



BSI Standards Publication

Visibility data interchange among logistics information service providers

National foreword

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**International
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ISO 23355

**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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This document was prepared by Technical Committee ISO/TC 154, *Processes, data elements and documents in commerce, industry and administration*.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

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

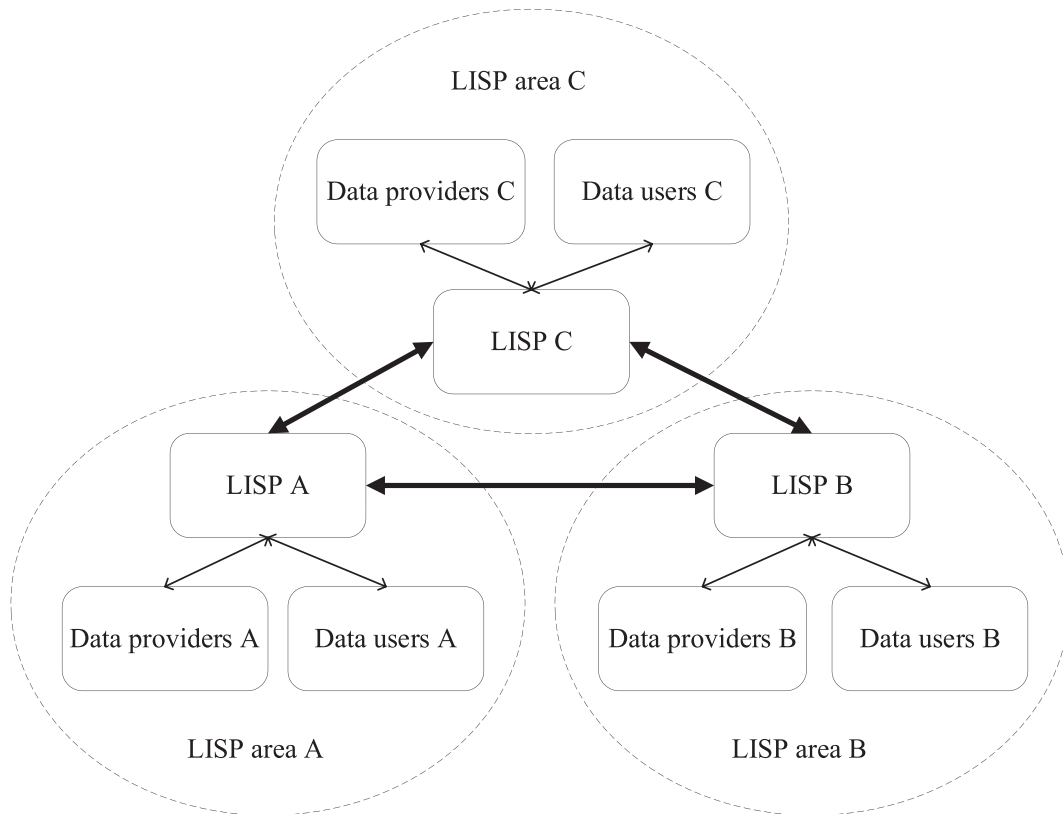
4 Framework of logistics information service providers interconnection

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.

- 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.
- Confidentiality: To protect sensitive information of participated parties, information exchange shall be conducted with the prerequisite of data providers' consent.
- 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.
- Distribution: Providing services with a distributed database, store and replicate data based on a distributed framework.
- Convenience: The latest logistics data sharing and query service between LISP in different regions can be realized by using APIs.
- 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.
- 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](#).

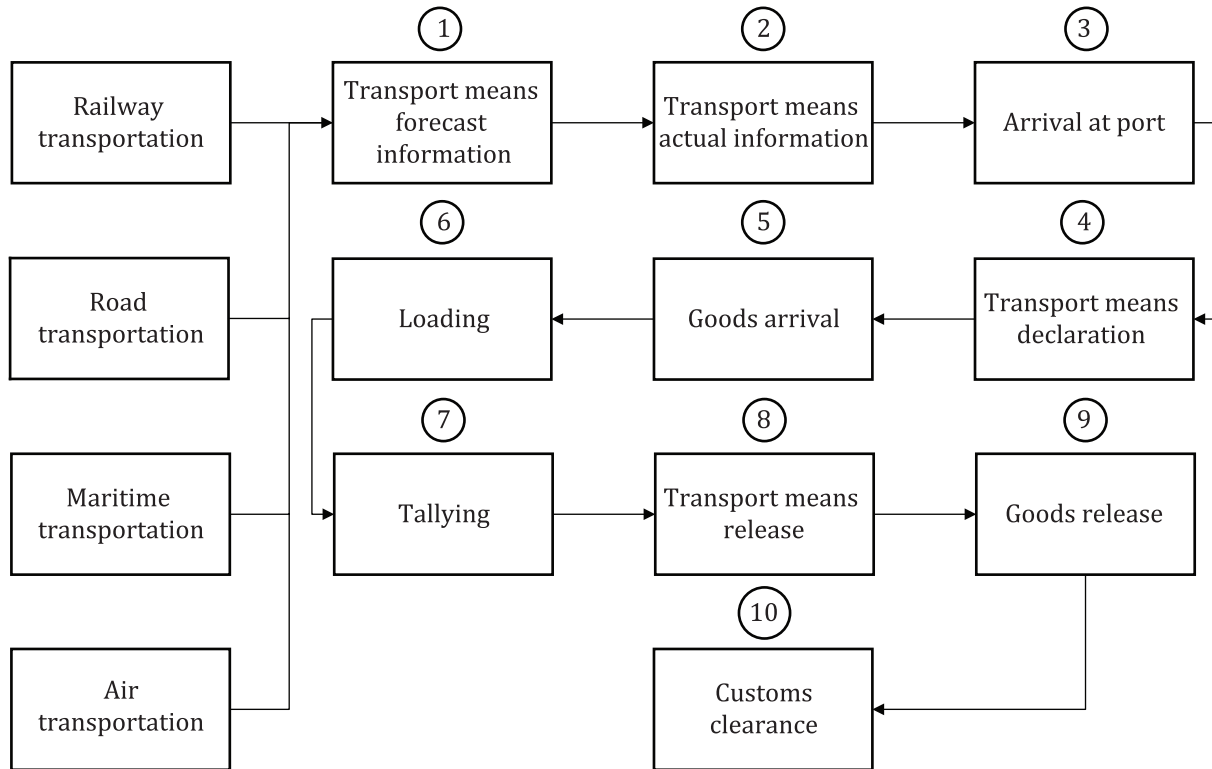


Figure 2 — Import process



6

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 message should be used for logistics import/export information service data interchange, as shown in [Figure 4](#).

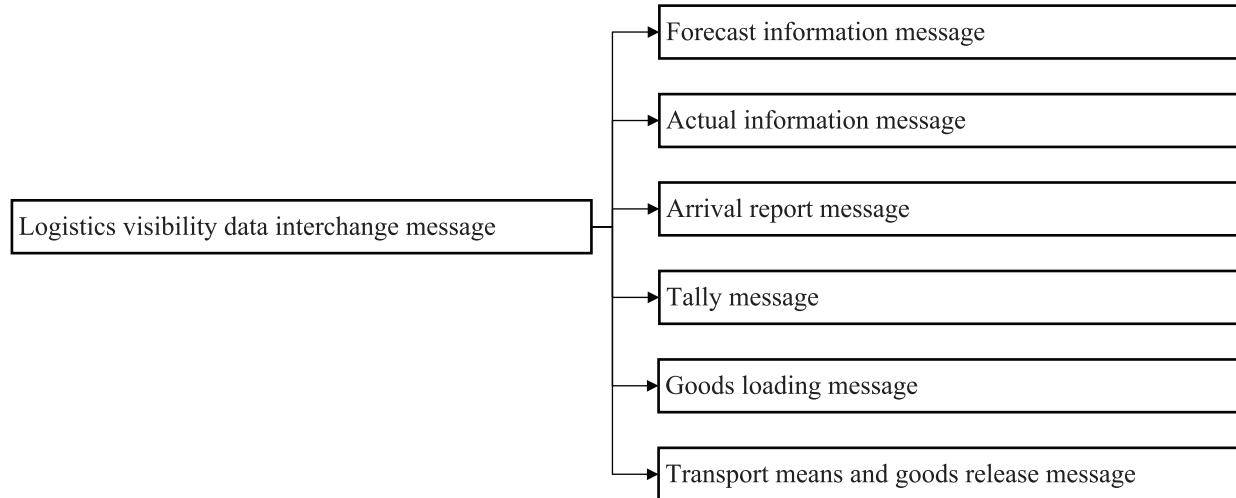


Figure 4 — Logistics visibility data interchange message

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.

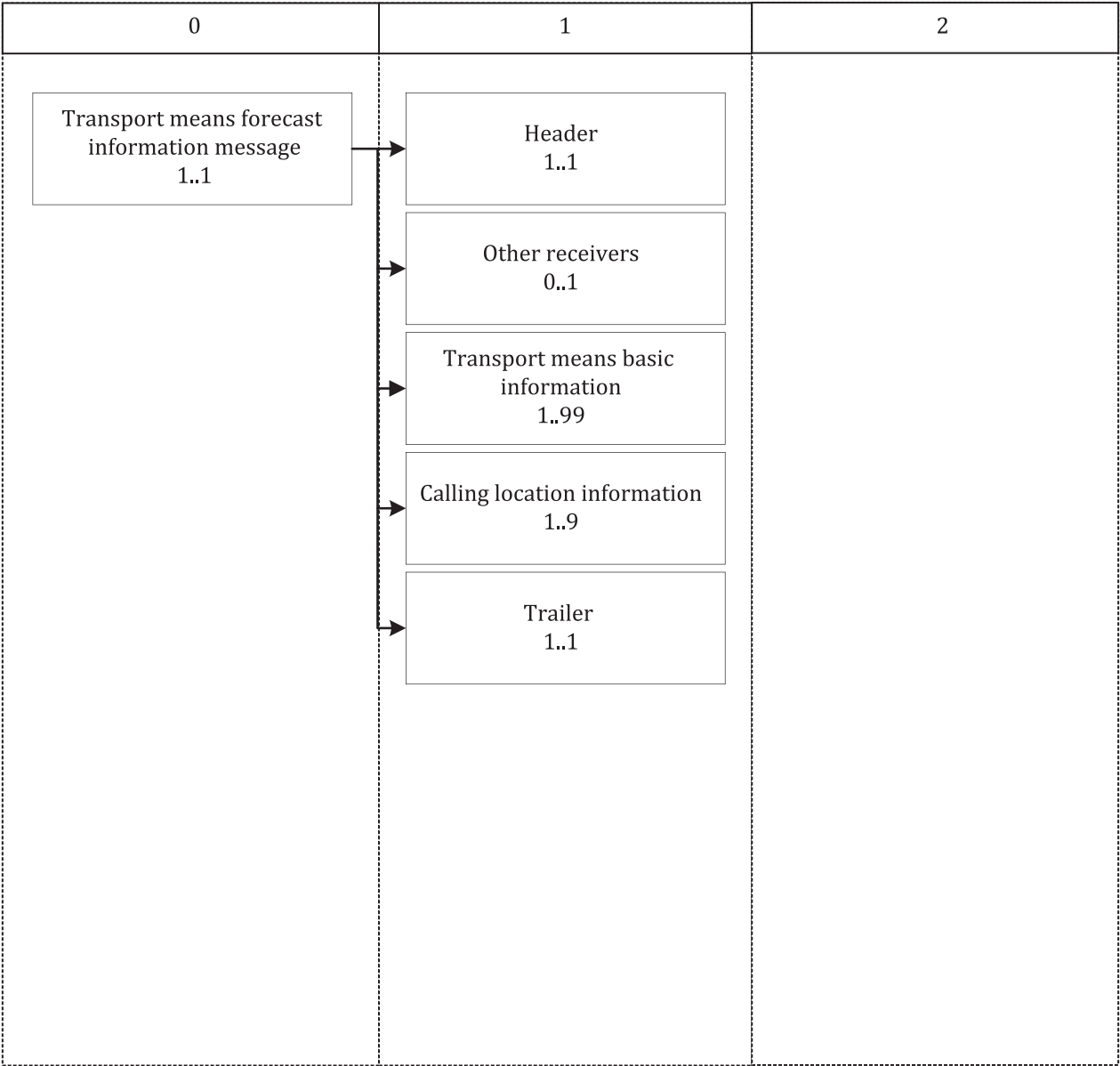


Figure 5 — Overview of forecast information message

6.2.1.2.2 Header

The header of forecast information message should contain the data element items and descriptions shown in [Figure 6](#).

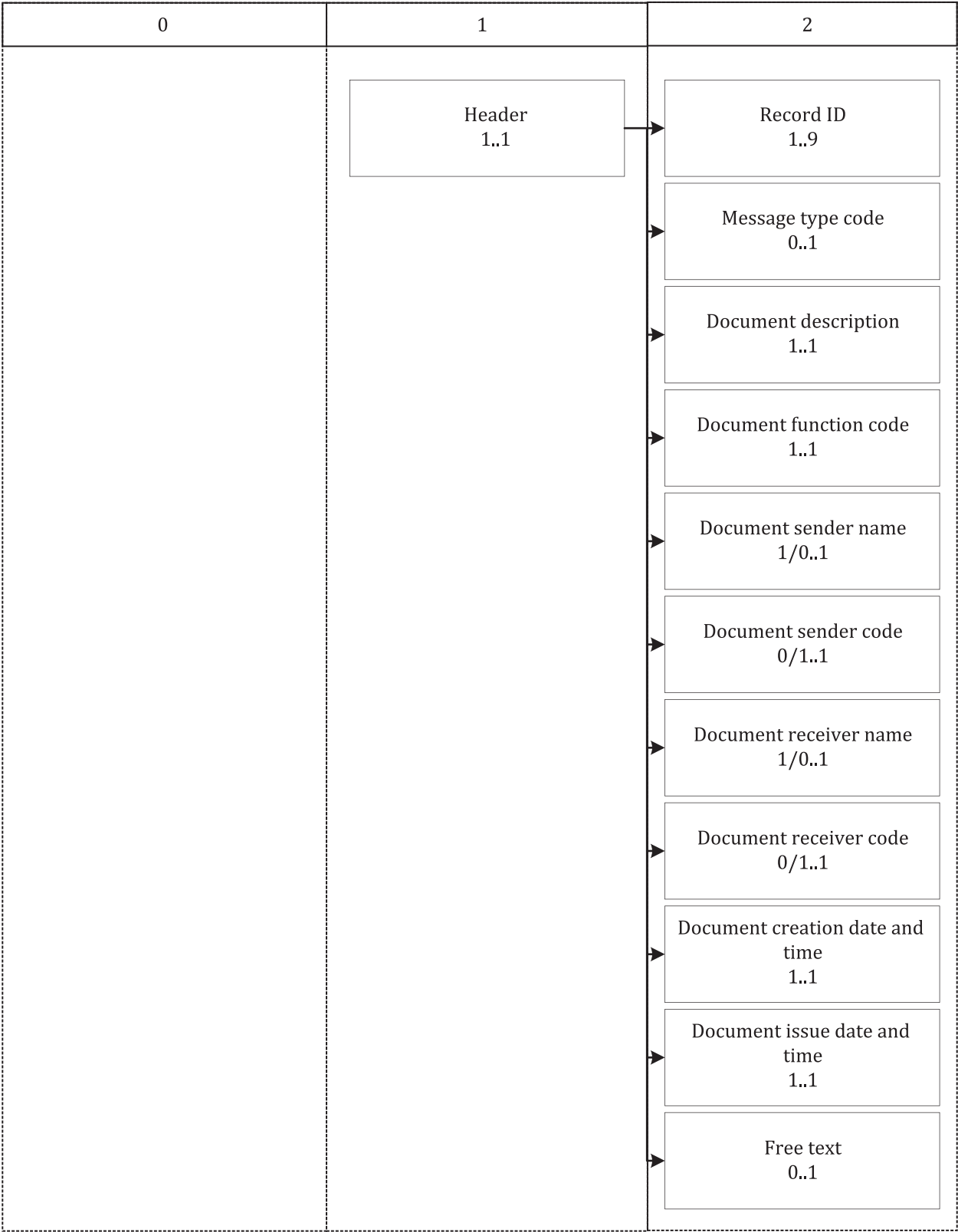


Figure 6 — Header of forecast information message

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](#).

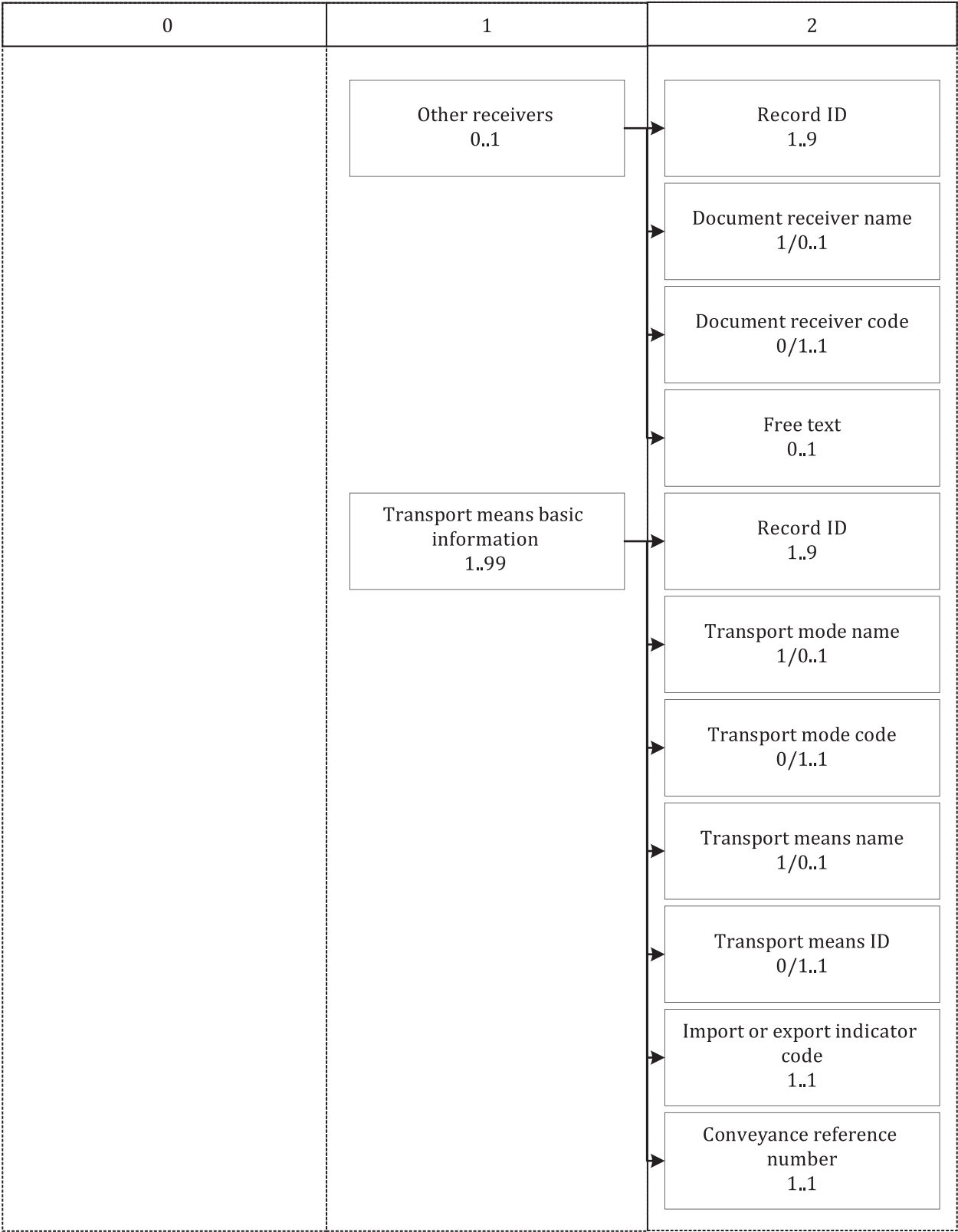


Figure 7 — Other receivers and part of transport means basic information of forecast information message

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](#).

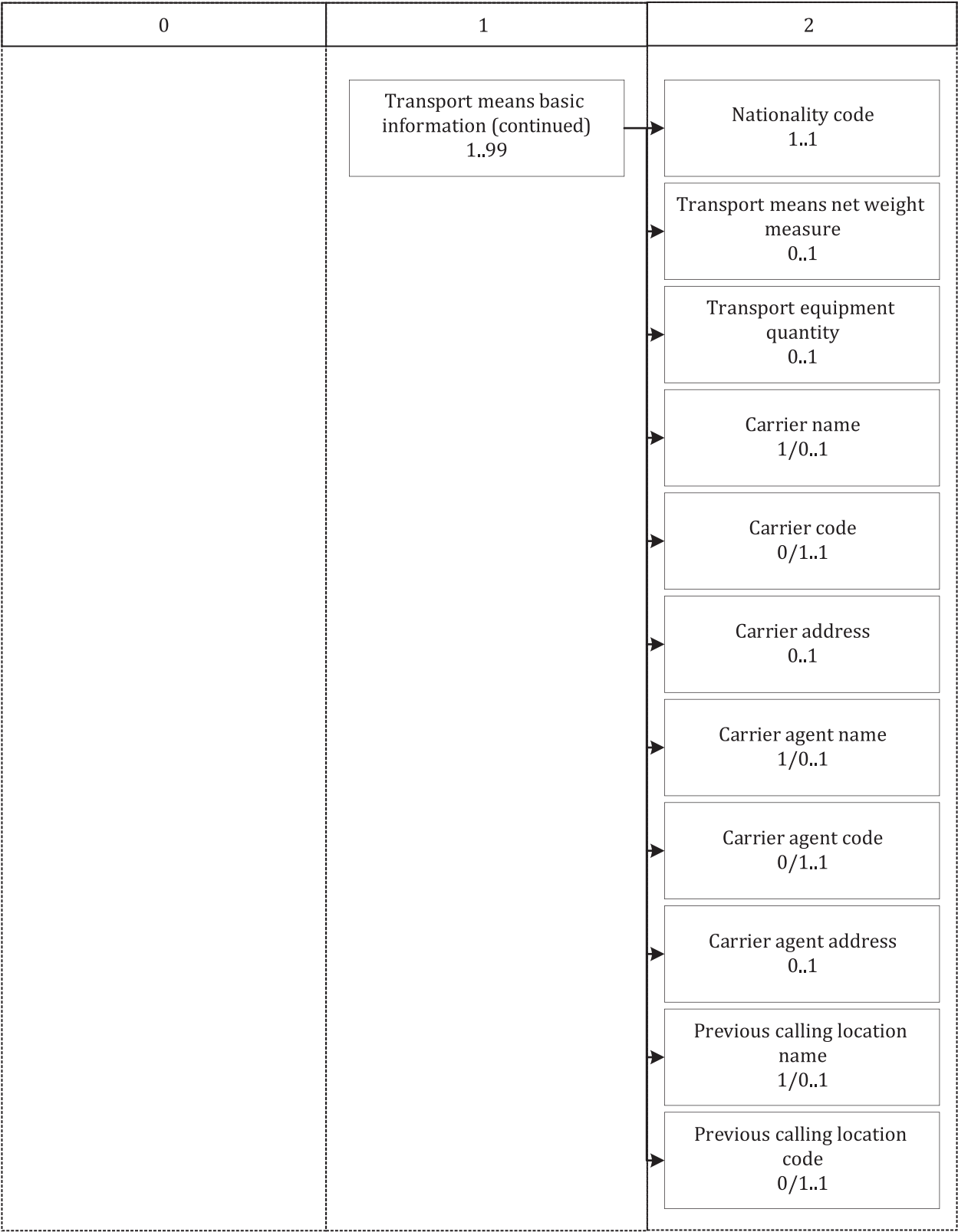


Figure 8 — Transport means basic information (continued) of forecast information message

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](#).

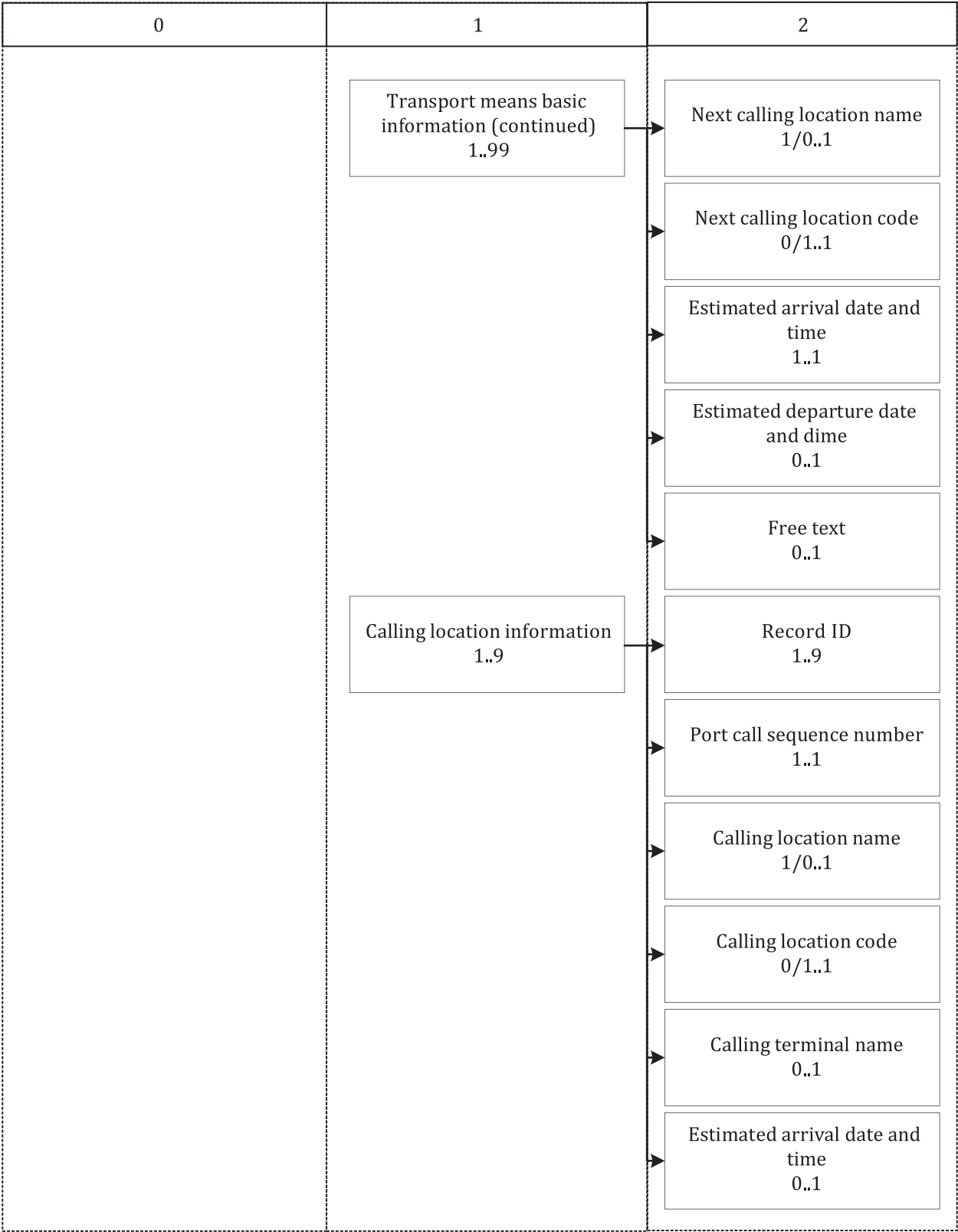


Figure 9 — Transport means basic information (continued) and calling location information of forecast information message

6.2.1.2.6 Trailer

The trailer of forecast information message should contain the data element items and descriptions shown in [Figure 10](#).

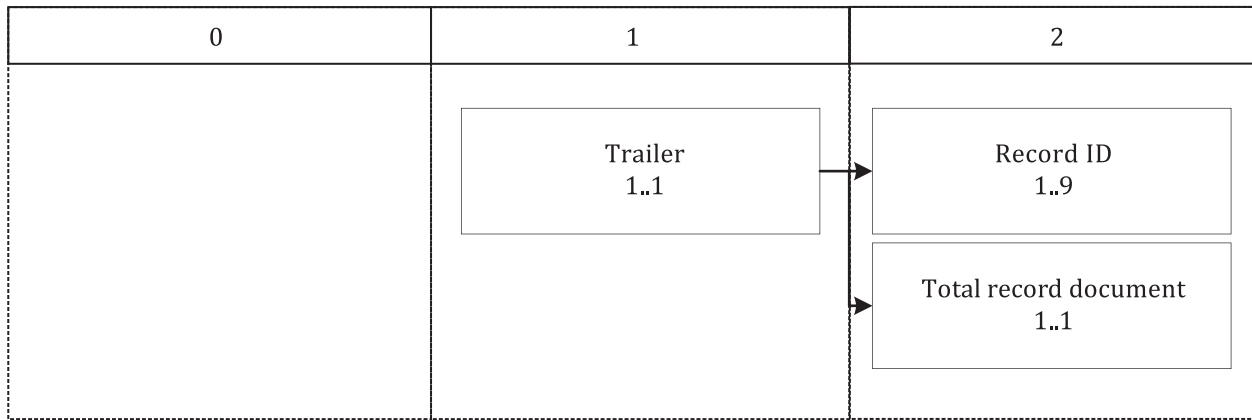


Figure 10 — Trailer of forecast information message

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.

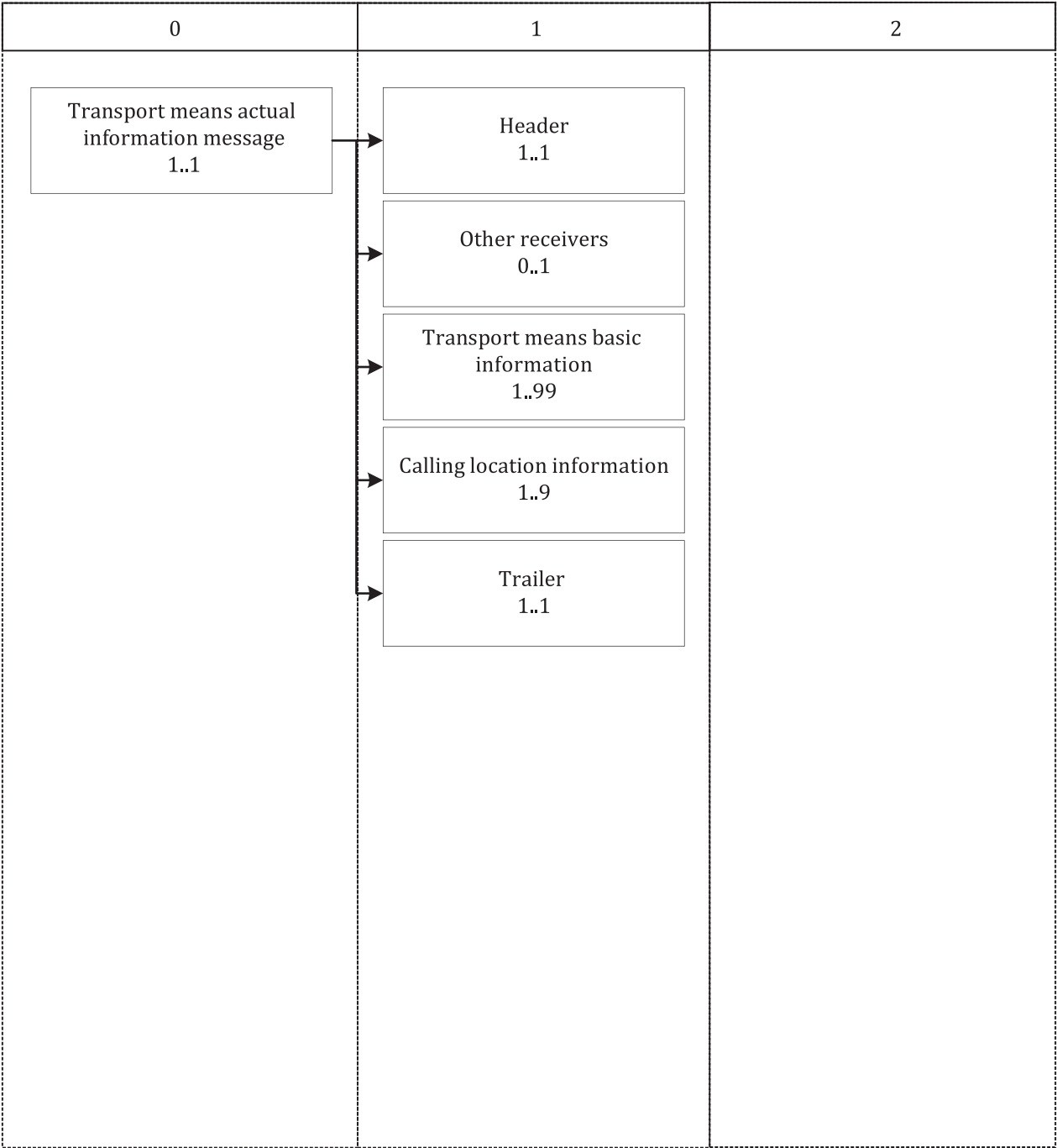


Figure 11 — Overview of actual information message

6.2.2.2.2 Header

The header of actual information message should contain the data element items and descriptions shown in [Figure 12](#).

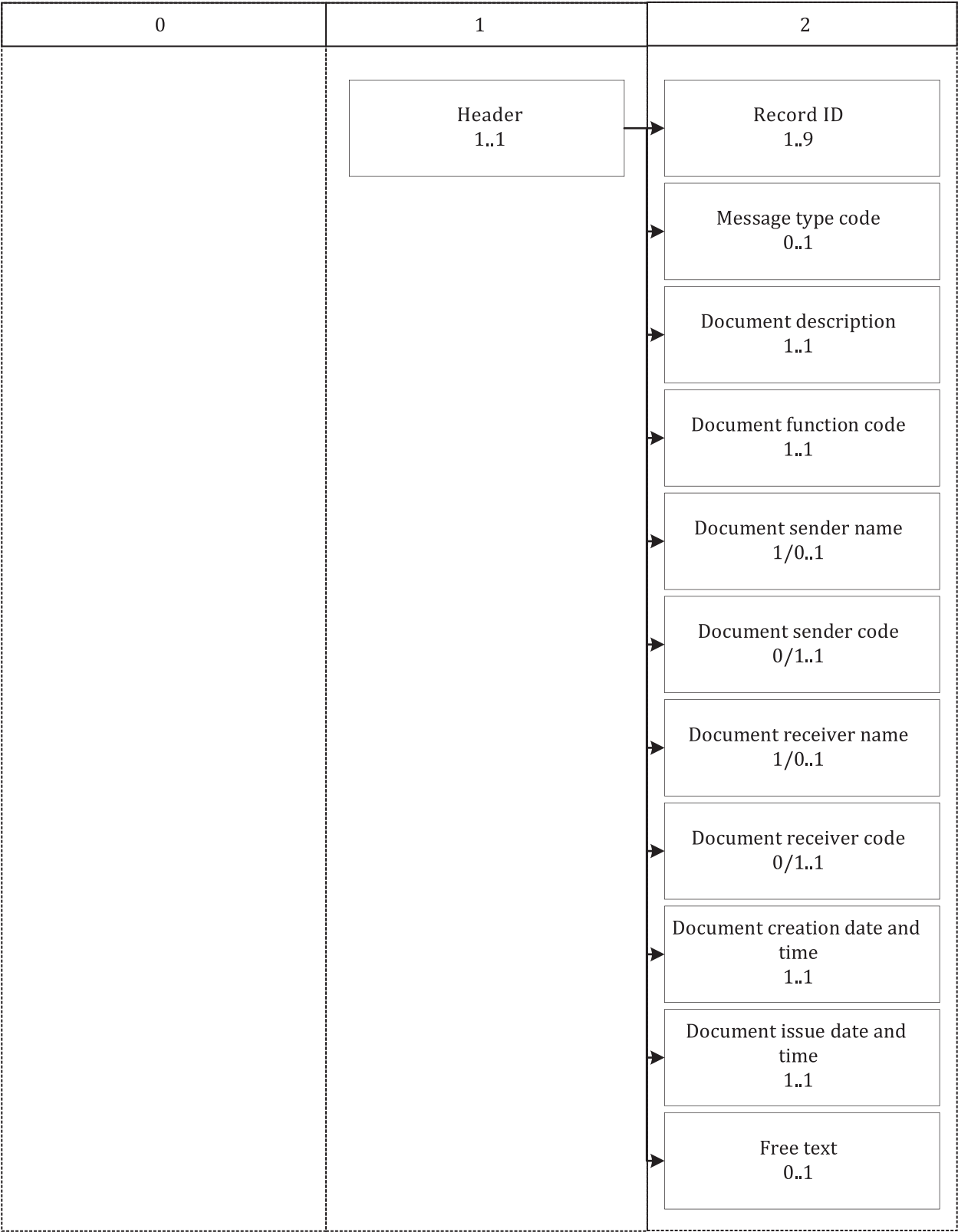


Figure 12 — Header of actual information message

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](#).

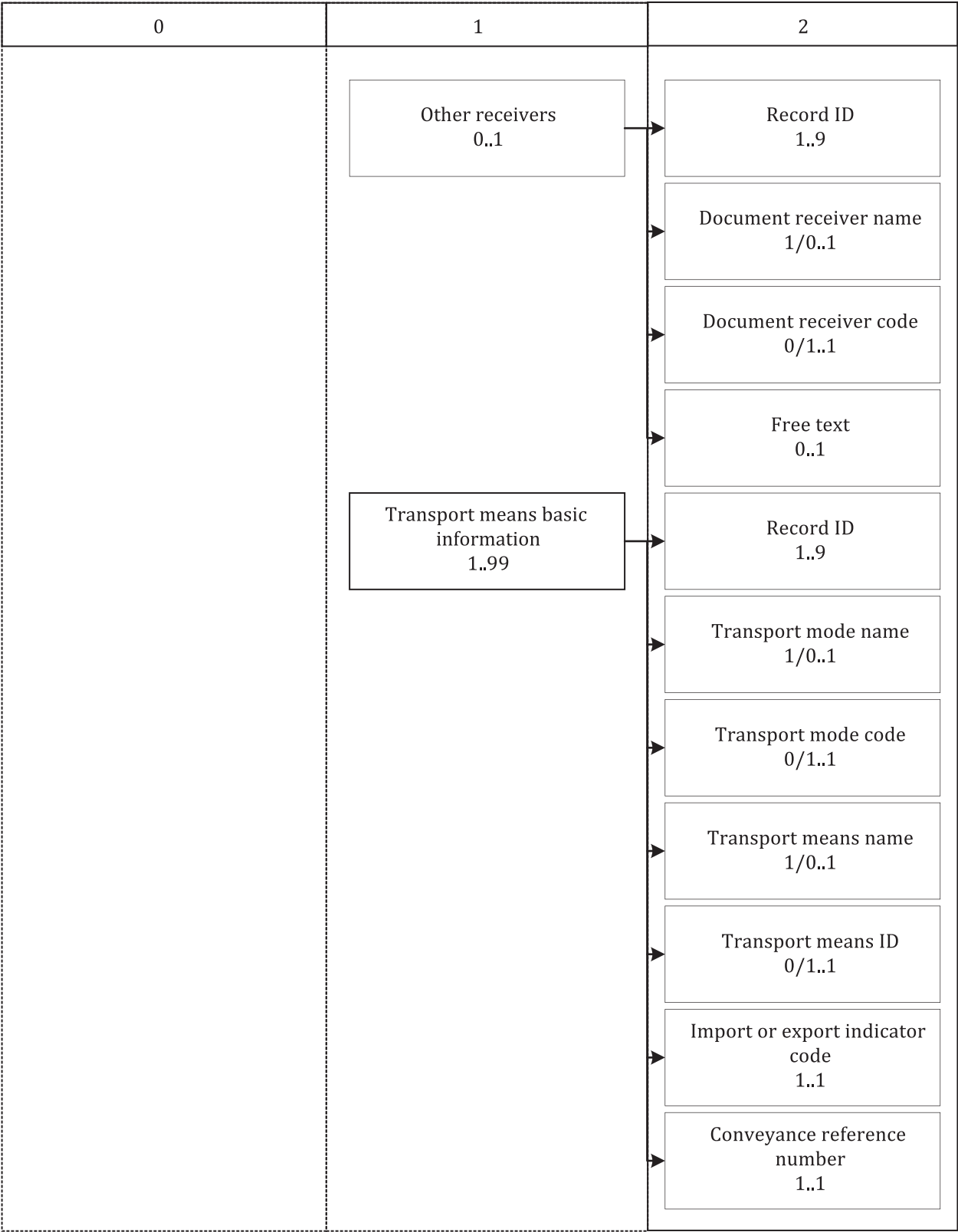


Figure 13 — Other receivers and part of transport means basic information of actual information message

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](#).

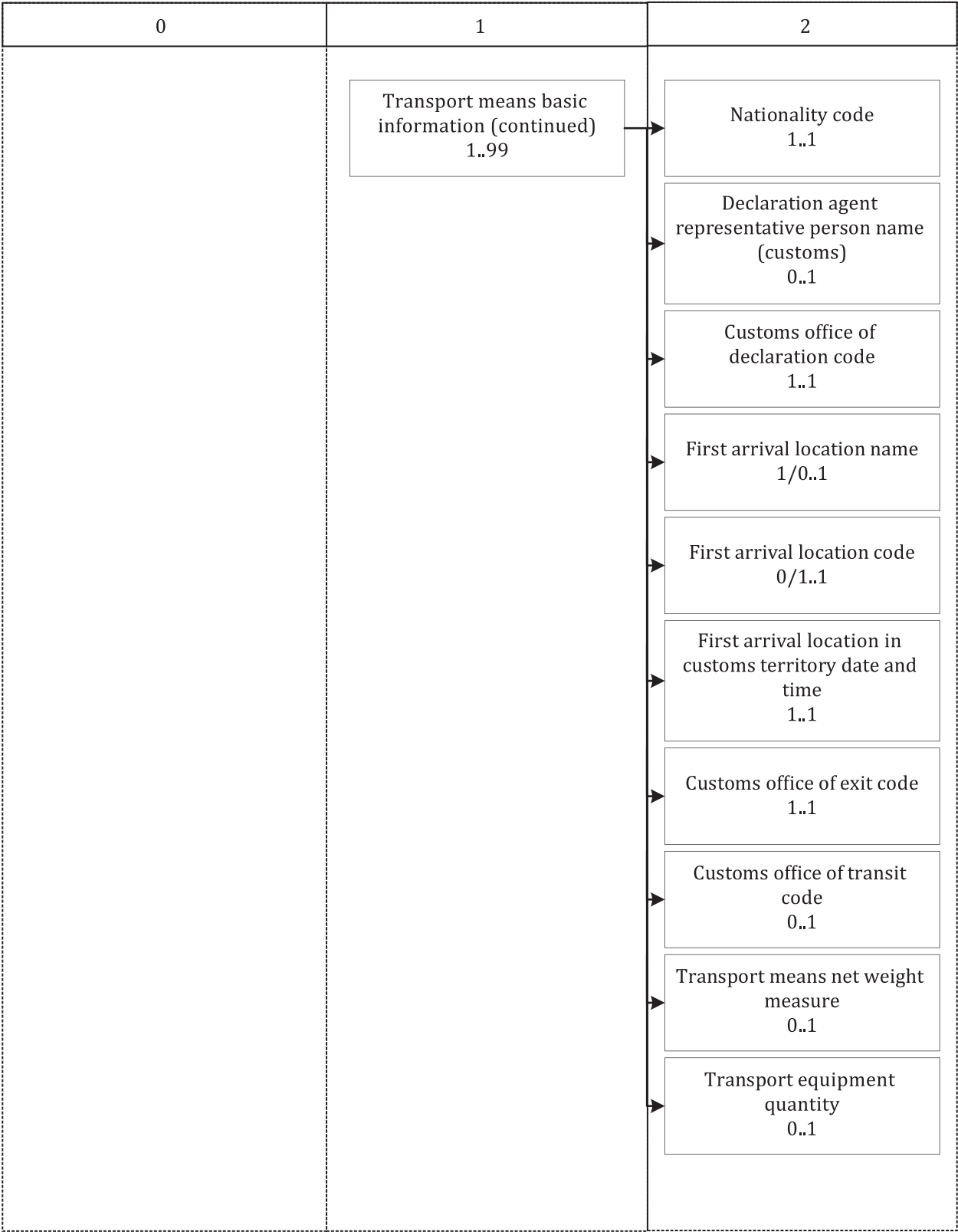


Figure 14 — Transport means basic information (continued) of actual information message

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](#).

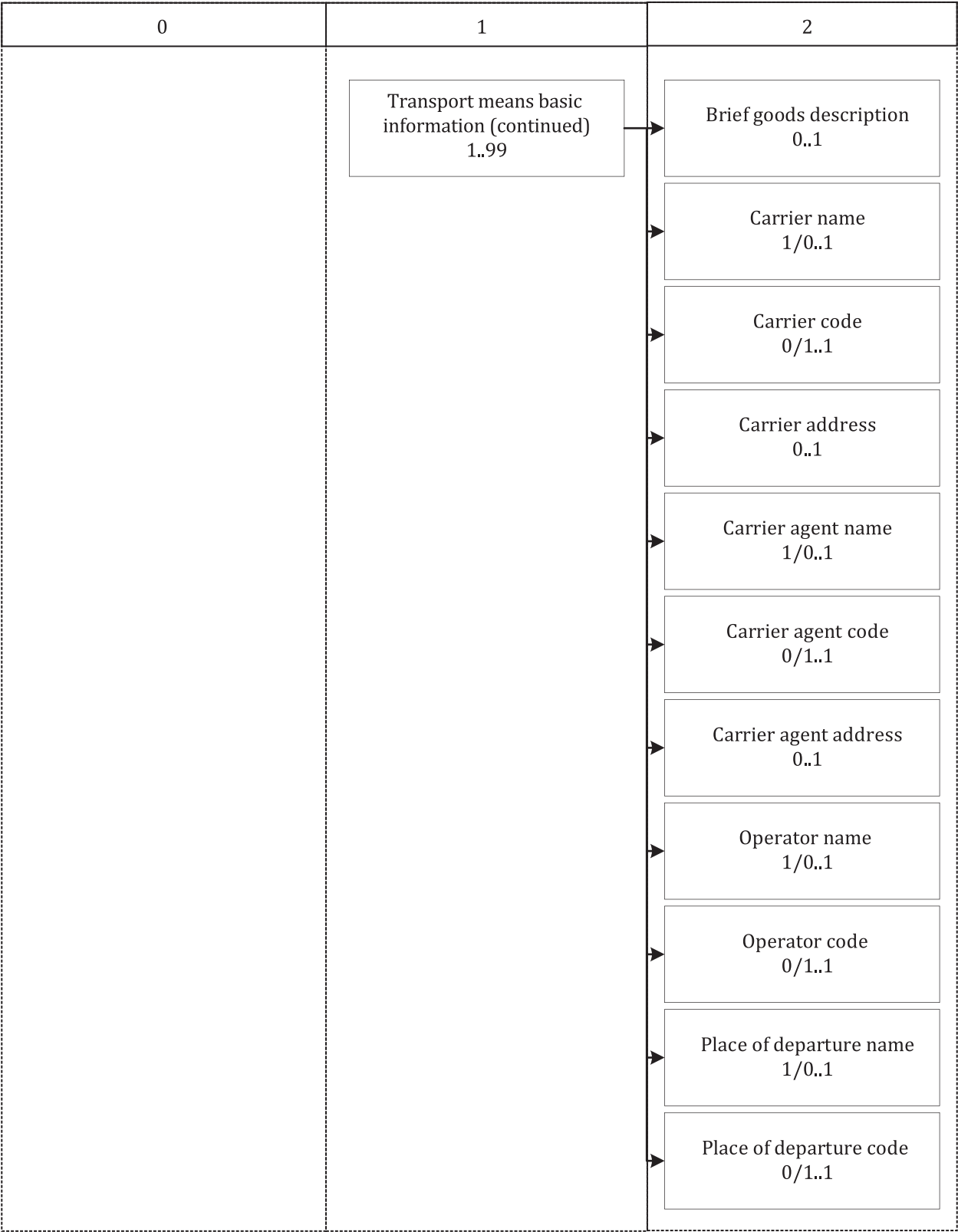


Figure 15 — Transport means basic information (continued) of actual information message

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](#).

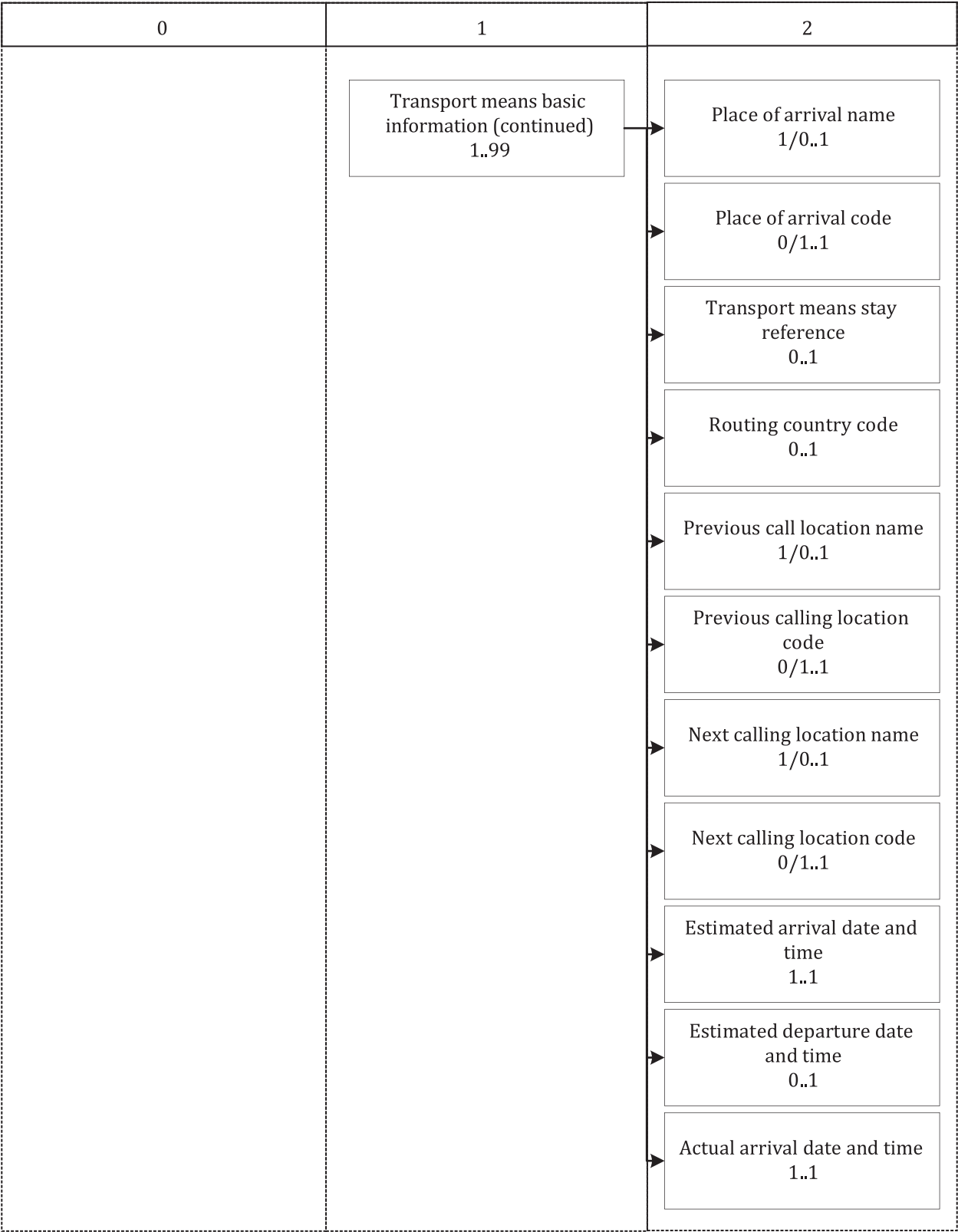


Figure 16 — Transport means basic information (continued) of actual information message

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](#).

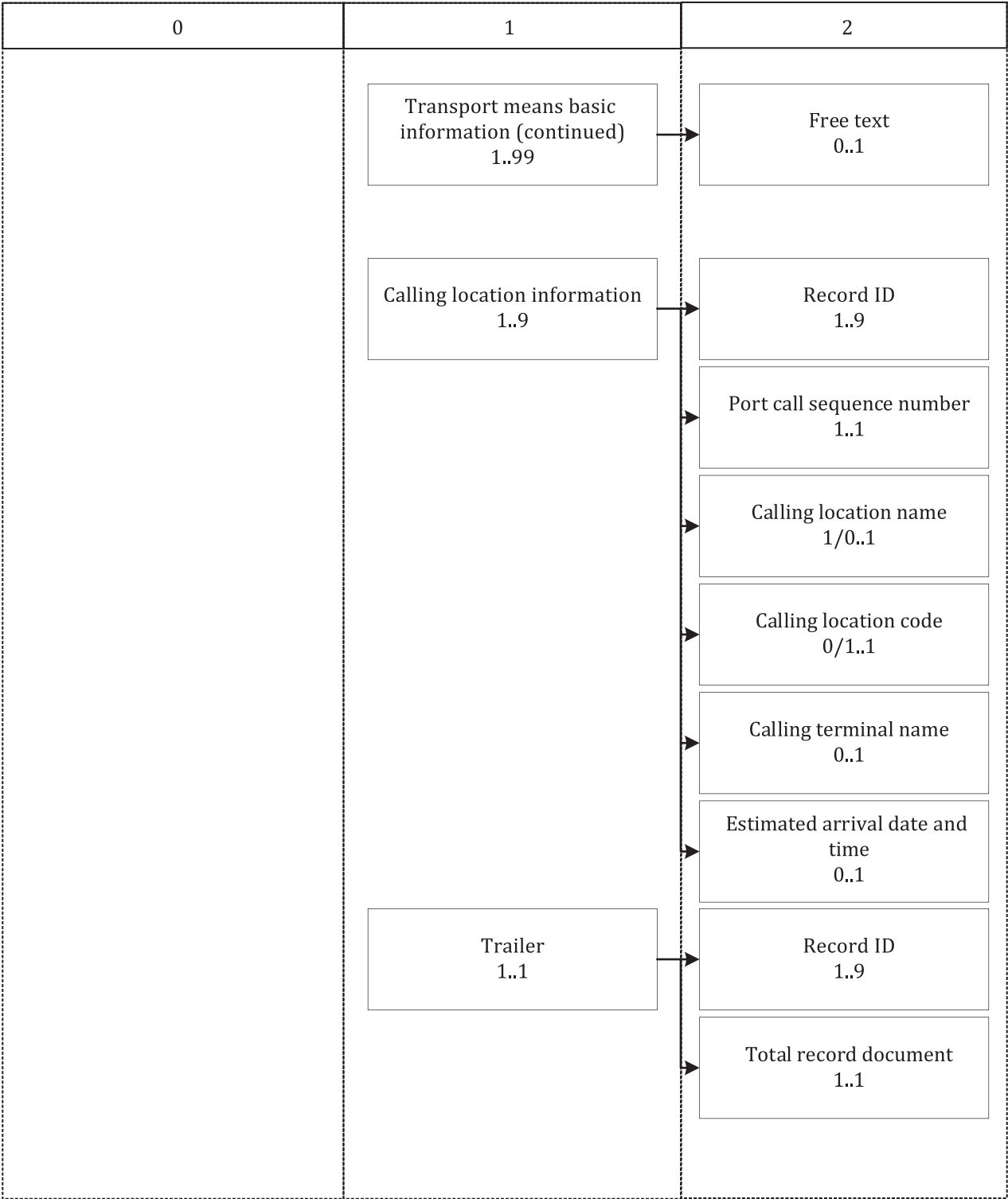


Figure 17 — Transport means basic information (continued), calling location information and trailer of actual information message

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.

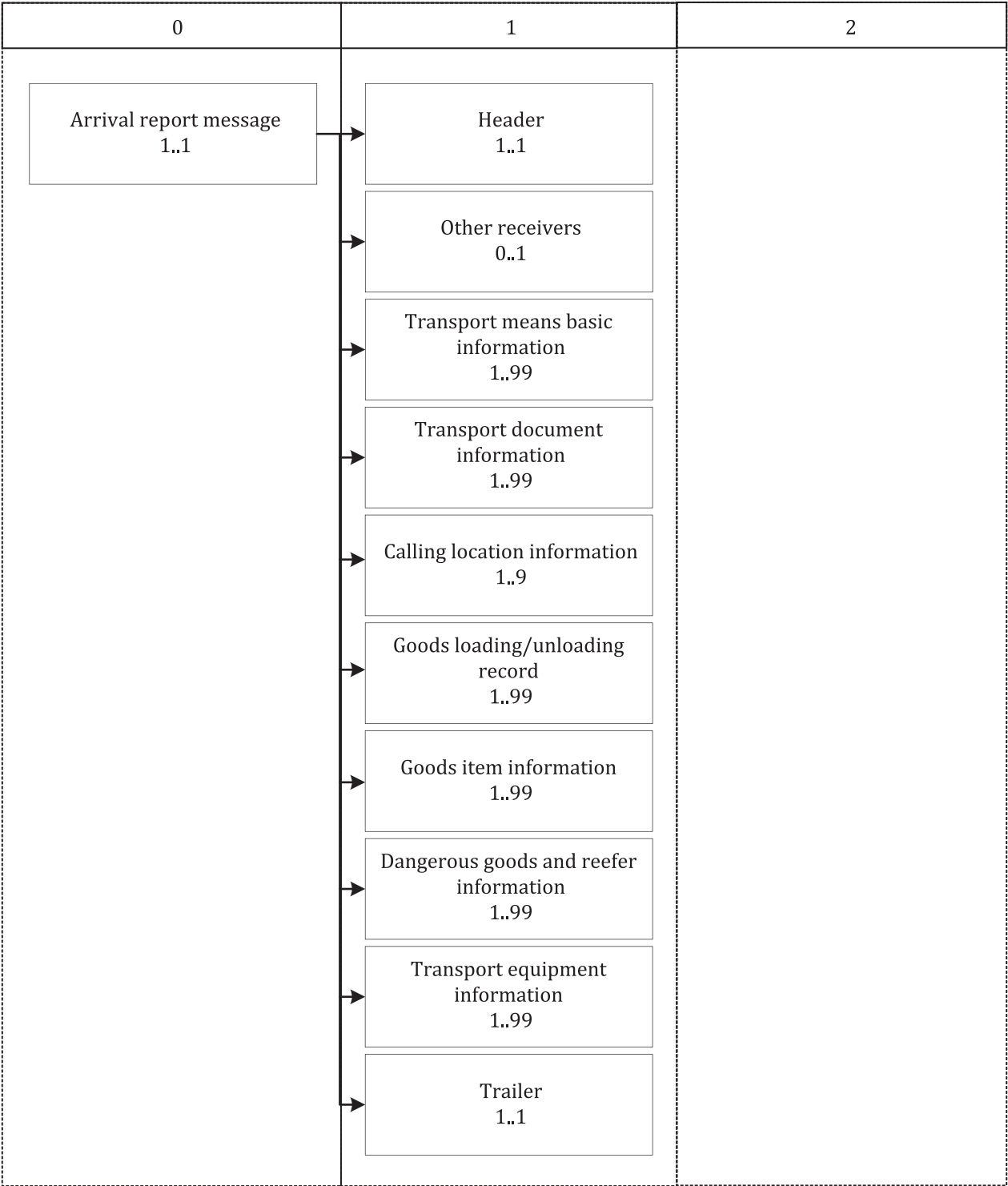


Figure 18 — Overview of actual report message

6.2.3.2.2 Header

The header of arrival report message should contain the data element items and descriptions shown in [Figure 19](#).

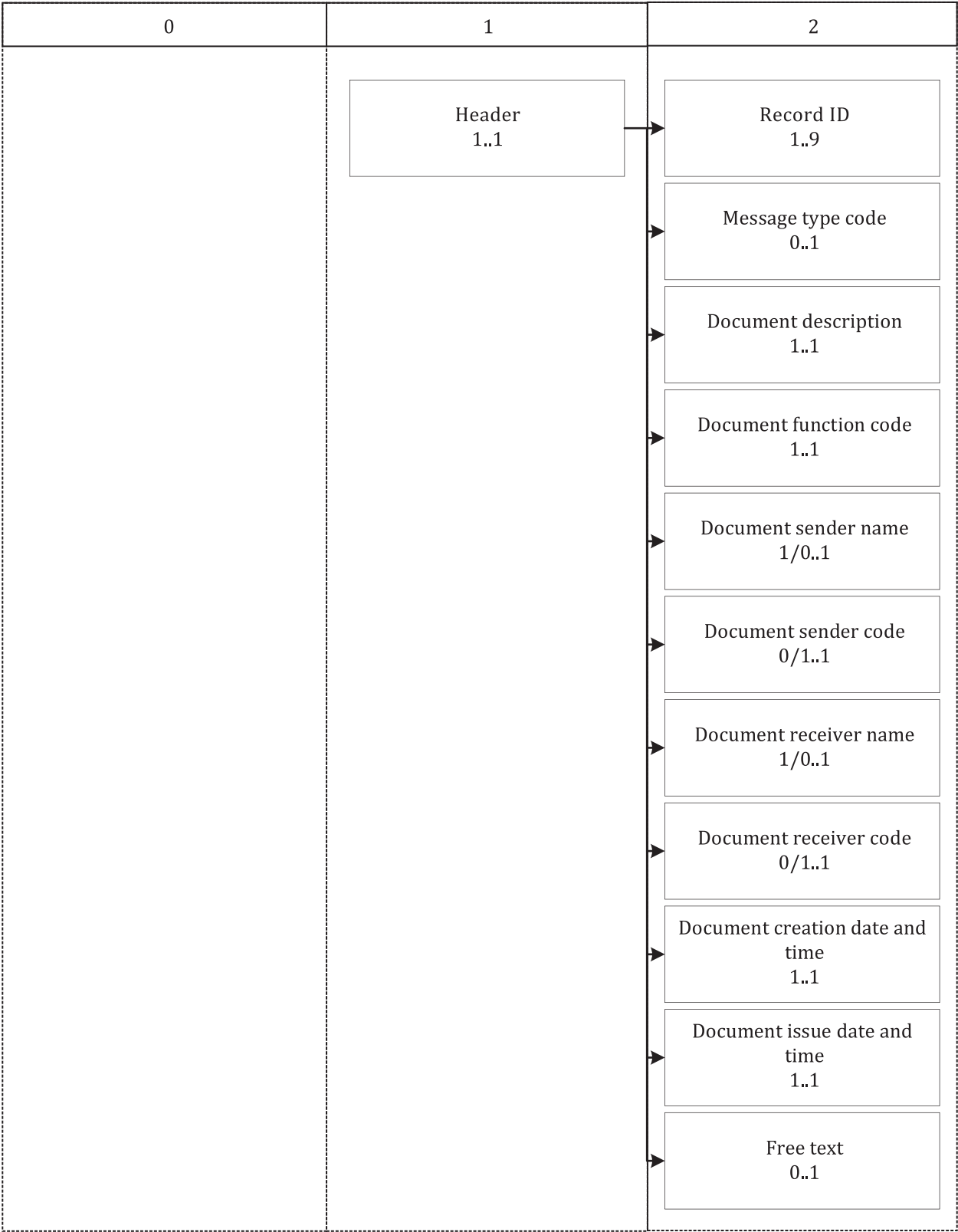


Figure 19 — Header of arrival report message

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](#).