

## **Data distribution - Schemas – Missing benefits payment reports – 2027**

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### **Incomes Register Unit**

**Version history**

Version	Date	Description
1.0	27/10/2025	Document published.



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## 1 GENERAL

### 1.1 Schema

Benefits payment reports are delivered from the Incomes Register using the **MissingBenefitReportsFromIR** schema.

The namespaces of the schema are the following:

File name	Prefix	Namespace
	xmlns:xs	http://www.w3.org/2001/XMLSchema
MissingBenefitReportsFromIR.xsd	xmlns:mbrfir	http://www.tulorekisteri.fi/2027/1/MissingBenefitReportsFromIR
MissingBenefitReportsFromIRTypes.xsd	xmlns:mbrfir t	http://www.tulorekisteri.fi/2027/1/MissingBenefitReportsFromIRTypes
StatusMessageTypes.xsd	xmlns:smt	http://www.tulorekisteri.fi/2017/1/StatusMessageTypes
IRCommonTypes.xsd	xmlns:irct	http://www.tulorekisteri.fi/2017/1/IRCommonTypes
xmldsig-core-schema.xsd	xmlns:ds	http://www.w3.org/2000/09/xmldsig#

Data distributed from the Incomes Register is identical to that submitted to the Incomes Register.

### 1.2 Character set

The schemas of the Incomes Register use UTF-8, which is the default character set of XML. The file must not contain the Byte Order Mark (BOM) character.

The following table presents the requirements for the conversion of special characters appearing in messages.

Character	Description	Presentation format as an entity
&	ampersand	&amp; conversion is mandatory
<	less than	&lt; conversion is mandatory
>	greater than	&gt; conversion is not mandatory, but conforms with best practices
'	apostrophe	&apos; conversion is not mandatory, but conforms with best practices
"	quotation mark	&quot; conversion is not mandatory, but conforms with



		best practices
--	double hyphen	This character must not appear in an XML file
/*	slash asterisk	This character must not appear in an XML file
&#	ampersand hash	This character must not appear in an XML file

A limited character set is allowed for **reference data**. The allowed characters for the reference data listed below are the numbers 0-9, the letters a-z and A-Z and the symbols "\_", "-" and ".".

- Record owner's record reference (DeliveryId)
- Payer's report reference (ReportId)
- Subscriber's primary subscription reference (MainSubscriptionId)
- Subscriber's secondary subscription reference (SubscriptionId)
- Sender's message reference (MessageId)

In the following data items, upper and lowercase characters are significant:

- Country codes in all data groups (for example, "DE" is interpreted to be a different code than "De").
- Customer IDs in all data groups (for example, "150172-999H" is interpreted to be a different ID than "150172-999h").

### 1.3 Dates and times

Dates (data type xs:date) must not include time zone information. Example of a date:

```
<StartDate>2017-05-11</StartDate>
```

Data elements containing times of day (data types xs:dateTime and xs:time) must include the time zone.

Example in the Finnish time zone (standard time, UTC+2):

```
<Timestamp>2017-05-11T08:00:00+02:00</Timestamp>
```

```
<Time>08:00:00+02:00</Time>
```

Example in UTC time (UTC+0):

```
<Timestamp>2017-05-11T06:00:00Z</Timestamp>
```

```
<Time>06:00:00Z</Time>
```



#### 1.4 Document reading instructions

In the document diagrams, the  $0 \dots \infty$  marking in the bottom right-hand corner of an element means that the element may appear several times, or not at all. The  $1 \dots \infty$  marking means that the element may appear several times, but must always appear at least once. The mandatory elements are highlighted with a solid border line and voluntary elements with a dashed border line.

In the document tables, the mandatory or voluntary nature of the elements is depicted with the following markings:

V/M	Description
V	The element is always voluntary. Data groups and data items marked as voluntary are included in the queried record if they contain data.
M	The element is always included if its "parent element" is included.

In some elements, messages use a limited range of values, i.e. codes. The possible values for these codes are described in the "Codes" and "Codes – Income types" documents. This document refers to the values presented in the codesets using the term "codes".

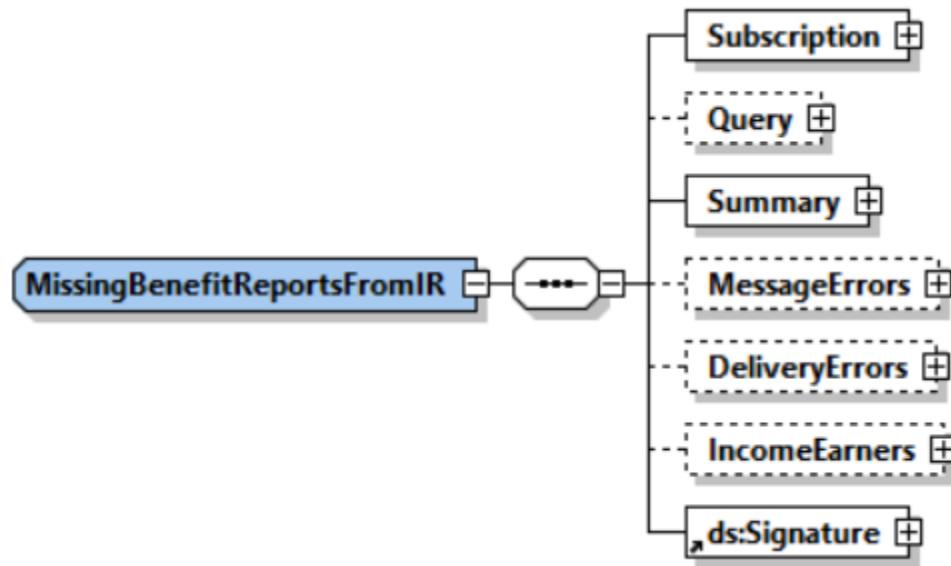


## 2 MISSING BENEFITS PAYMENT REPORTS (MISSINGBENEFITREPORTSFROMIR)

The general structure of a record containing missing benefits payment reports distributed from the Incomes Register is as follows:

Data group name	Type	V/M
Record subscription details (Subscription)	mbrfirt:Subscription	M
Query details (Query)	mbrfirt:Query	V
Query summary data (Summary)	mbrfirt:Summary	M
Message-level errors (MessageErrors)	smt:MessageErrors	V
Record-level errors (DeliveryErrors)	smt:DeliveryErrors	V
Income earners (IncomeEarners)	mbrfirt:IncomeEarners	V
Signature (Signature)	xsig:SignatureType	M





## Data group details:

Data designation	Type	Allowed values	V/ M	Processing rule
Record subscription details (Subscription)	mbrfirt:Subscription		M	This data group is used to distribute information related to a record subscription or a service request.
Query details (Query)	mbrfirt:Query		V	<p>This data group is used to distribute information related to a query.</p> <p>The data group will not appear in the response message to a real-time WS service invocation compliant with the DataRequestToIR schema, if a message-level or record-level error was detected during the processing of the service invocation.</p>
Query summary data (Summary)	mbrfirt:Summary		M	This data group is used to distribute summary information related to a query.

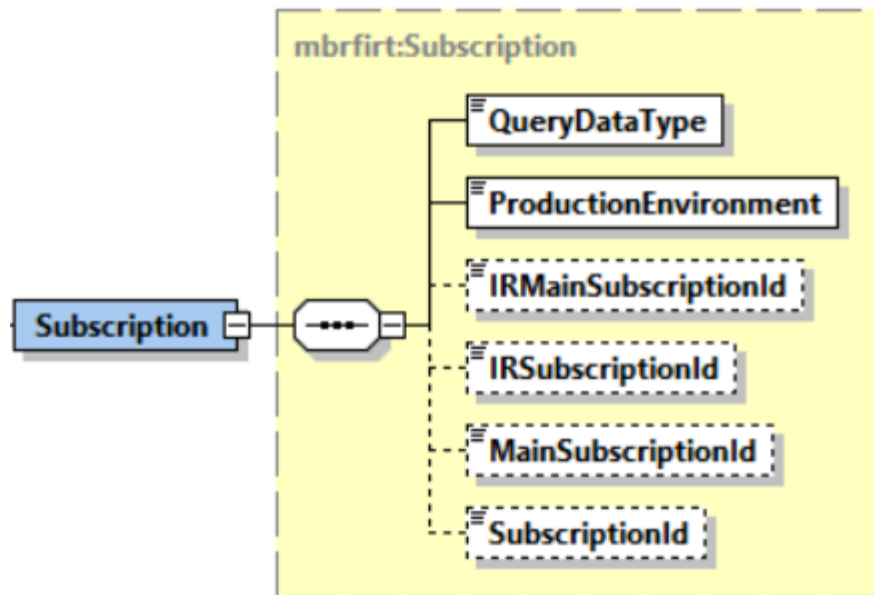




Data designation	Type	Allowed values	V/ M	Processing rule
Message-level errors (MessageErrors)	smt:MessageErrors		V	This data group can only appear in the response message to a real-time WS service invocation compliant with the DataRequestToIR schema.
Record-level errors (DeliveryErrors)	smt:DeliveryErrors		V	This data group can only appear in the response message to a real-time WS service invocation compliant with the DataRequestToIR schema.
Income earners (IncomeEarners)	mbrfirt:IncomeEarners		V	Income earners that have missing benefits payment reports.
Signature (Signature)	xsig:SignatureType		M	The electronic signature of the record is delivered in this data group.



## 2.1 Record subscription details (Subscription)



### Data group details:

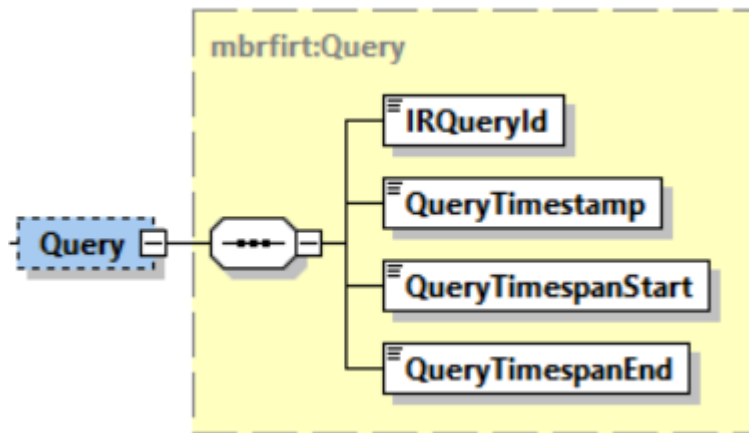
Data designation	Type	Allowed values	V/ M	Processing rule
Record subscription details (Subscription)	mbrfirt:Subscription		M	This data group is used to distribute information related to a record subscription or a service request.
Record type (QueryDataType)	xs:int	Codes: QueryDataType	M	Data submitted in a record subscription or service request.
Production environment (ProductionEnvironment)	irct:trueOrFalse	Codes: ProductionEnvironment	M	Data submitted in a record subscription or service request.



Data designation	Type	Allowed values	V/ M	Processing rule
Incomes Register primary subscription reference (IRMainSubscriptionId)	irct:Guid		V	The Incomes Register primary subscription reference for the primary subscription based on which the record was queried. The data is not included in the response message to a real-time WS service invocation compliant with the DataRequestToIR schema.
Incomes Register secondary subscription reference (IRSubscriptionId)	irct:Guid		V	The Incomes Register secondary subscription reference for the secondary subscription based on which the record was queried. The data is not included in the response message to a real-time WS service invocation compliant with the DataRequestToIR schema.
Subscriber's primary subscription reference (MainSubscriptionId)	irct:String40		V	The subscriber's primary subscription reference for the primary subscription based on which the record was queried. The data is not included in the response message to a real-time WS service invocation compliant with the DataRequestToIR schema.
Subscriber's secondary subscription reference (SubscriptionId)	irct:String40		V	The subscriber's secondary subscription reference for the secondary subscription based on which the record was queried. The data is not included in the response message to a real-time WS service invocation compliant with the DataRequestToIR schema.



## 2.2 Query details (Query)

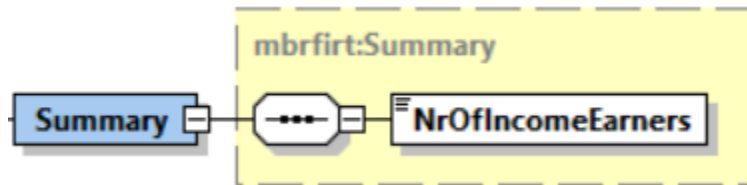


### Data group details:

Data designation	Type	Allowed values	V/ M	Processing rule
Query details (Query)	mbrfirt:Query		V	This data group is used to distribute information related to a query.
Incomes Register query reference (IRQueryId)	irct:Guid		M	The reference assigned by the Incomes Register to the queried record. The reference uniquely identifies every record queried from the Incomes Register.
Query time (QueryTimestamp)	xs:dateTime		M	The date and time when the record was queried.
Start of the query time range for changes (QueryTimespanStart)	xs:dateTime		M	The record includes data changed since this date and time.
End of the query time range for changes (QueryTimespanEnd)	xs:dateTime		M	The record includes data changed up to this date and time (excluding end time).



### 2.3 Query summary data (Summary)

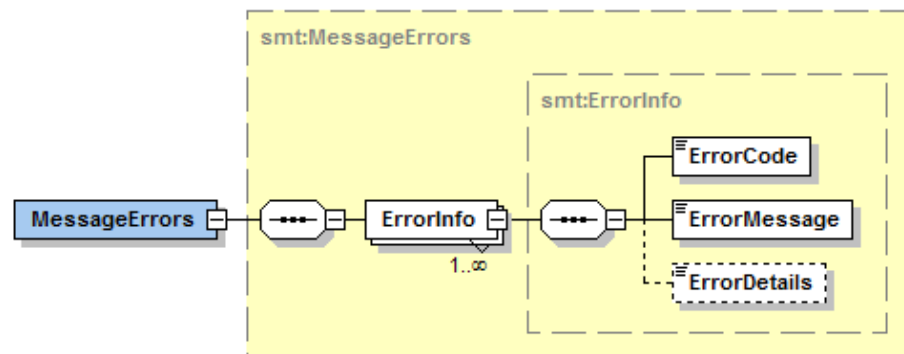


#### Data group details:

Data designation	Type	Allowed values	V/ M	Processing rule
Query summary data (Summary)	mbrfirt:Summary		M	This data group is used to distribute summary information related to a query.
The number of queried income earners (NrOfIncomeEarners)	xs:int		M	The number of queried income earners that have missing benefits payment reports.



## 2.4 Message-level errors (MessageErrors)

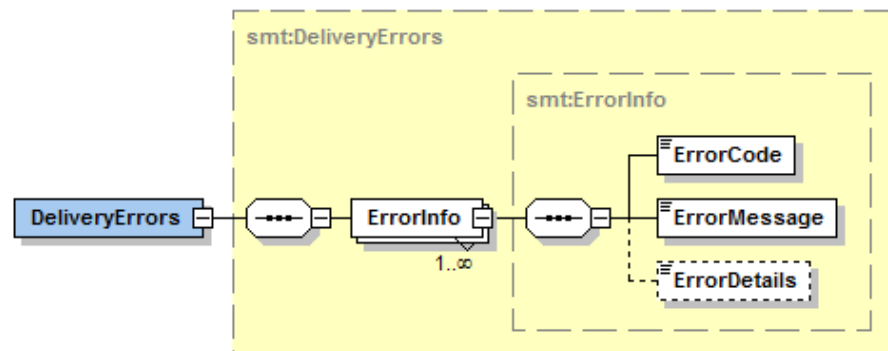


### Data group details:

Data designation	Type	Allowed values	V/ M	Processing rule
Sanomatason virheet (MessageErrors)	smt:MessageErrors		V	<p>This data group is used to return technical and authorisation errors.</p> <p>This data group can only appear in the response message to a real-time WS service invocation compliant with the DataRequestToIR schema.</p>
Error information (ErrorInfo)	smt:ErrorInfo		M	There may be several errors.
Error code (ErrorCode)	irct:String20		M	The error code is returned in this element.
Error code description (ErrorMessage)	irct:String500		M	A description of the error code is returned in this element.
Error details (ErrorDetails)	irct:String500		V	Allocation and identifying information for the error is returned in this element.



## 2.5 Record-level errors (DeliveryErrors)

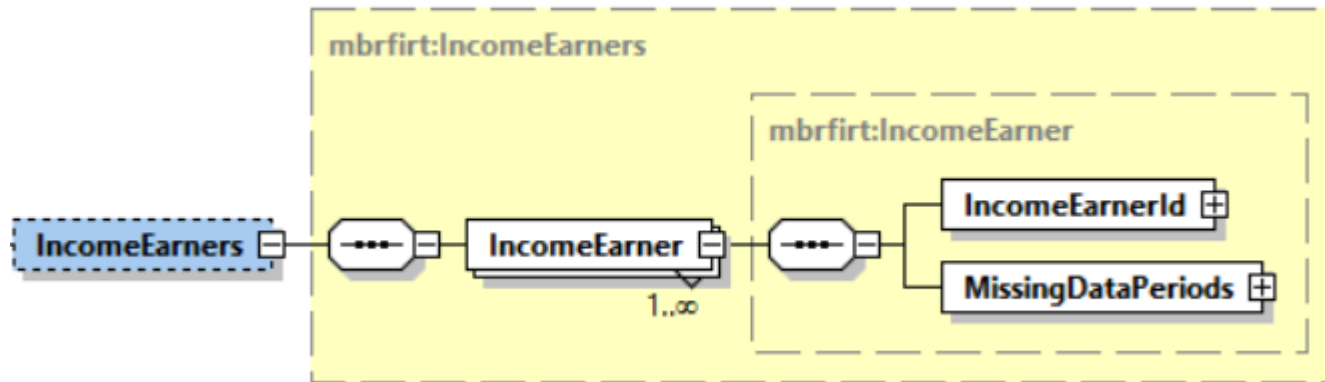


### Data group details:

Data designation	Type	Allowed values	V/ M	Processing rule
Record-level errors (DeliveryErrors)	smt:DeliveryErrors		V	<p>This data group is used to return errors related to the contents of record-level data.</p> <p>This data group can only appear in the response message to a real-time WS service invocation compliant with the DataRequestToIR schema.</p>
Error information (ErrorInfo)	smt:ErrorInfo		M	There may be several errors.
Error code (ErrorCode)	irct:String20		M	The error code is returned in this element.
Error code description (ErrorMessage)	irct:String500		M	A description of the error code is returned in this element.
Error details (ErrorDetails)	irct:String500		V	Allocation and identifying information for the error is returned in this element.



## 2.6 Income earners (IncomeEarnings)



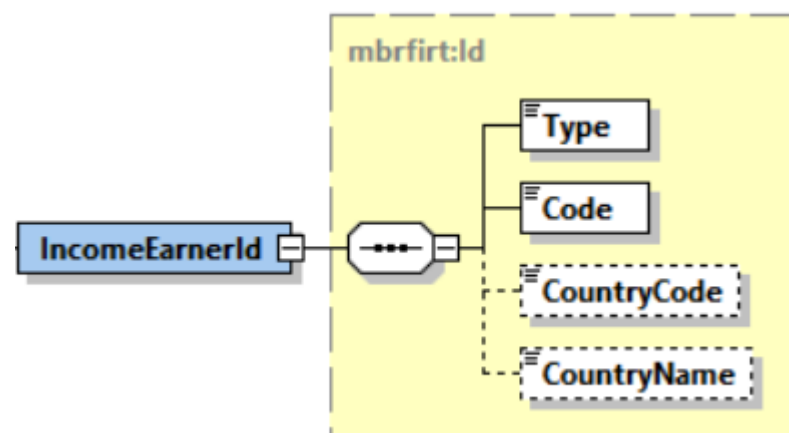
### Data group details:

Data designation	Type	Allowed values	V/ M	Processing rule
Income earners (IncomeEarnings)	mbrfirt:IncomeEarnings		V	This data group is used to return the income earners that have missing benefits payment reports queried to the record.
Income earner (IncomeEarner)	mbrfirt:IncomeEarner		M	There may be several income earners.
Income earner identifier (IncomeEarnerId)	mbrfirt:Id		M	Income earner's identifier details
Periods of missing data (MissingDataPeriods)	mbrfirt:MissingDataPeriods		M	Periods that have missing benefits payment reports.





## 2.7 Income earner identifier (IncomeEarnerId)

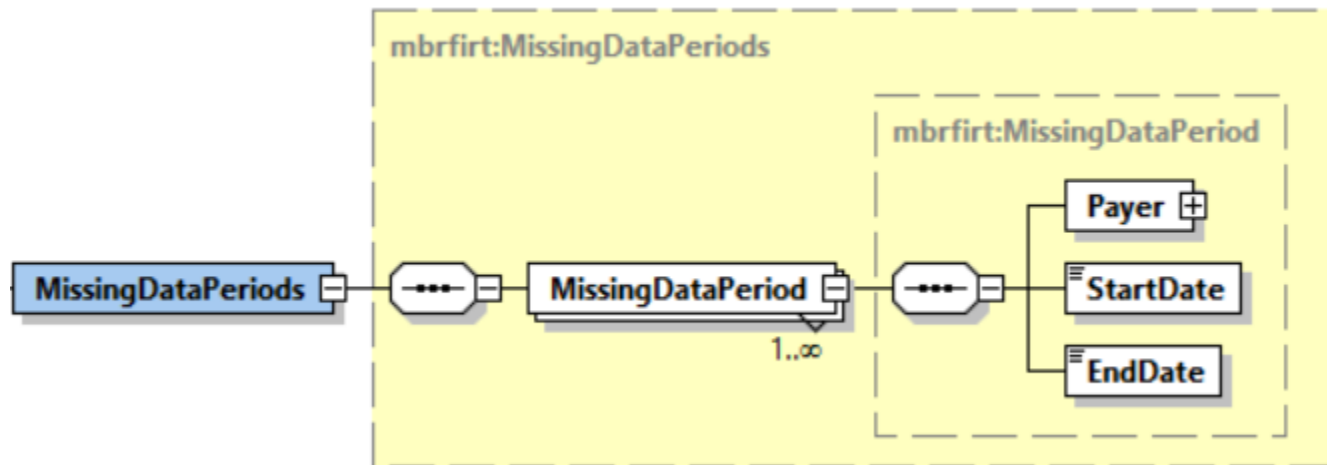


### Data group details:

Data designation	Type	Allowed values	V/ M	Processing rule
Income earner identifier (IncomeEarnerId)	mbrfirt:Id		M	
Identifier type (Type)	xs:int	Codes: BenefitIncomeEarner IdType	M	
Identifier (Code)	irct:String30		M	
Country code (CountryCode)	irct:String2	A two-character code in accordance with the ISO 3166 country codes. If the country is unknown, the value is "99".	V	
Country name (CountryName)	irct:String70		V	



## 2.8 Periods of missing data (MissingDataPeriods)

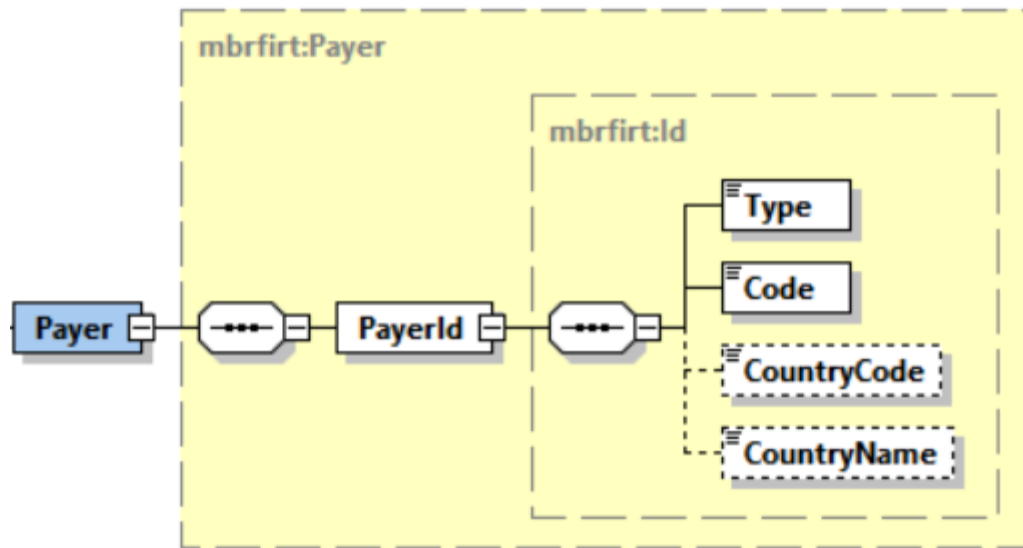


### Data group details:

Data designation	Type	Allowed values	V/ M	Processing rule
Periods of missing data (MissingDataPeriods)	mbrfirt:MissingDataPeriods		M	Periods of missing benefits payment reports.
Period of missing data (MissingDataPeriod)	mbrfirt:MissingDataPeriod		M	There may be several periods.
Payer details (Payer)	mbrfirt:Payer		M	Payer details related to the missing data period.
Start date (StartDate)	xs:date		M	Start date of the missing data period.
End date (EndDate)	xs:date		M	End date of the missing data period.



## 2.9 Payer details (Payer)



### Data group details:

Data designation	Type	Allowed values	V/ M	Processing rule
Payer details (Payer)	mbrfirt:Payer		M	
Payer's identifier (PayerId)	mbrfirt:Id		M	
Identifier type (Type)	xs:int	Codes: BenefitPayerIdType	M	
Identifier (Code)	irct:String30		M	
Country code (CountryCode)	irct:String2	A two-character code in accordance with the ISO 3166 country codes.	V	



Data designation	Type	Allowed values	V/ M	Processing rule
		If the country is unknown, the value is "99".		
Country name (CountryName)	irct:String70		V	

