 - Ca. 2800-g-Schale
 Je kg

Willms Bratwurst-Schnecken
 - Für Grill-/Pfanne
 - Frisch
 - Deutsche Herstellung
 - 8 x 100 g
 Je 800-g-Schale

Hähnchenflügel
 - Ohne Spitze
 - Deutsche Herkunft
 - Ca. 800-g-Schale
 Je kg

TOP-HIT
499*
 (5,34)

TOP-HIT
1899*
 (20,32)

TOP-HIT
579*
 (6,20)

TOP-HIT
529*
 (5,66)

TOP-HIT
2049*
 (21,92)

TOP-HIT
279*
 (2,99)

Wiesbauer Aufschnitt
 - Aus Österreich
 - Verschiedene Sorten
 - Geschnitten
 Je 80-g-Packung

Wiltmann/Marten Salami Teller
 - Verschiedene Sorten
 - Geschnitten
 Je 80-g-Packung

Italienische Spezialitäten Bresaola/Salami Felino/Mortadella
 - Und weitere Sorten
 - Aus Italien
 - 100-150 g
 Je Packung

TOP-HIT
149*
 (1,59)

TOP-HIT
149*
 (1,59)

TOP-HIT
369*
 (3,95)

4 FLEISCH/WURST **Gültig vom 13.06. - 19.06.2019**
 weitere Infos unter: www.metro.de/protrace

USEFUL LINKS



GS1 around the world

<https://www.gs1.org/contact/overview>



Search by GLN

<http://gepir.gs1.org/index.php/search-by-gln>



Search by GTIN

<http://gepir.gs1.org/index.php/search-by-gtin>

DEFINITION OF LOT NUMBER

3.4.1 Batch or lot number: AI (10)

The GS1 Application Identifier (10) indicates that the GS1 Application Identifier data field contains a batch or lot number. The batch or lot number associates an item with information the manufacturer considers relevant for traceability of the trade item to which the element string is applied. The data may refer to the trade item itself or to items contained. The number may be, for example, a production lot number, a shift number, a machine number, a time, or an internal production code. The data is alphanumeric and may include all characters contained in figure [7.11-1](#).



Note: The batch or lot number is not part of the unique identification of a trade item.

Figure 3.4.1-1. Format of the element string

GS1 Application Identifier	Batch or lot number
1 0	X ₁ —————> variable length —————>X ₂₀

The data transmitted by the barcode reader means that the element string denoting a batch or lot number has been captured. As this element string is an attribute of a particular item, it must be processed together with the GTIN of the trade item to which it relates (see section [4.14.2](#)). When indicating this element string in the non-HRI text section of a barcode label, the following data title SHOULD be used: **BATCH/LOT**



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