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

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

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

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 9th 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

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
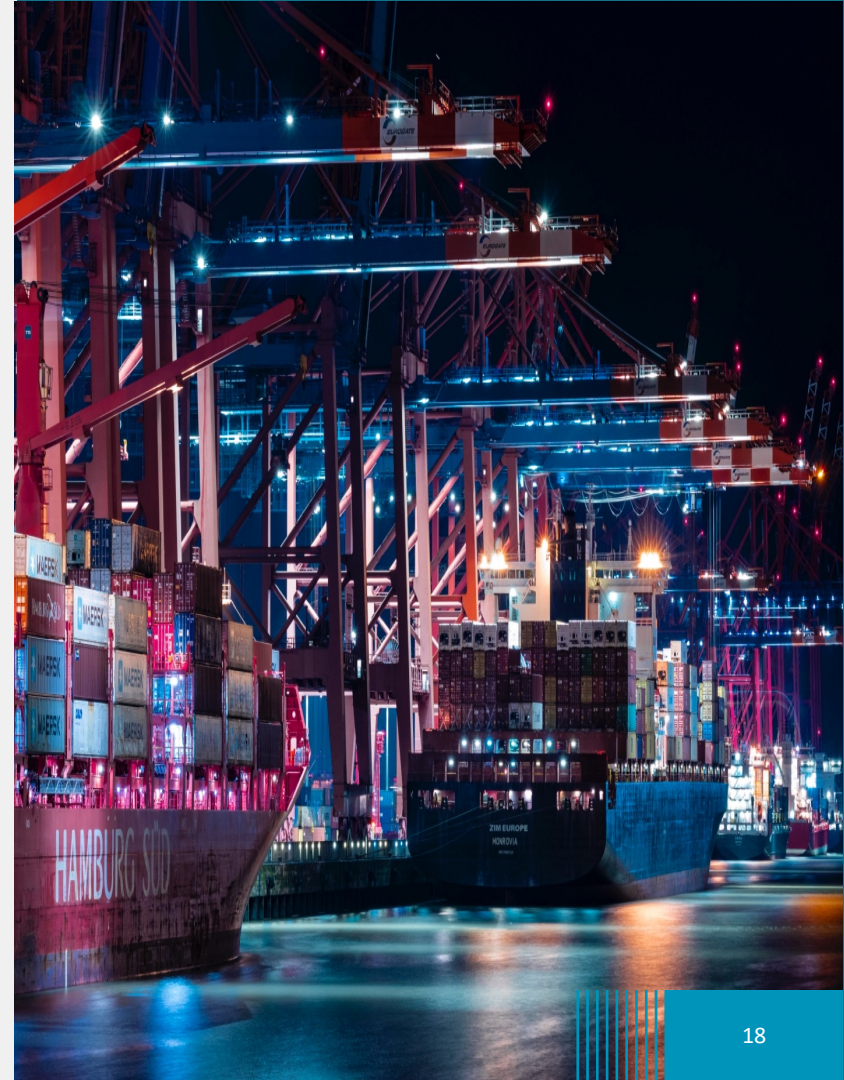
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