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Visibility data interchange among logistics information service providers

Échange de données de visibilité entre fournisseurs de services d'informations logistiques

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Foreword

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Introduction

Visibility of logistics flow and a simple and trusted way to find the precise logistics information are very important for logistics in international trade.

However, the logistics data to be obtained by the logistics operator is often provided by several logistics information service providers (LISP) and other logistics parties. Although international standards (such as UN/EDIFACT) have existed for decades and many national and regional systems have been implemented based on these international standards, LISPs are often developed in isolation and fragmentation based on its own business requirements; and this leads to different interpretations of standard messages. A logistics information service framework should be specified for the visibility of logistics flow.

This document specifies a framework to clarify logistics visibility data and how it should be interchanged among different LISPs. This document can be used by LISPs for establishing data connections with other logistics information service systems and for satisfying different data providers' and data users' requirements. Logistics authorities and data users can also use this document to track the logistics flow and optimize their services.

Visibility data interchange among logistics information service providers

1 Scope

This document specifies logistics visibility data, data elements, interchange message, and framework of logistics information service providers (LISP) interconnection. This document is applicable to regional and inter-regional logistics data interchange services of transport means and goods management in maritime, road, air, and railway import/export transportation.

2 Normative references

There are no normative references in this document.

3 Terms, definitions and abbreviated terms

3.1 Terms and definitions

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

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

— ISO Online browsing platform: available at https://www.iso.org/obp

— IEC Electropedia: available at https://www.electropedia.org/

3.1.1
data provider
party that provides logistics data to a *logistics information service provider (LISP)* (3.1.3)

3.1.2
data user
party that accesses logistics data from the *logistics information service provider (LISP)* (3.1.3) framework

3.1.3
logistics information service provider
LISP
party that provides the services of a platform for the electronic exchange of logistics information in the supply chain for increased efficiency and effectiveness

3.1.4
logistics visibility data
data that constitute logistics event status in import/export logistics procedure, covering the event data relating to the mode of transport, cargo and means of transport, B2B (business-to-business), G2B (government-to-business), B2G (business-to-government), public or private interests

Note 1 to entry: Visibility data is sorted in each event.

3.1.5
logistics visibility data interchange
data interchange for accurate and efficient logistics tracking and traceability

3.1.6
interconnection
connected status between *logistics information service providers (LISPs)* (3.1.3)

Note 1 to entry: The visibility data interchanged among LISPs are interconnected, so the connected status among LISPs is interconnection.

3.1.7
other receiver
party that receives a copy of a message when a document sender sends the message to a document receiver

3.2 Abbreviated terms

API	application programming interface
CCS	cargo community system
IMO	International Maritime Organization
PCS	port community system
UN/CCL	United Nations Core Components Library
WCO	World Customs Organization

4 Framework of logistics information service providers interconnection

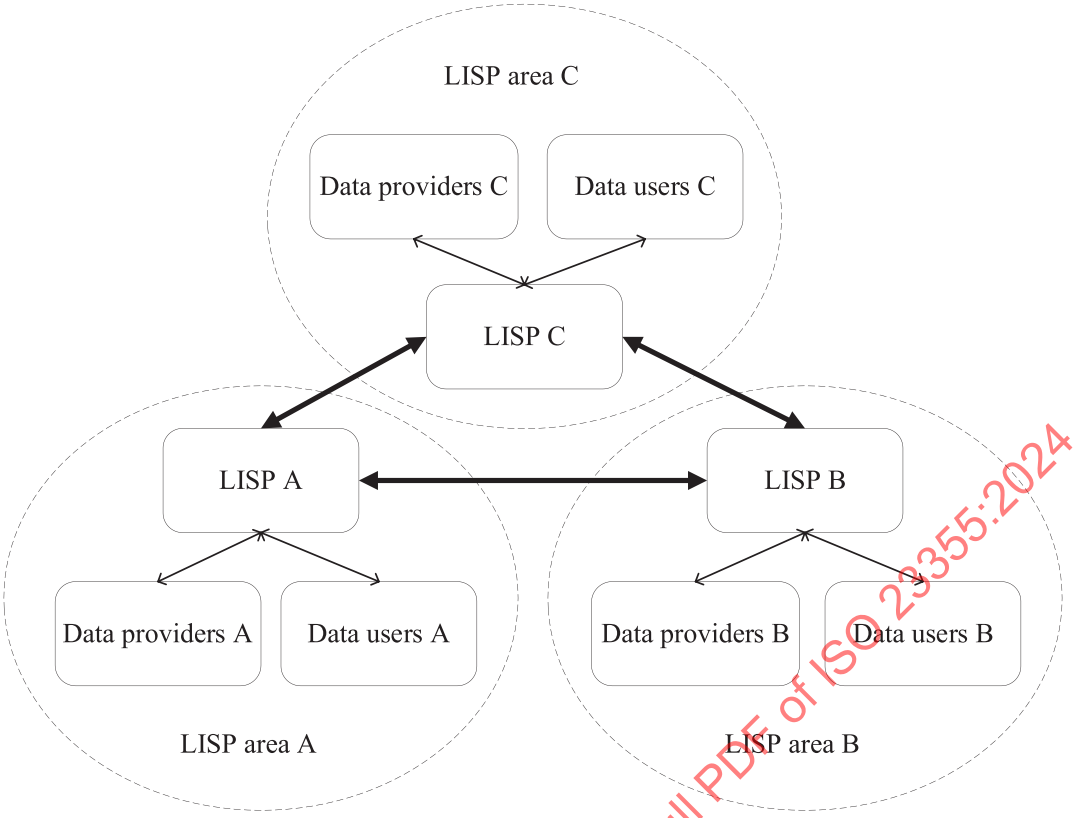
4.1 Interconnected relations

4.1.1 Overview

As it is shown in Figure 1, the framework of LISP interconnection consists of regional LISP interconnection and inter-regional LISP interconnection.

— A single LISP provides regional LISP interconnection.

— Multiple LISPs provide inter-regional LISP interconnection through APIs.



NOTE The connecting lines refer to APIs.

Figure 1 — Framework of LISP interconnection

4.1.2 Regional LISP interconnection

Regional LISP interconnection includes:

— LISP

— Data providers

— Data users

Data providers are connected to a LISP in the same region and provide the logistics data to the LISP. Data users are connected to a LISP in the same region and access logistics data from the LISP. For example, there are three regional LISP interconnections in Figure 1: LISP area A, LISP area B and LISP area C. In LISP area A, data providers A provide the logistics data to LISP A, and data users A access logistics data from LISP A.

4.1.3 Inter-regional LISP interconnection

Inter-regional LISP interconnection includes:

— Multiple LISPs

— Data providers in different regions

— Data users in different regions

Inter-regional LISP interconnection can be provided by multiple LISPs through APIs. Data users connected to a LISP can access logistics data from other regions by inter-regional LISP interconnection. For example, as it shown in Figure 1, data users A can access logistics data from LISP area B and LISP area C, which are provided by data providers B and data providers C.

4.1.4 Classification of parties in LISP framework

The parties in LISP framework are shown in Table 1.

Table 1 — Example of Parties in LISP Framework

Party	Example of parties
LISP	a) PCS and CCS b) Logistics data exchange platform
Data provider	a) Maritime carrier b) Freight forwarder c) Port/Terminal operator d) Single window e) PCS and CCS f) Logistics data exchange platform
Data user	a) Maritime carrier b) Freight forwarder c) Port/Terminal operator d) Single window e) PCS and CCS f) Logistics data exchange platform

4.2 Features

The framework of LISP interconnection should include 7 features.

a) Openness: Any of LISPs can participant in this network to provide and acquire logistics status information mutually. They are information contributor, at the same time, they are information consumer.

b) Confidentiality: To protect sensitive information of participated parties, information exchange shall be conducted with the prerequisite of data providers' consent.

c) Systematicness: APIs are used for authentication and providing/querying logistics status information mutually. This feature reduces the cost of system implementation for both data providers and data users.

d) Distribution: Providing services with a distributed database, store and replicate data based on a distributed framework.

e) Convenience: The latest logistics data sharing and query service between LISP in different regions can be realized by using APIs.

f) Effectiveness: With the latest logistics status information, this framework can achieve the visual tracking and traceability of logistics events, thereby ensuring accurate and efficient logistics information service data interchange.

g) Inter-region: The logistics visualization data can be tracked across borders and regions to ensure successful sharing and access of logistics event status data in different countries and regions.

5 Visibility data of logistics information service

5.1 Logistics import/export process

According to the general logistics import/export process, visibility data are streamlined as events in chronological order. Integrating maritime, air, railway and road transport, there are 10 events on the import process, as shown in Figure 2; on the export process, there are 9 events, as shown in Figure 3.

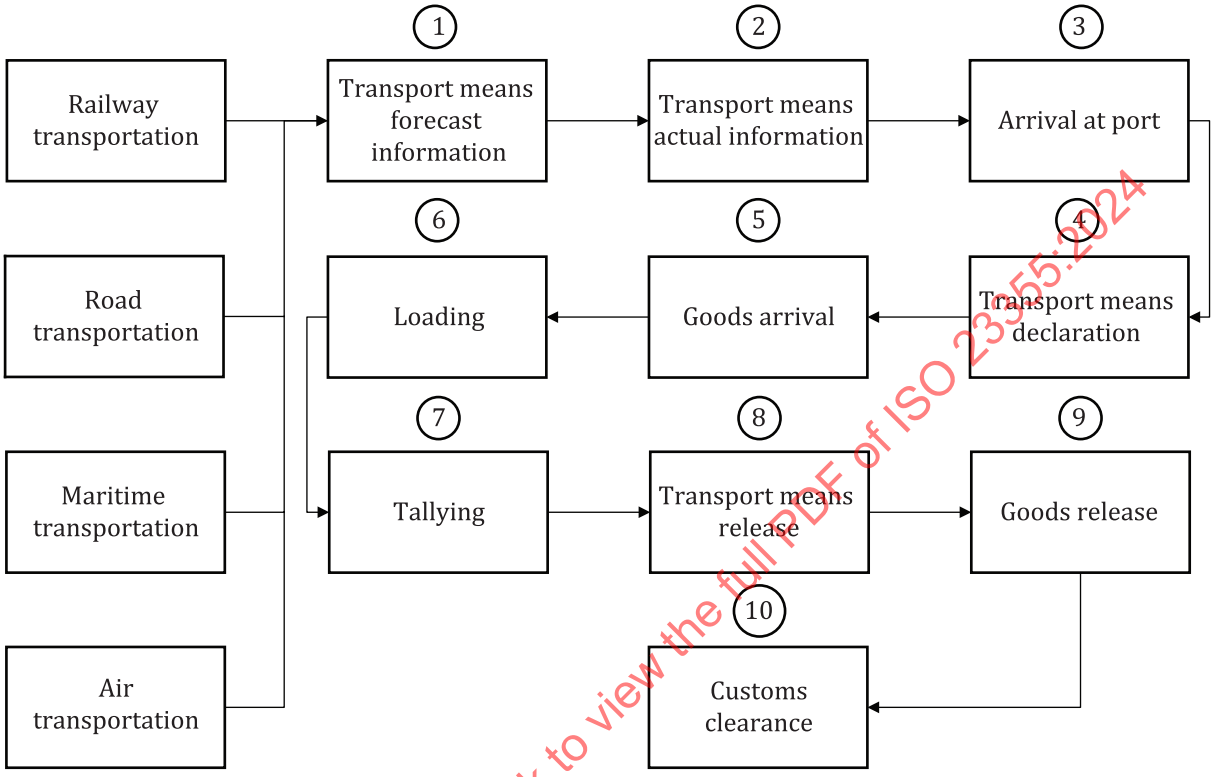


Figure 2 — Import process

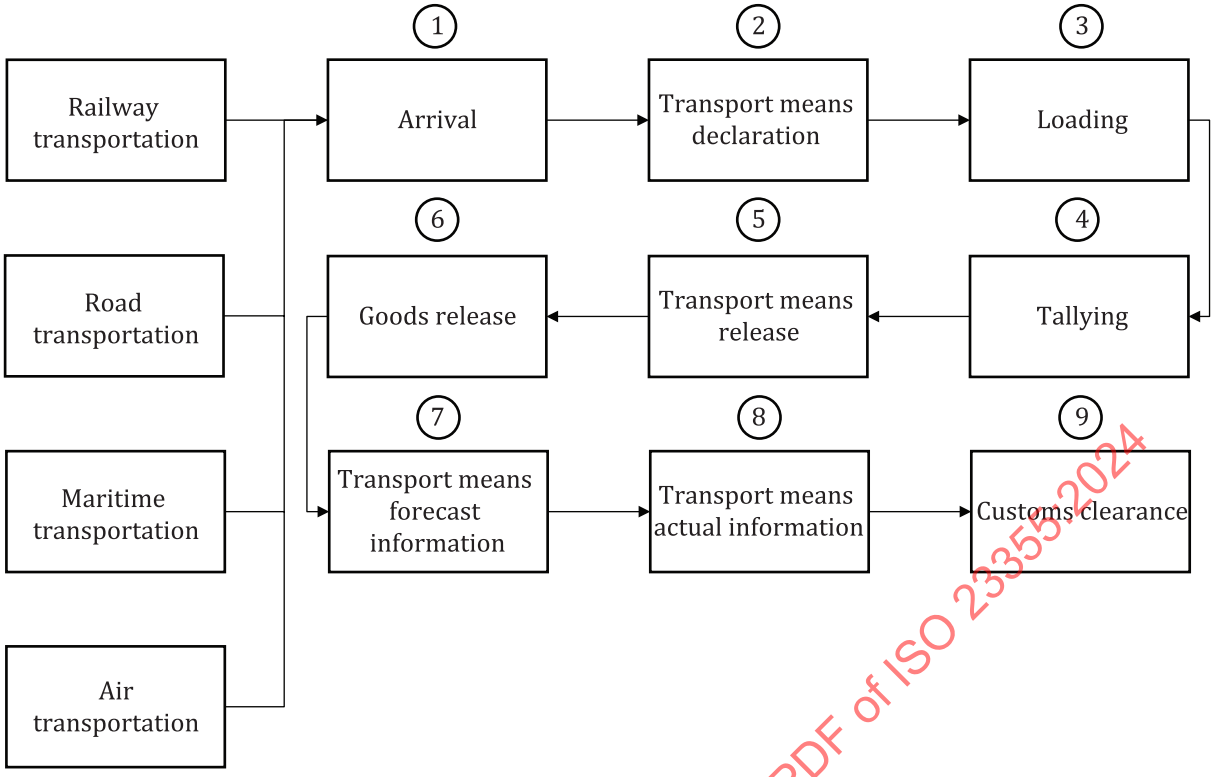


Figure 3 — Export process

5.2 Logistics import/export status

5.2.1 Import

a) Transport means forecast information: Before the transport means enters the country (location), the transportation enterprise shall pre-declare relevant dynamic data.

b) Transport means actual information: When the transport means enters the country (location), the transportation enterprise shall declare relevant dynamic data.

c) Arrival at port (location): When the transport means enters the country (location), the transportation enterprise shall declare the actual dynamic data of a transport means arrival (location).

d) Transport means declaration: When the transport means arrives at inbound location, the transportation enterprise shall declare the transport means, passengers, crews, items and other information carried by the transport means.

e) Goods arrival: When goods arrive the inbound location supervision site, the declaration of goods and the corresponding transport means are carried out by the local enterprise.

f) Loading: When goods leave the inbound location supervision site, the declaration of goods and the corresponding transport means are carried out by the local enterprise.

g) Tallying: When goods arrive at the designated supervision site, the site enterprise completes the inventory and declares goods.

h) Transport means release: After customs formalities have been completed, the transport means carrying import and export goods shall be released with the permission of the customs.

i) Goods release: After the customs accepts the declaration of import and export goods, examines electronic data declaration forms, paper declaration forms and accompanying documents, examines the

goods, levies taxes or accepts guarantees, it shall make a decision to terminate the on-site supervision of import and export goods and allow goods to leave the on-site supervision of the customs.

j) Customs clearance: Customs clearance is a procedure after customs release. After the goods enter the country, the customs check the accuracy and authenticity of the imported cleaning manifest data and confirms the verification manifest data.

5.2.2 Export

a) Arrival: When export goods arrive at the supervision site of the outbound location, the declaration of goods and the corresponding transport means are carried out by the local enterprise.

b) Transport means declaration: When the transport means arrives at the outbound location, the transportation enterprise shall declare the passengers, crews, items and other information carried by the transport means.

c) Loading: When goods leave the supervision site of the outbound location, the declaration of goods and the corresponding transport means are carried out by the local enterprise.

d) Tallying: When goods arrive at the designated supervision site, the site enterprise completes the inventory and declares goods.

e) Transport means release: After customs formalities have been completed, the transport means carrying export goods shall be released with the permission of the customs.

f) Goods release: After the customs accepts the declaration of export goods, examines electronic data declaration forms, paper declaration forms and accompanying documents, examines the goods, levies taxes or accepts guarantees, it shall make a decision to terminate the on-site supervision of export goods and allow goods to leave the on-site supervision of the customs.

g) Transport means forecast information: Before the transport means enters the destination country (location), the transportation enterprise shall pre-declare relevant dynamic data.

h) Transport means actual information: When the transport means enters the destination country (location), the transportation enterprise shall declare relevant dynamic data.

i) Customs clearance: Customs clearance is a procedure after the export declaration. After the goods leave the country, the customs check the accuracy and authenticity of the export cleaning manifest data and confirms the verification manifest data.

5.3 Logistics visibility data interchange message

5.3.1 Overview

In logistics export/import process, 10 events on the import process and 9 events on the export process are streamlined respectively. Regardless the direction of logistics flow, these 19 events are compiled into 6 messages, as shown in Table 2.

Table 2 — Process refinement into messages

Message name	Import process	Export process
Forecast information message	Transport means forecast information	Transport means forecast information
Actual information message	Transport means actual information	Transport means Actual information
Arrival report message	Arrival at port (location)	Arrival
Tally message	Tallying	Tallying
Goods loading message	Loading	Loading
Transport means and goods release message	Transport means release	Transport means release
	Goods release	Goods release

5.3.2 Interchange message

Six kinds of logistics visibility data interchange massage should be used for logistics import/export information service data interchange, as shown in Figure 4.

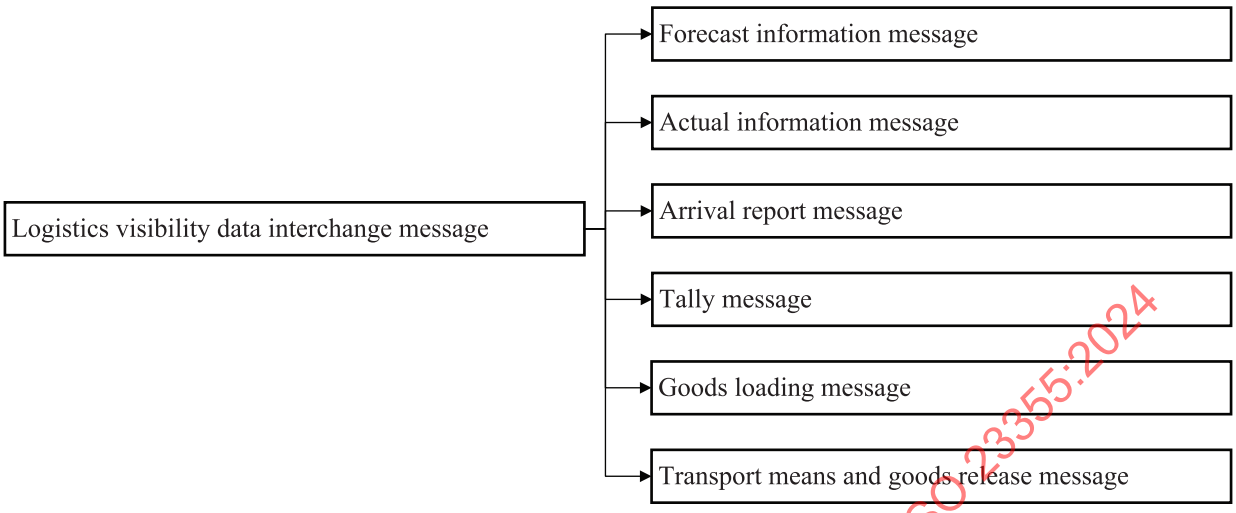


Figure 4 — Logistics visibility data interchange message

6 Messages of visibility data interchange between LISPs

6.1 Message content attribute description

6.1.1 Description of character representations

Table 3 provides the descriptions of the character attributes.

Table 3 — Descriptions of character representations

n	numeric characters
an	alphabetic and numeric characters
..35	variable data unit size where "35" indicates the maximum number of available character positions
M	mandatory
O	optional
M/O	M/O, O/M appear in pairs in the table, two ways to fill in: choose one of the data items to fill in, or choose both data items to fill in.
O/M	

6.1.2 Occurrence number of data elements

The way to indicate the number of repetitions of data elements in messages is as follows:

a) 0..1 — The data element is optional and occurs once.

b) 0..n — The data element is optional and occurs multiple times.

c) 1..1 — The data element is mandatory and occurs once.

d) 1..n — The data element is mandatory and occurs multiple times.

e) 1/0..1 — Two input forms:

0/1..1
- these two data elements should be chosen one of them to fill in and occur once;
- both data elements can be filled in and occur once.

6.2 Messages

6.2.1 Transport means forecast information message

6.2.1.1 Basic requirements

6.2.1.1.1 Message name: forecast information message.

6.2.1.1.2 Message sender: transportation enterprises, such as shipping companies, consignors and freight forwarders. Message receiver: destination units for transporting goods, such as ports, airports, railway stations, freight stations and regulatory authorities.

6.2.1.1.3 The message should provide the forecast information about ships, trains, vehicles and aircrafts arrival at the destination.

6.2.1.2 Message structure

6.2.1.2.1 Overview

Forecast information message shall consist of header, other receivers, transport means basic information, calling location information and trailer. Figure 5 shows the general overview of the message.

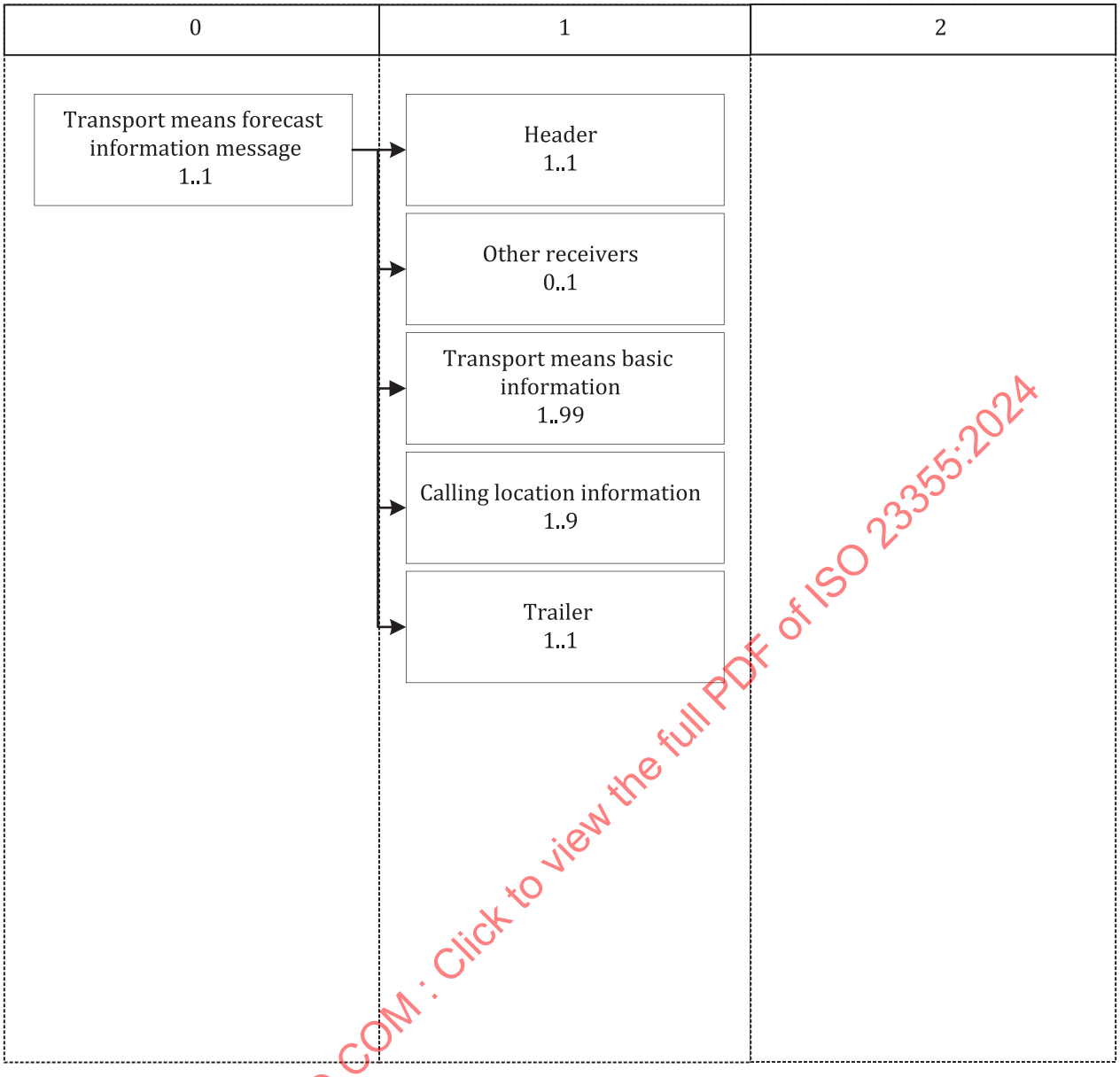


Figure 5 — Overview of forecast information message

6.2.1.2.2 Header

The header of forecast information message should contain the data element items and descriptions shown in Figure 6.

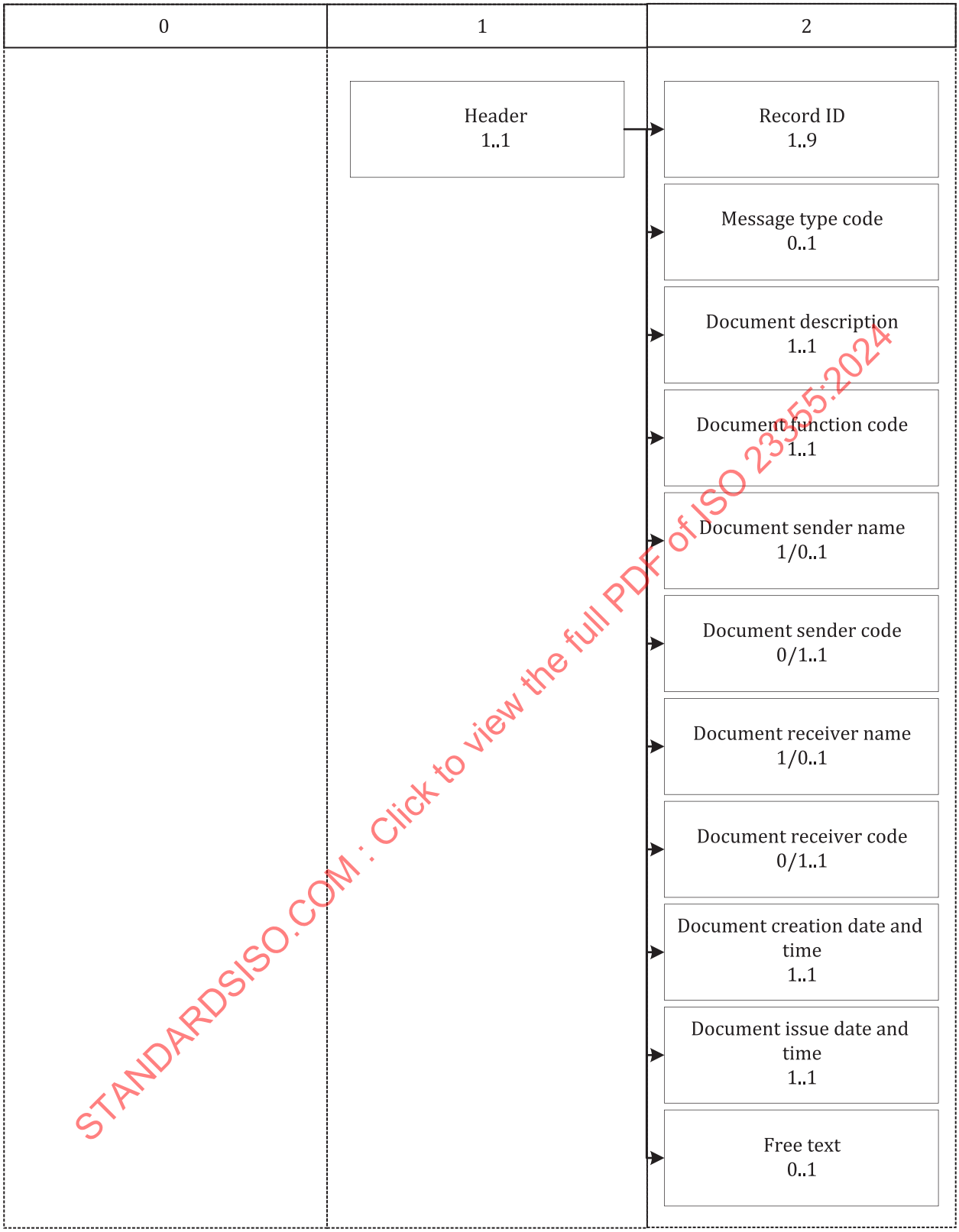


Figure 6 — Header of forecast information message

6.2.1.2.3 Other receivers and transport means basic information

Other receivers and transport means basic information of forecast information message should contain the data element items and descriptions shown in Figure 7.

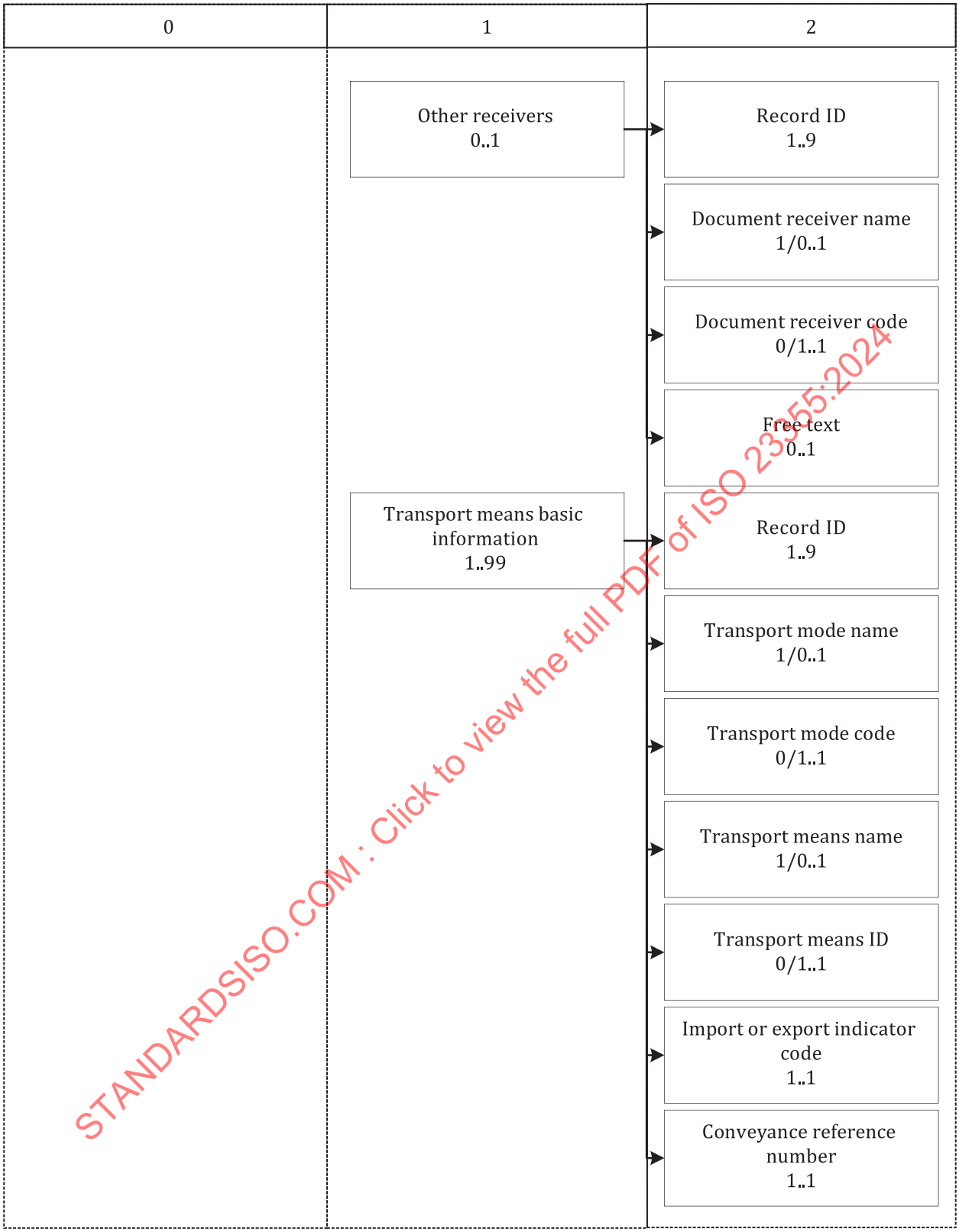


Figure 7 — Other receivers and part of transport means basic information of forecast information message

6.2.1.2.4 Transport means basic information (continued)

Continued from Figure 7, transport means basic information of forecast information message should contain the data element items and descriptions shown in Figure 8.

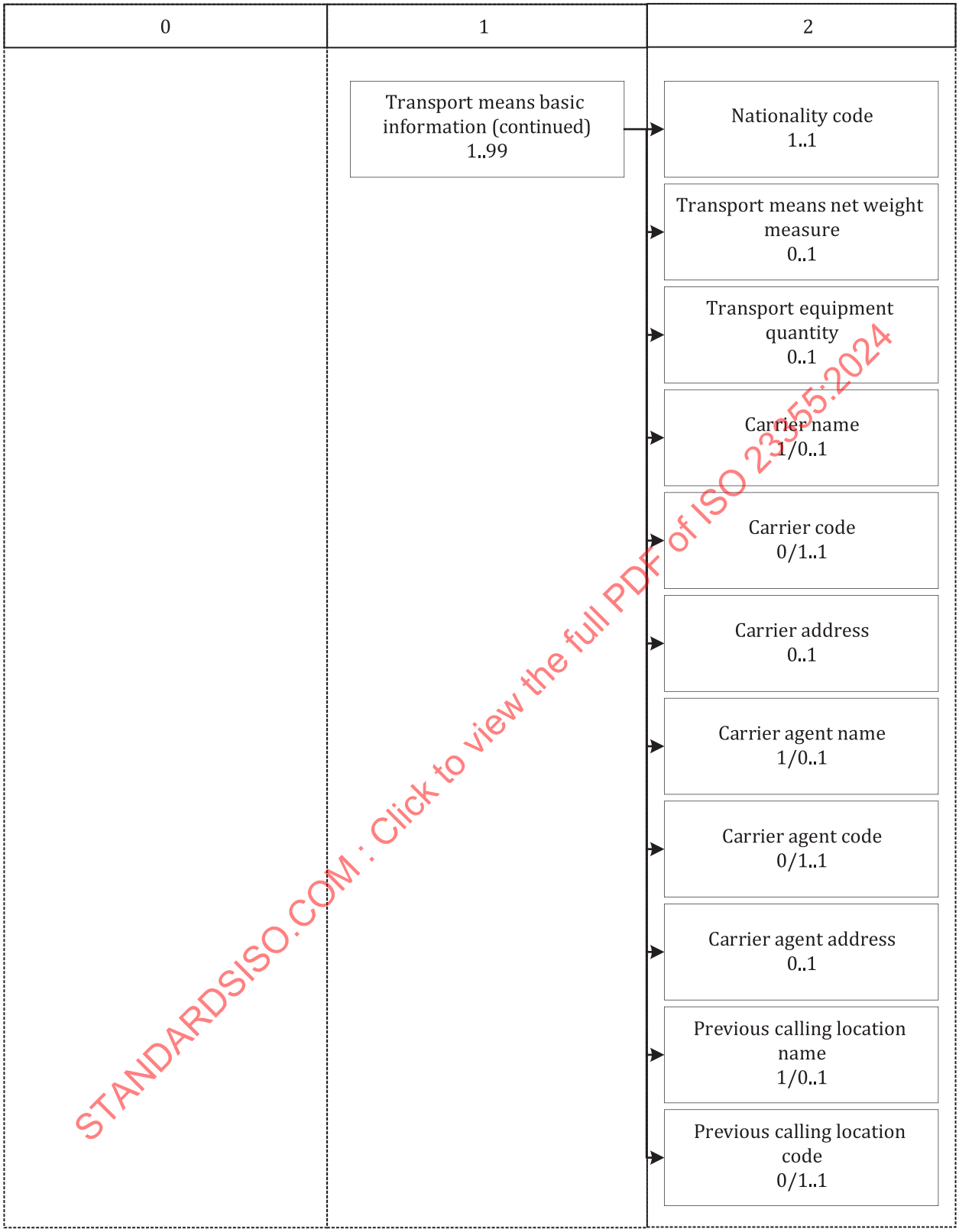


Figure 8 — Transport means basic information (continued) of forecast information message

6.2.1.2.5 Transport means basic information (continued) and calling information

Continued from Figure 8, transport means basic information and calling location information of forecast information message should contain the data element items and descriptions shown in Figure 9.

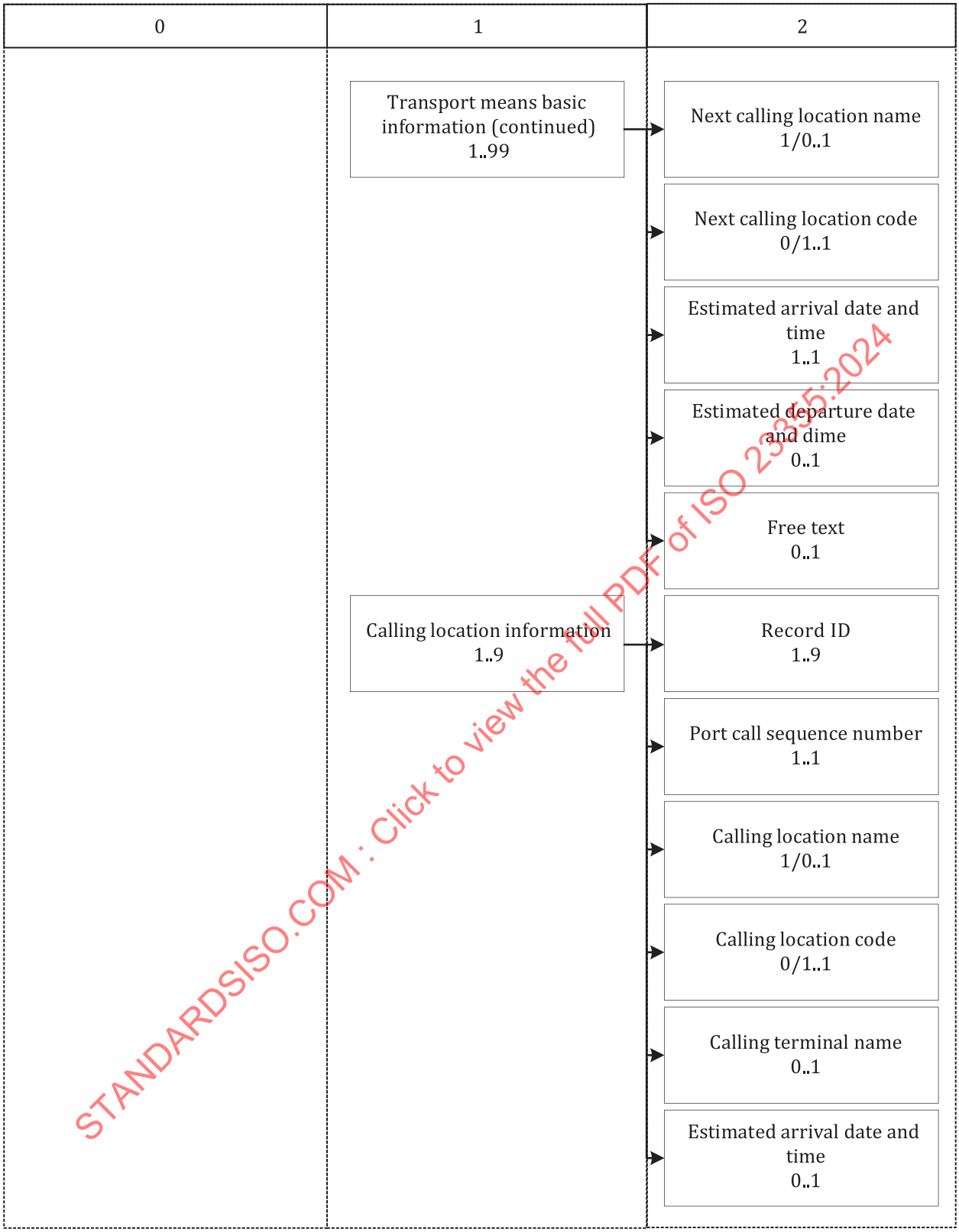


Figure 9 — Transport means basic information (continued) and calling location information of forecast information message

6.2.1.2.6 Trailer

The trailer of forecast information message should contain the data element items and descriptions shown in Figure 10.

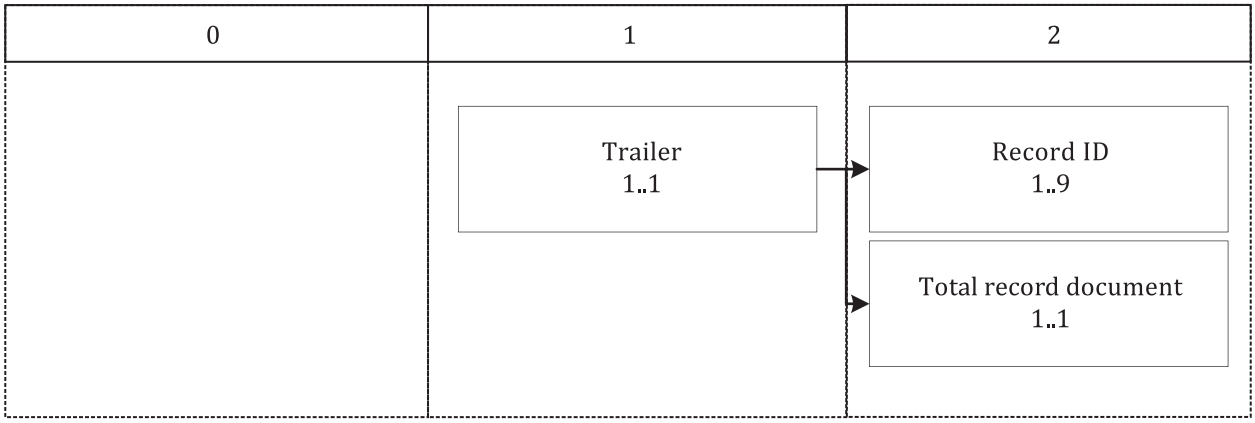


Figure 10 — Trailer of forecast information message

6.2.1.3 Message description

6.2.1.3.1 Header

Header of forecast information message is shown in Table 4.

Table 4 — Header of forecast information message

Record 00				M
No.	**Name**	**Format**	**Unit/code of measurement**	**Constraint**
1	Record ID	n..2	Record type is 00.	M
2	Message type code	an..6	Same as UNCL 1001 code ID	M
3	Document description	an..35		O
4	Document function code	an..1	9 - original, 2 - addition, 3 - deletion, 4 - change	M
5	Document sender name	an..35		M/O
6	Document sender code	an..17		O/M
7	Document receiver name	an..512		M/O
8	Document receiver code	an..17		O/M
9	Document creation date and time	an..19	CCYYMMDDHHMMZHHMM	M
10	Document issue date and time	an..19	CCYYMMDDHHMMZHHMM	M
11	Free text	an..512		O

6.2.1.3.2 Other receivers

Other receivers of forecast information message are shown in Table 5.

Table 5 — Other receivers of forecast information message

Record 01				O
No.	**Name**	**Format**	**Unit/code of measurement**	**Constraint**
1	Record ID	n..2	Record type is 01.	M
2	Document receiver name	an..512		M/O
3	Document receiver code	an..17		O/M
4	Free text	an..512		O

6.2.1.3.3 Transport means basic information

Transport means basic information of forecast information message is shown in Table 6.

Table 6 — Transport means basic information of forecast information message

Record 10				M
No.	Name	Format	Unit/code of measurement	Constraint
1	Record ID	n..2	Record type is 10.	M
2	Transport mode name	an..17		M/O
3	Transport mode code	an..1		O/M
4	Transport means name	an..35		M/O
5	Transport means ID	an..35	Ship is IMO number, aircraft is aircraft registration number, railway is train number, and vehicle is engine number + vehicle shelf number.	O/M
6	Import or export indicator code	an..1	I-Import, E-Export	M
7	Conveyance reference number	an..17		M
8	Nationality code	an..3		M
9	Transport means net weight measure	n..14	Unit: Ton (t)	O
10	Transport equipment quantity	n..6	Unit: TEU	O
11	Carrier name	an..512		M/O
12	Carrier code	an..17		O/M
13	Carrier address	an..512		O
14	Carrier agent name	an..512		M/O
15	Carrier agent code	an..17		O/M
16	Carrier agent address	an..512		O
17	Previous call location name	an..256		M/O
18	Previous calling location code	an..35		O/M
19	Next calling location name	an..256		M/O
20	Next calling location code	an..35		O/M
21	Estimated arrival date and time	an..19	CCYYMMDDHHMMZHHMM	M
22	Estimated departure date and time	an..19	CCYYMMDDHHMMZHHMM	O
23	Free text	an..512		O

6.2.1.3.4 Calling location information

Calling location information of forecast information message is shown in Table 7.

Table 7 — Calling location information of forecast information message

Record 20				M
No.	Name	Format	Unit/code of measurement	Constraint
1	Record ID	n..2	Record type is 20.	M
2	Port call sequence number	an..10		M
3	Calling location name	an..256		M/O
4	Calling location code	an..35		O/M
5	Calling terminal name	an..256		O
6	Estimated arrival date and time	an..19	CCYYMMDDHHMMZHHMM	O

6.2.1.3.5 Trailer

Trailer of forecast information message is shown in Table 8.

Table 8 — Trailer of forecast information message

Record 99				M
No.	**Name**	**Format**	**Unit/code of measurement**	**Constraint**
1	Record ID	n..2	Record type is 99.	M
2	Total record document	n..6	Including head record and trailer record	M

6.2.2 Transport means actual information message

6.2.2.1 Basic requirements

6.2.2.1.1 Message name: actual information message.

6.2.2.1.2 Message sender: transportation enterprises, such as shipping companies, consignors and freight forwarders. Message receiver: destination units for transporting goods, such as ports, airports, railway stations, freight stations and regulatory authorities.

6.2.2.1.3 The message should provide the actual information about ships, trains, vehicles and aircrafts arrival at the destination.

6.2.2.2 Message structure

6.2.2.2.1 Overview

Actual information message shall consist of header, other receivers, transport means basic information, calling location information and trailer. Figure 11 shows the general overview of the message.

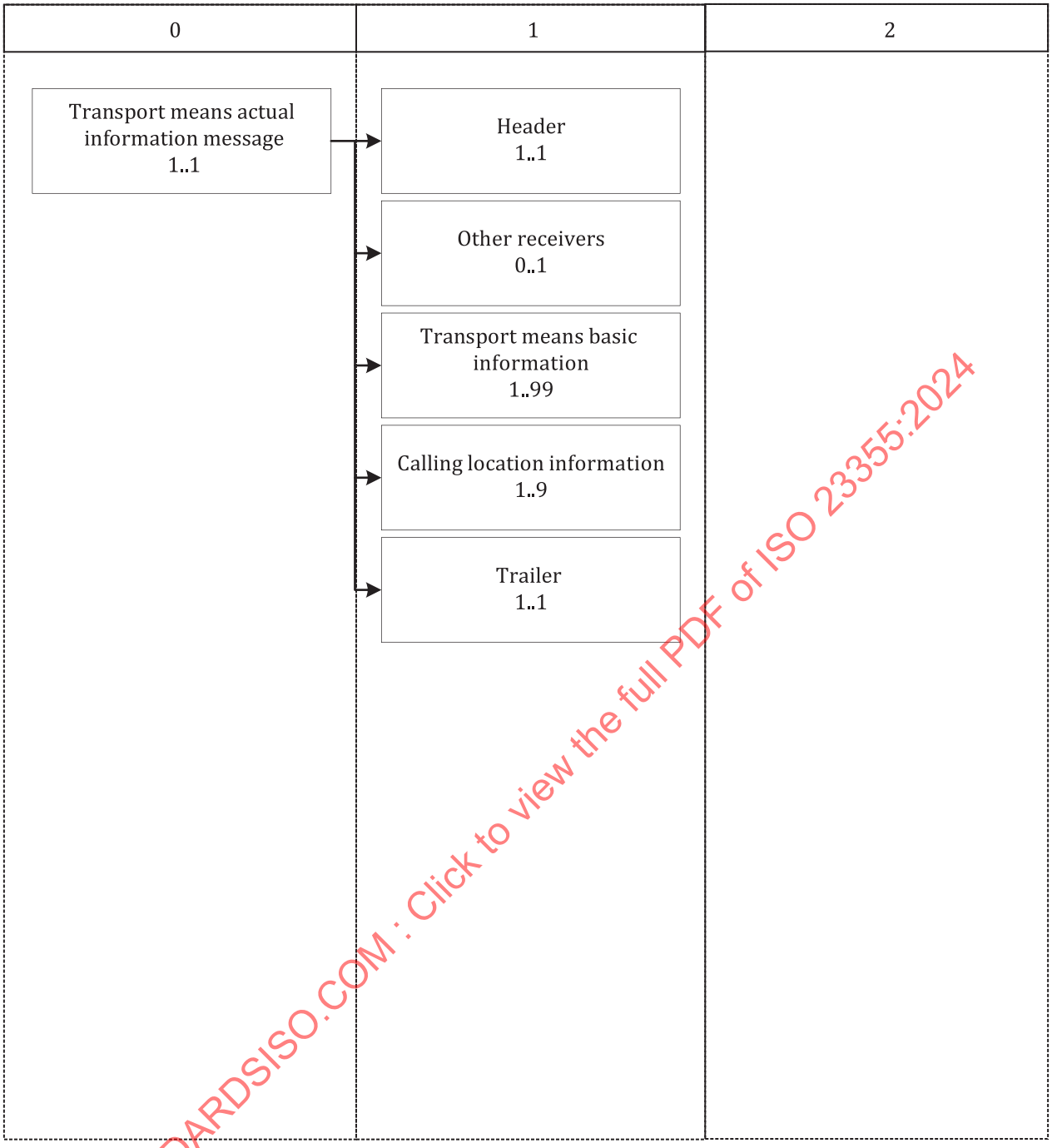


Figure 11 — Overview of actual information message

6.2.2.2.2 Header

The header of actual information message should contain the data element items and descriptions shown in Figure 12.

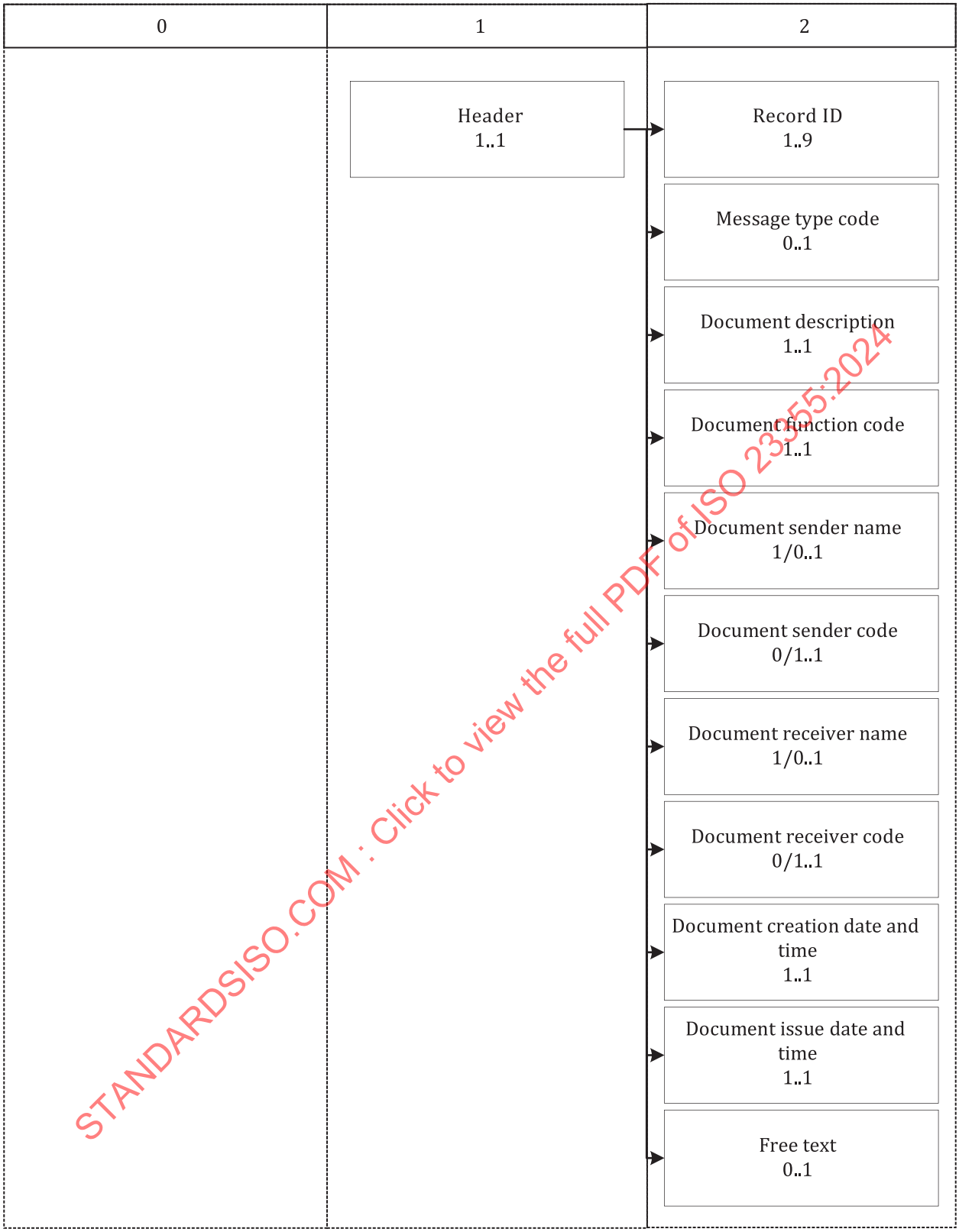


Figure 12 — Header of actual information message

6.2.2.2.3 Other receivers and transport means basic information

Other receivers and transport means basic information of actual information message should contain the data element items and descriptions shown in Figure 13.

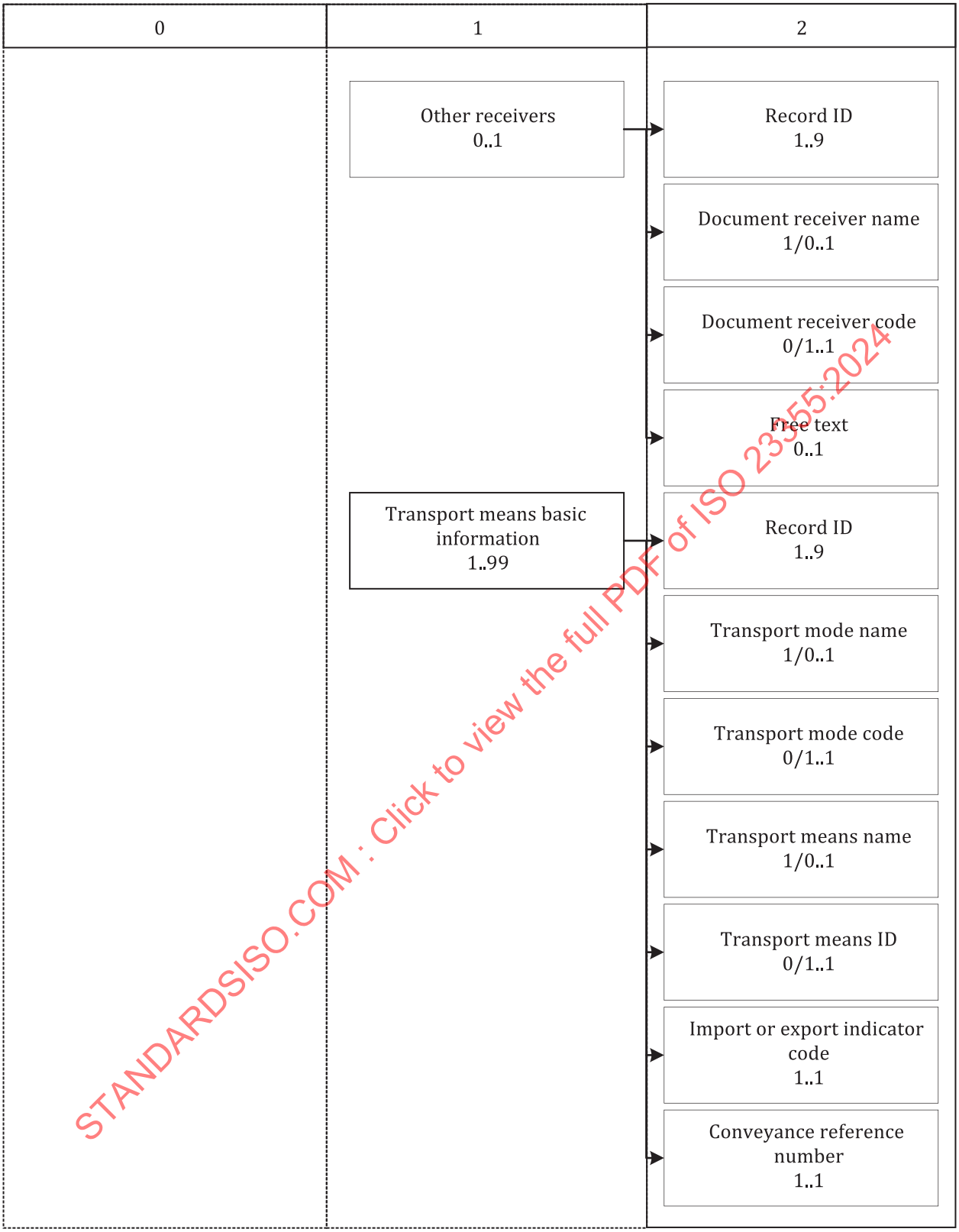


Figure 13 — Other receivers and part of transport means basic information of actual information message

6.2.2.2.4 Transport means basic information (continued)

Continued from Figure 13, transport means basic information of actual information message should contain the data element items and descriptions shown in Figure 14.

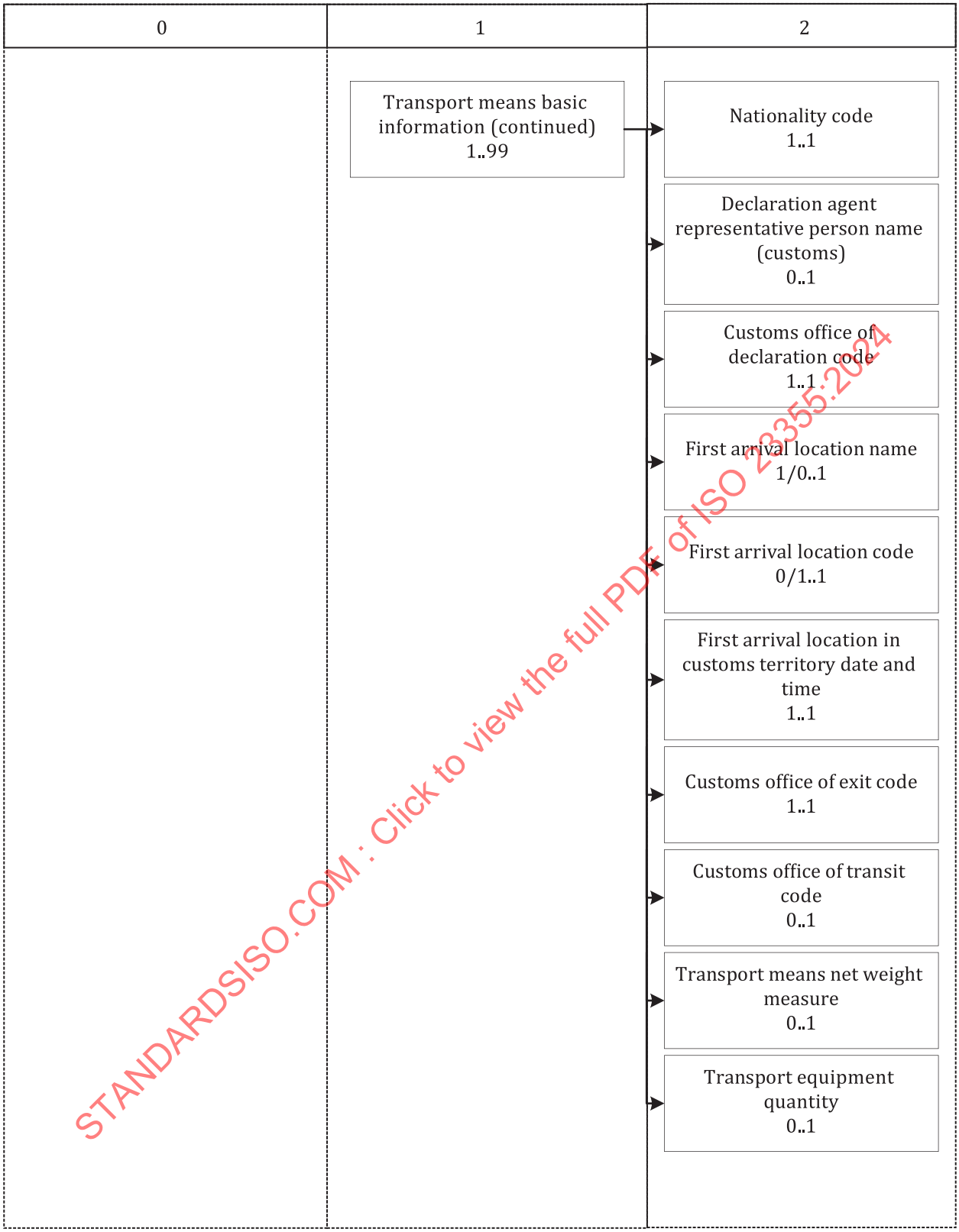


Figure 14 — Transport means basic information (continued) of actual information message

6.2.2.2.5 Transport means basic information (continued)

Continued from Figure 14, transport means basic information of actual information message should contain the data element items and descriptions shown in Figure 15.

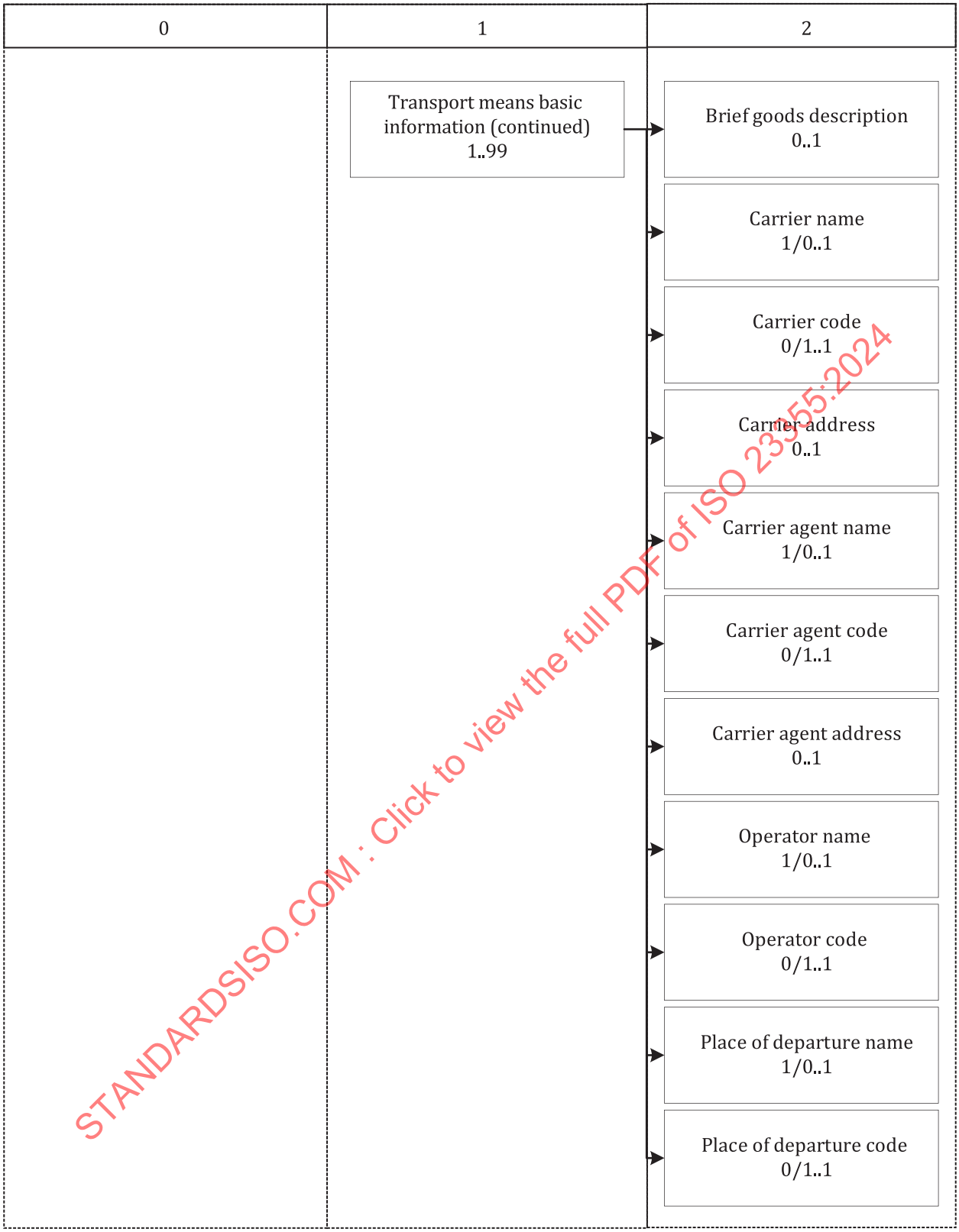


Figure 15 — Transport means basic information (continued) of actual information message

6.2.2.2.6 Transport means basic information (continued)

Continued from Figure 15, transport means basic information of actual information message should contain the data element items and descriptions shown in Figure 16.

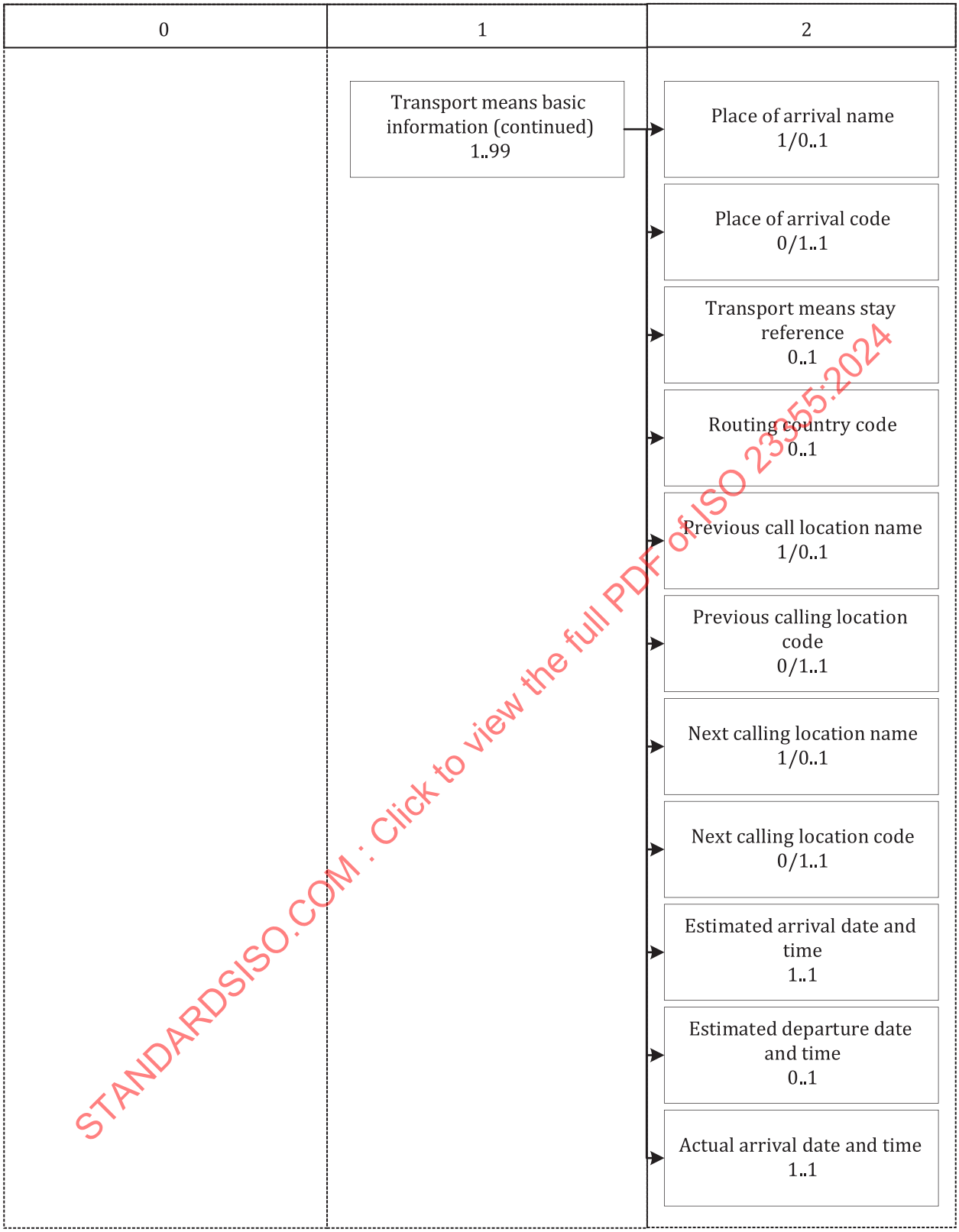


Figure 16 — Transport means basic information (continued) of actual information message

6.2.2.2.7 Transport means basic information (continued), calling location information and trailer

Continued from Figure 16, transport means basic information, calling location information and trailer of actual information message should contain the data element items and descriptions shown in Figure 17.

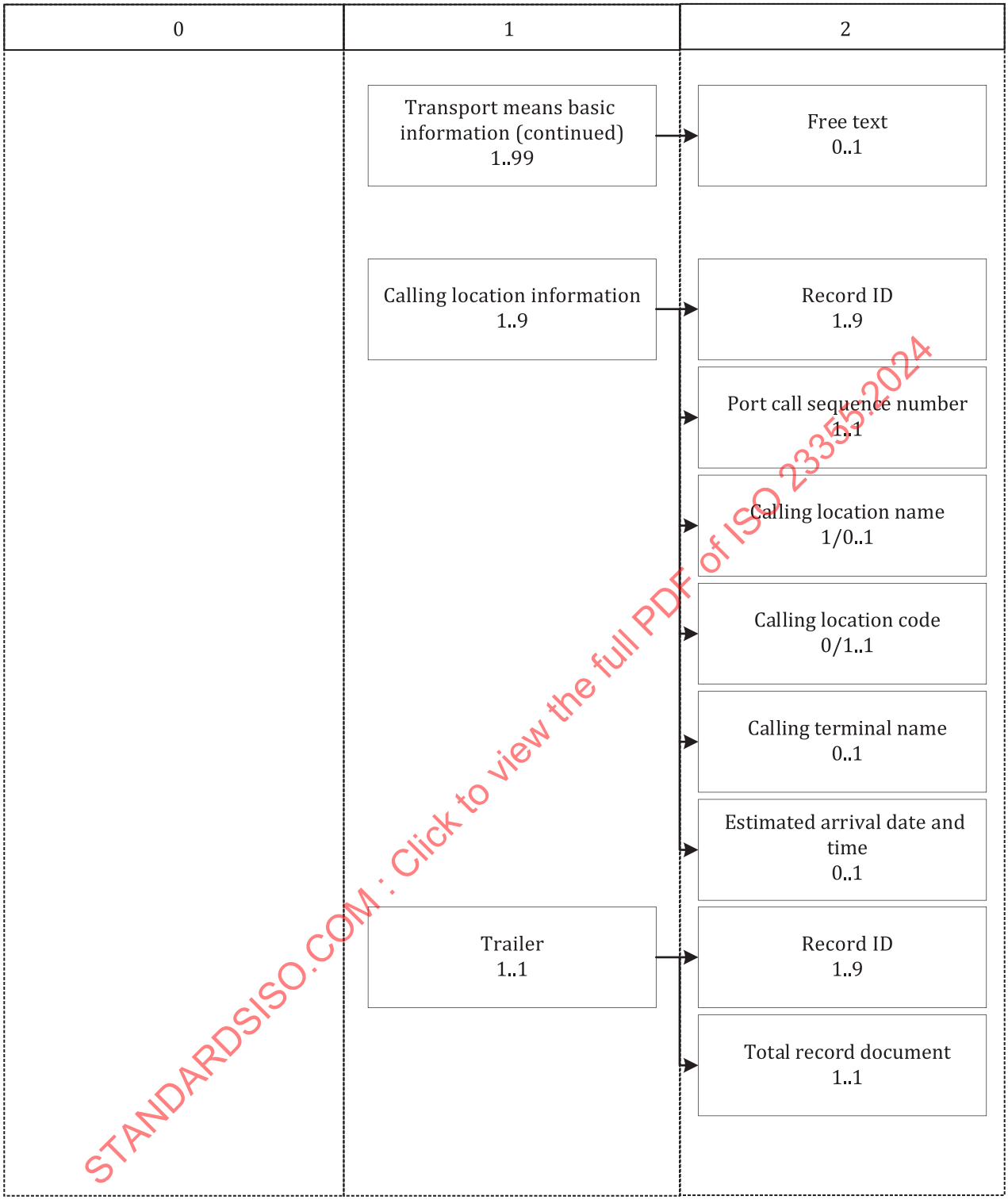


Figure 17 — Transport means basic information (continued), calling location information and trailer of actual information message

6.2.2.3 Message description

6.2.2.3.1 Header

Header of actual information message is shown in Table 9.

Table 9 — Header of actual information message

Record 00				M
No.	**Name**	**Format**	**Unit/code of measurement**	**Constraint**
1	Record ID	n..2	Record type is 00.	M
2	Message type code	an..6	Same as UNCL 1001 code ID	M
3	Document description	an..35		O
4	Document function code	an..1	9 - original, 2 - addition, 3 - deletion, 4 - change	M
5	Document sender name	an..35		M/O
6	Document sender code	an..17		O/M
7	Document receiver name	an..512		M/O
8	Document receiver code	an..17		O/M
9	Document creation date and time	an..19	CCYYMMDDHHMMZHHMM	M
10	Document issue date and time	an..19	CCYYMMDDHHMMZHHMM	M
11	Free text	an..512		O

6.2.2.3.2 Other receivers

Other receivers of actual information message are shown in Table 10.

Table 10 — Other receivers of actual information message

Record 01				O
No.	**Name**	**Format**	**Unit/code of measurement**	**Constraint**
1	Record ID	n..2	Record type is 01.	M
2	Document receiver name	an..512		M/O
3	Document receiver code	an..17		O/M
4	Free text	an..512		O

6.2.2.3.3 Transport means basic information

Transport means basic information of actual information message is shown in Table 11.

Table 11 — Transport means basic information of actual information message

Record 10				M
No.	**Name**	**Format**	**Unit/code of measurement**	**Constraint**
1	Record ID	n..2	Record type is 10.	M
2	Transport mode name	an..17		M/O
3	Transport mode code	an..1		O/M
4	Transport means name	an..35		M/O
5	Transport means ID	an..35	Ship is IMO number, aircraft is aircraft registration number, railway is train number, and vehicle is engine number + vehicle shelf number.	O/M
6	Import or export indicator code	an..1	I-Import, E-Export	M
7	Conveyance reference number	an..17		M
8	Nationality code	an..3		M
9	Declaration agent representative person name	an..35		O
10	Customs office of declaration code	an..35		M

Table 11 *(continued)*

Record 10				M
No.	**Name**	**Format**	**Unit/code of measurement**	**Constraint**
11	First arrival location name	an..256		M/O
12	First arrival location code	an..35		O/M
13	First arrival location in customs territory date and time	an..19		M
14	Customs office of exit code	an..35		M
15	Customs office of transit code	an..35		O
16	Transport means net weight measure	n..14	Unit: Ton (t)	O
17	Transport equipment quantity	n..6	Unit: TEU	O
18	Brief goods description	an..256		O
19	Carrier name	an..512		M/O
20	Carrier code	an..17		O/M
21	Carrier address	an..512		O
22	Carrier agent name	an..512		M/O
23	Carrier agent code	an..17		O/M
24	Carrier agent address	an..512		O
25	Operator name	an..35		M/O
26	Operator code	an..17		O/M
27	Place of departure name	an..256		M/O
28	Place of departure code	an..35		O/M
29	Place of arrival name	an..256		M/O
30	Place of arrival code	an..35		O/M
31	Transport means stay reference	an..35		O
32	Routing country code	an..2		O
33	Previous calling location name	an..256		M/O
34	Previous calling location code	an..35		O/M
35	Next calling location name	an..256		M/O
36	Next calling location code	an..35		O/M
37	Estimated arrival date and time	an..19	CCYYMMDDHHMMZHHMM	M
38	Estimated departure date and time	an..19	CCYYMMDDHHMMZHHMM	O
39	Actual arrival date and time	an..19	CCYYMMDDHHMMZHHMM	M
40	Free text	an..512		O

6.2.2.3.4 Calling location information

Calling location information of actual information message is shown in Table 12.

Table 12 — Calling location information of actual information message

Record 20				M
No.	Name	Format	Unit/code of measurement	Constraint
1	Record ID	n..2	Record type is 20.	M
2	Port call sequence number	an..10		M
3	Calling location name	an..256		M/O
4	Calling location code	an..35		O/M
5	Calling terminal name	an..256		O
6	Estimated arrival date and time	an..19	CCYYMMDDHHMMZHHMM	O

6.2.2.3.5 Trailer

Trailer of actual information message is shown in Table 13.

Table 13 — Trailer of actual information message

Record 99				M
No.	Name	Format	Unit/code of measurement	Constraint
1	Record ID	n..2	Record type is 99.	M
2	Total record document	n..6	Including head record and trailer record	M

6.2.3 Arrival report message

6.2.3.1 Basic requirements

6.2.3.1.1 Message name: arrival report message.

6.2.3.1.2 Message sender: transportation enterprises, such as shipping companies, consignors and freight forwarders. Message receiver: destination units for transporting goods, such as ports, airports, railway stations, freight stations and regulatory authorities.

6.2.3.1.3 The message should provide the arrival information of transport means and goods.

6.2.3.2 Message structure

6.2.3.2.1 Overview

Arrival report message shall consist of header, other receivers, transport means basic information, transport document information, calling location information, goods loading/unloading record, goods item information, dangerous goods and reefer information, transport equipment information and trailer. Figure 18 shows the general overview of the message.

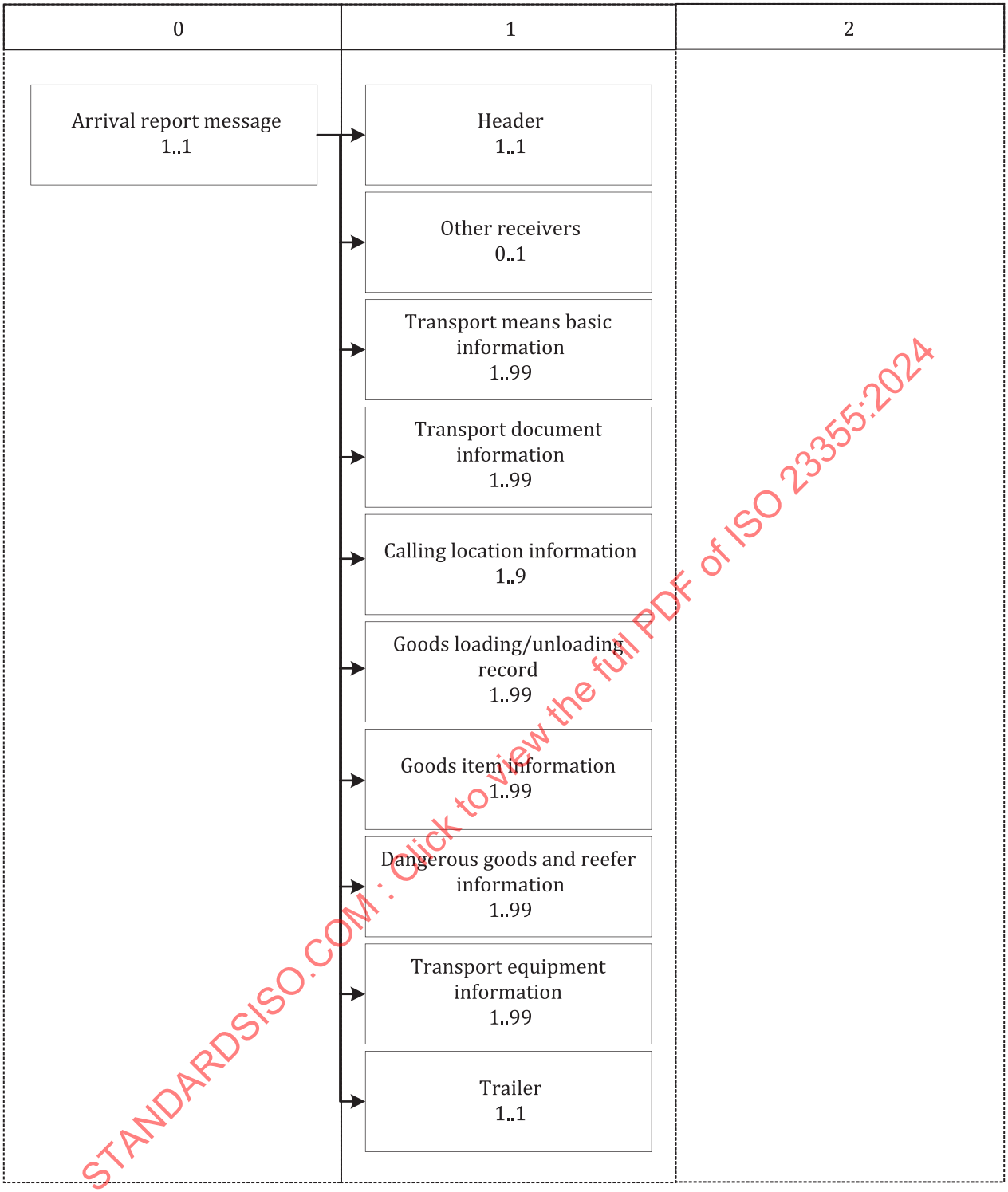


Figure 18 — Overview of actual report message

6.2.3.2.2 Header

The header of arrival report message should contain the data element items and descriptions shown in Figure 19.

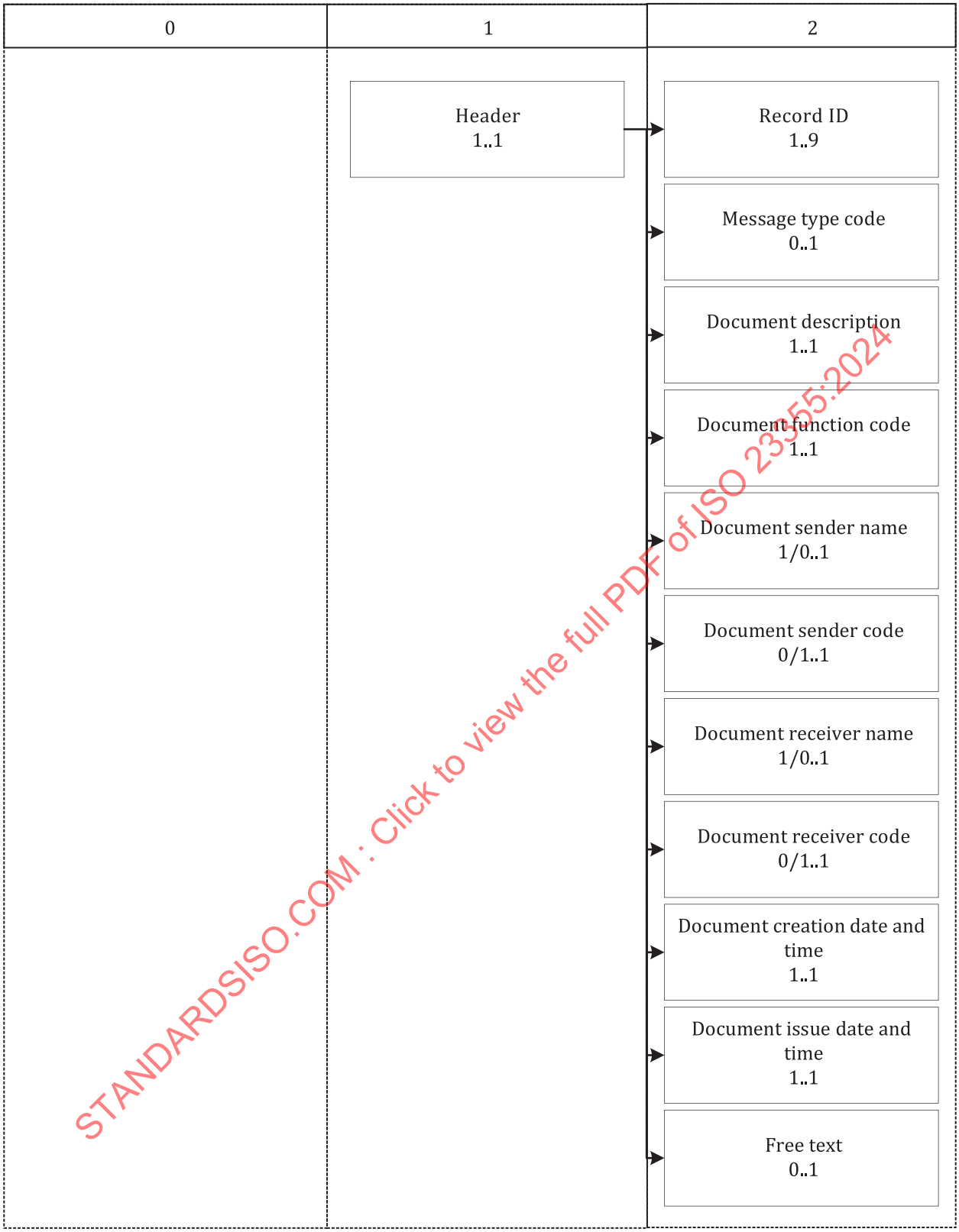


Figure 19 — Header of arrival report message

6.2.3.2.3 Other receivers and transport means basic information

Other receivers and transport means basic information of arrival report message should contain the data element items and descriptions shown in Figure 20.

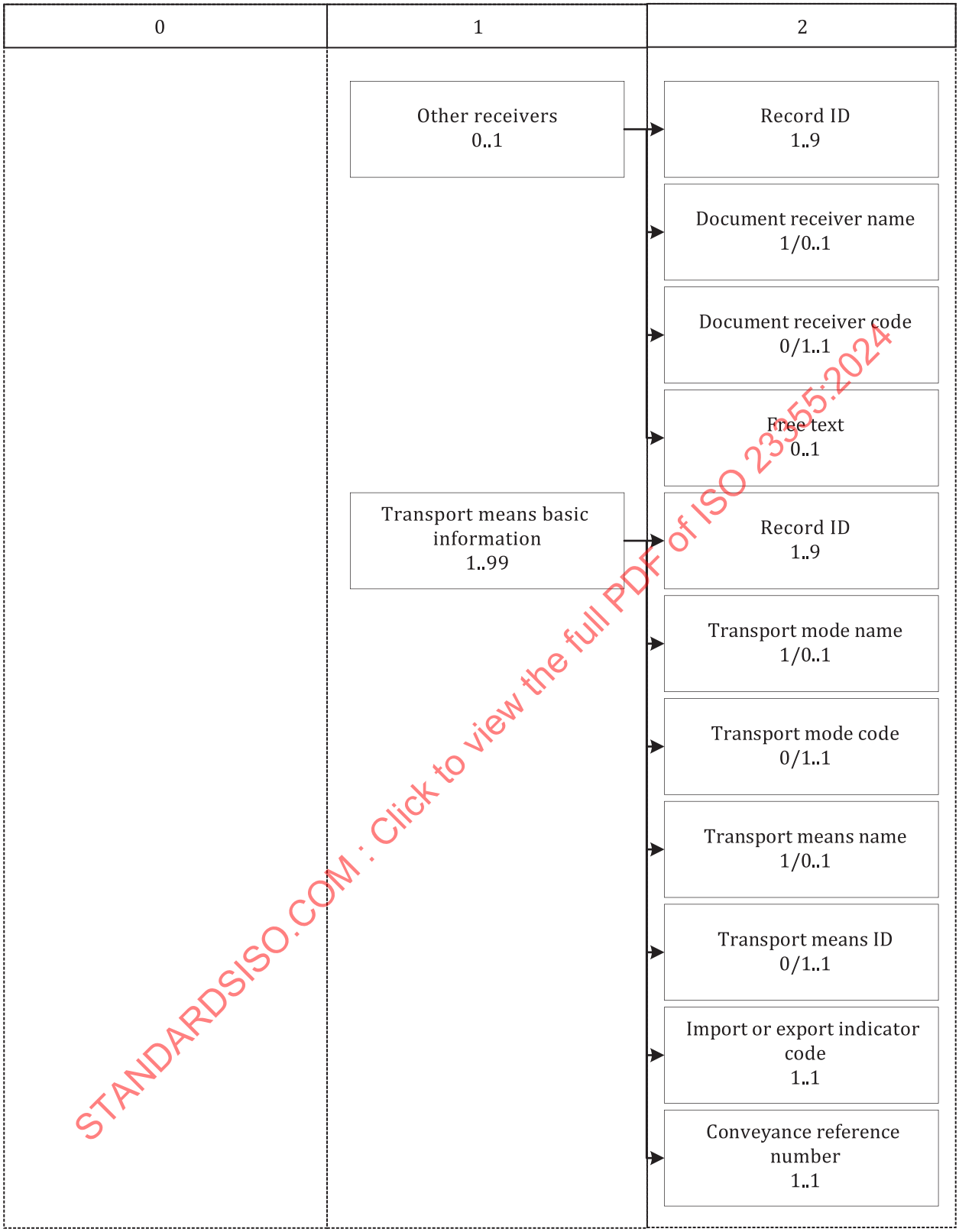


Figure 20 — Other receivers and part of transport means basic information of arrival report message

6.2.3.2.4 Transport means basic information (continued)

Continued from Figure 20, transport means basic information of arrival report message should contain the data element items and descriptions shown in Figure 21.

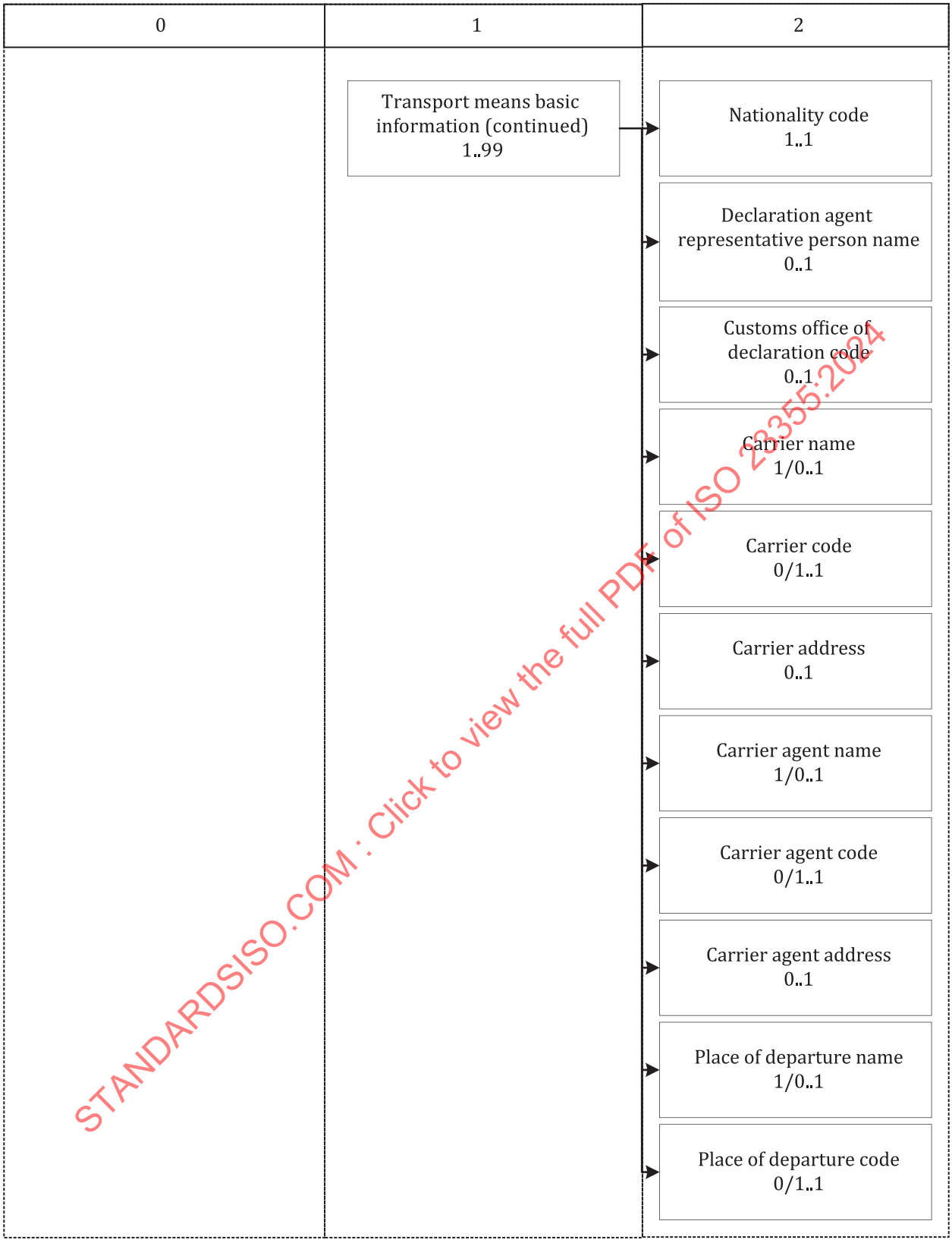


Figure 21 — Transport means basic information (continued) of arrival report message

6.2.3.2.5 Transport means basic information (continued) and transport document information

Continued from Figure 21, transport means basic information and transport document information of arrival report message should contain the data element items and descriptions shown in Figure 22.

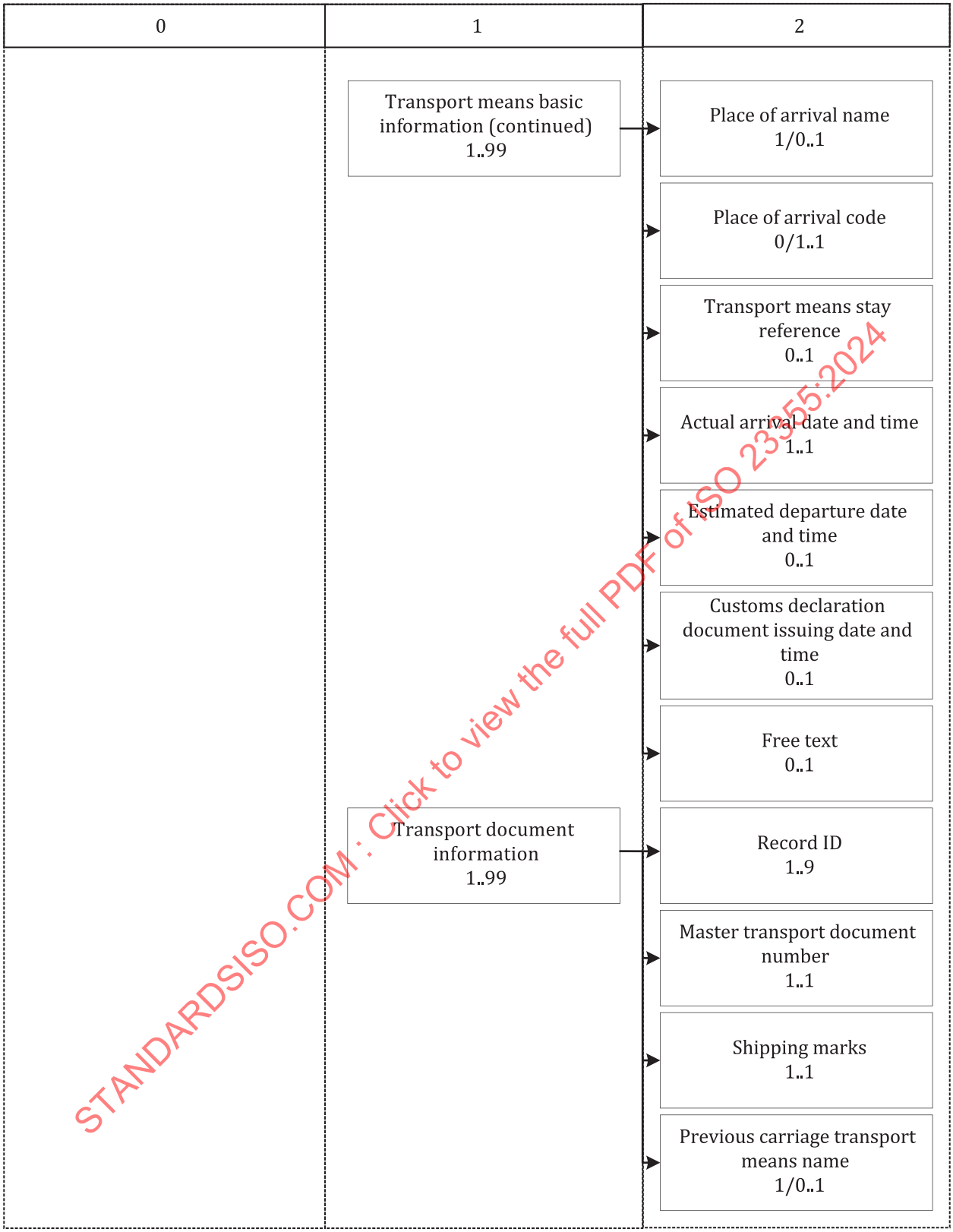


Figure 22 — Transport means basic information(continued) and transport document information of arrival report message

6.2.3.2.6 Transport document information (continued)

Continued from Figure 22, transport document information of arrival report message should contain the data element items and descriptions shown in Figure 23.

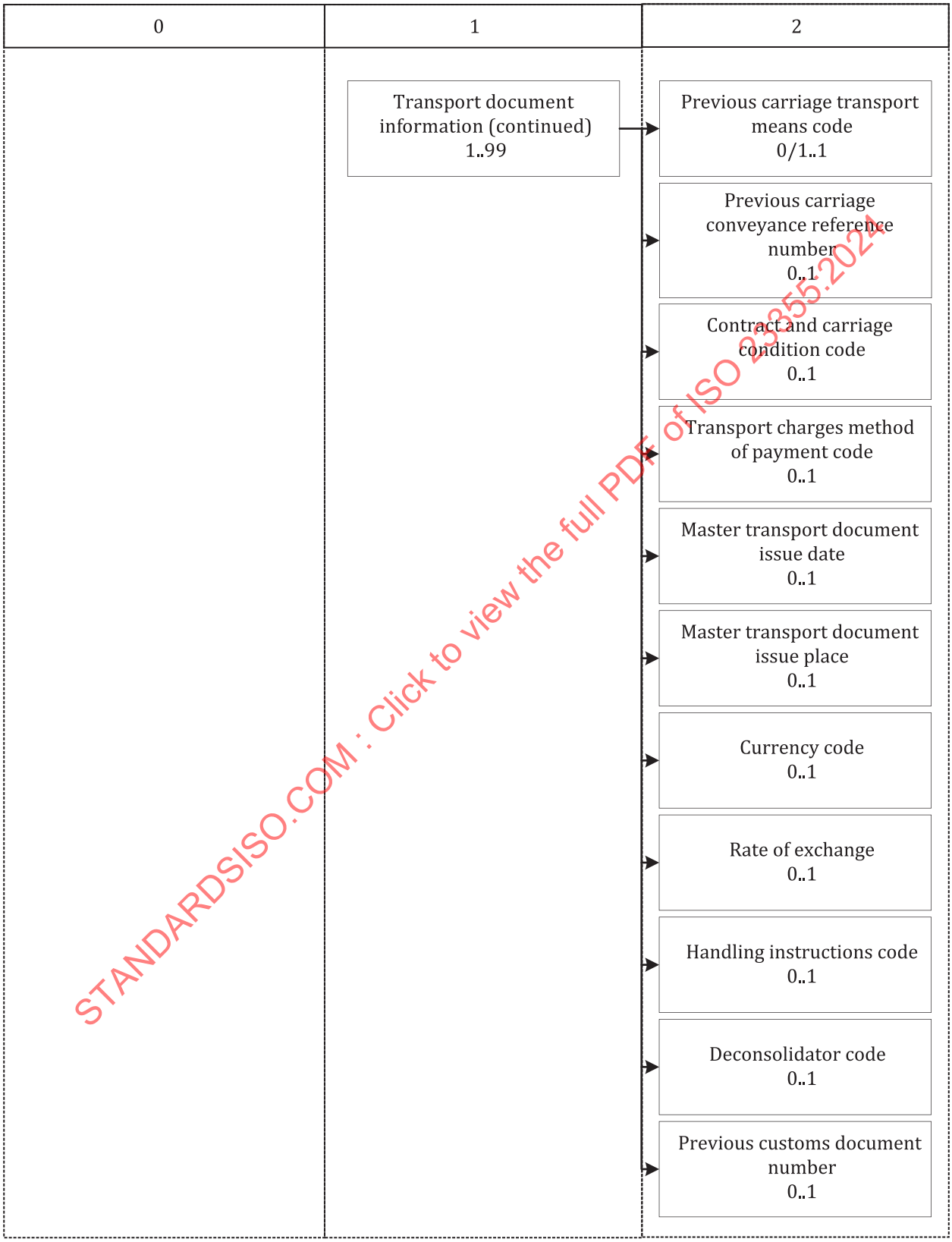


Figure 23 — Transport document information (continued) of arrival report message

6.2.3.2.7 Transport document information (continued) and calling location information

Continued from Figure 23, transport document information and calling location information of arrival report message should contain the data element items and descriptions shown in Figure 24.

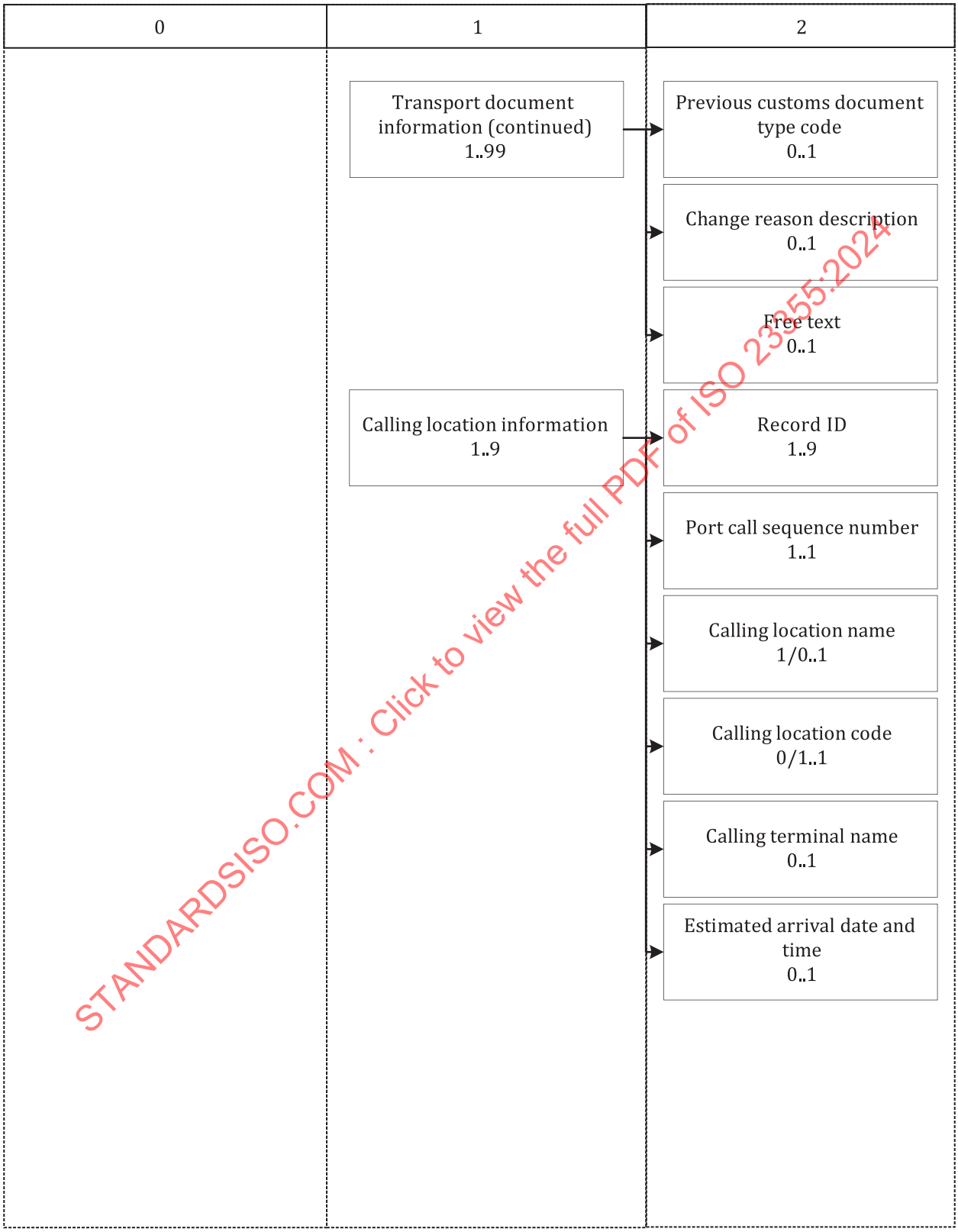


Figure 24 — Transport document information (continued) and calling location information of arrival report message

6.2.3.2.8 Goods loading/unloading record

Goods loading/unloading record of arrival report message should contain the data element items and descriptions shown in Figure 25.

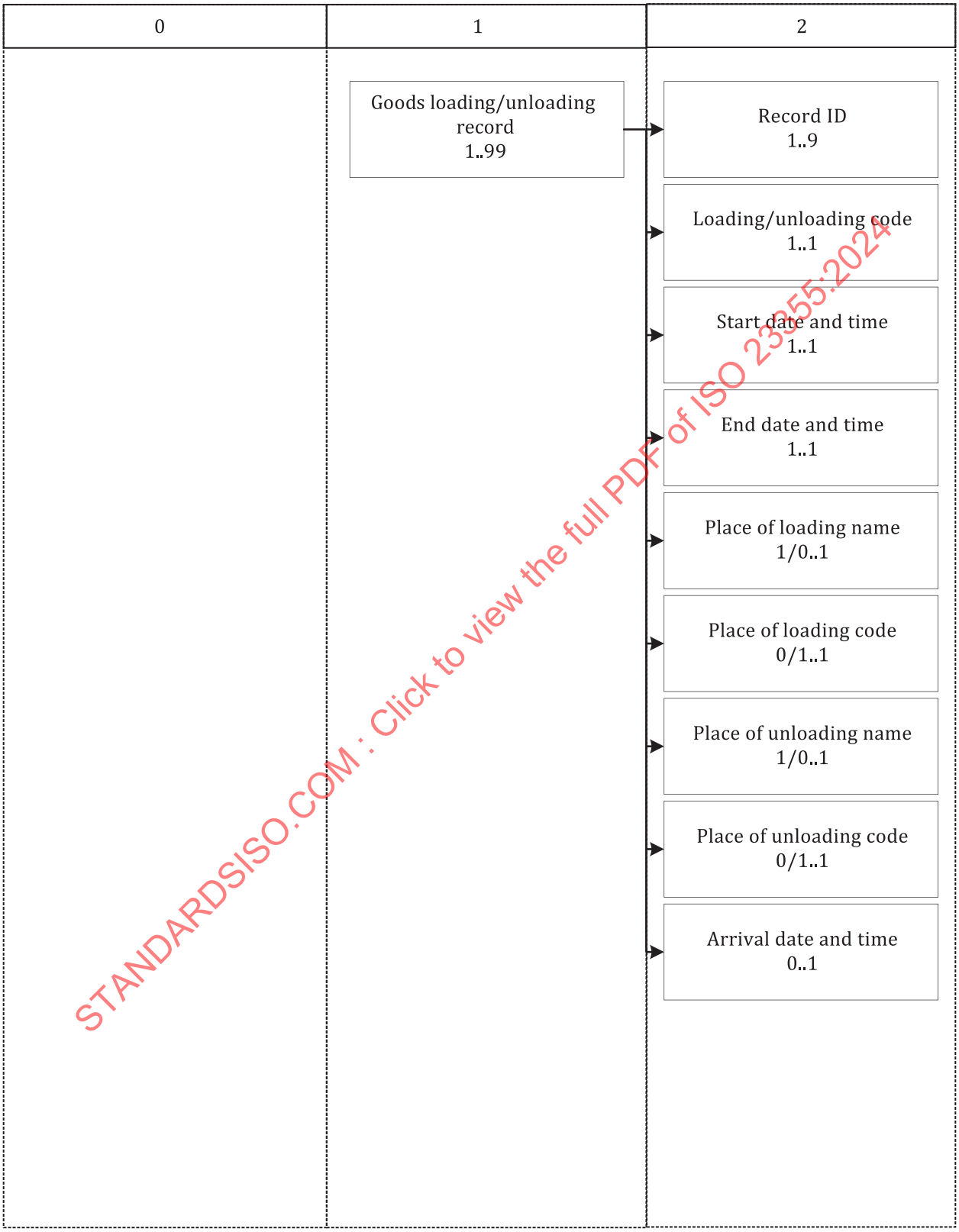


Figure 25 — Goods loading/unloading record of arrival report message

6.2.3.2.9 Goods item information

Goods item information of arrival report message should contain the data element items and descriptions shown in Figure 26.

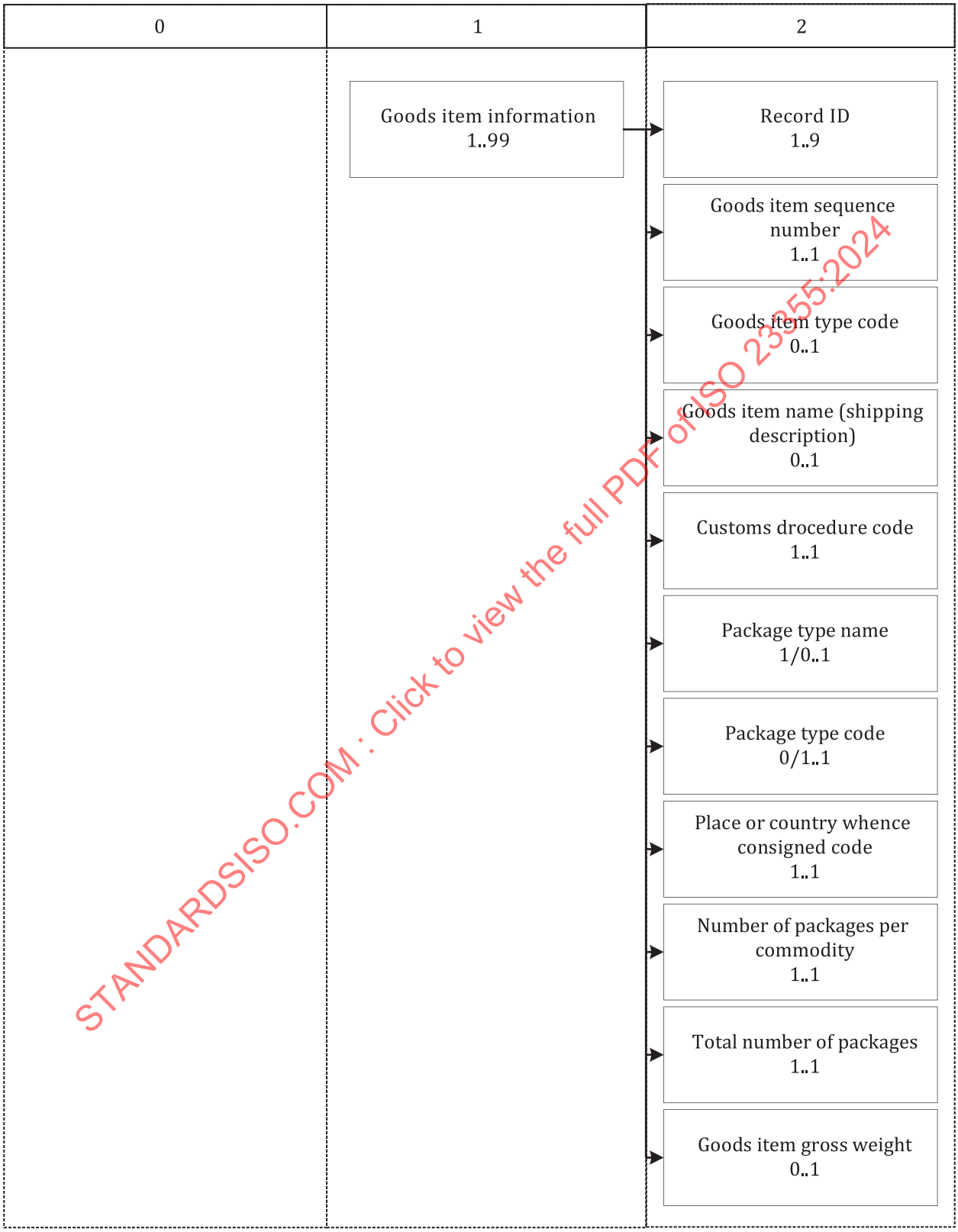


Figure 26 — Goods item information of arrival report message

6.2.3.2.10 Goods item information (continued) and dangerous goods and reefer information

Continued from Figure 26, goods item information and dangerous goods and reefer information of arrival report message should contain the data element items and descriptions shown in Figure 27.

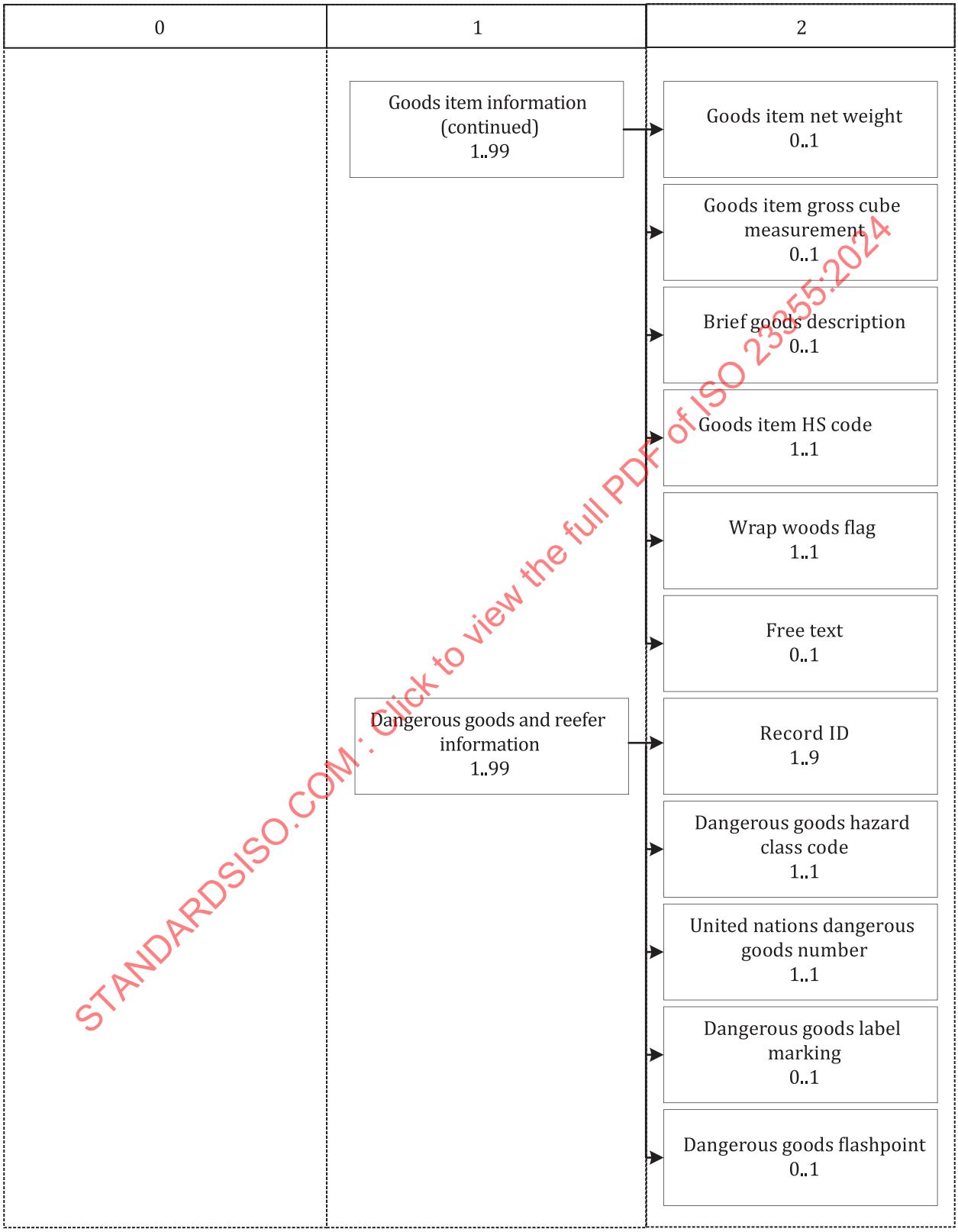


Figure 27 — Goods item information (continued) and dangerous goods and reefer information of arrival report message

6.2.3.2.11 Dangerous goods and reefer information (continued)

Continued from Figure 27, dangerous goods and reefer information of arrival report message should contain the data element items and descriptions shown in Figure 28.

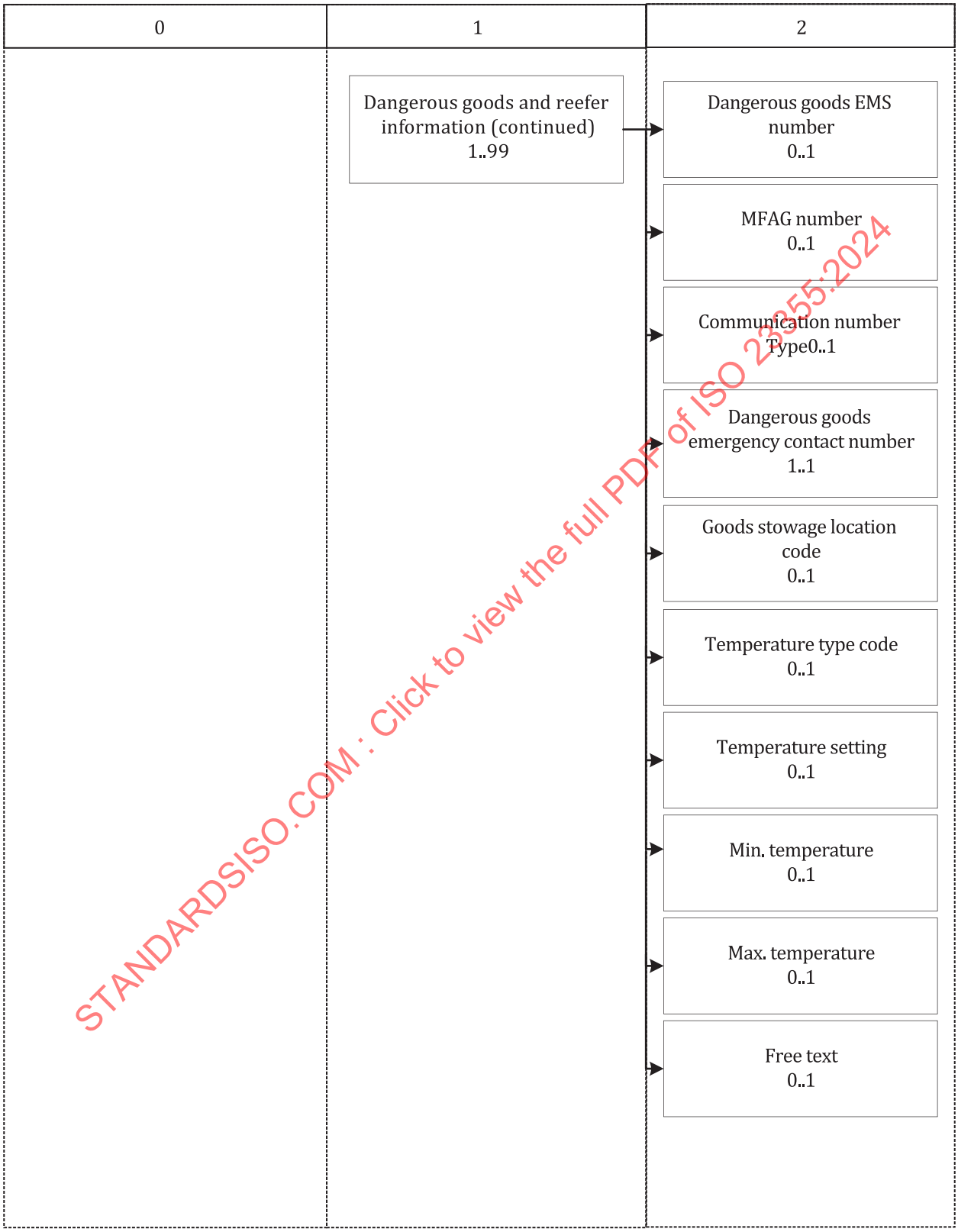


Figure 28 — Dangerous goods and reefer information (continued) of arrival report message

6.2.3.2.12 Transport equipment information

Transport equipment information of arrival report message should contain the data element items and descriptions shown in Figure 29.

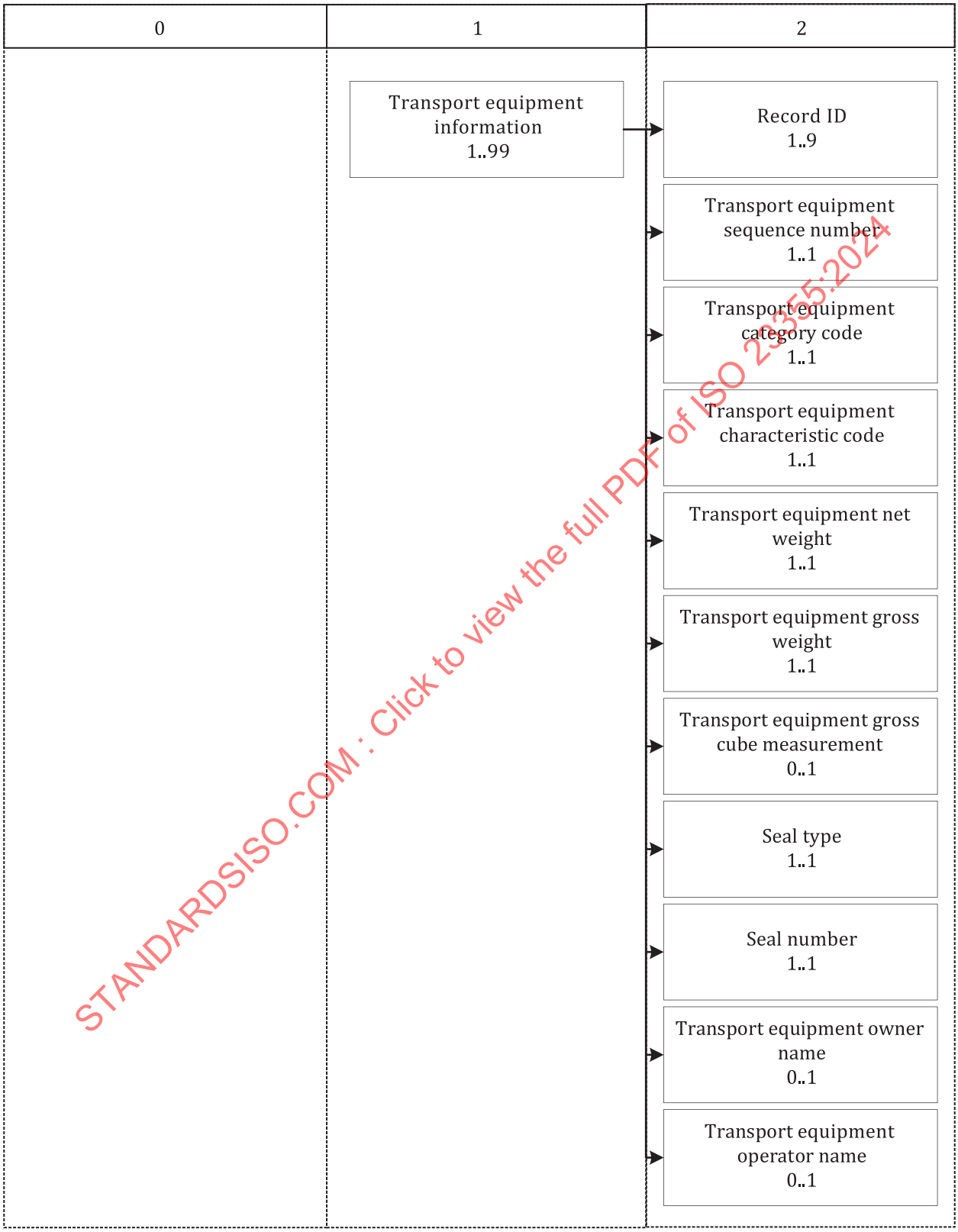


Figure 29 — Transport equipment information of arrival report message

6.2.3.2.13 Trailer

The trailer of arrival report message should contain the data element items and descriptions shown in Figure 30.

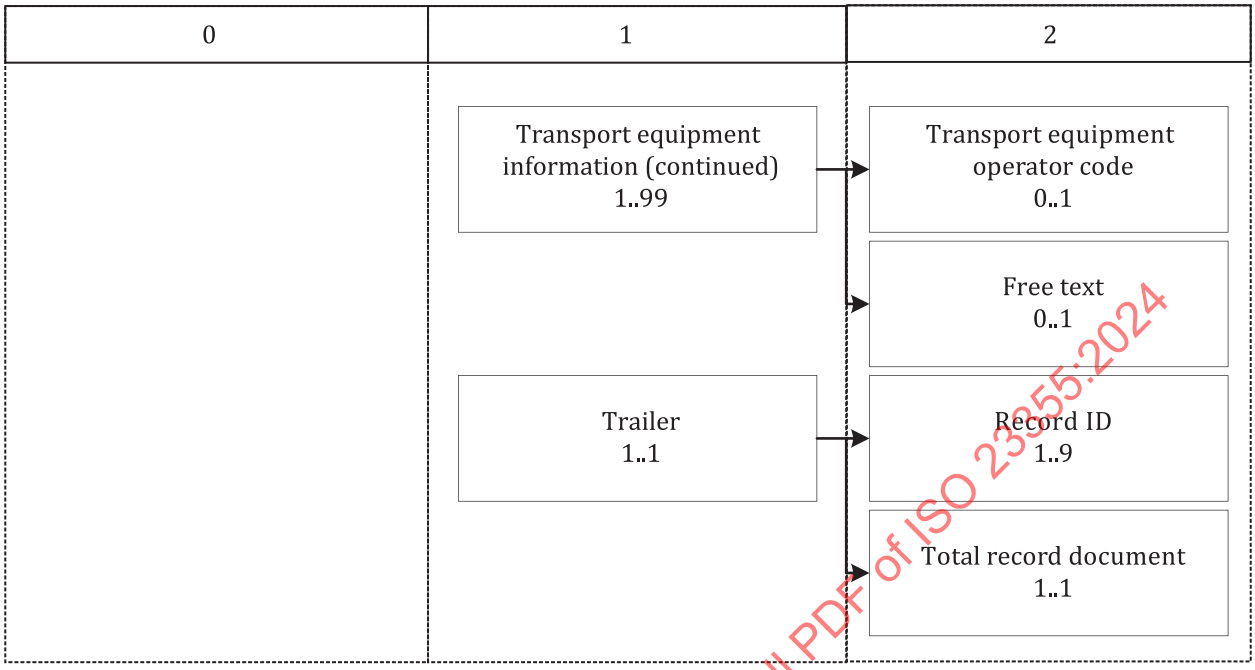


Figure 30 — Trailer of arrival report message

6.2.3.3 Message description

6.2.3.3.1 Header

Header of arrival report message is shown in Table 14.

Table 14 — Header of arrival report message

Record 00				M
No.	Name	Format	Unit/code of measurement	Constraint
1	Record ID	n..2	Record type is 00.	M
2	Message type code	an..6	Same as UNCL 1001 code ID	M
3	Document description	an..35		O
4	Document function code	an..1	9 - original, 2 - addition, 3 - deletion, 4 - change	M
5	Document sender name	an..35		M/O
6	Document sender code	an..17		O/M
7	Document receiver name	an..512		M/O
8	Document receiver code	an..17		O/M
9	Document creation date and time	an..19	CCYYMMDDHHMMZHHMM	M
10	Document issue date and time	an..19	CCYYMMDDHHMMZHHMM	M
11	Free text	an..512		O

6.2.3.3.2 Other receivers

Other receivers of arrival report message are shown in Table 15.

Table 15 — Other receivers of arrival report message

Record 01				O
No.	Name	Format	Unit/code of measurement	Constraint
1	Record ID	n..2	Record type is 01.	M
2	Document receiver name	an..512		M/O
3	Document receiver code	an..17		O/M
4	Free text	an..512		O

6.2.3.3.3 Transport means basic information

Transport means basic information of arrival report message is shown in Table 16.

Table 16 — Transport means basic information of arrival report message

Record 10				M
No.	Name	Format	Unit/code of measurement	Constraint
1	Record ID	n..2	Record type is 10.	M
2	Transport mode name	an..17		M/O
3	Transport mode code	an..1		O/M
4	Transport means name	an..35		M/O
5	Transport means ID	an..35	Ship is IMO number, aircraft is aircraft registration number, railway is train number, and vehicle is engine number + vehicle shelf number.	O/M
6	Import or export indicator code	an..1	I-Import, E-Export	M
7	Conveyance reference number	an..17		M
8	Nationality code	an..3		M
9	Declaration agent representative person name	an..35		O
10	Customs office of declaration code	an..35		M
11	Carrier name	an..512		M/O
12	Carrier code	an..17		O/M
13	Carrier address	an..512		O
14	Carrier agent name	an..512		M/O
15	Carrier agent code	an..17		O/M
16	Carrier agent address	an..512		O
17	Place of departure name	an..256		M/O
18	Place of departure code	an..35		O/M
19	Place of arrival name	an..256		M/O
20	Place of arrival code	an..35		O/M
21	Transport means stay reference	an..35		O
22	Actual arrival date and time	an..19	CCYYMMDDHHMMZHHMM	M
23	Estimated departure date and time	an..19	CCYYMMDDHHMMZHHMM	O
24	Customs declaration document issuing date and time	an..19		O
25	Free text	an..512		O

6.2.3.3.4 Transport document information

Transport document information of arrival report message is shown in Table 17.

Table 17 — Transport document information of arrival report message

Record 20				M
No.	Name	Format	Unit/code of measurement	Constraint
1	Record ID	n..2	Record type is 20.	M
2	Master transport document number	an..35		M
3	Shipping marks	an..512		M
4	Previous carriage transport means name	an..35		M/O
5	Previous carriage transport means ID	an..35		O/M
6	Previous carriage conveyance reference number	an..17		O
7	Contract and carriage condition code	an..3		O
8	Transport charges method of payment code	an..3		O
9	Master transport document issue date and time	an..19	CCYYMMDDHHMMZHHMM	O
10	Master transport document issue place	an..70		O
11	Currency code	an..3		O
12	Rate of exchange	n..18		O
13	Handling instructions code	an..3		O
14	Deconsolidator code	an..17	Fill in the code that the deconsolidator has filed with the customs in advance (organization code)	O
15	Previous customs document number	an..35		O
16	Previous customs document type code	an..3		O
17	Change reason description	an..35		O
18	Free text	an..512		O

6.2.3.3.5 Calling location information

Calling location information of arrival report message is shown in Table 18.

Table 18 — Calling location information of arrival report message

Record 30				M
No.	Name	Format	Unit/code of measurement	Constraint
1	Record ID	n..2	Record type is 30.	M
2	Port call sequence number	n..2		M
3	Calling location name	an..256		M/O
4	Calling location code	an..35		O/M
5	Calling terminal name	an..256		O
6	Estimated arrival date and time	an..19	CCYYMMDDHHMMZHHMM	O

6.2.3.3.6 Goods loading/unloading record

Goods loading/unloading record of arrival report message is shown in Table 19.

Table 19 — Goods loading/unloading record of arrival report message

Record 40				M
No.	Name	Format	Unit/code of measurement	Constraint
1	Record ID	n..2	Record type is 40.	M
2	Loading/unloading code	an..1	L-Loading,U-Unloading	M
3	Start date and time	an..19	CCYYMMDDHHMMZHHMM	M
4	End date and time	an..19	CCYYMMDDHHMMZHHMM	M
5	Place of loading name	an..256		M/O
6	Place of loading code	an..35		O/M
7	Place of unloading name	an..256		M/O
8	Place of unloading code	an..35		O/M
9	Arrival date and time	an..19	CCYYMMDDHHMMZHHMM	O

6.2.3.3.7 Goods item information

Goods item information of arrival report message is shown in Table 20.

Table 20 — Goods item information of arrival report message

Record 50				M
No.	Name	Format	Unit/code of measurement	Constraint
1	Record ID	n..2	Record type is 50.	M
2	Goods item sequence number	n..5		M
3	Goods item type code	an..8		O
4	Goods item name (shipping description)	an..512		O
5	Carrier split consignment indicator	n..1	0 - no, 1 - yes	M
6	Customs procedure code	an..3	22-export goods, 23-import goods 28-international transhipment, 24-transit goods.	M
7	Package type name	an..35		M/O
8	Package type code	an..17	For bulk goods, the number of pieces - "BB"	O/M
9	Place or country whence consigned code	an..35		M
10	Number of packages per commodity	n..8		M
11	Total number of packages	n..8	For bulk goods, the number of pieces - "1"	M
12	Goods item gross weight	n..14	Unit: Ton (t)	O
13	Goods item net weight	n..16	Unit: Ton (t)	O
14	Goods item gross cube measurement	n..9	Unit: Cubic metre (m^3)	O
15	Brief goods description	an..256		O
16	Goods item HS code	an..10		M
17	Free text	an..512		O

6.2.3.3.8 Dangerous goods and reefer information

Dangerous goods and reefer information of arrival report message is shown in Table 21.

Table 21 — Dangerous goods and reefer information of arrival report message

Record 60				M
No.	Name	Format	Unit/code of measurement	Constraint
1	Record ID	n..2	Record type is 60.	M
2	Dangerous goods hazard class code	an..7		M
3	United nations dangerous goods number	n..4		M
4	Dangerous goods label marking	an..512		O
5	Dangerous goods flashpoint	an..8	Unit: Celsius (°C)	O
6	Dangerous goods EMS number	an..6		O
7	MFAG number	an..4		O
8	Communication number type	an..3		O
9	Dangerous goods emergency contact number	an..35		O
10	Goods stowage location code	an..35		O
11	Temperature type code	an..3	CEL FAH	O
12	Temperature setting	n..15	CEL FAH	O
13	Min. Temperature	n..5	CEL FAH	O
14	Max. Temperature	n..5	CEL FAH	O
15	Free text	an..512		O

6.2.3.3.9 Transport equipment information

Transport equipment information of arrival report message is shown in Table 22.

Table 22 — Transport equipment information of arrival report message

Record 70				M
No.	Name	Format	Unit/code of measurement	Constraint
1	Record ID	n..2	Record type is 70.	M
2	Transport equipment sequence number	n..11	Adopt ISO 6346	M
3	Transport equipment category code	an..2	RR-Rail Car, TE-Road Trailer	M
4	Transport equipment characteristic code	an..10		M
5	Transport equipment net weight	n..5	KGM	M
6	Transport equipment gross weight	n..14	KGM	M
7	Transport equipment gross cube measurement	n..5	MTR	O
8	Seal type	an..1		M
9	Seal number	an..35		M
10	Transport equipment owner name	an..35		O
11	Transport equipment operator name	an..35		O
12	Transport equipment operator code	an..17		O
13	Free text	an..512		O

6.2.3.3.10 Trailer

Trailer of arrival report message is shown in Table 23.

Table 23 — Trailer of arrival report message

Record 99				M
No.	**Name**	**Format**	**Unit/code of measurement**	**Constraint**
1	Record ID	n..2	Record type is 99.	M
2	Total record document	n..6	Including head record and trailer record	M

6.2.4 Tally message

6.2.4.1 Basic requirements

6.2.4.1.1 Message name: tally message.

6.2.4.1.2 Message sender: transportation enterprises, such as shipping companies, consignors and freight forwarders. Message receiver: destination units for transporting goods, such as ports, airports, railway stations, freight stations and regulatory authorities.

6.2.4.1.3 The message should provide the information of goods tallying.

6.2.4.2 Message structure

6.2.4.2.1 Overview

Tally message shall consist of header, other receivers, transport means basic information, transport document information, despatch information, goods receipt information, calling location information, goods loading/unloading record, tally information, goods item information, dangerous goods and reefer information, transport equipment information and trailer. Figure 31 shows the general overview of the message .

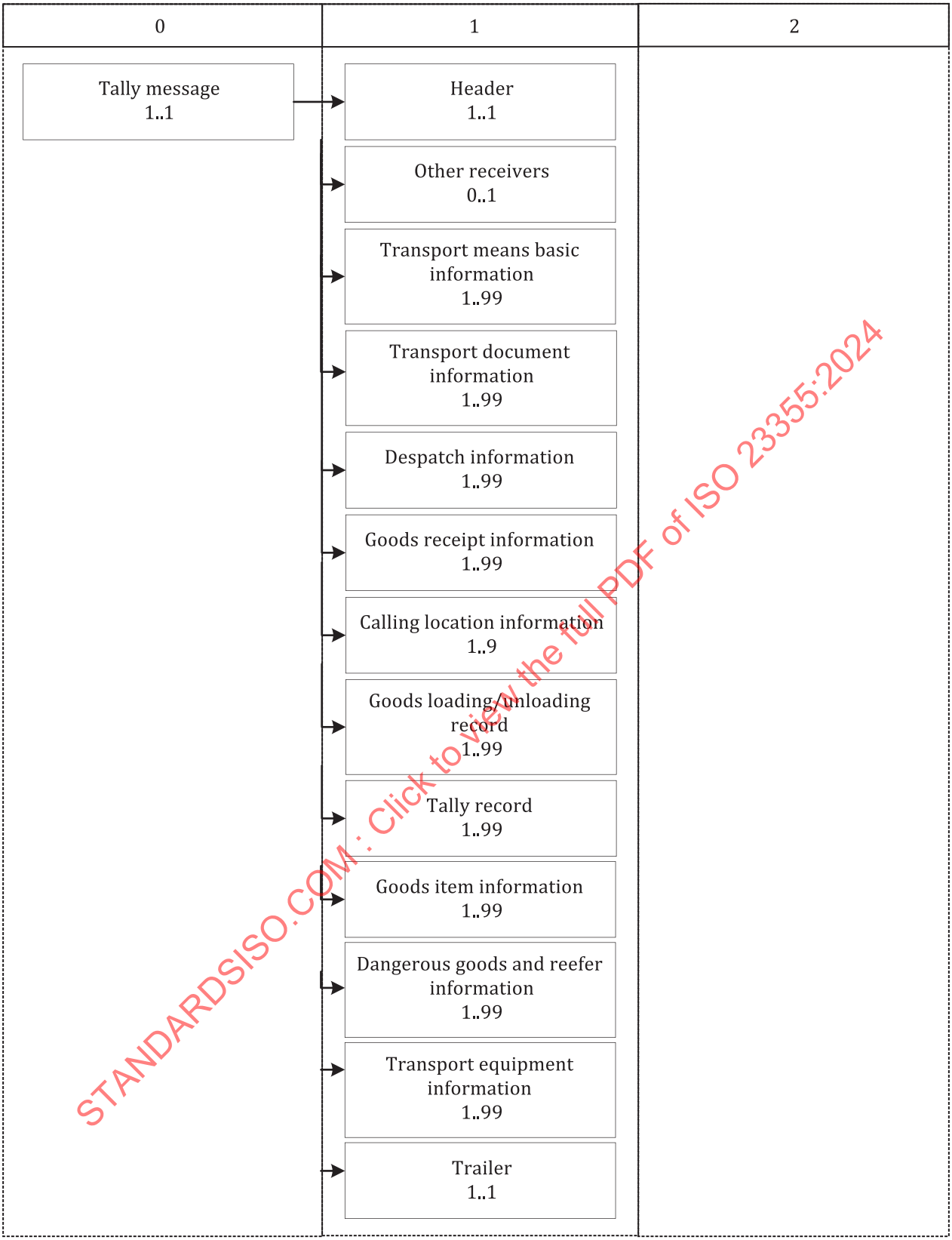


Figure 31 — Overview of tally message

6.2.4.2.2 Header

The header of tally message should contain the data element items and descriptions shown in Figure 32.

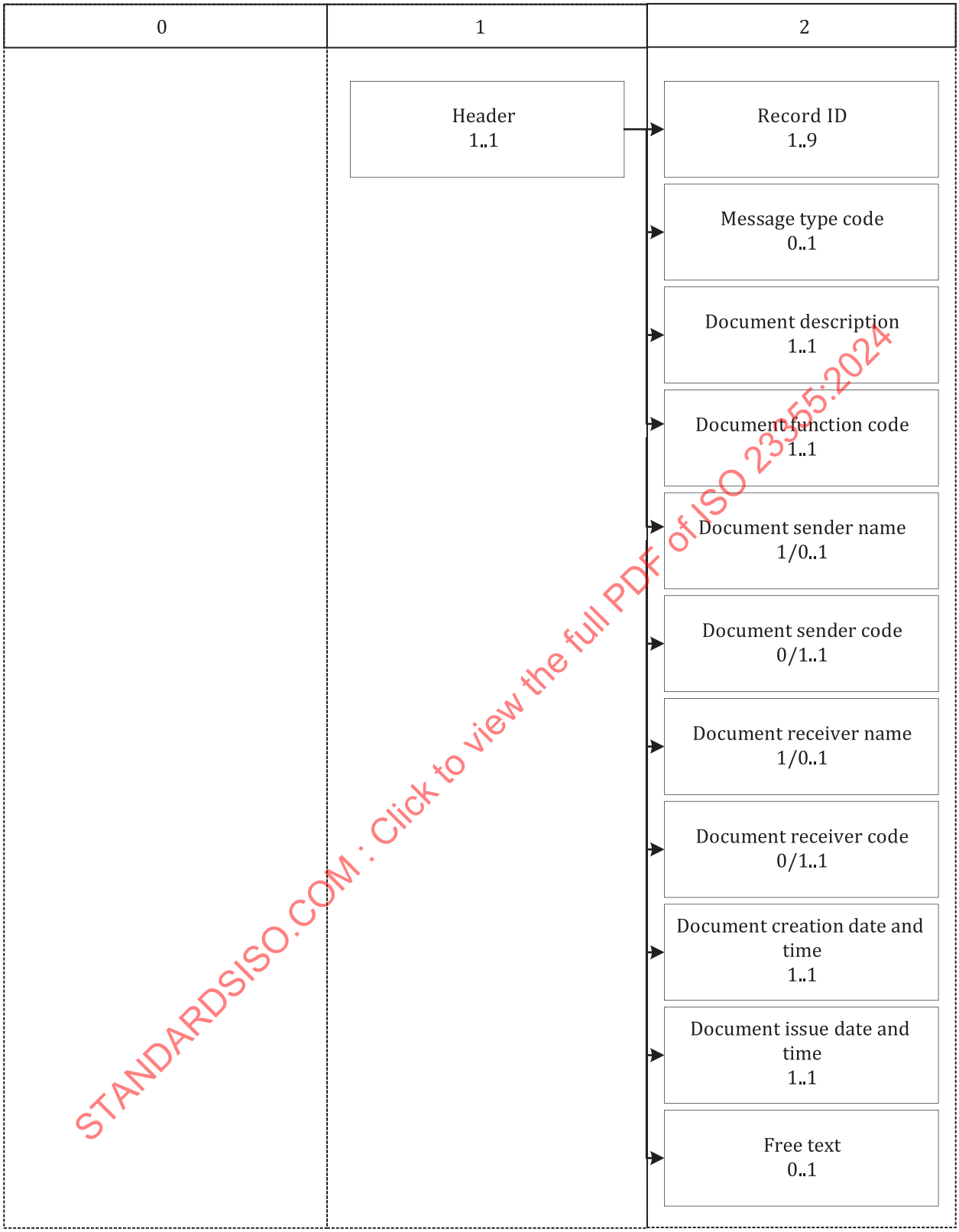


Figure 32 — Header of tally message

6.2.4.2.3 Other receivers and transport means basic information

Other receivers and transport means basic information of tally message should contain the data element items and descriptions shown in Figure 33.

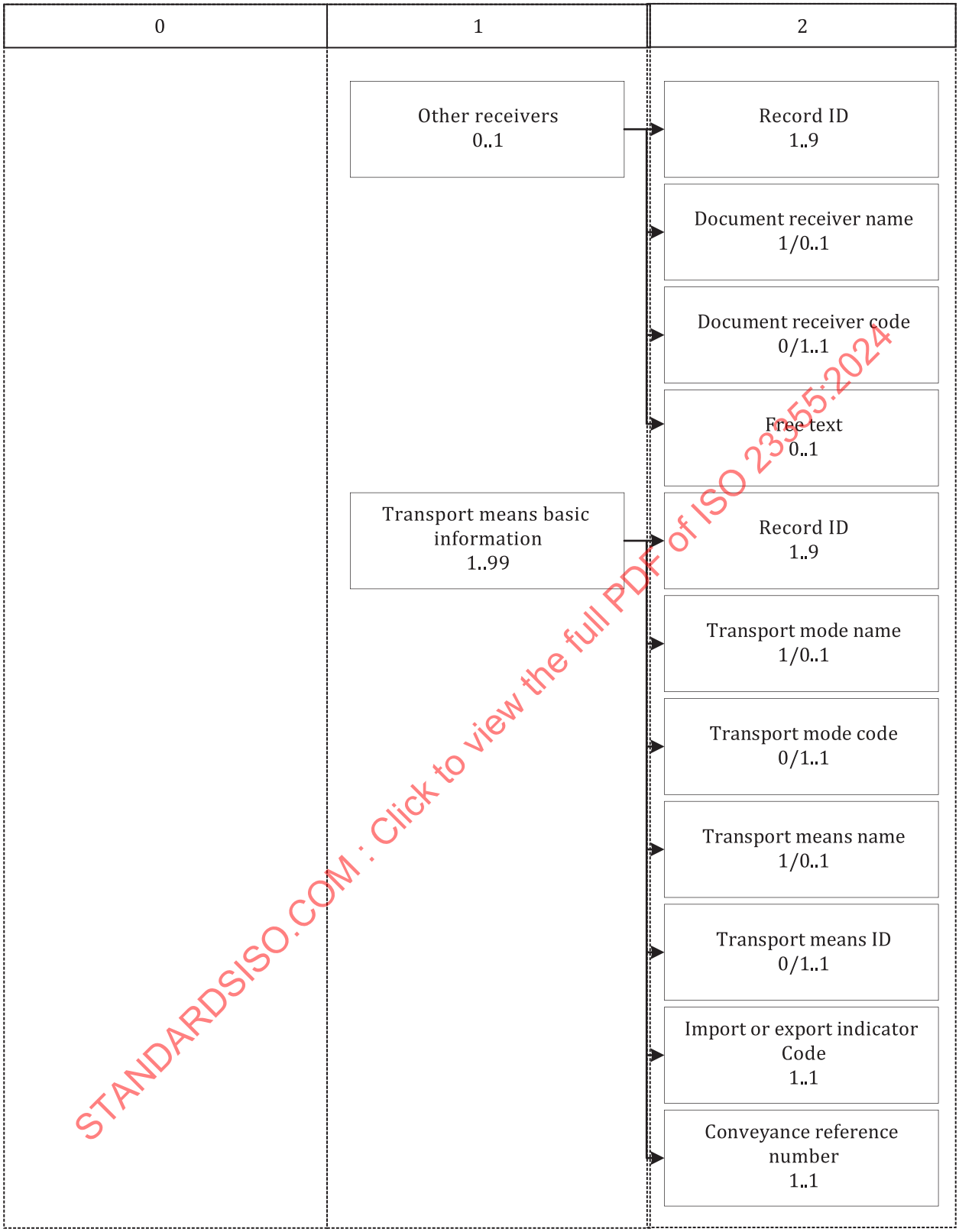


Figure 33 — Other receivers and transport means basic information of tally message

6.2.4.2.4 Transport means basic information (continued) and transport document information

Continued from Figure 33, transport means basic information and transport document information of tally message should contain the data element items and descriptions shown in Figure 34.

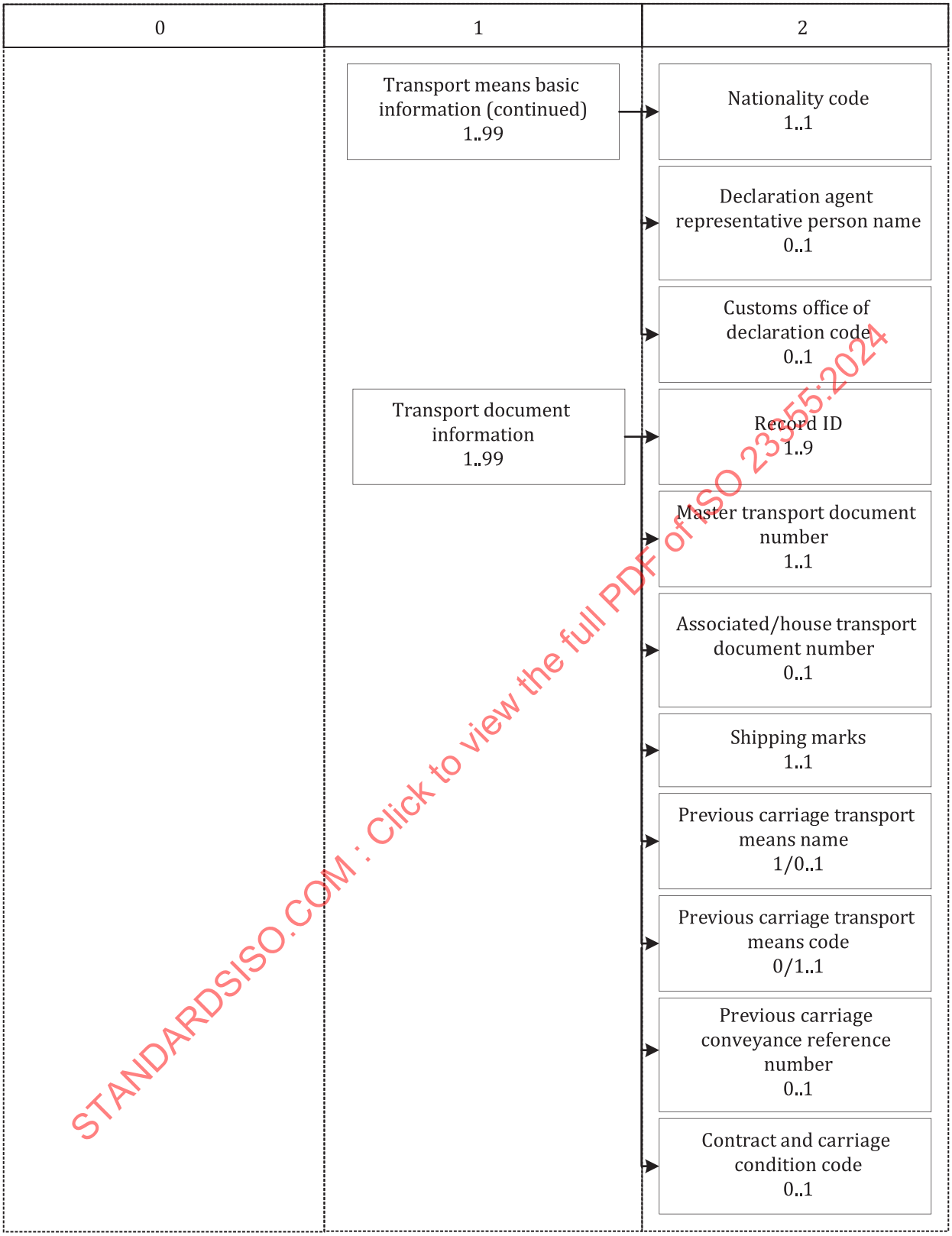


Figure 34 — Transport means basic information (continued) and transport document information of tally message

6.2.4.2.5 Transport document information (continued)

Continued from Figure 34, transport document information of tally message should contain the data element items and descriptions shown in Figure 35.

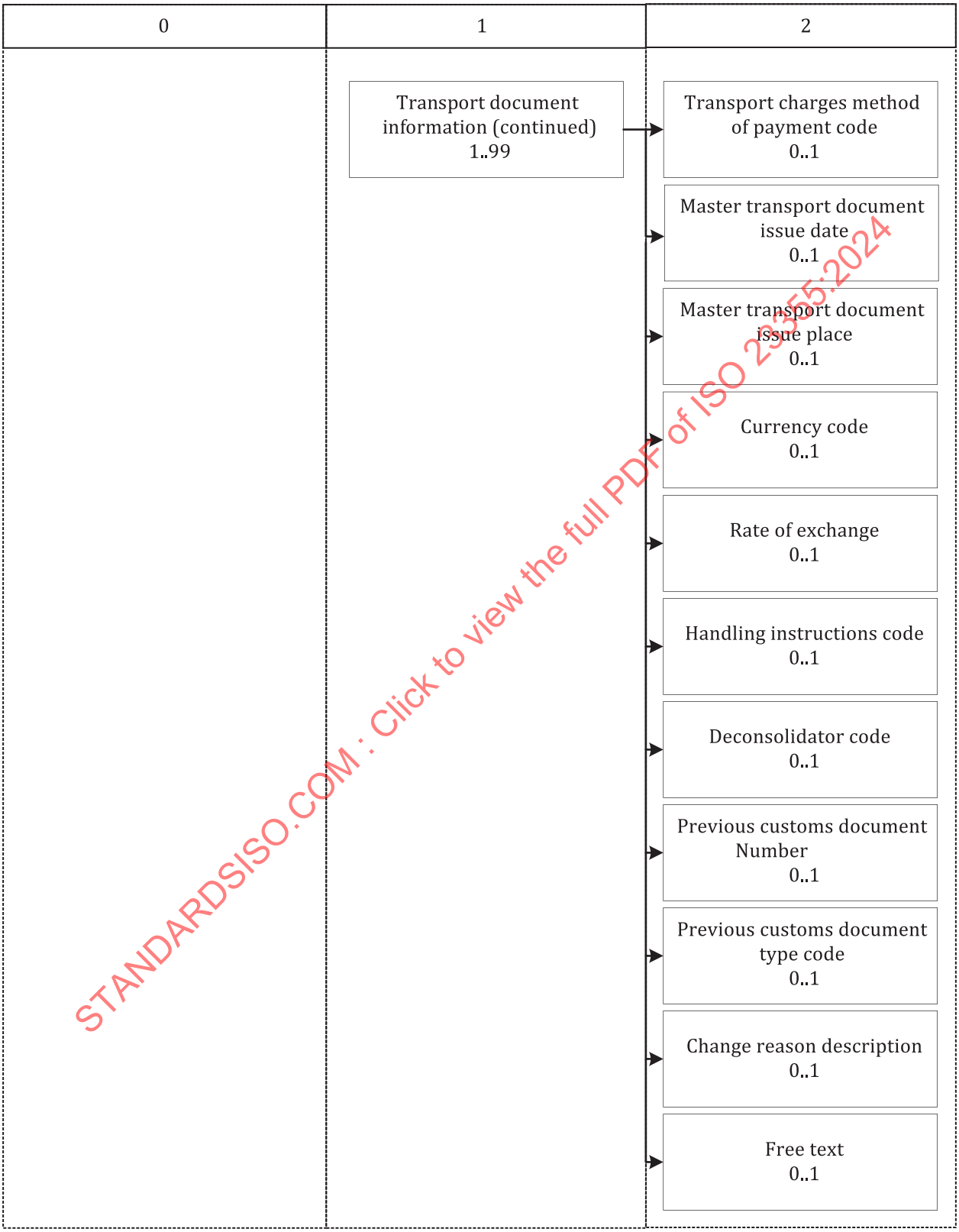


Figure 35 — Transport document information(continued) of tally message

6.2.4.2.6 Despatch information

Despatch information of tally message should contain the data element items and descriptions shown in Figure 36.

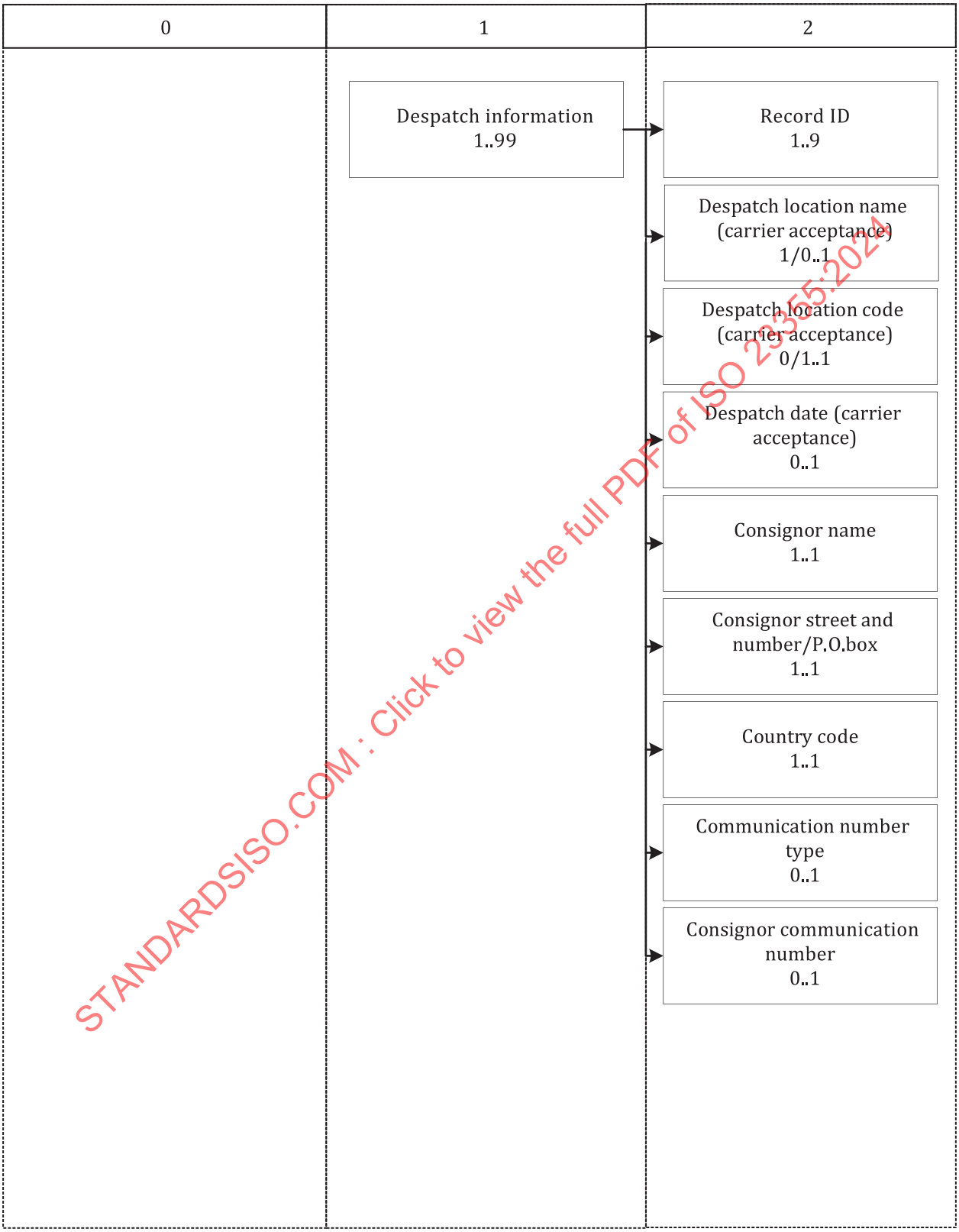


Figure 36 — Despatch information of tally message

6.2.4.2.7 Goods receipt information

Goods receipt information of tally message should contain the data element items and descriptions shown in Figure 37.

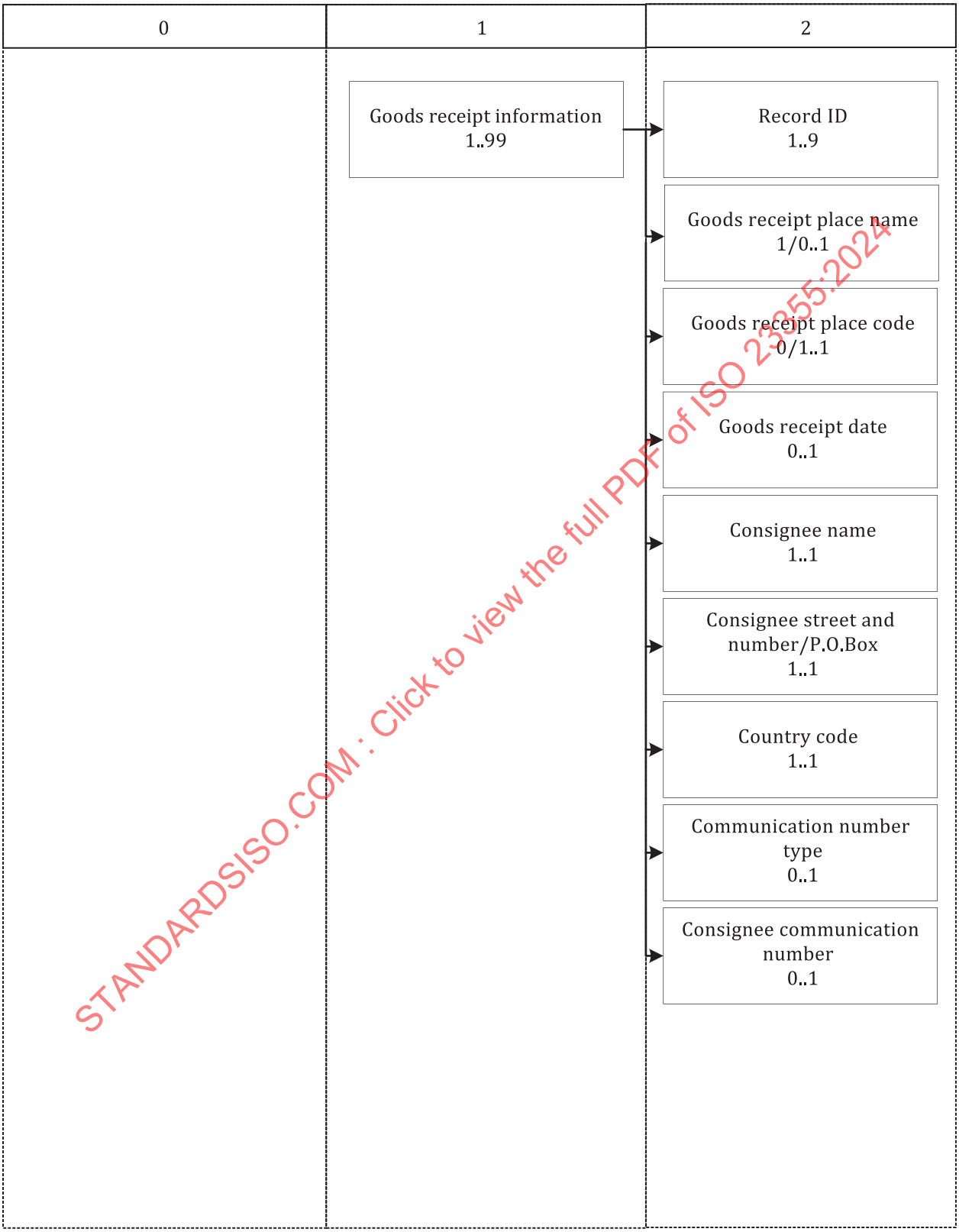


Figure 37 — Goods receipt information of tally message

6.2.4.2.8 Calling location information and goods loading/unloading record

Calling location information and goods loading/unloading record of tally message should contain the data element items and descriptions shown in Figure 38.

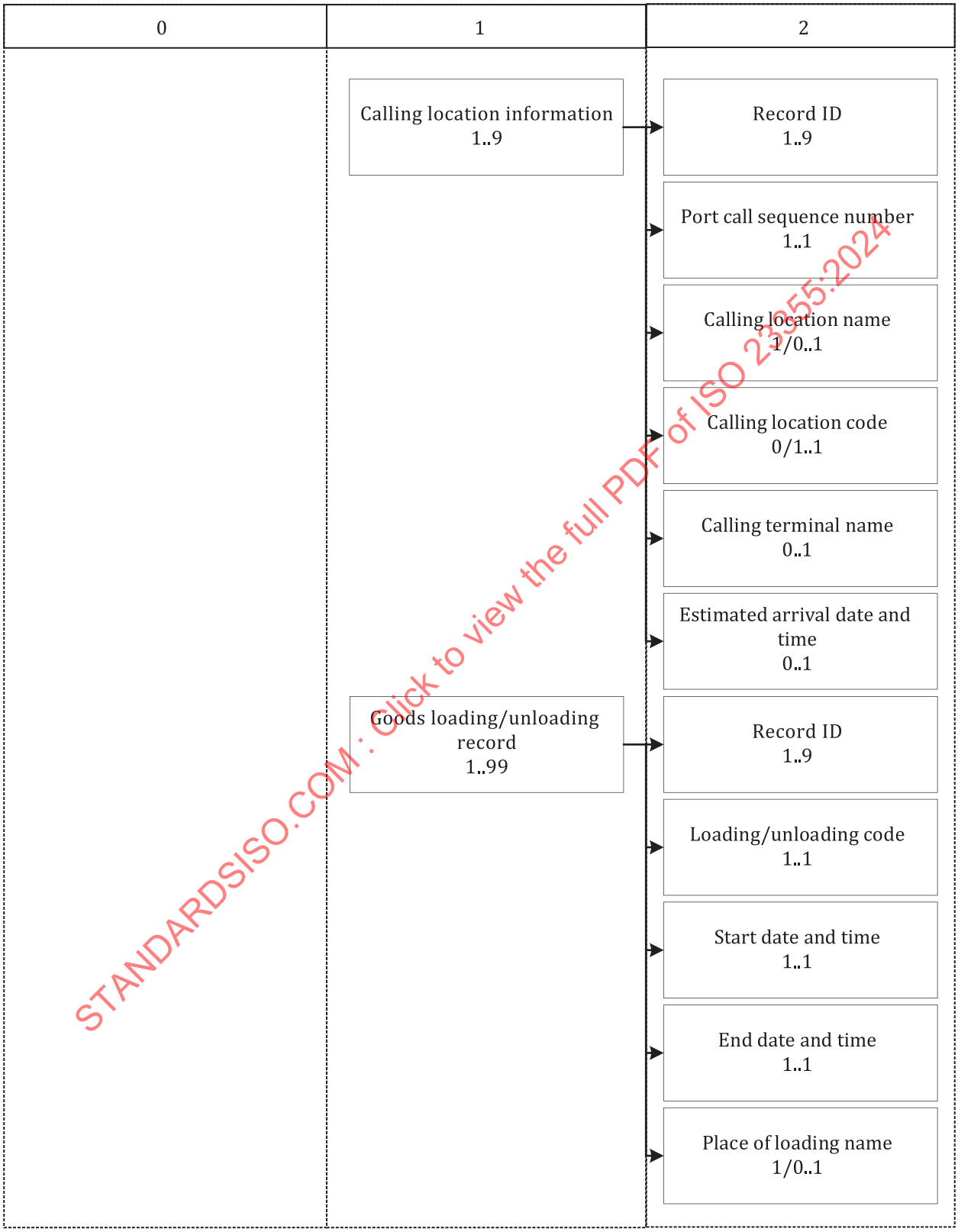


Figure 38 — Calling location information and goods loading/unloading record of tally message

6.2.4.2.9 Goods loading/unloading record (continued) and tally record

Continued from Figure 38, goods loading/unloading record and tally record of tally message should contain the data element items and descriptions shown in Figure 39.

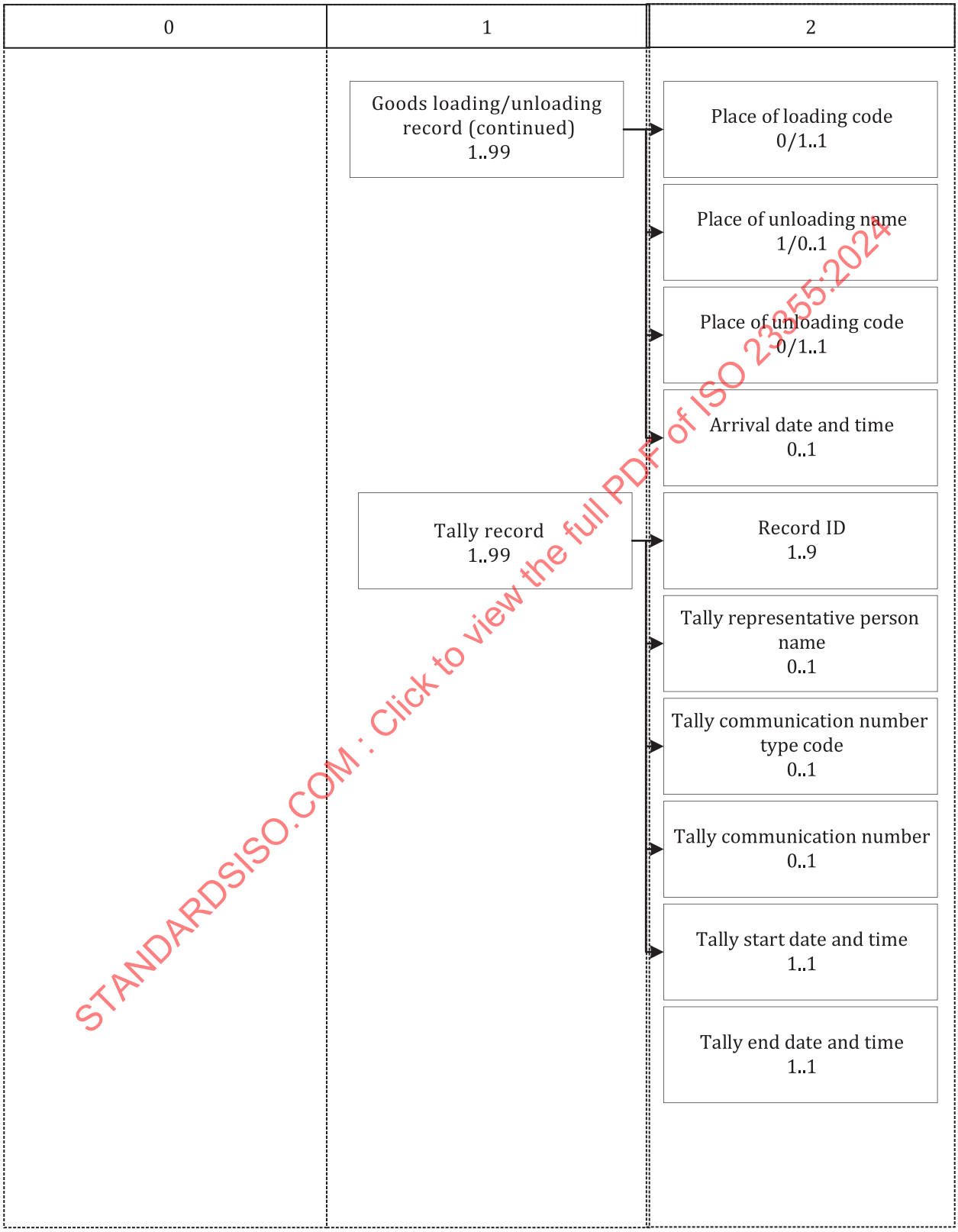


Figure 39 — Goods loading/unloading record (continued) and tally record of tally message

6.2.4.2.10 Goods item information

Goods item information of tally message should contain the data element items and descriptions shown in Figure 40.

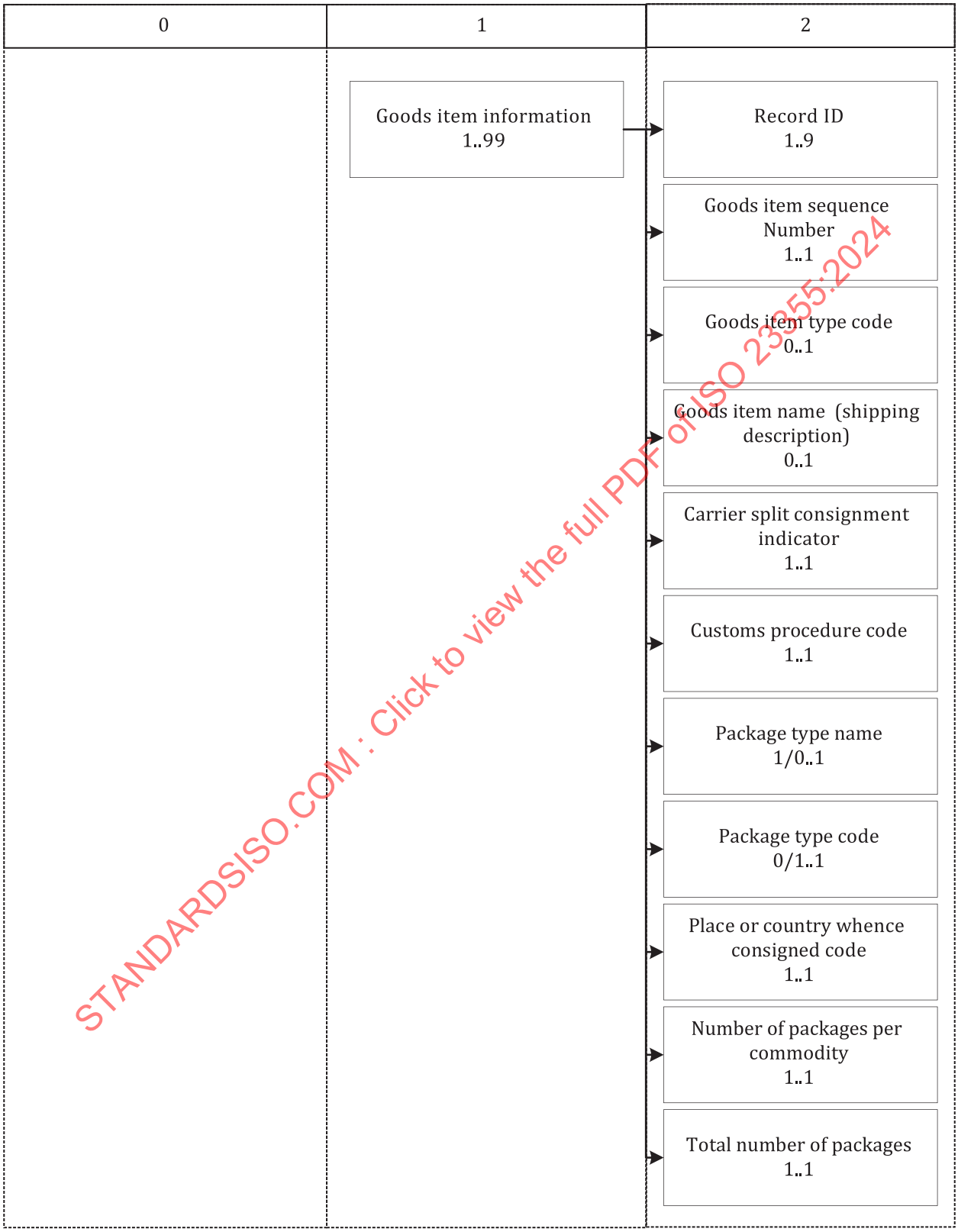


Figure 40 — Goods item information of tally message

6.2.4.2.11 Goods item information (continued) and dangerous goods and reefer information

Continued from Figure 40, goods item information and dangerous goods and reefer information of tally message should contain the data element items and descriptions shown in Figure 41.

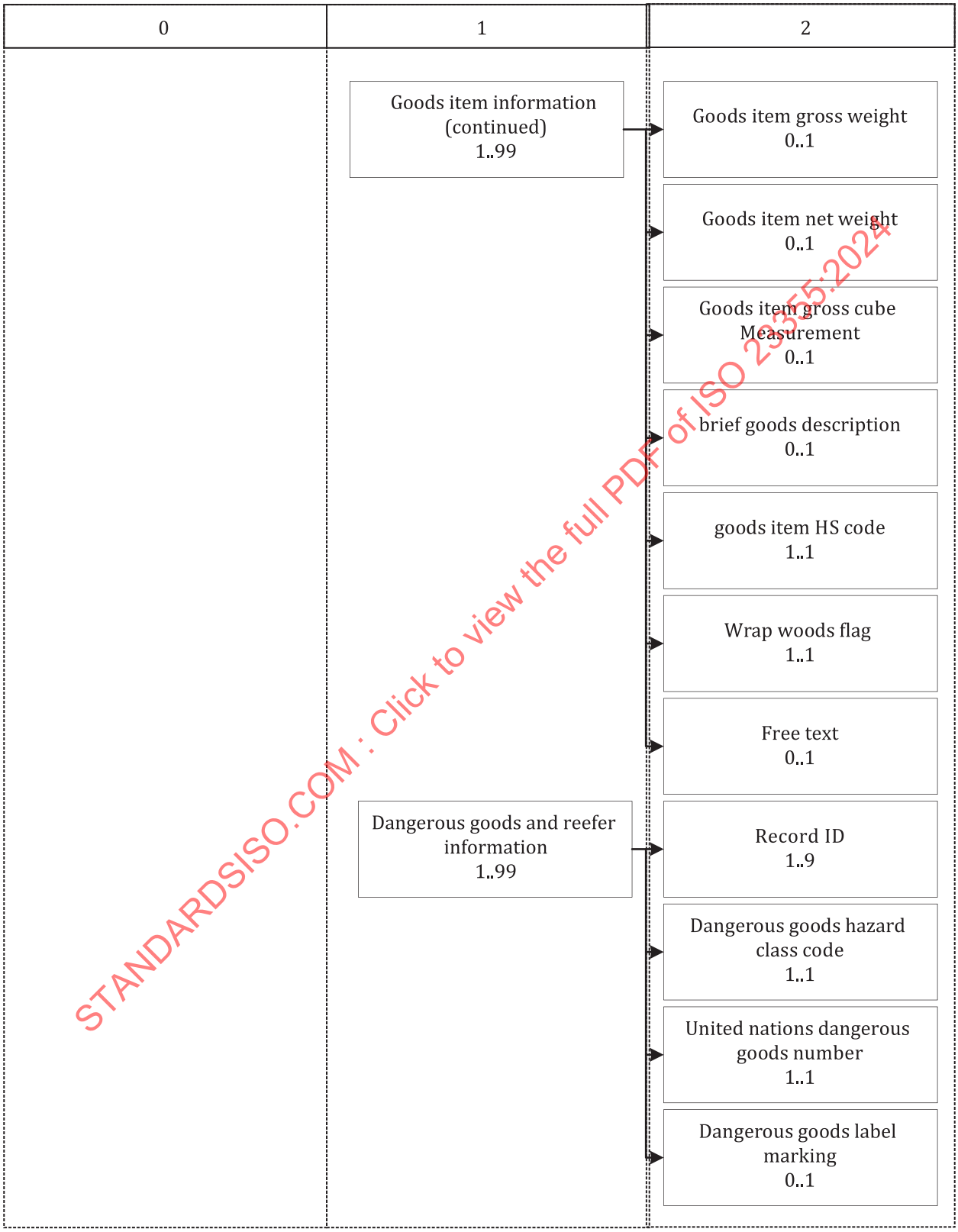


Figure 41 — Goods item information(continued) and dangerous goods and reefer information of tally message

6.2.4.2.12 Dangerous goods and reefer information (continued)

Continued from Figure 41, dangerous goods and reefer information of tally message should contain the data element items and descriptions shown in Figure 42.

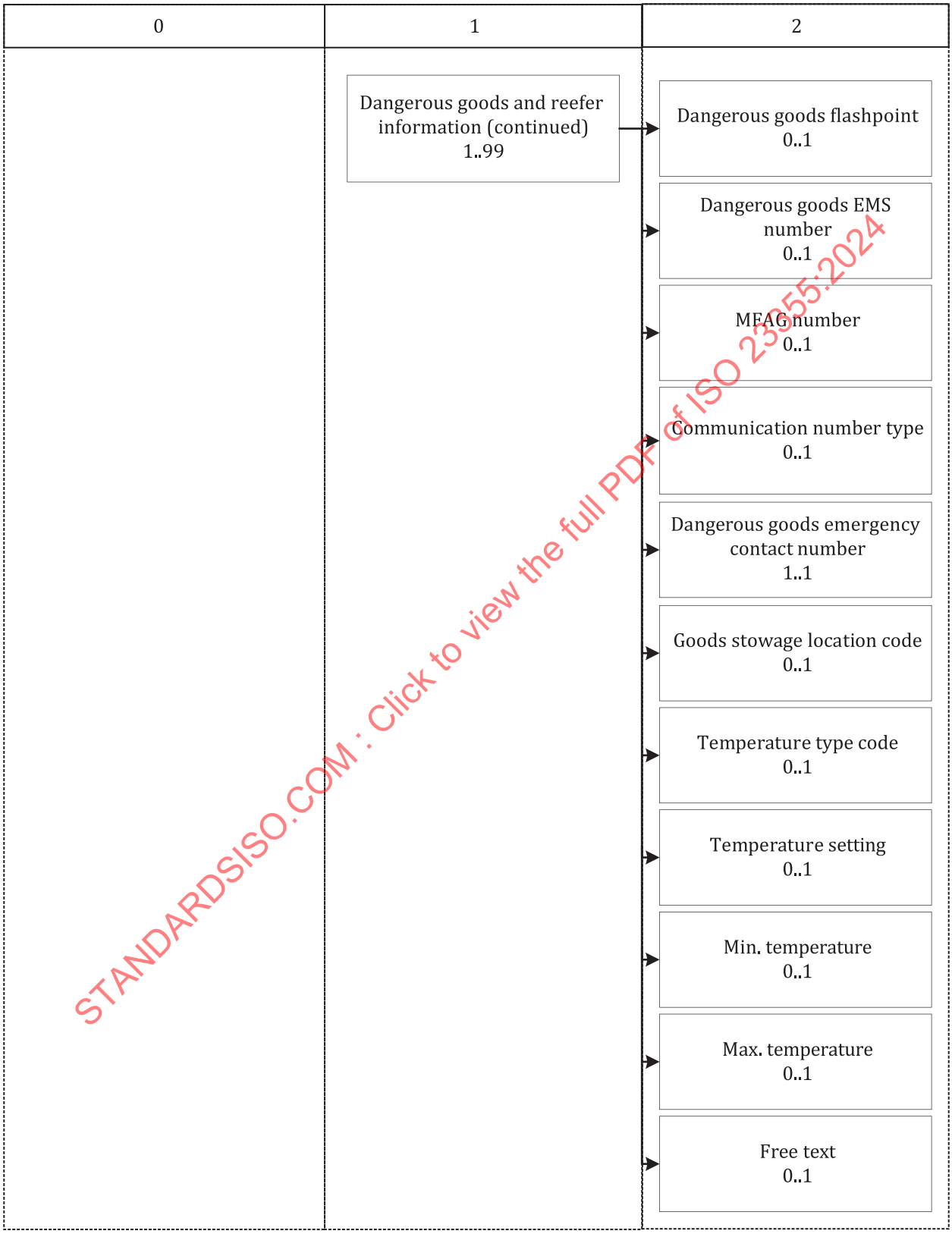


Figure 42 — Dangerous goods and reefer information (continued) of tally message

6.2.4.2.13 Transport equipment information

Transport equipment information of tally message should contain the data element items and descriptions shown in Figure 43.

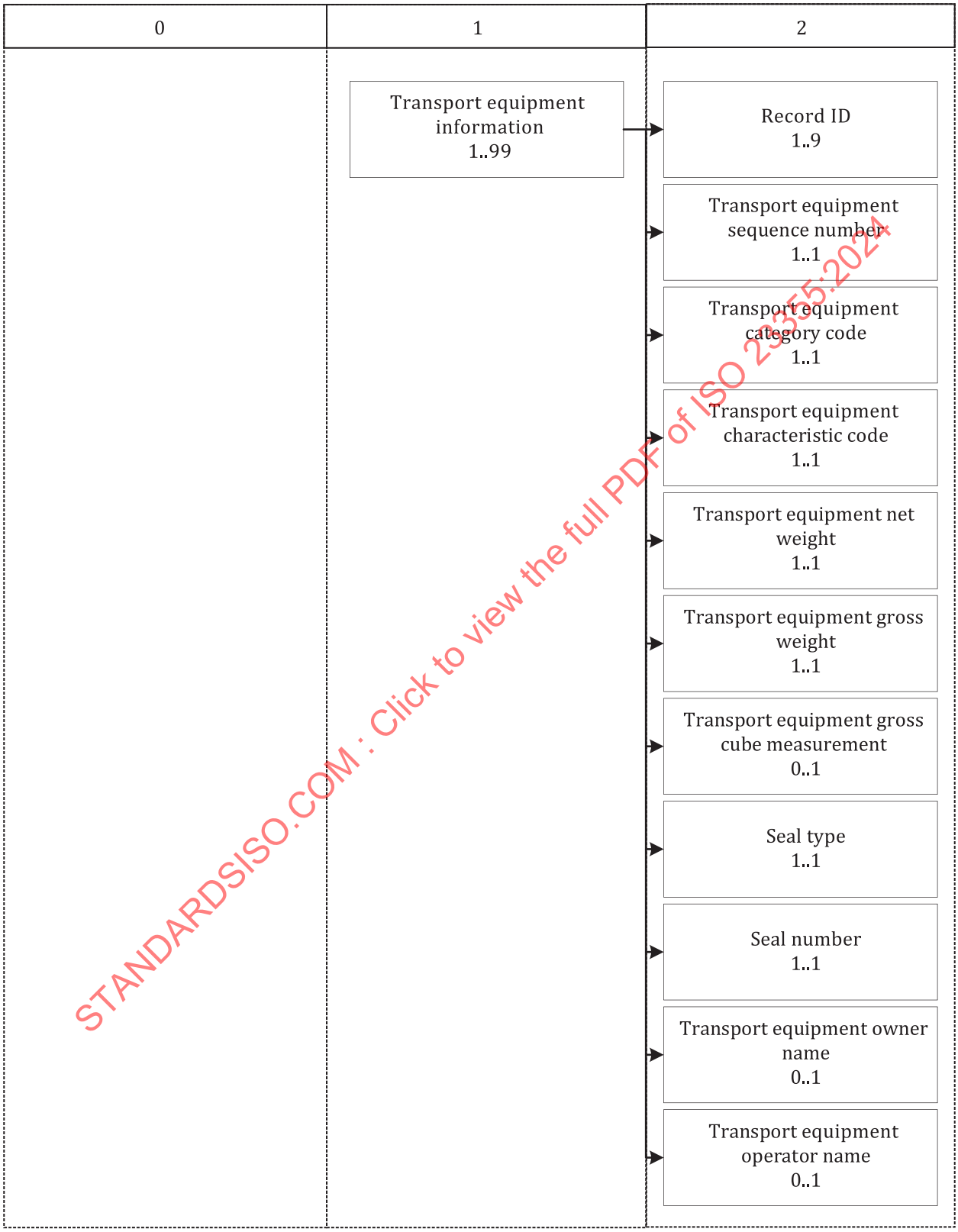


Figure 43 — Transport equipment information of tally message

6.2.4.2.14 Transport equipment information (continued) and trailer

Continued from Figure 43, transport equipment information and trailer of tally message should contain the data element items and descriptions shown in Figure 44.

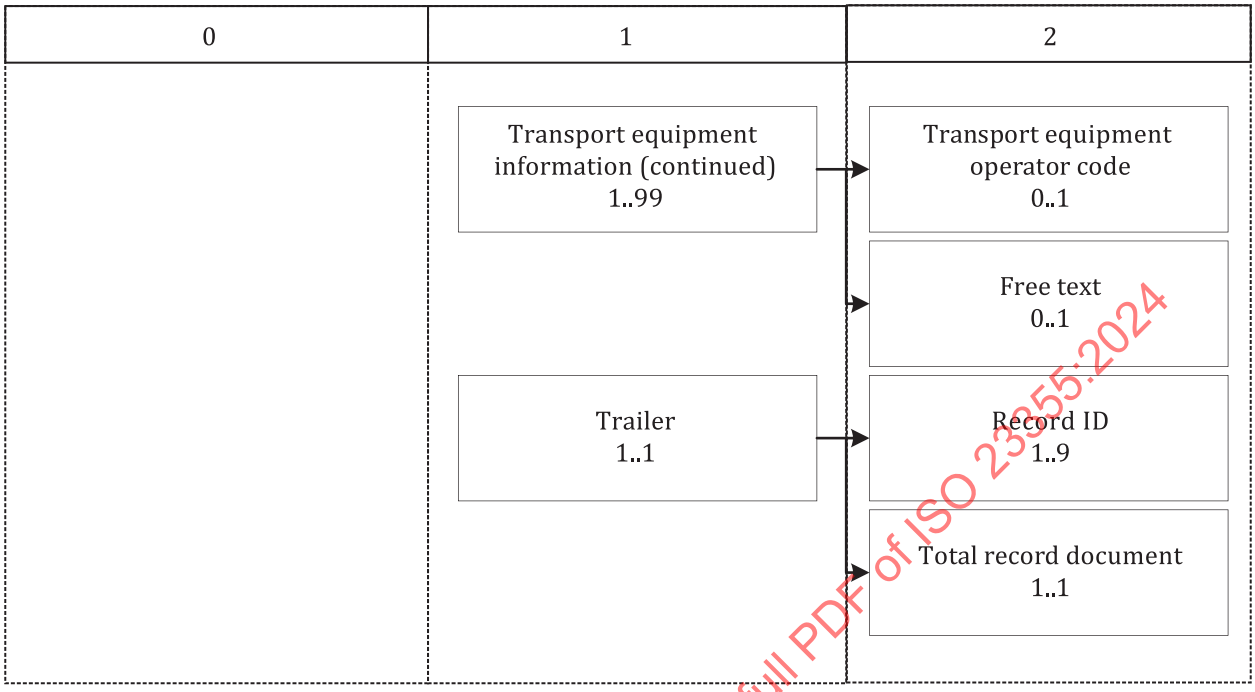


Figure 44 — Transport equipment information (continued) and trailer of tally message

6.2.4.3 Message description

6.2.4.3.1 Header

Header of tally message is shown in Table 24.

Table 24 — Header of tally message

Record 00				M
No.	Name	Format	Unit/code of measurement	Constraint
1	Record ID	n..2	Record type is 00.	M
2	Message type code	an..6	Same as UNCL 1001 code ID	M
3	Document description	an..35		O
4	Document function code	an..1	9 - original, 2 - addition, 3 - deletion, 4 - change	M
5	Document sender name	an..35		M/O
6	Document sender code	an..17		O/M
7	Document receiver name	an..512		M/O
8	Document receiver code	an..17		O/M
9	Document creation date and time	an..19	CCYYMMDDHHMMZHHMM	M
10	Document issue date and time	an..19	CCYYMMDDHHMMZHHMM	M
11	Free text	an..512		O

6.2.4.3.2 Other receivers

Other receivers of tally message are shown in Table 25.

Table 25 — Other receivers of tally message

Record 01				O
No.	**Name**	**Format**	**Unit/code of measurement**	**Constraint**
1	Record ID	n..2	Record type is 01.	M
2	Document receiver name	an..512		M/O
3	Document receiver code	an..17		O/M
4	Free text	an..512		O

6.2.4.3.3 Transport means basic information

Transport means basic information of tally message is shown in Table 26.

Table 26 — Transport means basic information of tally message

Record 10				M
No.	**Name**	**Format**	**Unit/code of measurement**	**Constraint**
1	Record ID	n..2	Record type is 10.	M
2	Transport mode name	an..17		M/O
3	Transport mode code	an..1		O/M
4	Transport means name	an..35		M/O
5	Transport means ID	an..35	Ship is IMO number, aircraft is aircraft registration number, railway is train number, and vehicle is engine number + vehicle shelf number.	O/M
6	Import or export indicator code	an..1	I-Import, E-Export	M
7	Conveyance reference number	an..17		M
8	Nationality code	an..3		M
9	Declaration agent representative person name	an..35		O
10	Customs office of declaration code	an..35		M
11	Free text	an..512		O

6.2.4.3.4 Transport document information

Transport document information of tally message is shown in Table 27.

Table 27 — Transport document information of tally message

Record 20				M
No.	**Name**	**Format**	**Unit/code of measurement**	**Constraint**
1	Record ID	n..2	Record type is 20.	M
2	Master transport document number	an..35		M
3	Associated/house transport document number	an..35		M/O
4	Shipping marks	an..512		M
5	Previous carriage transport means name	an..35		M/O
6	Previous carriage transport means ID	an..35		O/M
7	Previous carriage conveyance reference number	an..17		O
8	Contract and carriage condition code	an..3		O

Table 27 *(continued)*

Record 20				M
No.	**Name**	**Format**	**Unit/code of measurement**	**Constraint**
9	Transport charges method of payment code	an..3		O
10	Master transport document issue date and time	an..19	CCYYMMDDHHMMZHHMM	O
11	Master transport document issue place	an..70		O
12	Currency code	an..3		O
13	Rate of exchange	n..18		O
14	Handling instructions code	an..3		O
15	Deconsolidator code	an..17	Fill in the code that the deconsolidator has filed with the customs in advance (organization code)	O
16	Previous customs document number	an..35		O/M
17	Previous customs document type code	an..3		O/M
18	Change reason description	an..35		O
19	Free text	an..512		O

6.2.4.3.5 Despatch information

Despatch information of tally message is shown in Table 28.

Table 28 — Despatch information of tally message

Record 30				M
No.	**Name**	**Format**	**Unit/code of measurement**	**Constraint**
1	Record ID	n..2	Record type is 30.	M
2	Despatch location name (carrier acceptance)	an..256		M/O
3	Despatch location code (carrier acceptance)	an..35		O/M
4	Despatch date and time (carrier acceptance)	an..19	CCYYMMDDHHMMZHHMM	O
5	Consignor name	an..35		M
6	Consignor street and number/p.o.box	an..256		M
7	Country code	an..3		M
8	Communication number type	an..3		O
9	Consignor communication number	an..512		O

6.2.4.3.6 Goods receipt information

Goods receipt information of tally message is shown in Table 29.

Table 29 — Goods receipt information of tally message

Record 40				M
No.	Name	Format	Unit/code of measurement	Constraint
1	Record ID	n..2	Record type is 40.	M
2	Goods receipt place name	an..256		M/O
3	Goods receipt place code	an..35		O/M
4	Goods receipt date and time	an..19	CCYYMMDDHHMMZHHMM	O
5	Consignee name	an..35		M
6	Consignee street and number/P.O.box	an..256		M
7	Country code	an..3		O
8	Communication number type	an..3		O
9	Consignee communication number	an..256		O

6.2.4.3.7 Calling location information

Calling location information of tally message is shown in Table 30.

Table 30 — Calling location information of tally message

Record 50				M
No.	Name	Format	Unit/code of measurement	Constraint
1	Record ID	n..2	Record type is 50.	M
2	Port call sequence number	n..2		M
3	Calling location name	an..256		M/O
4	Calling location code	an..35		O/M
5	Calling terminal name	an..256		O
6	Estimated arrival date and time	an..19	CCYYMMDDHHMMZHHMM	O

6.2.4.3.8 Goods loading/unloading record

Goods loading/unloading record of tally message is shown in Table 31.

Table 31 — Goods loading/unloading record of tally message

Record 60				M
No.	Name	Format	Unit/code of measurement	Constraint
1	Record ID	n..2	Record type is 60.	M
2	Loading/unloading code	an..1	L-Loading,U-Unloading	M
3	Start date and time	an..19	CCYYMMDDHHMMZHHMM	M
4	End date and time	an..19	CCYYMMDDHHMMZHHMM	M
5	Place of loading name	an..256		M/O
6	Place of loading code	an..35		O/M
7	Place of unloading name	an..256		M/O
8	Place of unloading code	an..35		O/M
9	Arrival date and time	an..19	CCYYMMDDHHMMZHHMM	O

6.2.4.3.9 Tally record

Tally record of tally message is shown in Table 32.

Table 32 — Tally record of tally message

Record 70				M
No.	Name	Format	Unit/code of measurement	Constraint
1	Record ID	n..2	Record type is 70.	M
2	Tally representative person name	an..35		O
3	Tally communication number type code	an..3		O
4	Tally communication number	an..512		O
5	Tally start date and time	an..19	CCYYMMDDHHMMZHHMM	M
6	Tally end date and time	an..19	CCYYMMDDHHMMZHHMM	M

6.2.4.3.10 Goods item information

Goods item information of tally message is shown in Table 33.

Table 33 — Goods item information of tally message

Record 80				M
No.	Name	Format	Unit/code of measurement	Constraint
1	Record ID	n..2	Record type is 80.	M
2	Goods item sequence number	n..5		M
3	Goods item type code	an..8		O
4	Goods item name (shipping description)	an..512		O
5	Carrier split consignment indicator	an..1	0 - no, 1 - yes	M
6	Customs procedure code	an..3	22-Export goods, 23-Import goods 28-International transhipment, 24-Transit goods.	M
7	Package type name	an..35		M/O
8	Package type code	an..17	For bulk goods, the number of pieces - "BB"	O/M
9	Place or country whence consigned code	an..35		M
10	Number of packages per commodity	n..8		M
11	Total number of packages	n..8	For bulk goods, the number of pieces - "1"	M
12	Goods item gross weight	n..14	Unit: Ton (t)	O
13	Goods item net weight	n..16	Unit: Ton (t)	O
14	Goods item gross cube measurement	n..9	Unit: Cubic metre (m^3)	O
15	Brief goods description	an..256		O
16	Goods item HS code	an..10		M
17	Free text	an..512		O

6.2.4.3.11 Dangerous goods and reefer information

Dangerous goods and reefer information of tally message is shown in Table 34.

Table 34 — Dangerous goods and reefer information of tally message

Record 90				M
No.	Name	Format	Unit/code of measurement	Constraint
1	Record ID	n..2	Record type is 90.	M
2	Dangerous goods hazard class code	an..7		M
3	United nations dangerous goods number	n..4		M
4	Dangerous goods label marking	an..512		O
5	Dangerous goods flashpoint	an..8	Unit: Celsius (°C)	O
6	Dangerous goods EMS number	an..6		O
7	MFAG number	an..4		O
8	Communication number type	an..3		O
9	Dangerous goods emergency contact number	an..35		O
10	Goods stowage location code	an..35		O
11	Temperature type code	an..3	CEL FAH	O
12	Temperature setting	n..15	CEL FAH	O
13	Min. temperature	n..5	CEL FAH	O
14	Max. temperature	n..5	CEL FAH	O
15	Free text	an..512		O

6.2.4.3.12 Transport equipment information

Transport equipment information of tally message is shown in Table 35.

Table 35 — Transport equipment information of tally message

Record 95				M
No.	Name	Format	Unit/code of measurement	Constraint
1	Record ID	n..2	Record type is 95.	M
2	Transport equipment sequence number	n..11	Adopt ISO 6346	M
3	Transport equipment category code	an..2	RR-Rail Car, TE-Road Trailer	M
4	Transport equipment characteristic code	an..10		M
5	Transport equipment net weight	n..5	KGM	M
6	Transport equipment gross weight	n..14	KGM	M
7	Transport equipment gross cube measurement	n..5	KGM	O
8	Seal type	an..1		M
9	Seal number	an..35		M
10	Transport equipment owner name	an..35		O
11	Transport equipment operator name	an..35		M/O
12	Transport equipment operator code	an..17		O/M
13	Free text	an..512		O

6.2.4.3.13 Trailer

Trailer of tally message is shown in Table 36.

Table 36 — Trailer of tally message

Record 99				M
No.	Name	Format	Unit/code of measurement	Constraint
1	Record ID	n..2	Record type is 99.	M
2	Total record document	n..6	Including head record and trailer record	M

6.2.5 Goods loading message

6.2.5.1 Basic requirements

6.2.5.1.1 Message name: goods loading message.

6.2.5.1.2 Message sender: transportation enterprises, such as shipping companies, consignors and freight forwarders. Message receiver: destination units for transporting goods, such as ports, airports, railway stations, freight station and regulatory authorities.

6.2.5.1.3 The message should provide the information of goods loading.

6.2.5.2 Message structure

6.2.5.2.1 Overview

Goods loading message shall consist of header, other receivers, transport means basic information, transport document information, despatch information, goods receipt information, calling location information, goods loading/unloading record, goods item information, dangerous goods and reefer information, transport equipment information and trailer. Figure 45 shows the general overview of the message.

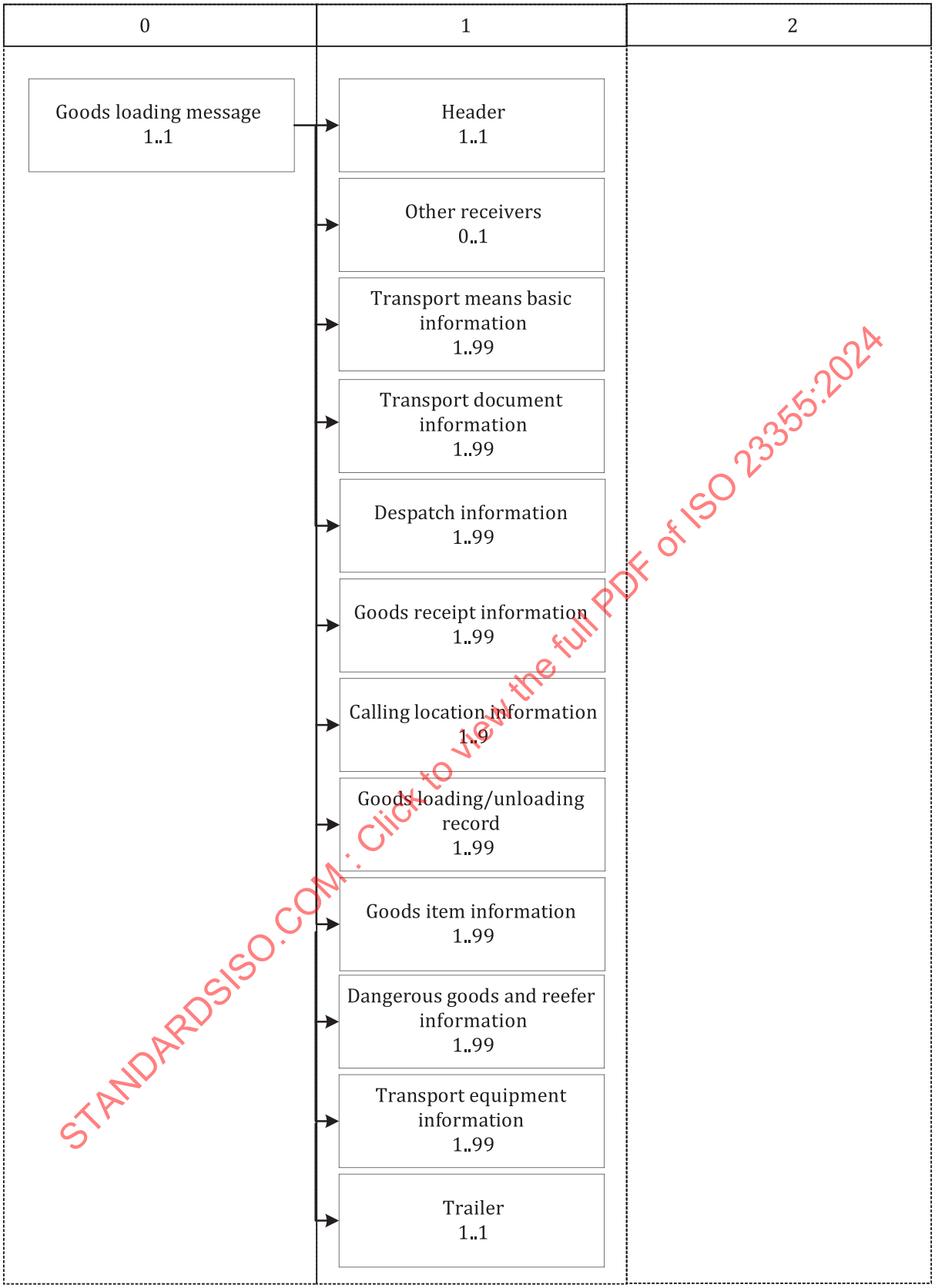


Figure 45 — Overview of goods loading message

6.2.5.2.2 Header

The header of goods loading message should contain the data element items and descriptions shown in Figure 46.

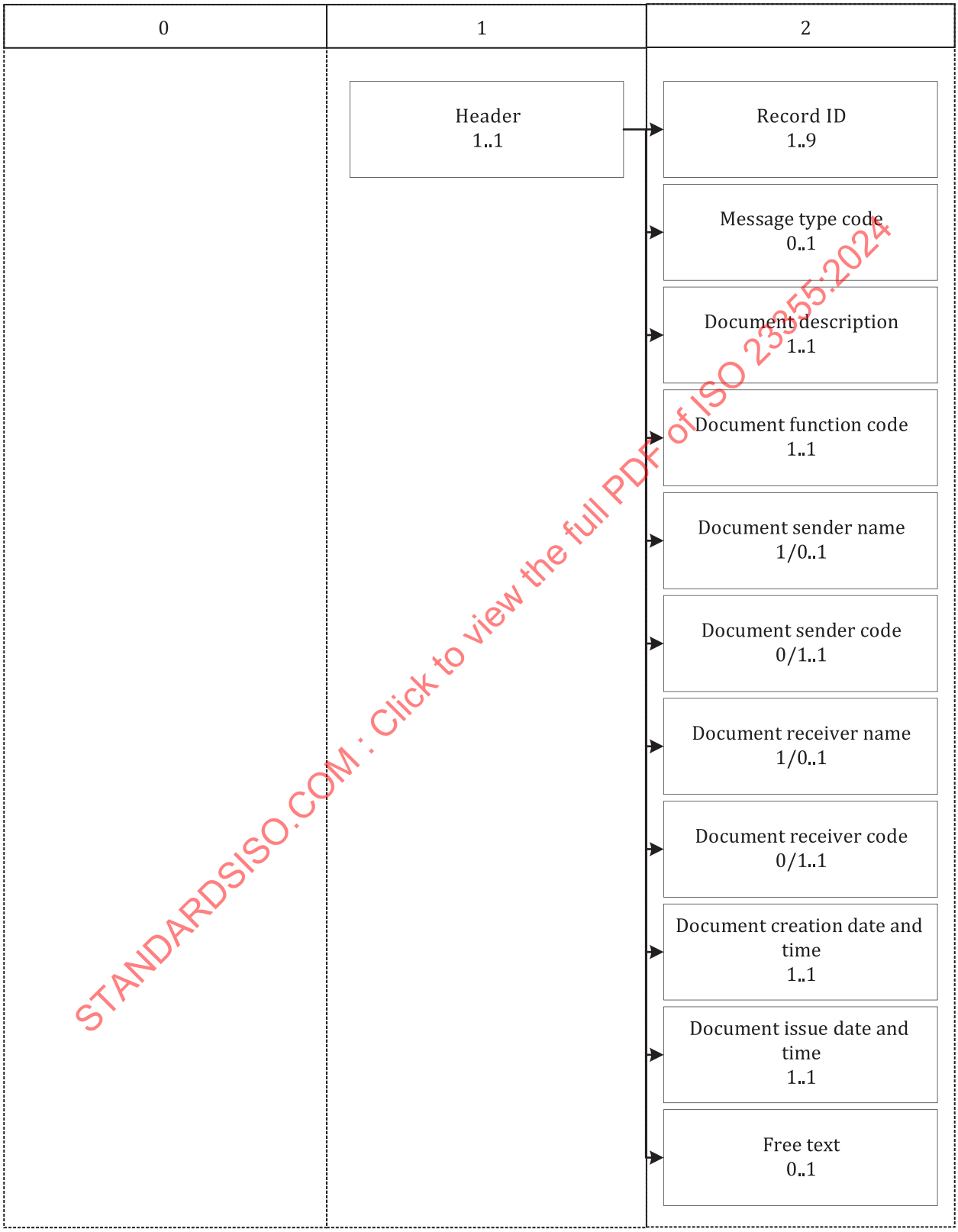


Figure 46 — Header of goods loading message

6.2.5.2.3 Other receivers and transport means basic information

Other receivers and transport means basic information of goods loading message should contain the data element items and descriptions shown in Figure 47.

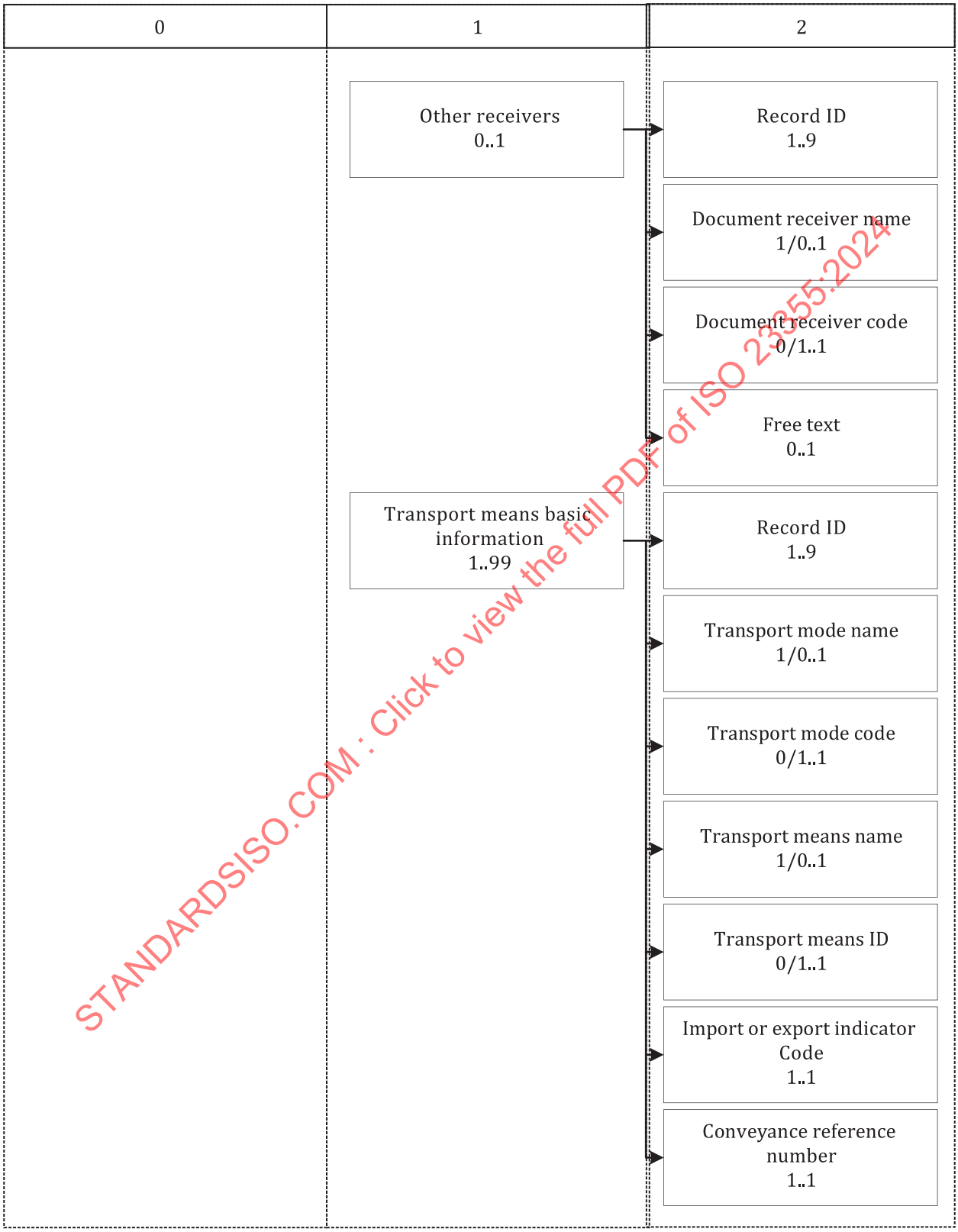


Figure 47 — Other receivers and transport means basic information of goods loading message

6.2.5.2.4 Transport means basic information (continued)

Continued from Figure 47, transport means basic information of goods loading message of goods loading message should contain the data element items and descriptions shown in Figure 48.

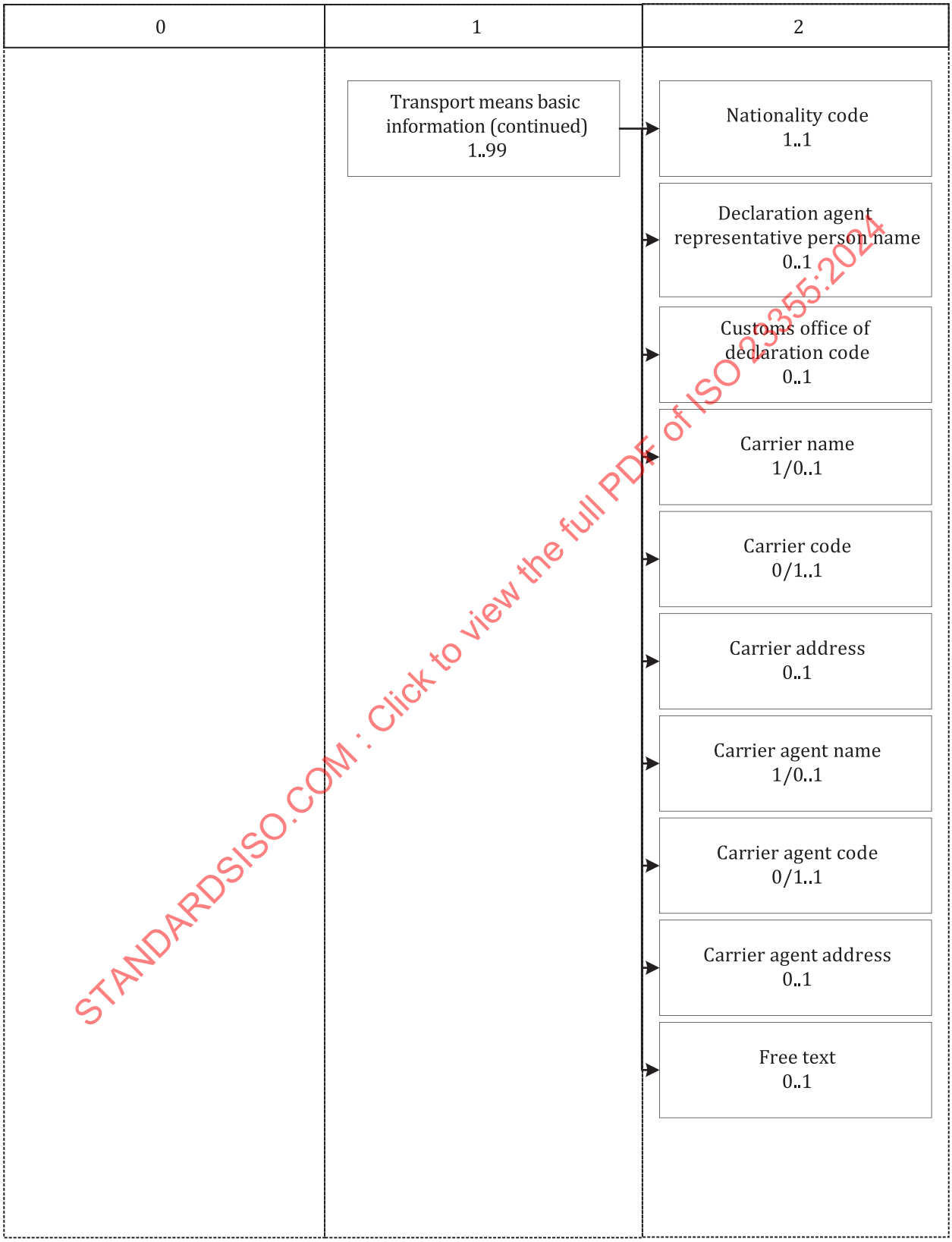


Figure 48 — Transport means basic information (continued) of goods loading message

6.2.5.2.5 Transport document information

Continued from Figure 48, transport document information of goods loading message should contain the data element items and descriptions shown in Figure 49.

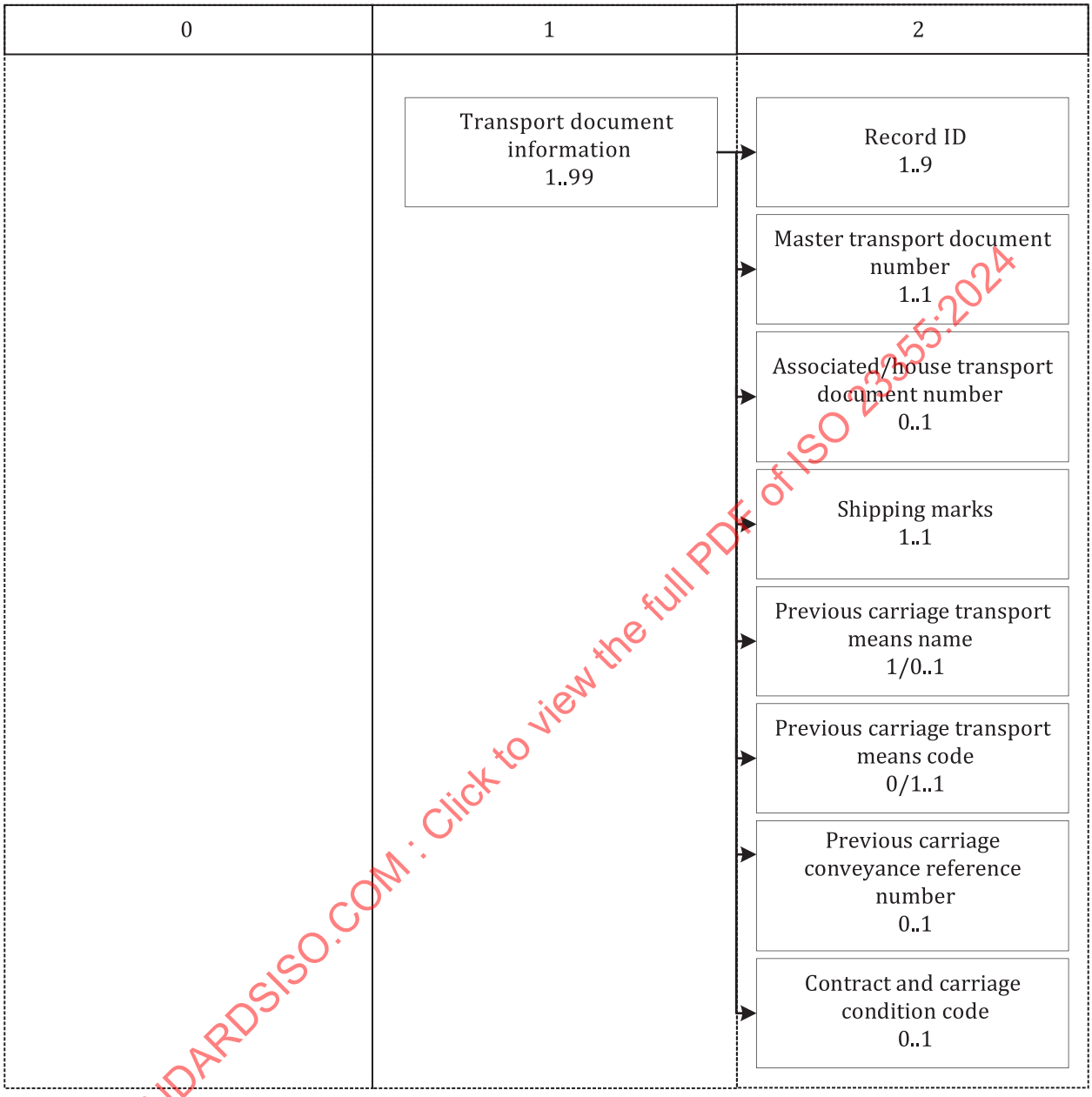


Figure 49 — Transport document information of goods loading message

6.2.5.2.6 Transport document information (continued)

Continued from Figure 49, transport document information of goods loading message should contain the data element items and descriptions shown in Figure 50.

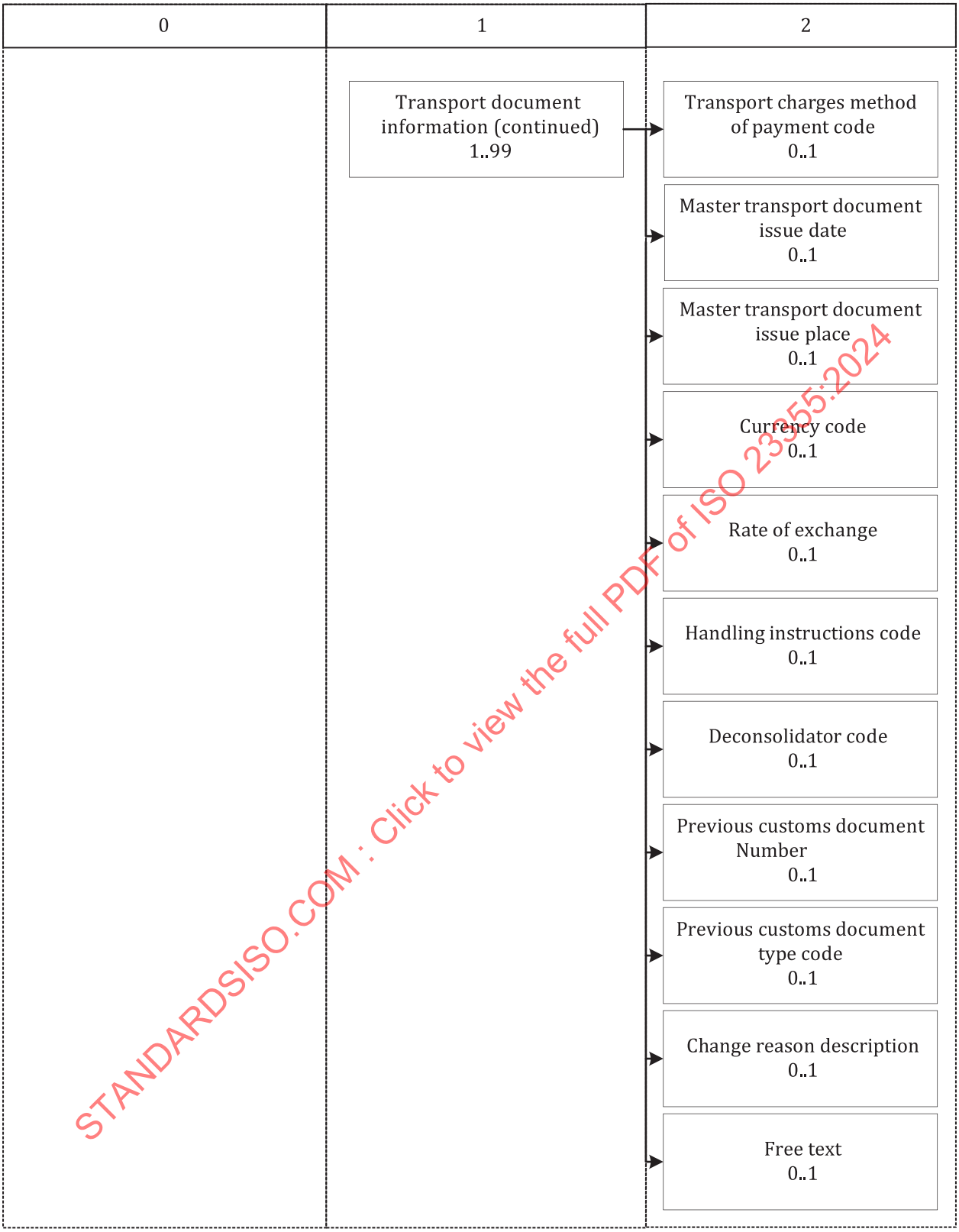


Figure 50 — Transport document information of goods loading message

6.2.5.2.7 Despatch information

Despatch information of goods loading message should contain the data element items and descriptions shown in Figure 51.

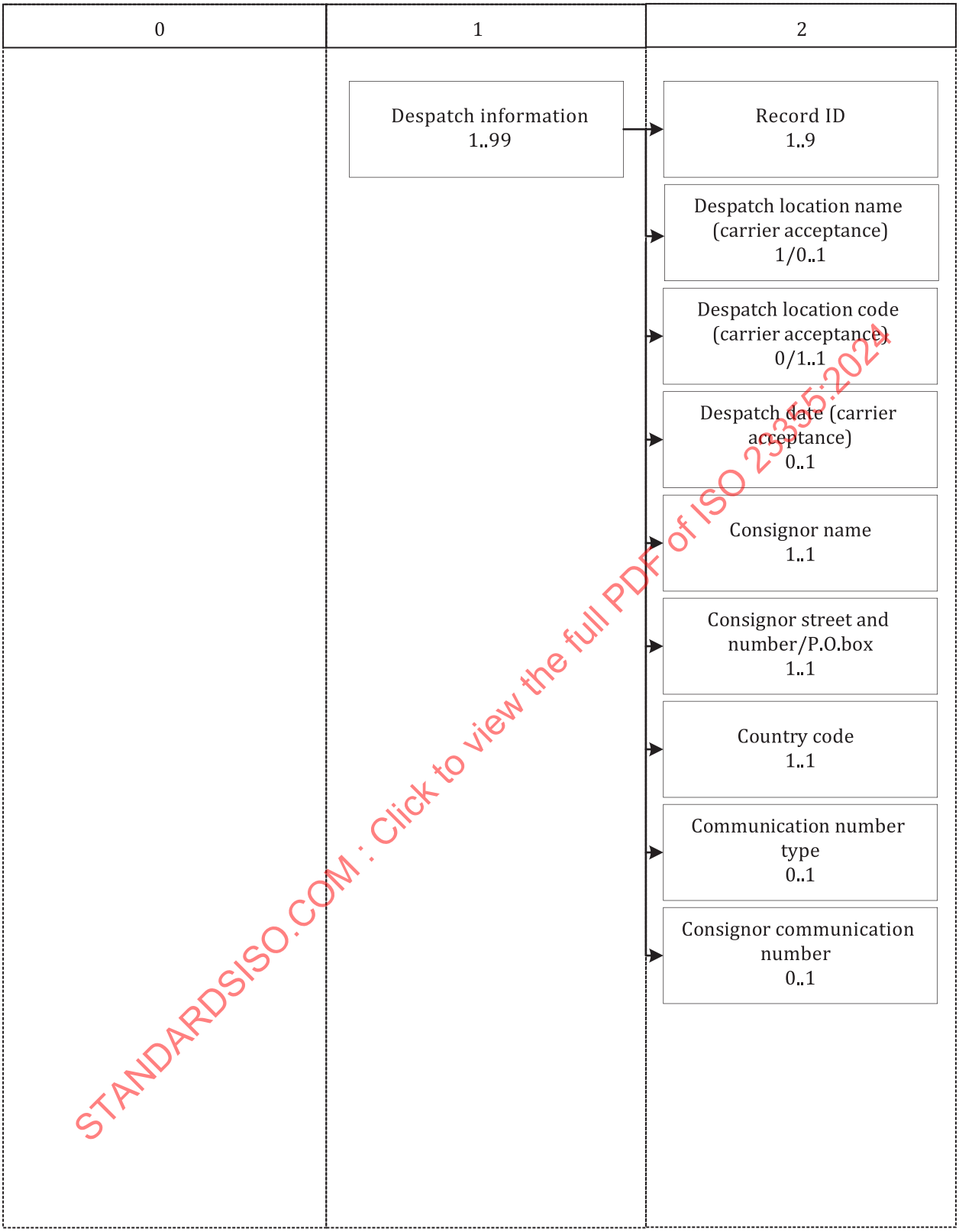


Figure 51 — Despatch information of goods loading message

6.2.5.2.8 Goods receipt information

Goods receipt information of goods loading message should contain the data element items and descriptions shown in Figure 52.

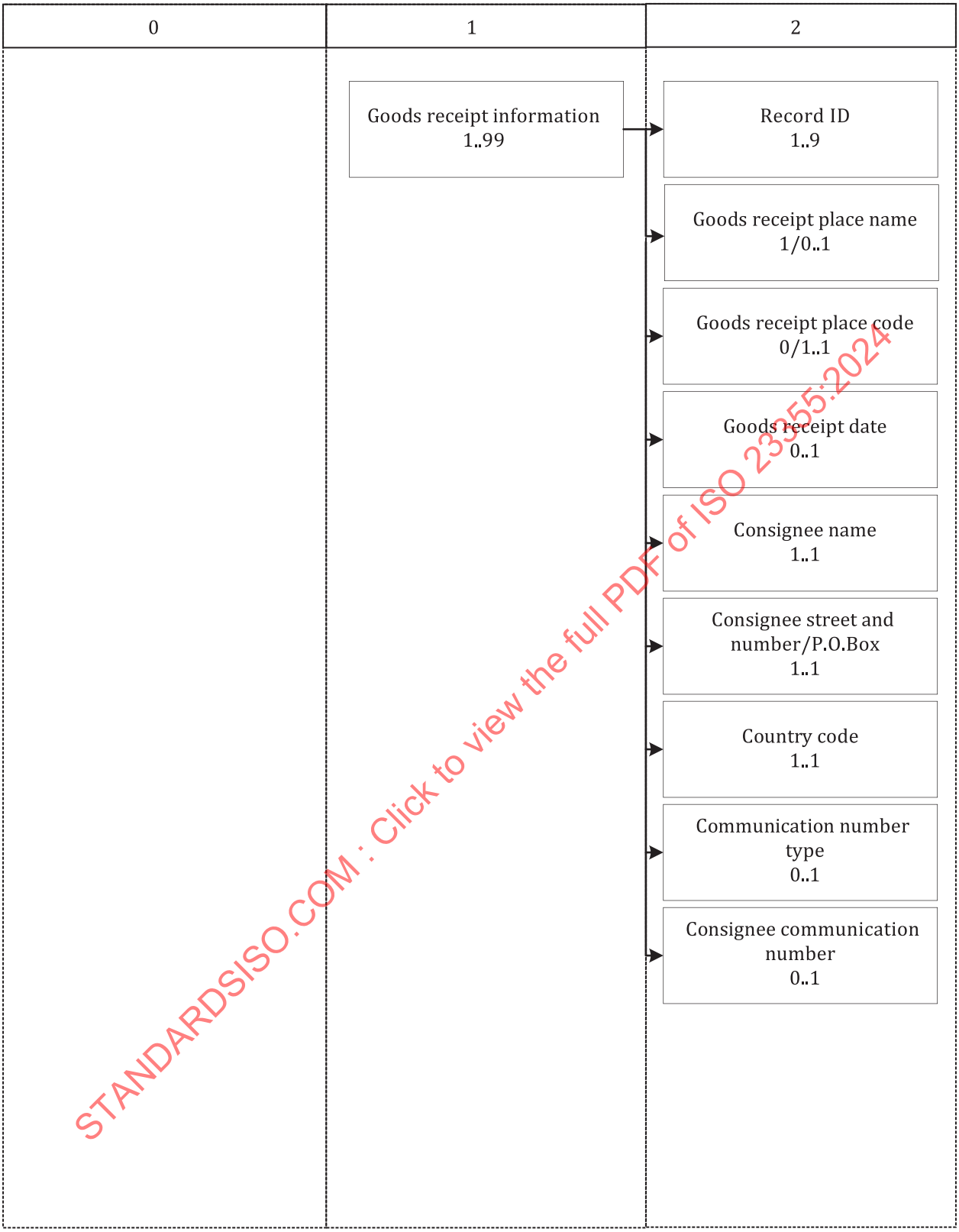


Figure 52 — Goods receipt information of goods loading message

6.2.5.2.9 Calling location information and goods loading/unloading record

Calling location information and goods loading/unloading record of goods loading message should contain the data element items and descriptions shown in Figure 53.

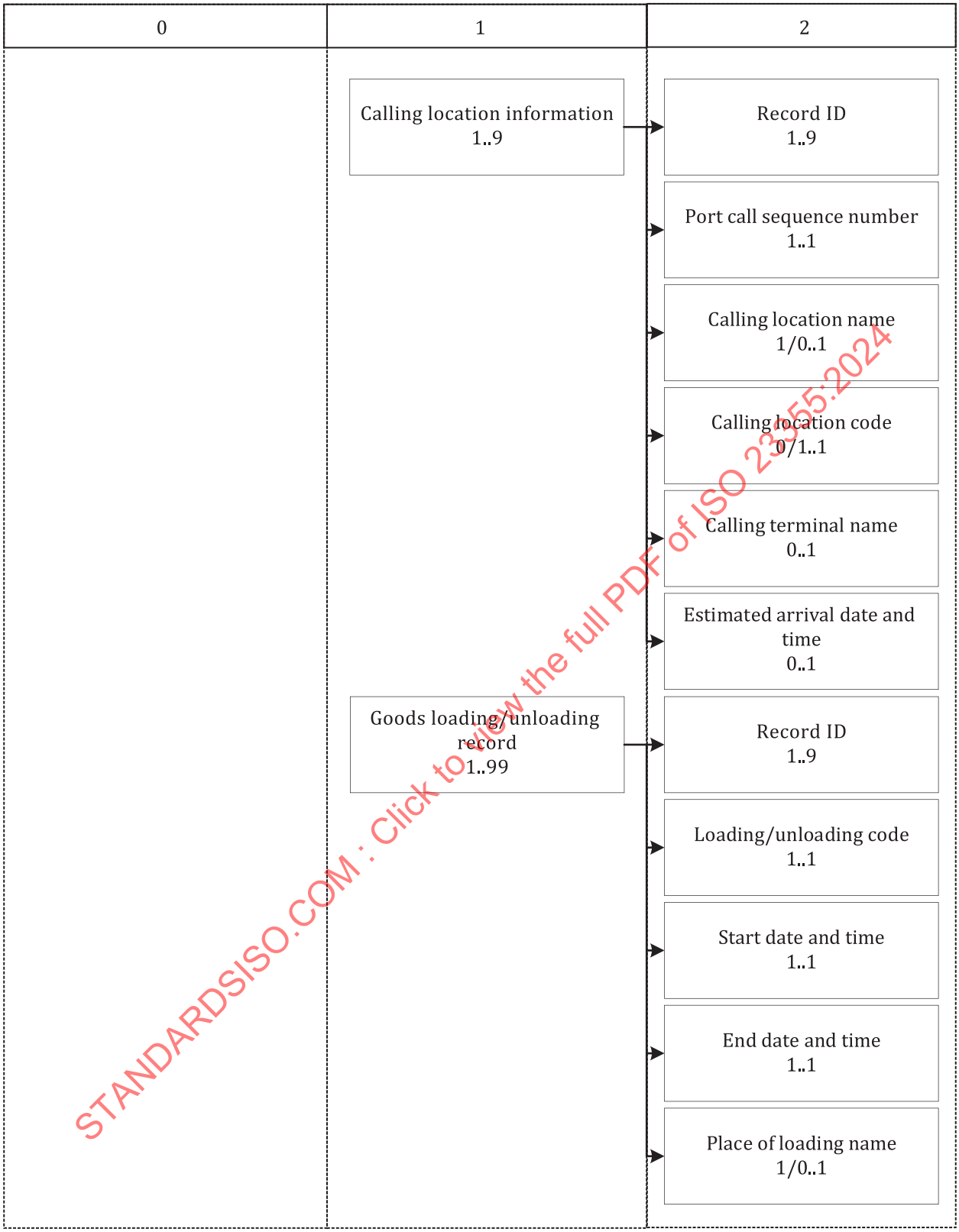


Figure 53 — Calling location information and goods loading/unloading record of goods loading message

6.2.5.2.10 Goods loading/unloading record (continued) and goods item information

Continued from Figure 53, goods loading/unloading record and goods item information of goods loading message should contain the data element items and descriptions shown in Figure 54.

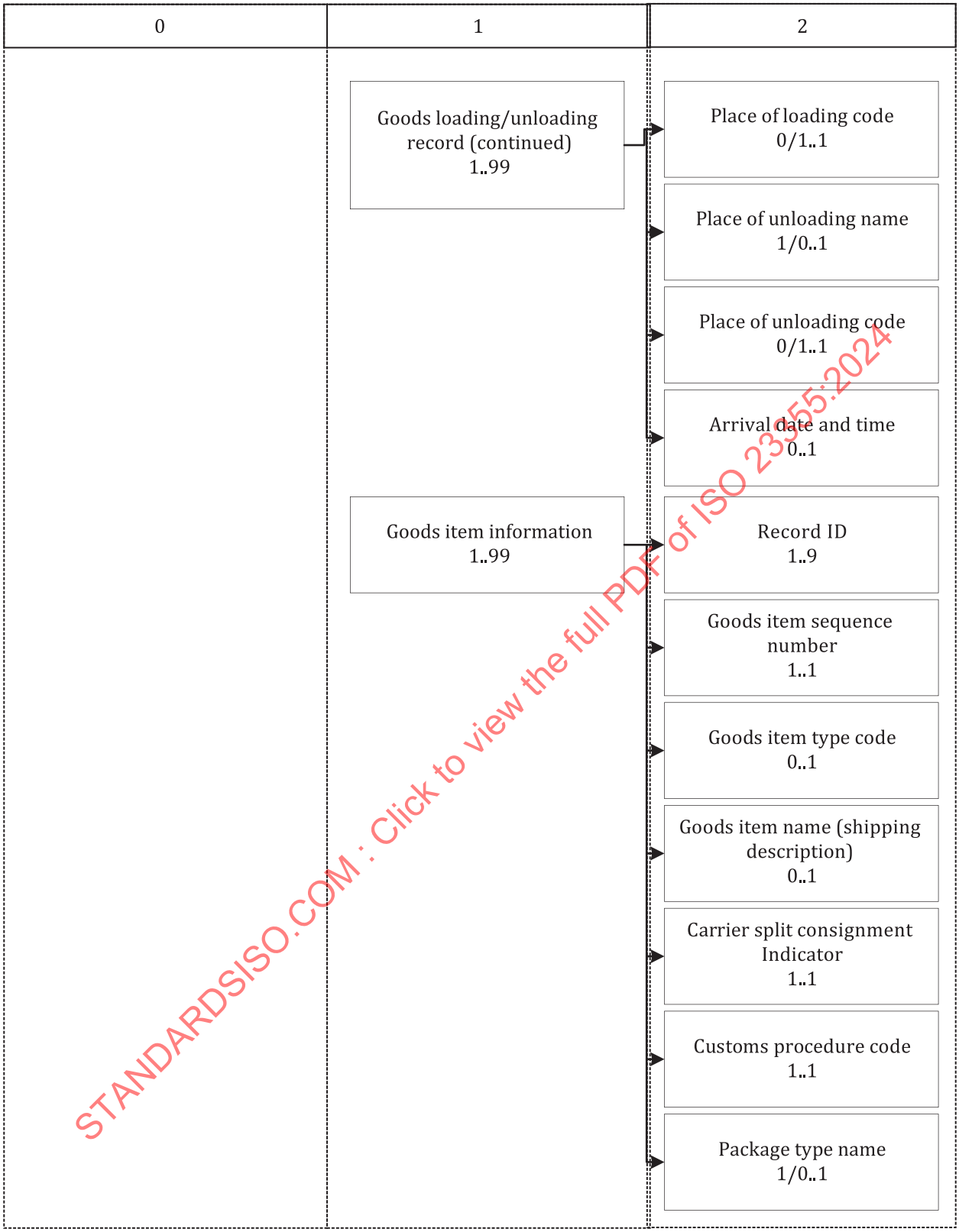


Figure 54 — Goods loading/unloading record (continued) and goods item information of goods loading message

6.2.5.2.11 Goods item information (continued)

Continued from Figure 54, goods item information of goods loading message should contain the data element items and descriptions shown in Figure 55.

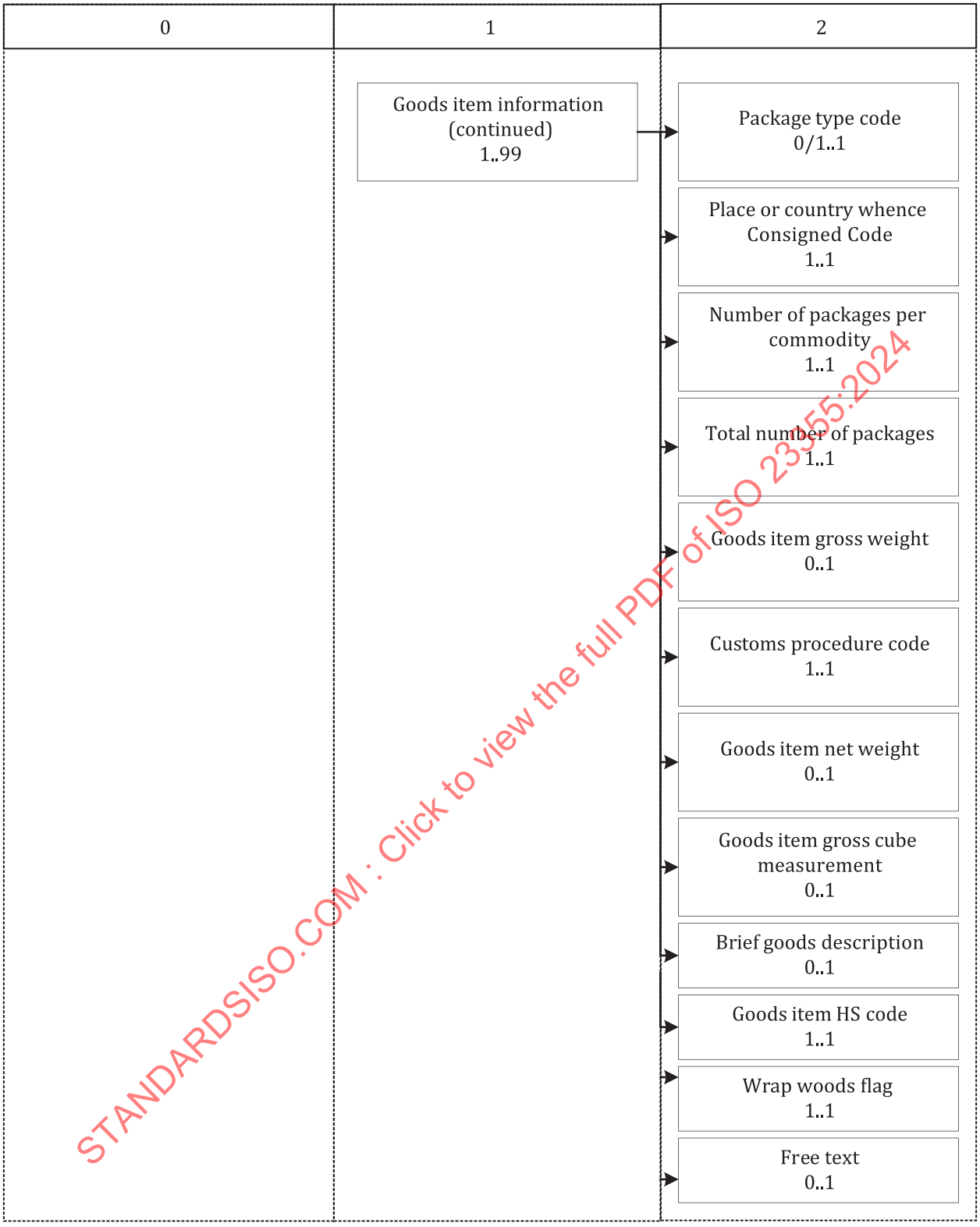


Figure 55 — Goods item information (continued) of goods loading message

6.2.5.2.12 Dangerous goods and reefer information

Dangerous goods and reefer information of goods loading message should contain the data element items and descriptions shown in Figure 56.

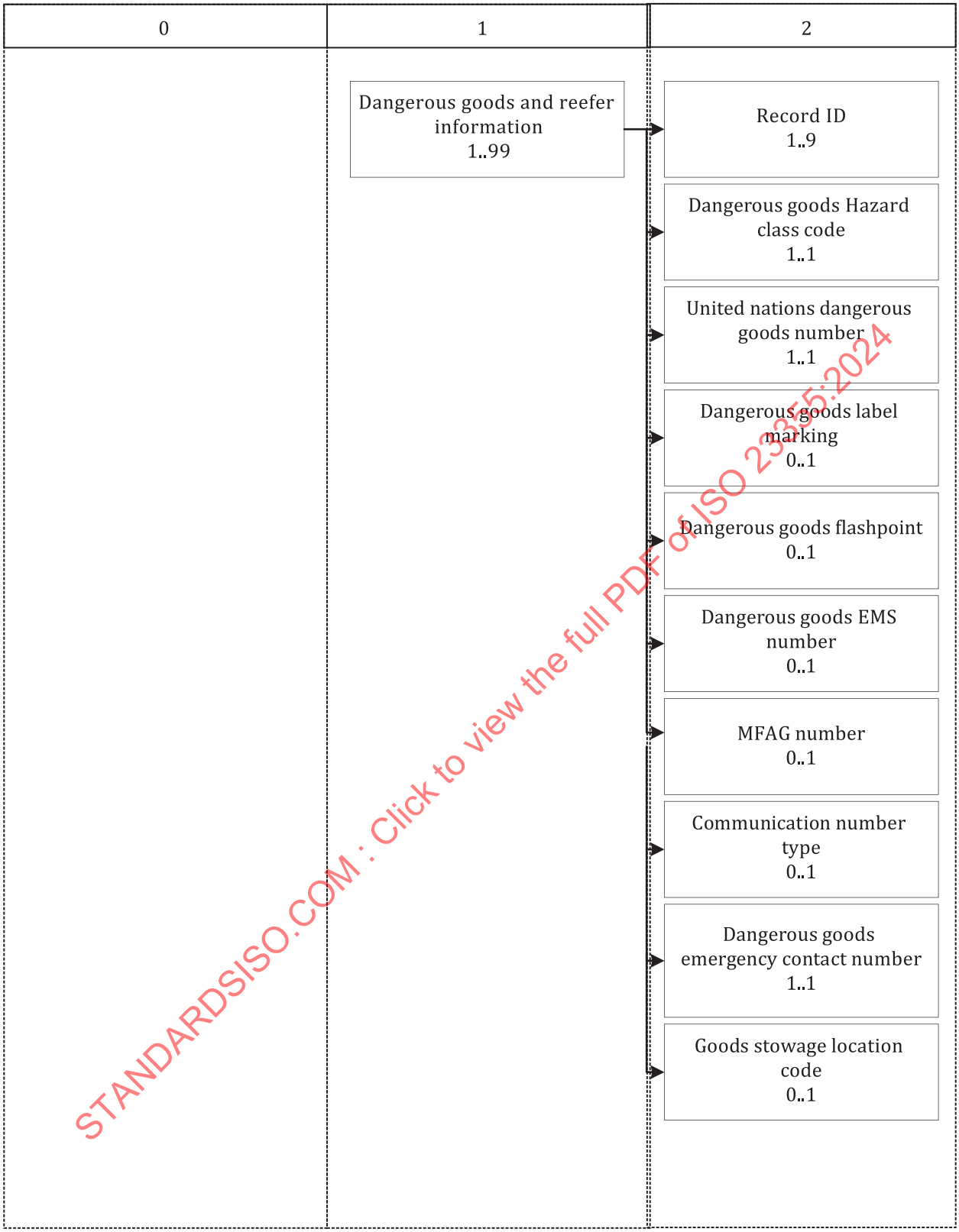


Figure 56 — Dangerous goods and reefer information of goods loading message

6.2.5.2.13 Dangerous goods and reefer information (continued) and transport equipment information

Continued from Figure 56, dangerous goods and reefer information and transport equipment information of goods loading message should contain the data element items and descriptions shown in Figure 57.

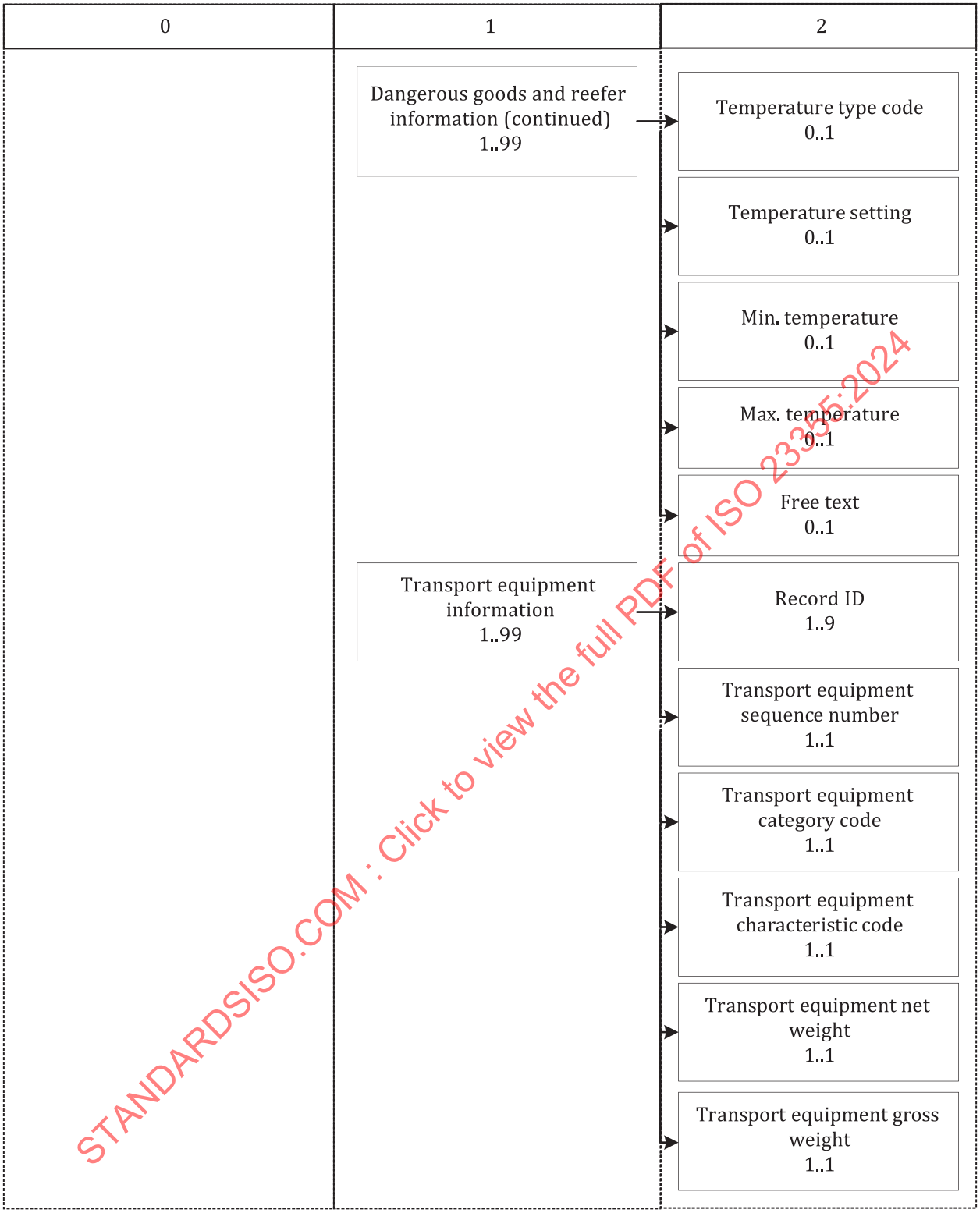


Figure 57 — Dangerous goods and reefer information (continued) and transport equipment information of goods loading message

6.2.5.2.14 Transport equipment information (continued) and trailer

Continued from Figure 57, transport equipment information and trailer of goods loading message should contain the data element items and descriptions shown in Figure 58.

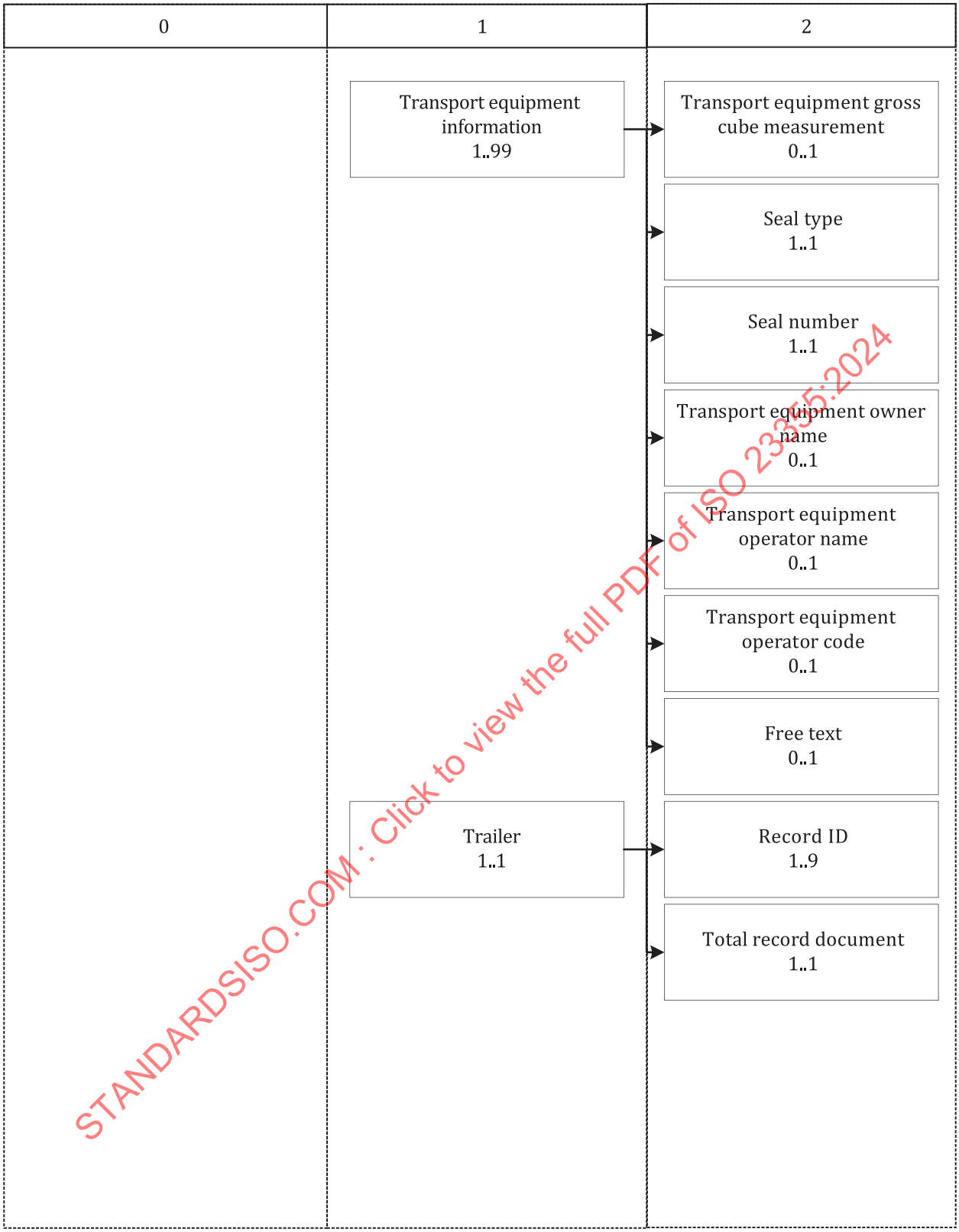


Figure 58 — Transport equipment information (continued) and trailer of goods loading message

6.2.5.3 Message description

6.2.5.3.1 Header

Header of goods loading message is shown in Table 37.

Table 37 — Header of goods loading message

Record 00				M
No.	Name	Format	Unit/code of measurement	Constraint
1	Record ID	n..2	Record type is 00.	M
2	Message type code	an..6	Same as UNCL 1001 code ID	M
3	Document description	an..35		O
4	Document function code	an..1	9 - original, 2 - addition, 3 - deletion, 4 - change	M
5	Document sender name	an..35		M/O
6	Document sender code	an..17		O/M
7	Document receiver name	an..512		M/O
8	Document receiver code	an..17		O/M
9	Document creation date and time	an..19	CCYYMMDDHHMMZHHMM	M
10	Document issue date and time	an..19	CCYYMMDDHHMMZHHMM	M
11	Free text	an..512		O

6.2.5.3.2 Other receivers

Other receivers of goods loading message is shown in Table 38.

Table 38 — Other receivers of goods loading message

Record 01				O
No.	Name	Format	Unit/code of measurement	Constraint
1	Record ID	n..2	Record type is 01.	M
2	Document receiver name	an..512		M/O
3	Document receiver code	an..17		O/M
4	Free text	an..512		O

6.2.5.3.3 Transport means basic information

Transport means basic information of goods loading message is shown in Table 39.

Table 39 — Transport means basic information of goods loading message

Record 10				M
No.	Name	Format	Unit/code of measurement	Constraint
1	Record ID	n..2	Record type is 10.	M
2	Transport mode name	an..17		M/O
3	Transport mode code	an..1		O/M
4	Transport means name	an..35		M/O
5	Transport means ID	an..35	Ship is IMO number, aircraft is aircraft registration number, railway is train number, and vehicle is engine number + vehicle shelf number.	O/M
6	Import or export indicator code	an..1	I-Import, E-Export	M
7	Conveyance reference number	an..17		M

Table 39 *(continued)*

Record 10				M
No.	**Name**	**Format**	**Unit/code of measurement**	**Constraint**
8	Nationality code	an..3		M
9	Declaration agent representative person name	an..35		O
10	Customs office of declaration code	an..35		M
11	Carrier name	an..512		M/O
12	Carrier code	an..17		O/M
13	Carrier address	an..512		O
14	Carrier agent name	an..512		M/O
15	Carrier agent code	an..17		O/M
16	Carrier agent address	an..512		O
17	Free text	an..512		O

6.2.5.3.4 Transport document information

Transport document information of goods loading message is shown in Table 40.

Table 40 — Transport Document Information of goods loading message

Record 20				M
No.	**Name**	**Format**	**Unit/code of measurement**	**Constraint**
1	Record ID	n..2	Record type is 20.	M
2	Master transport document number	an..35		M
3	Associated/house transport document number	an..35		M/O
4	Shipping marks	an..512		M
5	Previous carriage transport means name	an..35		M/O
6	Previous carriage transport means ID	an..35		O/M
7	Previous carriage conveyance reference number	an..17		O
8	Contract and carriage condition code	an..3		O
9	Transport charges method of payment code	an..3		O
10	Master transport document issue date and time	an..19	CCYYMMDDHHMMZHHMM	O
11	Master transport document issue place	an..70		O
12	Currency code	an..3		O
13	Rate of exchange	n..18		O
14	Handling instructions code	an..3		O
15	Deconsolidator code	an..17	Fill in the code that the deconsolidator has filed with the customs in advance (organization code)	O
16	Previous customs document number	an..35		O/M
17	Previous customs document type code	an..3		O/M
18	Change reason description	an..35		O
19	Free text	an..512		O

6.2.5.3.5 Despatch information

Despatch information of goods loading message is shown in Table 41.

Table 41 — Despatch information of goods loading message

Record 30				M
No.	Name	Format	Unit/code of measurement	Constraint
1	Record ID	n..2	Record type is 30.	M
2	Despatch location name (carrier acceptance)	an..256		M/O
3	Despatch location code (carrier acceptance)	an..35		O/M
4	Despatch date and time (carrier acceptance)	an..19	CCYYMMDDHHMMZHHMM	O
5	Consignor name	an..35		M
6	Consignor street and number/P.O.box	an..256		M
7	Country code	an..3		O
8	Communication number type	an..3		O
9	Consignor communication number	an..512		O

6.2.5.3.6 Goods receipt information

Goods receipt information of goods loading message is shown in Table 42.

Table 42 — Goods receipt information of goods loading message

Record 40				M
No.	Name	Format	Unit/code of measurement	Constraint
1	Record ID	n..2	Record type is 40.	M
2	Goods receipt place name	an..256		M/O
3	Goods receipt place code	an..35		O/M
4	Goods receipt date and time	an..19	CCYYMMDDHHMMZHHMM	O
5	Consignee name	an..35		M
6	Consignee street and number/p.o.box	an..256		M
7	Country code	an..3		O
8	Communication number type	an..3		O
9	Consignee communication number	an..512		O

6.2.5.3.7 Calling location information

Calling location information of goods loading message is shown in Table 43.

Table 43 — Calling location information of goods loading message

Record 50				M
No.	Name	Format	Unit/code of measurement	Constraint
1	Record ID	n..2	Record type is 50.	M
2	Port call sequence number	n..2		M
3	Calling location name	an..256		M/O
4	Calling location code	an..35		O/M
5	Calling terminal name	an..256		O
6	Estimated arrival date and time	an..19	CCYYMMDDHHMMZHHMM	O

6.2.5.3.8 Goods loading/unloading record

Goods loading/unloading record of goods loading message is shown in Table 44.

Table 44 — Goods loading/unloading record of goods loading message

Record 60				M
No.	Name	Format	Unit/code of measurement	Constraint
1	Record ID	n..2	Record type is 60.	M
2	Loading/unloading code	an..1	L-Loading,U-Unloading	M
3	Start date and time	an..19	CCYYMMDDHHMMZHHMM	M
4	End date and time	an..19	CCYYMMDDHHMMZHHMM	M
5	Place of loading name	an..256		M/O
6	Place of loading code	an..35		O/M
7	Place of unloading name	an..256		M/O
8	Place of unloading code	an..35		O/M
9	Arrival date and time	an..19	CCYYMMDDHHMMZHHMM	O

6.2.5.3.9 Goods item information

Goods item information of goods loading message is shown in Table 45.

Table 45 — Goods item information of goods loading message

Record 70				M
No.	Name	Format	Unit/code of measurement	Constraint
1	Record ID	n..2	Record type is 70.	M
2	Goods item sequence number	n..5		M
3	Goods item type code	an..8		O
4	Goods item name (shipping description)	an..512		O
5	Carrier split consignment indicator	an..1	0 - no, 1 - yes	M
6	Customs procedure code	an..3	22-Export goods, 23-Import goods 28-International transshipment, 24-Transit goods.	M
7	Package type name	an..35		M/O
8	Package type code	an..17	For bulk goods, the number of pieces - "BB"	O/M
9	Place or country whence consigned code	an..35		M
10	Number of packages per commodity	n..8		M
11	Total number of packages	n..8	For bulk goods, the number of pieces - "1"	M

Table 45 *(continued)*

Record 70				M
No.	**Name**	**Format**	**Unit/code of measurement**	**Constraint**
12	Goods item gross weight	n..14	Unit: Ton (t)	O
13	Goods item net weight	n..16	Unit: Ton (t)	O
14	Goods item gross cube measurement	n..9	Unit: Cubic metre (m^3)	O
15	Brief goods description	an..256		O
16	Goods item HS code	an..10		M
17	Free text	an..512		O

6.2.5.3.10 Dangerous goods and reefer information

Dangerous goods and reefer information of goods loading message is shown in Table 46.

Table 46 — Dangerous goods and reefer information of goods loading message

Record 80				M
No.	**Name**	**Format**	**Unit/code of measurement**	**Constraint**
1	Record ID	n..2	Record type is 80.	M
2	Dangerous goods hazard class code	an..7		M
3	United nations dangerous goods number	n..4		M
4	Dangerous goods label marking	an..512		O
5	Dangerous goods flashpoint	an..8	Unit: Celsius (°C)	O
6	Dangerous goods EMS number	an..6		O
7	MFAG number	an..4		O
8	Communication number type	an..3		O
9	Dangerous goods emergency contact number	an..35		O
10	Goods stowage location code	an..35		O
11	Temperature type code	an..3	CEL FAH	O
12	Temperature setting	n..15	CEL FAH	O
13	Min. temperature	n..5	CEL FAH	O
14	Max. temperature	n..5	CEL FAH	O
15	Free text	an..512		O

6.2.5.3.11 Transport equipment information

Transport equipment information of goods loading message is shown in Table 47.

Table 47 — Transport equipment information of goods loading message

Record 90				M
No.	Name	Format	Unit/code of measurement	Constraint
1	Record ID	n..2	Record type is 90.	M
2	Transport equipment sequence number	n..11	Adopt ISO 6346	M
3	Transport equipment category code	an..2	RR-Rail Car, TE-Road Trailer	M
4	Transport equipment characteristic code	an..10		M
5	Transport equipment net weight	n..5	KGM	M
6	Transport equipment gross weight	n..14	KGM	M
7	Transport equipment gross cube measurement	n..5	KGM	O
8	Seal type	an..1		M
9	Seal number	an..35		M
10	Transport equipment owner name	an..35		O
11	Transport equipment operator name	an..35		M/O
12	Transport equipment operator code	an..17		O/M
13	Free text	an..512		O

6.2.5.3.12 Trailer

Trailer of goods loading message is shown in Table 48.

Table 48 — Trailer of goods loading message

Record 99				M
No.	Name	Format	Unit/code of measurement	Constraint
1	Record ID	n..2	Record type is 99.	M
2	Total record document	n..6	Including head record and trailer record	M

6.2.6 Transport means and goods release message

6.2.6.1 Basic requirements

6.2.6.1.1 Message name: transport means and goods release message.

6.2.6.1.2 Message sender: transportation enterprises, such as shipping companies, consignors and freight forwarders. Message receiver: destination units for transporting goods, such as ports, airports, railway stations, freight stations and regulatory authorities.

6.2.6.1.3 The message should provide the releasing information of transport means and goods.

6.2.6.2 Message structure

6.2.6.2.1 Overview

Transport means and goods release message shall consist of header, other receivers, transport means basic information, transport means release record, transport document information, goods release record and trailer. Figure 59 shows the general overview of the message.

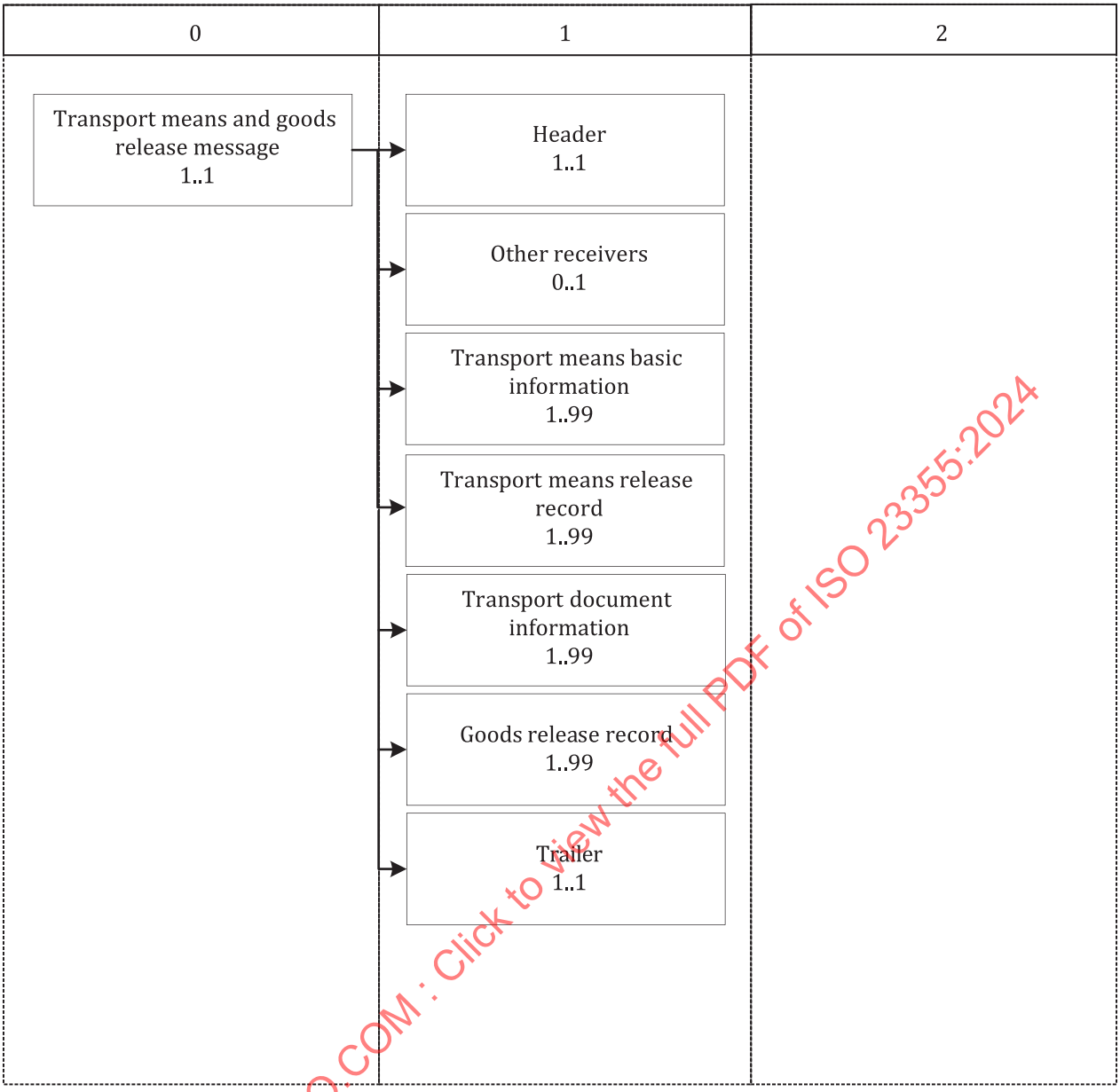


Figure 59 — Overview of transport means and goods release message

6.2.6.2.2 Header

The header of transport means and goods release message should contain the data element items and descriptions shown in Figure 60.

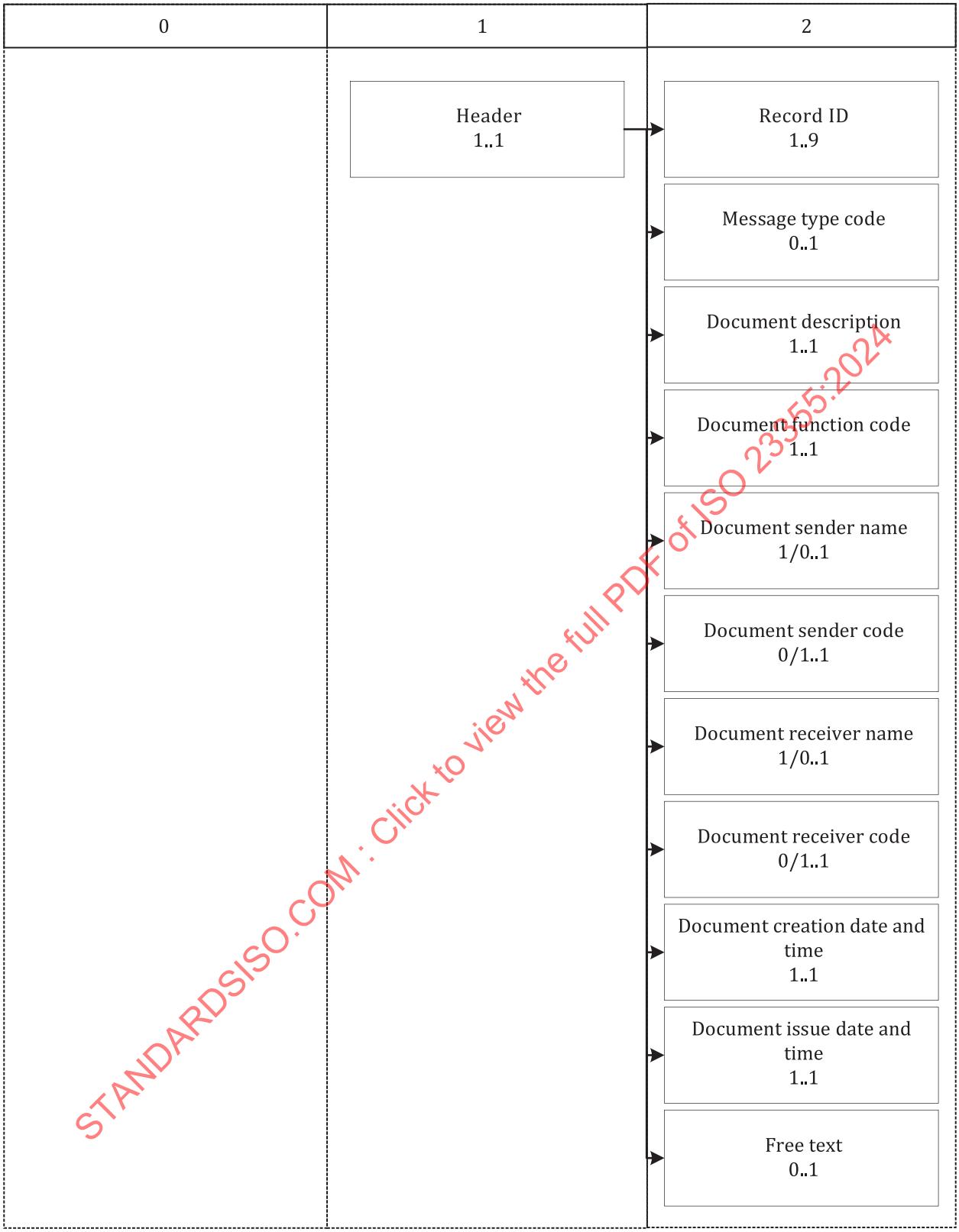


Figure 60 — Header of transport means and goods release message

6.2.6.2.3 Other receivers and transport means basic information

Other receivers and transport means basic information of transport means and goods release message should contain the data element items and descriptions shown in Figure 61.

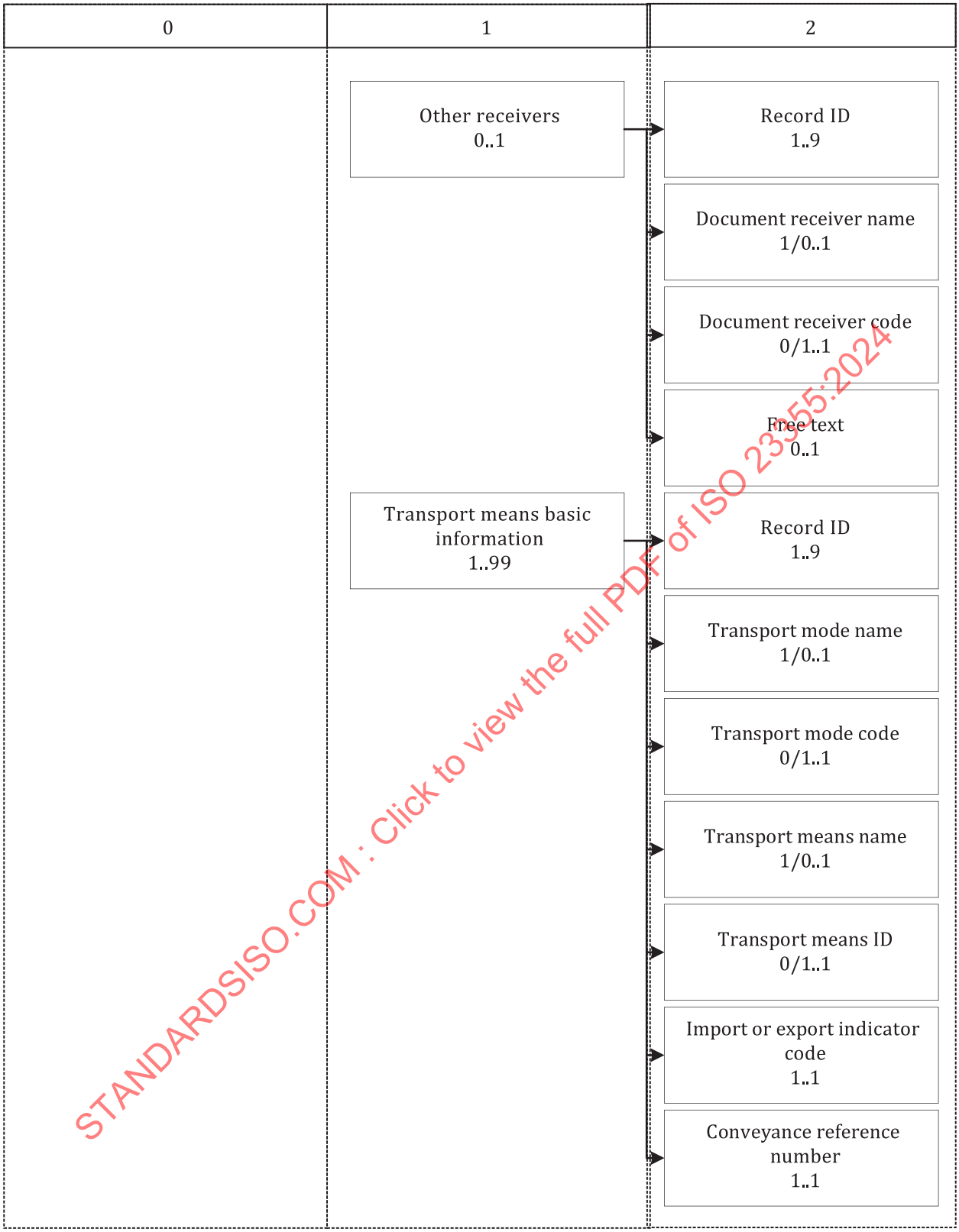


Figure 61 — Other receivers and transport means basic information of transport means and goods release message

6.2.6.2.4 Transport means basic information (continued), transport means release record and transport document information

Continued from Figure 61, transport means basic information, transport means release record and transport document information of transport means and goods release message should contain the data element items and descriptions shown in Figure 62.

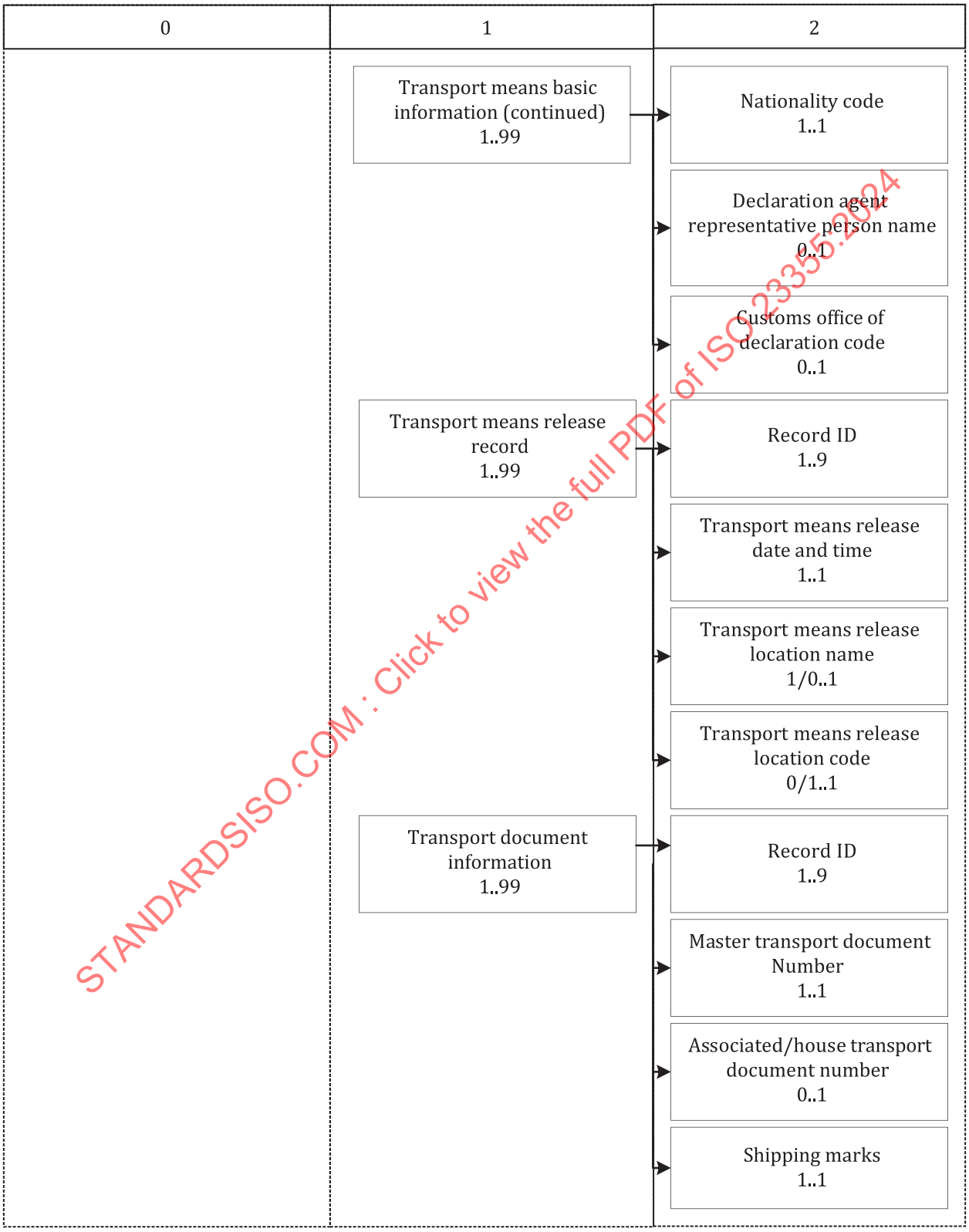


Figure 62 — Transport means basic information (continued), transport means release record and transport document information of transport means and goods release message

6.2.6.2.5 Transport document information (continued) and goods release record

Continued from Figure 62, transport document information and goods release record of transport means and goods release message should contain the data element items and descriptions shown in Figure 63.

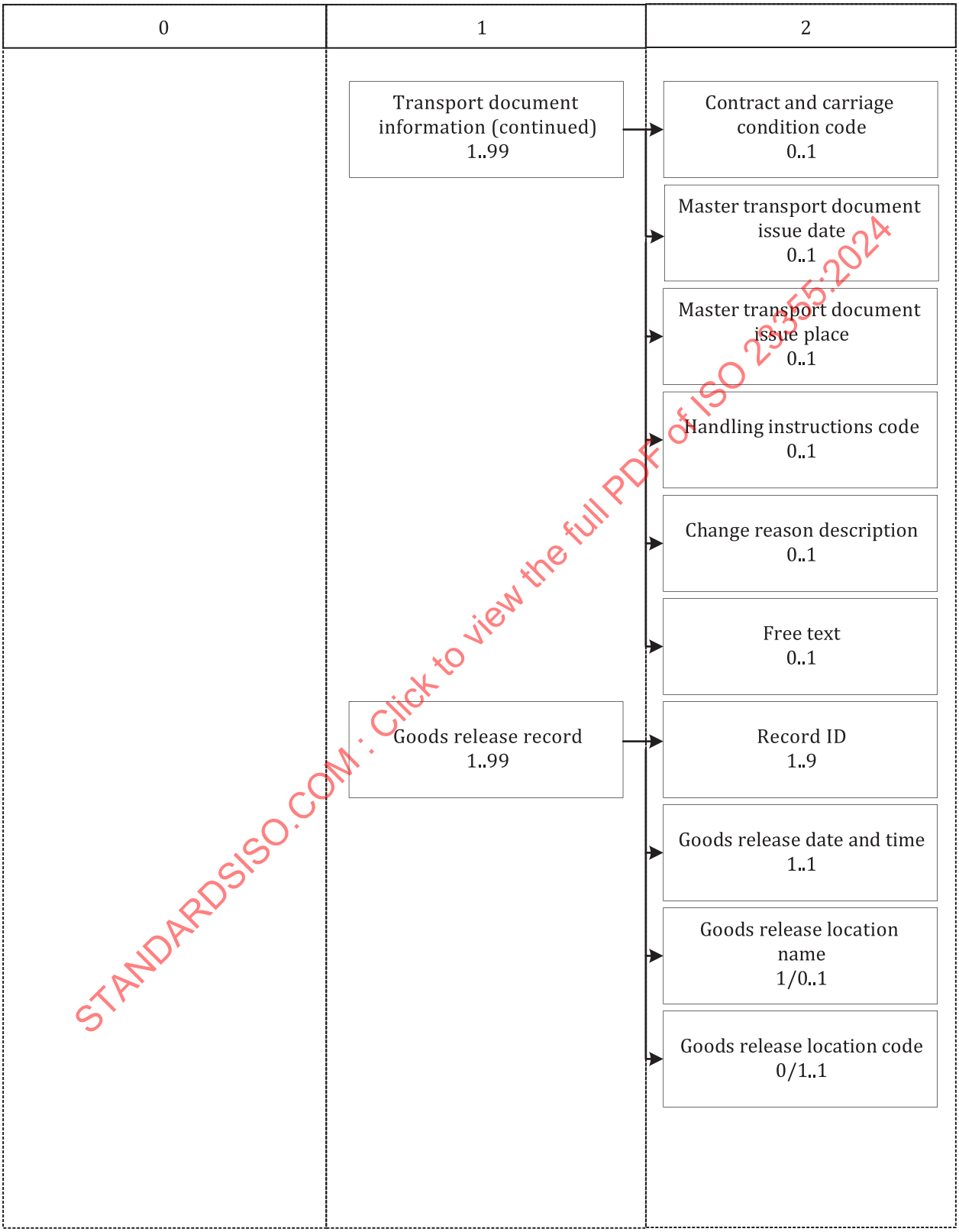


Figure 63 — transport document information(continued) and goods release record of transport means and goods release message