



**BSI Standards Publication**

**Waste Management — Data communication  
between communication management system  
and the back office system for stationary  
waste collection containers — Functional  
specification and the semantic data model**

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The UK participation in its preparation was entrusted to Technical Committee B/183.

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## EUROPÄISCHE NORM

May 2023

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English Version

Waste Management - Data communication between  
communication management system and the back office  
system for stationary waste collection containers -  
Functional specification and the semantic data model

Gestion des déchets - Communication de données entre  
le système de gestion des communications et le  
système de services support pour les conteneurs fixes  
de collecte des déchets - Spécifications fonctionnelles  
et modèle sémantique de données

Abfallwirtschaft - Datenkommunikation zwischen dem  
Kommunikationsmanagementsystem und dem  
Hintergrundsystem für stationäre  
Abfallsammelbehälter - Funktionale Spezifikation und  
das semantische Datenmodell

This European Standard was approved by CEN on 17 March 2023.

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EUROPEAN COMMITTEE FOR STANDARDIZATION  
COMITÉ EUROPÉEN DE NORMALISATION  
EUROPÄISCHES KOMITEE FÜR NORMUNG

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

<b>Contents</b>	<b>Page</b>
<b>European foreword</b> .....	<b>3</b>
<b>Introduction</b> .....	<b>3</b>
<b>1 Scope</b> .....	<b>5</b>
<b>2 Normative references</b> .....	<b>5</b>
<b>3 Terms and definitions</b> .....	<b>5</b>
<b>4 Functional requirements</b> .....	<b>6</b>
4.1 <b>Involved systems and their functions</b> .....	<b>6</b>
4.2 <b>(Business) processes supported by this standard</b> .....	<b>8</b>
4.3 <b>Unique identification of mediums</b> .....	<b>9</b>
4.3.1 <b>General</b> .....	<b>9</b>
4.3.2 <b>Medium type</b> .....	<b>9</b>
4.3.3 <b>Issuer identifier</b> .....	<b>10</b>
4.3.4 <b>Medium identifier</b> .....	<b>10</b>
4.3.5 <b>Composing the unique identifier</b> .....	<b>10</b>
4.4 <b>Unique identification of collection containers</b> .....	<b>10</b>
4.4.1 <b>General</b> .....	<b>10</b>
4.4.2 <b>Issuer identifier</b> .....	<b>10</b>
4.4.3 <b>Container identifier</b> .....	<b>11</b>
<b>5 The semantic message models</b> .....	<b>12</b>
5.1 <b>Transactions message</b> .....	<b>12</b>
5.2 <b>System information message</b> .....	<b>14</b>
5.3 <b>Authorizations message</b> .....	<b>16</b>
5.4 <b>Authorizations patch</b> .....	<b>17</b>
5.5 <b>Configuration message</b> .....	<b>18</b>
<b>6 Code lists</b> .....	<b>24</b>
6.1 <b>General</b> .....	<b>24</b>
6.2 <b>Medium Types</b> .....	<b>24</b>
6.3 <b>Registration Types</b> .....	<b>24</b>
6.4 <b>Transaction Types</b> .....	<b>24</b>
6.5 <b>Event Types</b> .....	<b>24</b>
<b>Bibliography</b> .....	<b>25</b>

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## European foreword

This document (EN 17367:2023) has been prepared by Technical Committee CEN/TC 183 "Waste management", the secretariat of which is held by DIN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by November 2023 and conflicting national standards shall be withdrawn at the latest by November 2023.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN shall not be held responsible for identifying any or all such patent rights.

Any feedback and questions on this document should be directed to the users' national standards body. A complete listing of these bodies can be found on the CEN website.

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## Introduction

This standard aims at realizing the interoperability between communication management systems of waste collection containers and related back-office systems of waste processing companies. This is intended for use in a single system architecture with (potentially) different vendors, end-users and waste processing companies. Purposely we strive at making a base for future developments in the branch.

This document has taken the present version 2.1 of the Dutch STOSAG Norm as a starting point.

This document is accompanied by a set of technical specifications for software developers implementing this standard. Those are made available on Github.com and include:

- REST API specifications in Open API Specification (OAS) format;
- XML schema specifications that are derived from the semantic data models described in this document;
- XML example files.

The technical specifications can be found here: [1].

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## 1 Scope

This document defines the standard for exchanging stationary waste collection container information between the collection container system and the back-office systems.

This document defines the way to exchange data between the "Communication Management System" of the collection container and the "Back-Office Systems".

The exchange of data between the "Collection Container Systems" and the "Communication Management Systems" or the "Back-Office Systems" is excluded.

This document targets two streams of information in the waste processing industry:

- The processing of transactions and system information for the deposit of waste from the communication management systems to the back-office systems.
- The processing of authorization and configuration information from the back-office systems to the communication management systems.

## 2 Normative references

There are no normative references in this document.

## 3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

### 3.1

#### **authorization**

relation between the collection container and the unique identifiers specifying whether or not the UID (unique identifier) can be used to perform a transaction on the collection container

### 3.2

#### **authorization list**

register containing unique identification numbers that shall be refused or handled by the system using the register

### 3.3

#### **black list**

authorization list that contains unique identifiers that do not allow the deposit of waste, including all kind of fractions

OR

(authorization list that contains unique identifiers whose holders are not allowed to deposit waste, including all kind of fractions)

Note 1 to entry: This document does not provide a data model to exchange black list information. Instead, a white listing mechanism shall be used, see 5.3 for the Authorizations message.

### 3.4

#### **collection container**

reservoir capable of containing waste and fractions for a group of end-users