
146– Offshore Norge recommended guidelines for exchanging logistics data

Translated version

FOREWORD

These guidelines are recommended by the Digital Forum and the Operations Committee in Offshore Norge. They are also approved by the Director General.

The guidelines are owned by Offshore Norge.

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1 INTRODUCTION

1.1 Purpose

The purpose of the guidelines is to ensure a common practice for standardising and exchanging data to be used in the logistics chain for the oil and energy industry on the Norwegian continental shelf (NCS).

These guidelines specify which types of data will be standardised and exchanged, which format they should be in, and how to ensure that they can be exchanged securely. The guidelines will contribute to interoperability in exchanging logistics data between players in the logistics chain.

1.2 Area of application

The guidelines apply to all players involved in the supply chain on the NCS.

1.2 Definitions and abbreviations

Definitions

GS1 Norway GS1 Norway is a user-managed not-for-profit association which forms part of the global GS1 organisation. This develops, maintains and offers global standards for the efficient flow of goods and information. Activities at GS1 Norway include administering the GIAI and GLN standards.

Abbreviations

GIAI Global individual asset identifier
CCU Cargo carrying unit
IMO International Maritime Organisation

Explanation of terms

Logistics data Data generated or utilised in connection with logistics activities.
Logistics chain The chain of players and companies involved in logistics activities
Interoperability The ability of IT systems with associated business processes to exchange data and share information.
CCU master data Data elements/attributes which describe the properties of a CCU.
CCU hiring data Data which specify the parties to a CCU hire.
Location Physical locations in the logistics value chain, such as warehouse, collection point and delivery point.
CCU A portable unit intended for repeated transport of goods to and from offshore facilities. See chapter 3.1.2 for delimitation and classification

1.3 Relevant links

www.gs1.no/giai

2 EXCHANGING LOGISTICS DATA

Logistics data must be exchanged between players in the logistics and supply chain, and be standardised in the areas covered by these guidelines.

Identifiers must be used to ensure a shared understanding between players when communicating in connection with logistics and supply operations.

Standardising logistics data from different sources will facilitate the adoption of new technology which permits efficient exchange of information. See the figure below, for example.

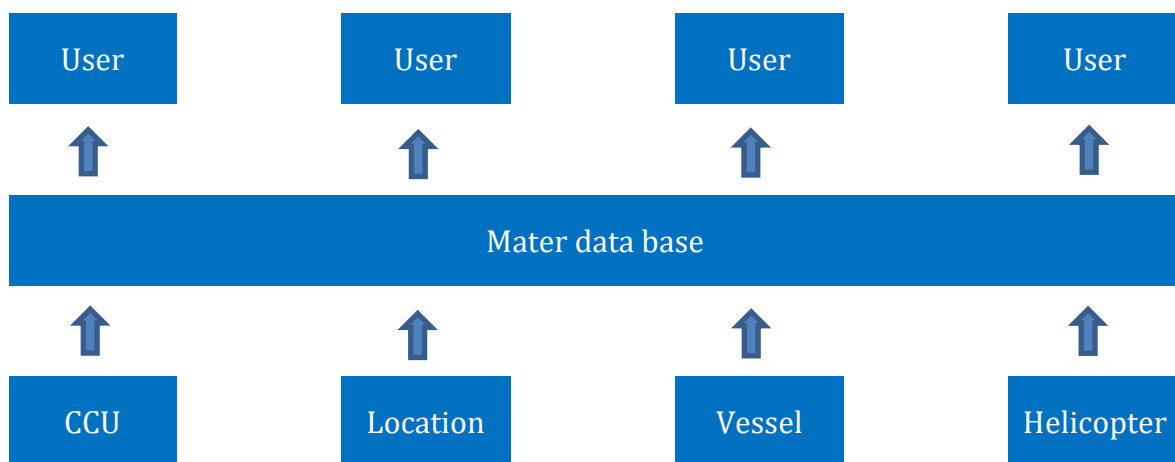


Fig 1 – Simplified information flow with examples of logistic data sources which provide master data.

3 LOGISTICS DATA

This chapter describes areas covered by the guidelines.

3.1 CCU

Describes logistics and hire data related to the CCU. See appendix A.

3.2 Location

Describes logistics data related to the location. See appendix B.

3.3 Packages

Describes logistics data related to packages. See appendix C.

4 DATA SECURITY

See information on the Offshore Norge website related to general terms and conditions.

5 TERMS AND CONDITIONS

Information about general and specific terms, personal data and fees for using the Norwegian Oil and Gas platform to share logistics data is available on the Offshore Norge website.

6 APPENDIX A LOGISTICS DATA FOR CCUS

6.1.1 Identifiers for CCUs

All CCUs must be awarded a unique ID in the form of a global individual asset identifier (GIAI). The CCU owner must acquire a GIAI for the CCU before this unit is used on the NCS.

All CCUs assigned a GIAI must be associated with a return location defined by the owner of the CCU.

6.1.2 Master data for CCUs

The following data elements/attributes must be registered for all CCUs.

| CCU MASTER DATA | DATA FIELD | COMMENTS | DESCRIPTION |
|-----------------|--|-------------------------|--|
| 1 | CCU owner's registered enterprise number | Mandatory | Registered enterprise number from the Brønnøysund register. |
| 2 | GLN for CCU owner's headquarters | Mandatory | GLN of headquarters registered in the GLN base at GS1 |
| 3 | GIAI | Mandatory | Global individual asset identifier (GIAI – the unique CCU identifier). |
| 4 | CCU ID | Mandatory | Owners' unit number (asset ID) |
| 5 | CCU owner | Mandatory | Name of the company which owns the CCU |
| 6 | CCU class | Mandatory | Type of CCU (standardised list of CCU types) |
| 7 | CCU sub-class | Depends on CCU class | Type of CCU sub-class (standardised list of CCU sub-class types) |
| 8 | Original certificate number | Mandatory | The original certificate number (stamped on the CCU's safety approval plate) |
| 9 | Certificate expiry date | Mandatory | The certificate expiry date (from annual visual inspections) |
| 10 | IMO certificate | Mandatory | IMO certificate number |
| 11 | IMO certificate expiry date | Mandatory | IMO certificate expiry date |
| 12 | MGW | Mandatory | Maximum gross weight in kilograms |
| 13 | Tare | Mandatory | The tare (empty) weight of the CCU in kilograms |
| 14 | Payload | Mandatory | The maximum allowable weight which can be loaded into the CCU (tare + payload = MGW) in kilograms |
| 15 | Length | Mandatory | Length of the CCU in millimetres |
| 16 | Width | Mandatory | Width of the CCU in millimetres |
| 17 | Height | Mandatory | Height of the CCU in millimetres |
| 18 | Tank volume | Mandatory if applicable | Volume of a chemical tank (CCU) in litres |
| 19 | Attachments | Mandatory | Certificates and/or other relevant attachments related to the CCU PDF or link. (If hyperlink to the original certificate is not available, it must be uploaded as a PDF.) |

| | | | |
|----|---------------|-----------|---|
| 20 | Home Location | Mandatory | GLN for CCU home location (Dusavik, Tananger, Ågotnes, Mongstad, Florø, Kristiansund, Sandnessjøen, Hammerfest) |
| 21 | Z-015 | Mandatory | Yes or no |

6.1.3 Classification of CCUs

CCUs must be classified in the following classes or sub-classes:

| <i>CCU class</i> | <i>CCU sub-class</i> | |
|----------------------------|---|--------------------|
| Basket | Removable sidewall basket | |
| | Side door basket | |
| | Special basket | |
| | Standard basket | |
| | Toolbox basket | |
| | Heavy lift basket | |
| | Half high basket | |
| | Container | Special container |
| | | Standard container |
| | | Food container |
| Gas rack | | |
| IBC carrier | | |
| Mini container | | |
| Reefer container | | |
| Laundry container | | |
| Tank | Open top container | |
| | Heated tank | |
| | Lined tank | |
| | Chemical tank | |
| | Cryogenic tank | |
| | Jet fuel tank | |
| Waste handling unit | Waste bin container | |
| | Waste compactor | |
| | Waste container | |
| | Waste skip | |
| Service container | Cuttings container | |
| | Service container (NORSOK Z015 containers, for example) | |

6.1.4 Hire data for CCUs

The following hire data must be associated with a CCU and exchanged:

| HIRE DATA | DATA FIELD | COMMENTS | DESCRIPTION |
|------------------|------------------------------|---|--|
| 20 | Reference number | If available | The CCU hirer's reference number (PO or project number, for example) |
| 21 | GIAI | Mandatory | The GIAI of the CCU being hired. |
| 22 | Hire period – on hire | Mandatory | Rental on-hire date. |
| 23 | Hire period – off hire | Off-hire date – mandatory when information is available | Rental off-hire date. |
| 24 | Hiring org name | Mandatory | Company renting the CCU |
| 25 | Hiring reg enterprise number | Mandatory (applicable if relevant) | Company renting the CCU (where a foreign company is concerned) |

| | | | |
|----|---------------------|-------------|--|
| 26 | Hiring org GLN | Mandatory | GLN for company renting the CCU |
| 27 | Sub-hiring org name | If relevant | Company A is renting a CCU from a CCU rental provider (hire), and sub-rents the same CCU (in the hire period) to company B (sub-hire). |

6.1.5 Registration of master and hire data

Master and hire data must be registered and maintained on the Offshore Norge platform for sharing logistics information.

6.1.6 Making master and hire data accessible

Data must be extracted in accordance with the signed user agreement between Offshore Norge and the user. This agreement will define which data the user is authorised to extract from the system.

7 APPENDIX B LOGISTICS DATA FOR LOCATIONS

7.1.1 Identifiers for location

All locations must have a unique ID – global location number (GLN).

7.1.2 Master data for location

The following data elements/attributes must be registered for all locations.

| ATTRIBUTE | STATUS |
|--|--------------------------------------|
| Global location number (GLN) | Mandatory in the GLN base |
| Legal identifiers (registered enterprise number) | Mandatory in the GLN base |
| Company name | Mandatory in the GLN base |
| Location name | Mandatory in the GLN base |
| Address | Mandatory in the GLN base |
| Postal code | Mandatory in the GLN base |
| City/town/post office | Mandatory in the GLN base |
| Telephone | Optional |
| GPS (coordinates from Norwegian Mapping Authority. UTM-33) | Set on the basis of the address |
| Country code ID (NO = Norway) | Mandatory in the GLN base. Automatic |

7.1.3 Registering master data

Location data must be registered and maintained by GS1 in the GLN base.

7.1.4 Making master data accessible

Data must be extracted in accordance with GS1's terms and conditions for use.

8 APPENDIX C LOGISTICS DATA FOR PACKAGES

8.1.1 Identifiers for packages

Packages must have a unique package ID – serial shipping container code (SSCC).