



# Bureau International des Containers

UNLOCODE Advisory Meeting 2024 - Hamburg







# About BIC

- **Non Profit NGO**, founded in 1933 under auspices of the ICC
- **2800+** members in **over 130** countries
- Promoting **safety, security, standardization**, and **sustainability**
- Official **NGO Observer** status at IMO, WCO, UNECE
- **Active at ISO, CEN** and other standards organizations
- Based in Paris



UNECE



# BIC – data resources

## BIC Digitalization Offering



**BIC Code Register**  
Unique Prefix for Containers



**Global Container Database**  
Technical Container Details



**BIC Facility Code &  
Geofence Library**  
Coded Container Facilities





# BIC Facility Code

A Unique, Harmonized Code to Identify Container Facilities



# What is the BIC Facility Code?

The BIC facility code is 9 character identifier for container facilities based on ISO 9897

Along with SMDG (for Ocean Terminal Codes) it is:

- **Child Code of UN/LOCODE**
- Used in **EDIFACT Messages**
- Recommended **Facility Type** code of the **DCSA**
- Used for Depot ID in **IICL Depot Lifecycle API**

The BIC Facility Code currently provides;

- Facility Name
- Facility Address
- GPS Co-Ordinates

The screenshot shows the BIC Codes website interface. At the top, there is a navigation menu with links for 'About', 'BIC Codes', 'BoxTech', 'Facility Codes', 'API', 'Safety & Marking', 'News', and 'Contact'. A search bar is located in the top right corner. Below the navigation, the page title is 'Registered Facility Code: DEHAMHCSA'. On the left side, there is a text box containing the following information: Facility: HCS Hamburger Container Service GmbH; Address: Neuhöfer Brückenstraße 43-51, Hamburg, 21107, Germany; Operator: HCS Hamburger Container Service GmbH. On the right side, there is a map showing the location of the facility in Hamburg, Germany, with various landmarks and streets visible.

UN/LOCODE

FACILITY

DEHAM

HCSA

BIC Facility Code  
Harmonization  
Project in collaboration  
with DCSA, IANA,  
Lessors, etc.



### Data Input

Combined total of over **40,000** Container Facility codes provided by 8 major carriers, 3 major lessors, multiple other service providers. Collaboration with both DCSA (Global) and IANA (for North America)

Machine learning tools allowed verification of addresses, Lat/Long coordinates and harmonization of the lists

### Result

Over 17,000 facilities in 192 countries now have a harmonized code, enhanced address and Lat/Long coordinates

# Usage Example



Schedules

**m sc**

Search Tracking EN myMSC

Container Number <b>CHIU9039503</b>	Shipped From <b>ANTWERP, BE</b>	Port of Load <b>ANTWERP, BE</b>	Port of Discharge <b>SYDNEY, AU</b>	Shipped To <b>SYDNEY, AU</b>	Transhipment	Price Calculation Date* <b>01/11/2022</b>
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\* Price calculation date is indicative. Please contact your local MSC office to verify this information.

**CONTAINERS**

	Container <b>CHIU9039503</b>		Type <b>40' HIGH CUBE REEFER</b>		Latest move <b>SYDNEY, AU</b>	
	Date <b>22/12/2022</b>	Location <b>SYDNEY, AU</b>	Description <b>Empty received at CY</b>	Empty/Laden/Vessel/Voyage <b>EMPTY</b>	Equipment handling facility name <b>DPW LOGISTICS - SYDNEY</b>	
	Date <b>16/12/2022</b>	Location <b>SYDNEY, AU</b>	Description <b>Import to consignee</b>	Empty/Laden/Vessel/Voyage <b>LADEN</b>	Equipment handling facility name <b>MPET K1742 DEURGANCK TERMINAL</b>	
	Date <b>14/12/2022</b>	Location <b>SYDNEY, AU</b>	Description <b>Import Discharged from Vessel</b>	Empty/Laden/Vessel/Voyage <b>PUSAN C Voyage MA243A</b>	Equipment handling facility name <b>MPET K1742 DEURGANCK TERMINAL</b>	
	Date <b>03/11/2022</b>	Location <b>ANTWERP, BE</b>	Description <b>Export Loaded on Vessel</b>	Empty/Laden/Vessel/Voyage <b>PUSAN C Voyage MA243A</b>	Equipment handling facility name <b>MPET K1742 DEURGANCK TERMINAL</b>	

BIC code  
**AUSYDGRAI**

SMDG code  
**ASLPB**

```

},
"transportCall": {
  "carrierServiceCode": "S5",
  "transportCallSequenceNumber": 0,
  "facilityCode": "AUSYDGRAI",
  "facilityCodeListProvider": "BIC",
  "facilityTypeCode": "DEPO",
  "modeOfTransport": "TRUCK",
  "UNLocationCode": "AUSYD"
},
"ISOEquipmentCode": "22G1"
},

```

```

"transportCall": {
  "carrierServiceCode": "S5",
  "transportCallSequenceNumber": 0,
  "facilityCode": "ASLPB",
  "facilityCodeListProvider": "SMDG",
  "facilityTypeCode": "POTE",
  "modeOfTransport": "VESSEL",
  "UNLocationCode": "AUSYD"
},
"ISOEquipmentCode": "22G1"
},

```





# Global Container Geofence Library

Common geofence library for BIC and SMDG facilities in the global supply chain





# Geofencing **what and why?**

With the increasing adoption of smart containers, and IoT devices the need to **geographically define the facilities** and zones through which containers travel in the supply chain is **increasing rapidly**.

Today a multitude of different parties (IOT providers, individual carriers, terminals) maintain geofencing coordinates; this **information is held in many different systems**, in **different formats** and **isn't shared**.

The Global Container Geofence Library **links the Facility Code to the Geofence**.



No single source of truth  
(single platform for  
consensus) or agreed  
methodology for  
geofencing coordinates  
of any facility

# Geofencing paper



- [Geofence Paper Project public review](#) closes 9<sup>th</sup> May
- Whitepaper defines the **methodology** and rules for different types of facilities to be geofenced
- Provide **examples of geofences** with difference in quality to demonstrate how to review
- Outline the concept of '**nesting**' to cover various use cases or scenarios from a facility geofence
- Provide guidance on **Publication** of Geofences for interoperability between IoT providers
- Geofence Whitepaper will form a standardized base for geofencing



# Geofencing **review tool**

The Geofence review tool provides:

- **Depot owner can define** and control their geofence
- **Simple platform** to create or suggest amendments to a depot geofence
- **Version control** of geofences
- Downloadable **library for Carriers and IoT providers** to embed into their software
- **Publication** after review process

# Geofencing **review panel**

Participants of the review panel will:

- Cover pre-agreed and [advertised geographical areas](#) during the call
- Review submitted geofences and approve, reject or adjust as needed to meet criteria
- Collaborate openly to the process of reviewing geofences, in nature they are subjective and we are looking to find a balanced view initially which can be modified if better information comes forward.
- Minute the meeting and apply the dated version number i.e. 2024-04-16 to match the geofence version.
- Agree the agenda / areas for review during the next meeting

**Wednesday 3PM CET EMEA, Thursday 9am CET APAC**



# Geofencing Library Collaboration

- SMDG – Ocean Terminals (Global)
- BIC – Container Facilities (Global)
- IANA – Container Facilities (North America)
- CisCo – Container Facilities (Italy)
- BCSB – Container Facilities (Germany)

Working towards growing regional support in Mexico, Singapore and other areas.

BIC provide the tooling, training and support, **local knowledge** supports the review process



# Geofencing Statistics



**771** Depots Reviewed  
**3613** Pending Review




**163** Terminals Reviewed  
**199** Pending Review +  
861 contributions next week

**934**  
Facilities with  
Geofences



# Geofencing Example



Keyword / BIC Code / BFC

[About](#) [BIC Codes](#) [BoxTech](#) [Facility Codes](#) [API](#) [Safety & Marking](#) [News](#) [Contact](#)

[Home](#) | [Facility Codes](#) | [Search Results](#) [SEARCH AGAIN →](#)

## BIC Facility Code Search Results

76 search results for "DEHAM"

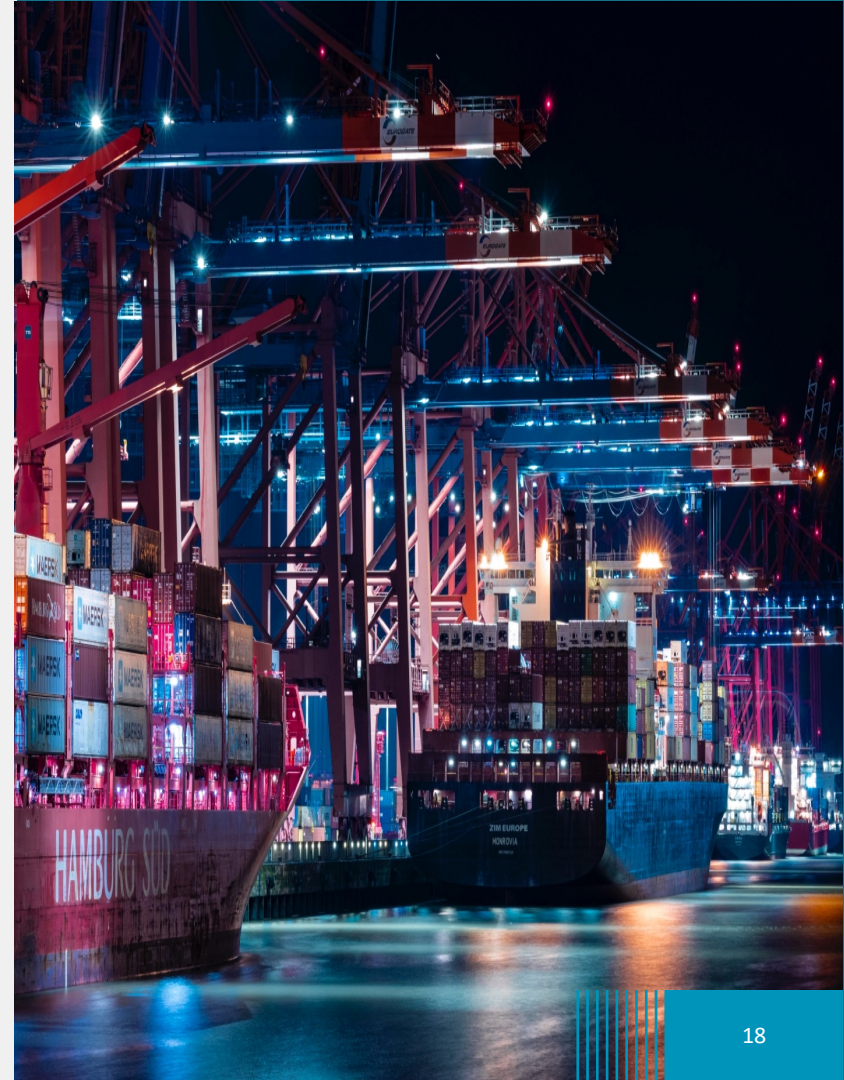
Results per page: 20

Code	Facility	Address	City	Zip	Country	Details
DEHAMAKNM	EPOLOG EXPORTVERPACKUNG UND LOGISTIK GMBH	Antwerpenstraße 1A	Hamburg	21129	DE	<a href="#">VIEW →</a>
DEHAMALNB	Baltic Logistics Service GmbH	Am Saalehafen 49 a	Hamburg	20457	DE	<a href="#">VIEW →</a>
DEHAMBCTS	Bimicon Container Service GmbH	Merkurring 94	Hamburg	22143	DE	<a href="#">VIEW →</a>
DEHAMBJTV	PROGECO SCHLUISSGROVE	Schluisgrove 29	Hamburg	21107	DE	<a href="#">VIEW →</a>

## Next steps

What do we ask of you?

- Support the review panel meetings with local contacts and participation
- Promote the harmonization and standardization of BFC, SMDG and Global Geofence Library





**Questions:**

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