



Digital Receipt Format Specification JSON Version

For Japanese Market

Version 1.0

OMG Document Number: formal/25-04-02

Standard Document URL: <https://www.omg.org/spec/DRAP/>

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Preface

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Issues

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https://www.omg.org/report_issue.htm

1 Introduction

1.1 Purpose

This book is a reference manual focusing on items used in Japan aimed at promoting diffusion of ARTS-OMG Digital Receipt V 3.1.0, an international standard specification, by Japan Digital Receipt Subcommittee of the .NET Retail System Council in Japan.

This specification comprehensively identifies print items of receipts that were previously created by vendor, industry type, retail company individually, etc. By storing data of the same meaning in the same tag from the viewpoint of data utilization. It aims to provide instruments for data utilization, making it easier to use. Therefore, all items other than the TOP tag and the structure tag at the time of data holding can be arbitrarily omitted and do not force setting (provision) of data.

1.2 Revision History

Version	Event	Changed Items	Date
Ver.1.0.0			02-01-2023

1.3 Specification Creating Group

- The following company submitted this specification:
Toshiba GCS
- The following organization supported to publish this specification.
- NET Retail System Council
"Digital receipt subcommittee"
- Cooperating organization
General Federated Open Food Service Systems Consortium
"Digital receipt subcommittee"
General Association Fintech Association
"Digital receipt subcommittee"
General Association XBRL Japan

1.4 Team mission

The mission of this team is to refer to the XML schema of ARTS-OMG Digital Receipt V 3.1.0 which is the international standard specification developed by ARTS-OMG in the current retail environment where full paperlessization is required for transaction processing at the point of sale. It is also to facilitate the understanding of the digital receipt format by preparing a reference manual focusing on the requirements within Japan, to realize the application to the latest technology environment adopting JSON and REST, to promote the adoption of digital receipts.

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Yasuo Sakami	Open Foodservice Systems Consortium (OFSC)

1.6 References

1.6.1 Normative References

- [Digital Receipt Ontology Files]
 - Retail Industry Ontology (RIO) Mapping for Digital Receipt_06162023.docx
 - Digital Receipt Data Items Reference List for Japanese Market.xlsx
- [Digital Receipt Format and API Specification Files]

- Digital Receipt Format Specification (JSON Ver for Japanese Market)_08262023.docx
- Digital Receipt V1_API_Specification_08262023.docx

1.6.2 Non-normative References

[Ancillary]

- Explanation & Inventory Files
 - Digital Receipt API Inventory File_08262023.doc
 - Digital Receipt API V1 Explanation_08262023.pptx

[Ancillary Reference from ARTS]

- Digital Receipt Related Current ARTS Files
 - ARTS_Standard_XML_Digital_Receipt_Technical_Specification_V3.1.0.pdf
 - ARTS_Standard Digital Receipt Domain Model V3.1.0.pdf
 - Best Practices for Service implementation Using ARTS Std.pdf

1.6.3 Machine Consumable References

- Open API (YAML Oriented) Files
 - DigitalReceiptServiceAPI_Specification_V1.0.0_08262023.yaml
 - Digital Receipt nodejs-server-08262023.zip
 - Digital Receipt html-client-08262023.zip
- Digital Receipt JSON and XML Schema Files
 - DigitalReceiptV3.1.0.JSON_Schema_08262023.json
 - DigitalReceiptV3.1.0_08262023.xsd

1.7 Symbols

1.7.1 Abbreviations

The following abbreviations are used throughout this specification:

API-Application Program Interface

ARTS-Association for Retail Technologies Standards

ID-Identification

JSON-JavaScript Object Notation

NRF-National Retail Federation

POS-Point of Sales

REST-Representational State Transfer

URL-Uniform Resource Locator

URI-Uniform Resource Identifier

XML-Extensible Markup Language

2 Structure description

2.1 Model structure image

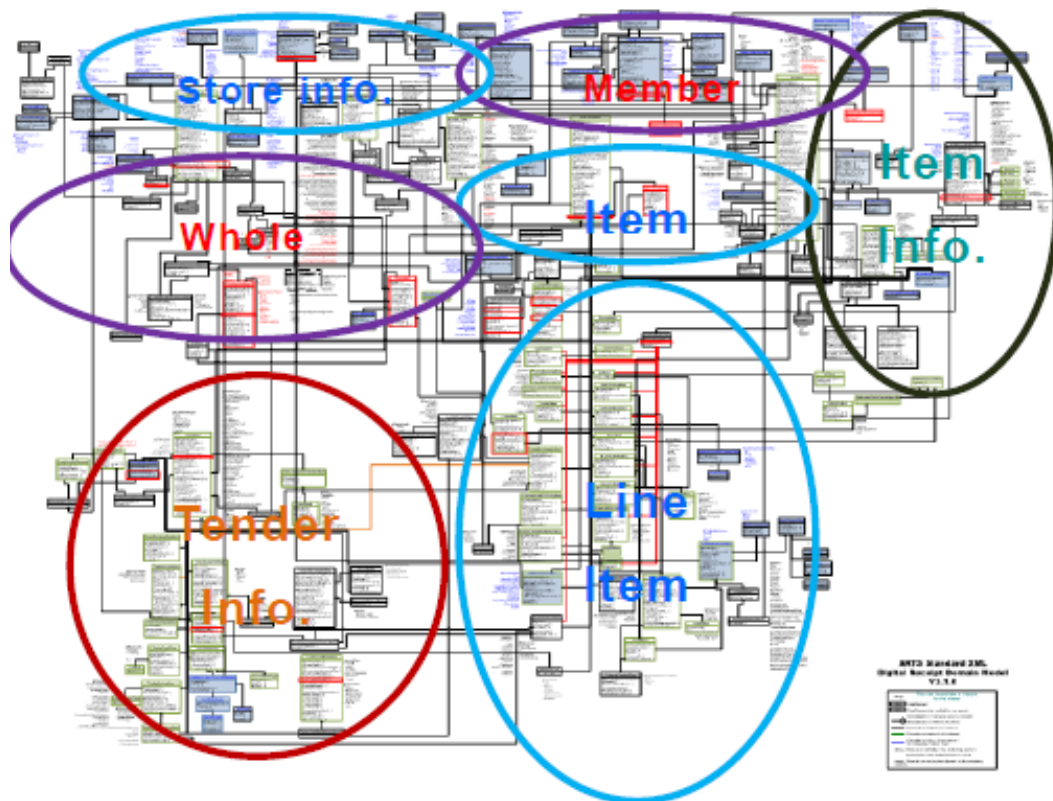


Figure 2-1: Model Structure Image

2.2 Receipt printing image

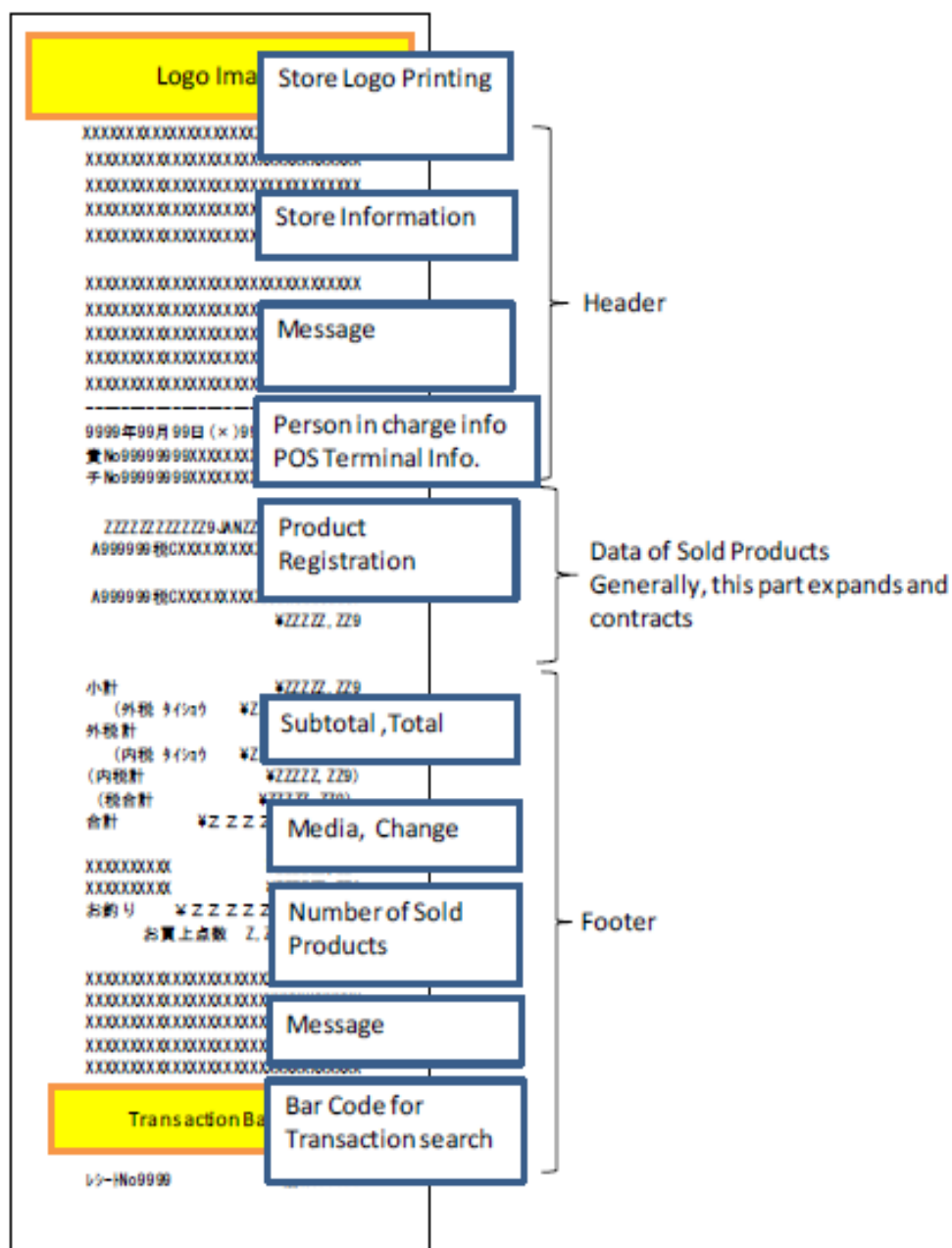


Figure 2-2: Receipt Printing Image

2.3 Structure tag

Overview

The tag forming the main structure is composed of the TOP tag "Digital Receipt", the first Hierarchy "Transactions", the second Hierarchy "RetailTransactions", and the third Hierarchy "LineItems". The purchase information is described as the fourth Hierarchy in "LineItems" of the third Hierarchy.

Syntax

TOP tag

```
"DigitalReceipt": {
```

First Hierarchy

```
"Transactions": [{
```

Second Hierarchy

```
"RetailTransactions": {
```

Third Hierarchy

```
"LineItems": [
```

4th Hierarchy

```
"Sale": {
```

```
}
```

```
"Sale": {
```

```
}
```

```
],
```

```
"Totals": [
```

```
],
```

```
"Customers": [
```

```
},
```

```
"LoyaltyAccounts": [
```

```
]
```

```
}]
```

```
}]
```

```
}
```

2.4 JSON data structure Sample

```
{
  "DigitalReceipt": {
    "MajorVersion": 3,
    "MinorVersion": 1,
    "FixVersion": 0,
    "Transactions": [
      {
        "TrainingModeFlag": false,
        "TypeCode": "SaleTransaction",
        "BusinessUnits": [
          {
            "UnitID": {
              "Name": "Tech Mart Ohito store",
              "#value": "1234567891231"
            }
          }
        ],
        "OrganizationHierarchies": [
          {
            "ID": "080021xxxx",
            "Level": "OperatingCompany",
            "#value": "Tec Mart Stores"
          }
        ],
        "WorkstationID": {"#value": "0006"},
        "ReceiptDateTime": {"#value": "2017-03-05T12:00:00+09:00"},
        "ReceiptNumber": {"#value": "0353"},
        "ReceiptImages": [{
          "ReceiptLines": [
            { "#value": "" },
            { "#value": "【Customer Receipt】" },
            { "#value": "" },
            { "#value": "Customer consultation room TEL: 0120-xxx-xxx" },
            { "#value": "Inquiries reception time 9: 00 ~ 22: 00" },
            { "#value": "Sunday, 05 May, 2017 12:20 Register 0006" },
            { "#value": "" },
            { "#value": "Responsibility No 10005704 Araki" },
            { "#value": "Chi No 10005704 Araki" },
            { "#value": "SRID" },
            { "#value": "9900000016xxxxxx" },
            { "#value": "870103 3.6 Non-ingredient adjusted milk" },
            { "#value": "2piece X single 195 ¥ 390" },
            { "#value": "910102 Sun Suite ¥ 119" }
          ]
        }
      }
    ]
  },
  (Somewhat)
  { "#value": "460805 Garlic ¥ 98" },
  { "#value": "Total / 58 points ¥ 9,075" },
  { "#value": "(Total Internal Tax Included ¥ 9,0" },
  { "#value": "(Internal tax ¥ 672)" },
  { "#value": "(Total tax ¥ 672)" },
  { "#value": "Total ¥ 9,075" },
  { "#value": "Fishing ¥ 0" },
  { "#value": "***** CARD POINT *****" },
  { "#value": "Points earned points details" },
  { "#value": "Purchase point 42P" },
  { "#value": "Magnification point x 2.0 42 P" },
  { "#value": "Total points acquired this time 84P" },
  { "#value": "Total points up to the previous point 5411 P" },
  { "#value": "Point balance after transaction 5495 P" },
  { "#value": "Monthly purchase price ¥ 9,075" },
  { "#value": "-----" },
  { "#value": "Membership number 294000165xxxx-xx" },
  { "#value": "Current stage platinum" },
  { "#value": "*****" },
  { "#value": "★ mark is subject to self-medication tax control" },
  { "#value": "We will not reissue the receipt." },
  { "#value": "When you keep it with wallet etc. print side" },
  { "#value": "Please fold inward and carefully keep it." },
  { "#value": "" },
  { "#value": "Receipt No. 0353 Store No00027" },
  { "#value": "" }
}
```

DigitalReceipt	: Top tag
MajorVersion	: Version No.
MinorVersion	: Version No.
FixVersion	: Version No.

```
Transactions      : Transaction info
TrainingModeFlag : Mode info
TypeCode         : Type Code info
```

BusinessUnits	: Store info
UnitID	: Store Unit ID
Name	: Store Name
#value	: Store Code info

Org. Hierarchy	: Hierarchy info
ID	: Corp. ID
Level	: Hierarchy Level
#value	: Corp. Name

WorkstationID	: POS Term. ID
---------------	----------------

ReceiptNumber	: Receipt No.
---------------	---------------

ReceiptImages	: Receipt Print Image
ReceiptLines	: Receipt Line info

<pre>"RetailTransactions": [{ "LineItems": [{ "Sale": { "ItemIDs": [{ "Name": "3.6 Non-ingredient adjusted milk", "#value": "49xxxxxxxxxxxx" }], "MerchandiseHierarchies": [{ "ID": "870103", "Level": "Class" }], "Descriptions": [{ "#value": "" }], "ActualSalesUnitPrice": { "#value": 195 }, "Quantities": [{ "#value": 2 }] }, "SequenceNumbers": [1] }, { "Sale": { "ItemIDs": [{ "Name": "Sun Suite", "#value": "49xxxxxxxxxxxx" }], "MerchandiseHierarchies": [{ "ID": "910102", "Level": "Class" }], "Descriptions": [{ "#value": "" }], "ActualSalesUnitPrice": { "#value": 119 }, "Quantities": [{ "#value": "1" }] }, "SequenceNumbers": [2] }, (Somewhat)], { "Sale": { "ItemIDs": [{ "Name": "Garlic", "#value": null }], "MerchandiseHierarchies": [{ "ID": "460805", "Level": "Class" }], "Descriptions": [{ "#value": "" }], "ActualSalesUnitPrice": { "#value": 98 }, "Quantities": [{ "#value": "1" }] }, "SequenceNumbers": [57] }], "Totals": [{ "TotalType": "TransactionGrandAmount", "#value": 9075 }, { "TotalType": "TransactionTaxAmount", "#value": 672 }]</pre>	<table><tr><th colspan="2">RetailTransactions: Transaction Details</th></tr><tr><th colspan="2">LineItems : Line Item Info Header</th></tr><tr><td>Sale</td><td>: Sales info.</td></tr><tr><td>ItemIDs</td><td>: Item info</td></tr><tr><td>Name</td><td>: Item Name</td></tr><tr><td>#value</td><td>: Item Code</td></tr><tr><td>MerchandiseHierarchies</td><td></td></tr><tr><td>ID</td><td>: Item Hierarchy info</td></tr><tr><td>Level</td><td>: ID code No.</td></tr><tr><td>Descriptions</td><td>: Hierarchy Level info</td></tr><tr><td>ActualSalesUnitPrice</td><td>: Abstract</td></tr><tr><td></td><td>: Price info</td></tr><tr><td>Quantities</td><td>: Qty. No.</td></tr><tr><td>SequenceNumbers</td><td></td></tr><tr><td></td><td>: SequenceNo.</td></tr></table>	RetailTransactions: Transaction Details		LineItems : Line Item Info Header		Sale	: Sales info.	ItemIDs	: Item info	Name	: Item Name	#value	: Item Code	MerchandiseHierarchies		ID	: Item Hierarchy info	Level	: ID code No.	Descriptions	: Hierarchy Level info	ActualSalesUnitPrice	: Abstract		: Price info	Quantities	: Qty. No.	SequenceNumbers			: SequenceNo.
RetailTransactions: Transaction Details																															
LineItems : Line Item Info Header																															
Sale	: Sales info.																														
ItemIDs	: Item info																														
Name	: Item Name																														
#value	: Item Code																														
MerchandiseHierarchies																															
ID	: Item Hierarchy info																														
Level	: ID code No.																														
Descriptions	: Hierarchy Level info																														
ActualSalesUnitPrice	: Abstract																														
	: Price info																														
Quantities	: Qty. No.																														
SequenceNumbers																															
	: SequenceNo.																														

```

    "Customers": [
      {
        "CustomerID": "9900000016xxxxxx"
      }
    ]
  }
}

```

Customers	: Customer Info
CustomerID	: ID No.

3 Reference

3.1 TOP tag

Item name

DigitalReceipt

Hierarchy level 0

Overview

TOP tag of the digital receipt data format, data format version information as attributes.

Syntax

```
"DigitalReceipt": {}
```

Data

Attribute

MajorVersion	: Integer	: Major version number.
MinorVersion	: Integer	: Minor version number.
FixVersion	: Integer	: Fix version number.

Member

Transactions	: Array	: Array of transaction information
--------------	---------	------------------------------------

Sample

```
"DigitalReceipt": {  
  "MajorVersion": 3,  
  "MinorVersion": 1,  
  "FixVersion": 0,  
  "Transactions": [  
    :  
  ]  
}
```

Notices

3.2 Transaction information

Item name

Transactions

Hierarchy level 1

Overview

It is a TOP tag of transaction information, and it has a mode determination flag and a transaction type information as attributes.

Syntax

"Transactions": []

Data

Attribute

TrainingModeFlag	: Bool	: Training mode determination flag
TypeCode	: Text	: Transaction type

Member

BusinessUnits	: Array	: Array of information on a business unit
CurrencyCode	: Text	: Currency code string
InvoiceNumbers	: Array	: Invoices numbers related to or belonging to the POSLog Transaction
Logo	: Object	: Stores corporate logo image file information
OperatorIDs	: Array	: Array of information of the operator who performed accounting processing and others by POS
OrganizationHierarchies	: Array	: Corporate Hierarchy information array
ReceiptDateTime	: Object	: Receipt issue date and time
ReceiptImages	: Array	: All printed images of a receipt
ReceiptNumber	: Object	: Issue number of the receipt
RetailTransactions	: Array	: Array of retail transaction information
TransactionID	: Text	: Transaction code number
VATRegistrationNumber	: Text	: Issuer registration number
WorkstationID	: Object	: ID number of the POS terminal

Attribute(May not be used for the Japanese Market.)

CODFlag	: Bool	: Indicate the transaction is Cash On Delivery
FixVersion	: Integer	: Fix version number.
MajorVersion	: Integer	: Major version number.
MinorVersion	: Integer	: Minor version number.
VATReceiptFlag	: Bool	: Indicate the transaction is VAT receipt

Member(May not be used for the Japanese Market.)

CODVoucherNumber	: Text	: Cash On Delivery voucher number string
Channels	: Array	: Array of Channel information
CustomerOrderTransactions	: Array	: The steps in a retail transaction prior to tendering and fulfillment information
OrderTransactions	: Array	: Order report information to be made to the customer
POSLogDateTimes	: Array	: Array of POSLog issue date and time
SequenceNumber	: Integer	: Sequence number of transaction
StoreLocations	: Array	: The physical addresses of the store
TrailerText	: Object	: Unique text printed on the bottom of the receipt for this Retail Transaction

Sample

```
"DigitalReceipt": {  
  "Transactions": [{  
    "TrainingModeFlag": false,  
    "TypeCode": "SaleTransaction",  
  }]  
}
```

Notices

TypeCode: SaleTransaction, ReturnTransaction, ExchangeTransaction

TrainingModeFlag: true, false

Currency: CNY, EUR, JPY, KRW, USD,... (ISO-4217)

Attributes and members detailed information that are not used for the Japanese market, are not described in this specification.

If it is required please refer to the Schema.

3.3 Business Unit (Store) information

Item name

BusinessUnits

Hierarchy level 2

Overview

It is an array that stores information on a business unit such as a store, and it has other objects such as ID, address, phone number as members.

Syntax

```
"BusinessUnits": []
```

Data

Member

UnitID : Object : ID information of the Business Unit code / name

Address : Object : Address information of the Business Unit

Telephone : Object : Phone number of Business Unit

Member(May not used for the Japanese Market.)

Websites : Array : Corporate official websites

Sample

```
"DigitalReceipt": {
  "Transactions": [{
    "BusinessUnits": [{
      "UnitID": {},
      "Address": {},
      "Telephone": {}
    }]
  }]
}
```

Notices

Members detailed information that are not used for the Japanese market, are not described in this specification.

If it is required please refer to the Schema.

3.3.1 Business Unit (Store) ID

Item name

UnitID

Hierarchy level 3

Overview

It is an object that stores the ID of the Business Unit (Store) and has attributes such as a Business Unit (Store) name, a Business Unit (Store) type, and a Business Unit (Store) code as a value.

Syntax

"UnitID": {}

Data

Attribute

Name	: Text	: Business Unit (Store) name
TypeCode	: Text	: Business Unit (Store) type

Value

#value	: Text	: Business Unit (Store) code
--------	--------	------------------------------

Sample

```
"DigitalReceipt": {
  "Transactions": [{
    "BusinessUnits": [{
      "UnitID": {
        "Name": "Tech Mart Ohito store",
        "TypeCode": "RetailStore",
        "#value": "1234567891231"
      }
    }
  ]
}
```

Notices

It is desirable to use GLN as the Business Unit code.

TypeCode: RetailStore, DistributionCenter, Administration Center, CallCenter, WebSite, Filler, TransitCeller, Producer, Grower, Building, Dormitory, Distributor, Factory

Name: "zzzzz"

3.3.2 Business Unit (Store) address

Item name

Address

Hierarchy level 3

Overview

It is an object that stores the address of the Business Unit (Store), and has the Business Unit type, address, city, postal code, address information.

Syntax

"Address": {}

Data

Member

TypeCode	: Text	: Business Unit type name
AddressLine	: Array	: Street number array
City	: Text	: City
PostalCode	: Text	: Zip code
FullAddress	: Text	: Address information

Attribute(May not be used for the Japanese Market.)

AddressLocationType	: Text	: Address location type
AddressType	: Text	: Address type
PrimaryFlag	: Bool	: Indicate address is primary

Member(May not be used for the Japanese Market.)

Country	: Object	: The name of a country or territory
PostalCodeExtension	: Text	: Postal code extension string
Territories	: Array	: Array of state, province, or another region within a country

Sample

```

"DigitalReceipt": {
  "Transactions": [{
    "BusinessUnits": [{
      "Address": {
        "TypeCode": "RetailStore",
        "AddressLines": ["Ohito 555-5"],
        "City": "Izunokuni shi",
        "PostalCode": "410xxxx",
        "FullAddress": "Izunokuni shi Shizuoka ken Ohito 555-5",
      }
    }
  ]
}

```

Notices

TypeCode input example (arbitrary character string input possible)

Home, Work, Delivery, Pickup, Billing, RetailStore, Warehouse,
Administration, ...

Attributes and members detailed information that are not used for the Japanese market,
are not described in this specification.

If it is required please refer to the Schema.

3.3.3 Business Unit (Store) phone number

Item name

Telephone

Hierarchy level 3

Overview

It is an object that stores the phone number of the Business Unit (store),
it has an area code, local area code + subscriber number as members.

Syntax

```
"Telephone": {}
```

Data

Member

AreaCode	: Text	: Area code
LocalNumbers	: Array	: Array of local area code + subscriber number

Attribute(May not be used for the Japanese Market.)

PrimaryFlag	: Bool	: Indicate telephone is primary
TypeCode	: Text	: Telephone type code string

Member(May not be used for the Japanese Market.)

ExtensionNumber	: Text	: Additional numbers required to reach a person, extension, or voice mailbox
ITUCountryCode	: Text	: A code assigned by the ITU representing a country or other region International Telephone Unit

Sample

```
"DigitalReceipt": {  
  "Transactions": [{  
    "BusinessUnits": [{  
      "Telephone": {
```

```

        "AreaCode": "nnnn",
        "LocalNumbers": ["nnnn-nnnn", " nnnn-nnnn "]
      }
    }
  }
}

```

Notices

Attributes and members detailed information that are not used for the Japanese market, are not described in this specification.

If it is required please refer to the Schema.

3.4 Company information

Item name

OrganizationHierarchies

Hierarchy level 2

Overview

It is an array that stores corporate Hierarchy information, and it has attributes as company code, hierarchy level. And it has a company name as a value.

Syntax

```
"OrganizationHierarchies": []
```

Data

Attribute

ID	: Text	: Company code
Level	: Text	: Hierarchy level

Value

#value	: Text	: Company name
--------	--------	----------------

Sample

```
"DigitalReceipt": {  
  "Transactions": [{  
    "OrganizationHierarchies": [{  
      "ID": "xxxxxxxxxxxxxx",  
      "Level": "OperatingCompany",  
      "#value": "Tech mart"  
    }]  
  }  
}
```

Notices

Level: Country, Corporation, OperatingCompany,
Concept, Division, RevenueCenter, Region, Department, District, Zone,
DistributionCenter, AdministrationCenter, RetailStore

3.5 Logo image

Item name

Logo

Hierarchy level 2

Overview

It is an object that stores corporate logo image file information to be printed on receipt.
And it has a file format as an attribute and has either a file name or logo binary data as member.

Syntax

```
"Logo": {}
```

Data

Attribute

LogoFormat : Text : File format

Member

* FileName : Text : File name

* LogoBinary : Text : BASE 64 encoded data of logo binary data

Note) Only either one of * FileName or * LogoBinary can be selected.

Sample

```
"DigitalReceipt": {  
  "Transactions": [{  
    "Logo": {  
      "LogoFormat": "JPG",  
      "FileName": "www.techmart.com/logo.jpg"  
    }  
  }  
}]  
}
```

Notices

LogoFormat: EPS, PDF, TIF, BMP, GIF, JPG

3.6 POS terminal number

Item name

WorkstationID

Hierarchy level 2

Overview

The ID number of the POS terminal (POS register) that issued the receipt.

Syntax

```
"WorkstationID": {}
```

Data

Value

#value	: Text	: Terminal number
--------	--------	-------------------

Attribute(May not be used for the Japanese Market.)

Mode	: Text	: Business Mode descriptions
TypeCode	: Text	: Workstation use type description
SerialNumber	: Text	: Workstation machine serial number
WorkstationLocation	: Text	: Workstation Location Name

Sample

```
"DigitalReceipt": {  
  "Transactions": [{  
    "WorkstationID": {  
      "#value": "006"  
    }  
  }  
}]  
}
```

Notices

Attributes detailed information that are not used for the Japanese market, are not described in this specification.

If it is required please refer to the Schema.

3.7 Transaction code

Item name

TransactionID

Hierarchy level 2

Overview

The ID number of the transaction information (sales transaction) that is the source of the receipt issue.

Syntax

```
"TransactionID": "xxxxxxxxxxxxxxxxxxxxx"
```

Data

TransactionID : Text : Transaction code number

Sample

```
"DigitalReceipt": {
  "Transactions": [{
    "TransactionID": "xxxxxxxxxxxxxxxxxxxxx"
  }]
}
```

Notices

3.8 Operator information

Item name

OperatorIDs

Hierarchy level 2

Overview

It is an array that stores the information of the operator who performed accounting processing and others by POS, and has an operator type, its name and its code and so on.

Syntax

```
"OperatorIDs": []
```

Data

Attribute

OperatorName	: Text	: Operator name
OperatorType	: Text	: Operator type

Value

#value	: Text	: Operator code
--------	--------	-----------------

Attribute(May not be used for the Japanese Market.)

AssociateID	: Text	: Associate Identifier
-------------	--------	------------------------

Sample

```
"DigitalReceipt": {  
  "Transactions": [{  
    "OperatorIDs": [{  
      "OperatorName": "NAKA",  
      "OperatorType": "Cashier",  
      "#value": "zzz001"  
    }]  
  }]  
}
```

}

Notices

OperatorType: Cashier, Checker, Clerk, Manager, OrderTaker, Server,
Supervisor, Expediter, BarTender

Attributes detailed information that are not used for the Japanese market, are not described in this specification.

If it is required please refer to the Schema.

3.9 Currency Code

Item name

CurrencyCode

Hierarchy level 2

Overview

This is a designated field of the currency code that is the default for the entire receipt, and the currency code to be set uses ISO 3217 / UN / ECE REC 09 Codes with three alphabetic characters.

Syntax

```
"CurrencyCode": "xxx"
```

Data

CurrencyCode : Text : Currency code string

Sample

```
"DigitalReceipt": {  
  "Transactions": [{  
    "CurrencyCode": "JPY"  
  }]  
}
```

Notices

Currency code example: CNY, EUR, JPY, KRW, USD, ...

Note: All Amount fields derived from AmountCommonData implicitly hold "Currency" as an attribute, and you can specify the currency code by adding "Currency" separately if necessary. Attention is necessary because the tag name at this time is "Currency", not "CurrencyCode".

3.10 Issuer registration number

Item name

VATRegistrationNumber

Hierarchy level 2

Overview

A field for setting a business registration number. (It is necessary to issue a qualified invoice such as a reduced tax rate system planned to be introduced in the future or a qualified simplified invoice.)

Set up the business registration number etc., issued by the qualified invoice issuing business registration.

Syntax

"VATRegistrationNumber": "XXXXXXXXXXXXXXXXX ..."

Data

VATRegistrationNumber : Text : Issuer registration number

Sample

```
"DigitalReceipt": {  
  "Transactions": [{  
    "VATRegistrationNumber": "123-456",  
  }]  
}
```

Notices

In the international standard specification of ARTS-OMG, the name of VAT (Value Added Tax) which is a value added tax is used.

Although it is called a consumption tax in Japan, it is inefficient to define multiple fields for the same use, so use the name of VAT as it is.

3.11 Receipt date time

Item name

ReceiptDateTime

Hierarchy level 2

Overview

It is the date and time when the receipt was issued, and it is stored in UTC format.

Syntax

```
"ReceiptDateTime": {"#value": "yyyy-mm-ddThh:mm:ss+09:00"},
```

Data

ReceiptDateTime : Text : receipt issue date and time

Sample

```
"DigitalReceipt": {  
  "Transactions": [{  
    "ReceiptDateTime": {"#value": "2017-03-05T12:00:00+09:00"},  
  }  
}]
```

Notices

3.12 Receipt number

Item name

ReceiptNumber

Hierarchy level 2

Overview

Issue number of the receipt

Syntax

```
"ReceiptNumber": {}
```

Data

Value

#value	: Text	: Issue number of the receipt
--------	--------	-------------------------------

Attribute(May not used for the Japanese Market.)

TypeCode	: Text	: Receipt number type string
----------	--------	------------------------------

Sample

```
"DigitalReceipt": {  
  "Transactions": [{  
  
    "ReceiptNumber": {  
      "#value": "0123",
```

```

    }
  }}
}

```

Notices

Attributes detailed information that are not used for the Japanese market, are not described in this specification.

If it is required please refer to the Schema.

3.13 Receipt printing image

Item name

ReceiptImages

Hierarchy level 2

Overview

An object that stores all printed images of a receipt, and is an array of texts,
Store print text image in row units.

Syntax

```
"ReceiptImages": [{"ReceiptLines": []}]
```

Data

Member

ReceiptLines : Array : array for storing printed images of receipt

Attribute(May not be used for the Japanese Market.)

Height	: Number	: Receipt line height
HorizontalAlignment	: Text	: Horizontal alignment of receipt line
MappingMode	: Text	: Mapping mode of receipt line image
VerticalAlignment	: Text	: Vertical alignment of receipt line
Width	: Number	: Receipt line width

Member(May not be used for the Japanese Market.)

Images : Object : Receipt line image data(Base64Binary)

Sample

```
"DigitalReceipt": {
  "Transactions": [{
    "ReceiptImages": [ {
      "ReceiptLines": [
        { "#value": "" },
        { "#value": " 【Customer Receipt】 " },
        { "#value": "" },
        { "#value": "Customer consultation room TEL: 0120-xxx-xxx" },
        { "#value": "Inquiries reception time 9: 00 ~ 22: 00" },
        { "#value": "Sunday, 05 May, 2017 12:20 Register 0006" },
        { "#value": "" },
        { "#value": "Responsibility No 1,0005704 Araki" },
        { "#value": "Chi No 10005704 Araki" },
        { "#value": "SRID" },
        { "#value": "9900000016xxxxxx" },
        { "#value": "870103 3.6 Non-ingredient adjusted milk" },
        { "#value": "2 pieces X single 195 ¥ 390" },
        { "#value": "910102 Sun Suite ¥ 119" },

        (Somewhat)

        { "#value": "460805 Garlic ¥ 98" },
        { "#value": "Total / 58 points ¥ 9,075" },
        { "#value": "(Total Internal Tax Included Amount ¥ 9,075)" },
        { "#value": "(Internal tax ¥ 672)" },
        { "#value": "(Total tax ¥ 672)" },
        { "#value": "Total ¥ 9,075" },
        { "#value": "Fishing ¥ 0" },
        { "#value": "***** CARD POINT *****" },
        { "#value": "Points earned points details" },
        { "#value": "Purchase point 42P" },
        { "#value": "Magnification point x 2.0 42 P" },
        { "#value": "Total points acquired this time 84P" },
        { "#value": "Total points up to the previous point 5411 P" },
        { "#value": "Point balance after transaction 5495 P" },
        { "#value": "Monthly purchase price ¥ 9,075" },
        { "#value": "-----" },
        { "#value": "Membership number 294000165xxxx-xx" },
        { "#value": "Current stage platinum" },
        { "#value": "*****" },
        { "#value": "☆ mark is subject to self-medication tax control" },
        { "#value": "We will not reissue the receipt." },
        { "#value": "When you keep it with wallet etc, print side" },
        { "#value": "Please fold inward and carefully keep it." },
        { "#value": "" },
        { "#value": "" },
        { "#value": "Receipt No. 0353 Store No00027" }
      ]
    }
  ]
}
```

Notices

Attributes and members detailed information that are not used for the Japanese market, are not described in this specification.

If it is required please refer to the Schema.

3.14 Document number

Item name

InvoiceNumbers

Hierarchy level 2

Overview

Voucher issue number such as invoice or order slip which becomes the basis of receipt accounting

Syntax

```
"InvoiceNumbers": [  
  { "#value": "xxxx ..." },  
  { "#value": "yyyy ..." }  
]
```

Data

Value

#value	: Text	: Issue number of the document
--------	--------	--------------------------------

Attribute(May not be used for the Japanese Market.)

DateTime	: Text	: Issue date and time of the document
----------	--------	---------------------------------------

Sample

```
"DigitalReceipt": {
```

```

    "Transactions": [{
      "InvoiceNumbers": [
        { "#value": "0123"},
        { "#value": "4567"}
      ]
    }]
  }

```

Notices

The number of lines can be added unlimitedly, and multiple lines can be described, if it is required.

Attributes detailed information that are not used for the Japanese market, are not described in this specification.

If it is required please refer to the Schema.

3.15 Transaction Details

Item name

RetailTransactions

Hierarchy level 2

Overview

It is a TOP tag of the transaction details, and it stores item line of the receipt, total information, customer information, point information and so on.

Syntax

```
"RetailTransactions": []
```

Data

Member

LineItems	: Array	: Line Item related information
Totals	: Array	: Total information
Customers	: Array	: Customer information
LoyaltyAccounts	: Array	: Customer point information
Foodservices	: Array	: Array of food service information

Member (May not be used for the Japanese Market.)

Associates	: Array	: Array of associated information
------------	---------	-----------------------------------

Delivery	: Object	: Delivery information
ItemCount	: Integer	: The item count numbers in the Retail transaction
Pickup	: Object	: Pickup information
Reason	: Text	: Reason of the Retail transaction
RestrictionValidations	: Array	: Array of Restriction validation information
SpecialOrderNumber	: Text	: A special order number that is created after the purchase.
Survey	: Object	: Link to survey usually printed on the bottom/back of the receipt
TransactionLinks	: Array	: Link to another RetailTransaction

Sample

```
"DigitalReceipt": {
  "Transactions": [{
    "RetailTransactions": [{
      "LineItems": [

      ],
      "Totals": [

      ],
      "Customers": [

      ],
      "LoyaltyAccounts": [

      ]
    }
  ]
}
```

Notices

Members detailed information that are not used for the Japanese market, are not described in this specification.

If it is required please refer to the Schema.

3.16 Detail line

Item name

LineItems

Hierarchy 3rd level

Overview

It is an array for storing item line data, including sales, payment, discounts, returned goods information and so on.

Syntax

"LineItems": []

Data

Member

Sale	: Object	: Sales information
Return	: Object	: Return information
Discount	: Object	: Discount information
LoyaltyRedemption	: Object	: Loyalty Program Points Redemption related information
LoyaltyReward	: Object	: Loyalty Program Reward related information
Tender	: Object	: Tender related information
Coupon	: Object	: Coupon information
StoredValueFundSale	: Object	: Prepaid card sales information
Advertising	: Object	: Advertisement information
SequenceNumber	: Text	: Sequence number of line items

Attribute (May not be used for the Japanese Market.)

Action	: Text	: Line item action type information
CODFlag	: Bool	: COD(Cash on delivery) indication flag
CancelFlag	: Bool	: Cancel indication flag
DeleteFlag	: Bool	: Line item delete indication flag
DestinationType	: Text	: Destination type in foodservice
RefusalReason	: Text	: Reason of refusal information
ResaleFlag	: Bool	: Resale indication flag

Member (May not be used for the Japanese Market.)

BeginDateTimes	: Array	: Transaction beginning date & time information
CODVoucherNumbers	: Array	: COD voucher number information
ContactInformation	: Object	: Contact information
CustomerOrderForDelivery	: Object	: Customer order information for delivery
CustomerOrderForPickup	: Object	: Customer order information for pickup
DateTimes	: Array	: Variety of dates & times information associated with the line item.
Deposit	: Number	: Deposit amount information
Donation	: Object	: Donation information
EndDateTimes	: Array	: Transaction end date & time information
FuelSale	: Object	: Fuel sale information
GiftCertificate	: Object	: Gift certificate information
GiftRegistry	: Object	: Gift Registry information to be recorded in the line items
ItemLinks	: Array	: Linked line items sequence number information that is to be allowed another line items in the same transaction.
Layaway	: Object	: Layaway information
MerchandiseHierarchies	: Array	: Product classification information
Modifications	: Array	: Modification information prior to the delivery
PCMuUIDs	: Object	: Link to the Product Content Management Asset(s) associated with the line items
PaymentOnAccount	: Object	: Payment information on account
Points	: Object	: Points information
PreviousCustomerOrder	: Object	: Previous customer order information
PreviousLayaway	: Object	: Previous layaway details
RainCheck	: Object	: Rain check information
Reasons	: Array	: Reason string array of the line item
Rebate	: Object	: Rebate information
RequiredAges	: Object	: Minimum age necessary to sell the item

RestrictionValidations	: Array	: Restriction validation information
ReturnForDelivery	: Object	: Return information for delivery
ReturnForPickup	: Object	: Return information for pickup
Rounding	: Object	: Item price rounding information
SaleForDelivery	: Object	: Sale information for delivery
SaleForPickup	: Object	: Sale information for pickup
SaleOfGiftCard	: Object	: Sale of gift card information
Tax	: Object	: Tax information
TenderChange	: Object	: Tender change information

Sample

```
"DigitalReceipt": {
  "Transactions": [{
    "RetailTransactions": [{
      "LineItems": [
        {
          "Sale": { "ItemIDs": [{ "#value": "889999" }] },
          "SequenceNumbers": [ 1 ]
        },
        {
          "Return": { "ItemIDs": [{ "#value": "7777" }] },
          "SequenceNumbers": [ 2 ]
        },
        {
          "Discount": {
            "SequenceNumber": 1,
            "ItemIDs": [{ "#value": "7777" }]
          },
          "SequenceNumbers": [ 3 ]
        },
        {
          "LoyaltyRedemption": { "PointsRedeemed": [{ "#value": 444 }] },
          "SequenceNumbers": [ 4 ]
        },
        {
          "Tender": { "Amount": { "#value": 200 } },
          "SequenceNumbers": [ 5 ]
        },
        {
          "Coupon": { "Discounts": [ 100 ] },
          "SequenceNumbers": [ 6 ]
        },
        {
          "StoredValueFundSale": {
            "ItemIDs": [{ "#value": "888" }],
            "ExtendedAmount": { "#value": 800 }
          },
          "SequenceNumbers": [ 7 ]
        }
      ]
    }
  ]
}
```

```

{
    "Advertising": {
        "AdvertisingID": "8888",
        "Texts": ["Advertisement information"]
    },
    "SequenceNumbers": [ 8 ]
},
],
"Totals": [
],
"Customers": [
]
}]
}

```

Notices

Attributes and members detailed information that are not used for the Japanese market, are not described in this specification.

If it is required please refer to the Schema.

3.17 Sales information

Item name

Sale

Hierarchy 4th level

Overview

It is an object for storing sales information on item lines, and it stores product information, product classification information, sales amount, sales quantity, and so on.

Syntax

"Sale": {}

Data

Member

ItemIDs	: Array	: Item ID information
MerchandiseHierarchies	: Array	: Product classification information
Descriptions	: Array	: Sales overview as the description
UnitListPrice	: Object	: Product unit list price (manufacturer suggested retail price)
RegularSalesUnitPrice	: Object	: Normal selling unit price
ActualSalesUnitPrice	: Object	: Actual sales unit price
ExtendedAmount	: Object	: Total amount of goods actual sales price
Quantities	: Array	: Sales quantity information
RetailPriceModifiers	: Array	: Sales price change information
Taxes	: Array	: Tax information
ItemLinks	: Array	: Linked line items sequence number information that is to be allowed another line items in the same transaction.
Foodservice	: Object	: Food service information

Attribute (May not be used for the Japanese Market.)

EquivalentItemFlag	: Bool	: Equivalent Item indication flag
FixedPriceFlag	: Bool	: Fixed price indication flag
FoodstampableFlag	: Bool	: Food stamp usable indication flag
ItemRestrictionsApplyFlag	: Bool	: Item Restriction applied flag
ItemSubType	: Text	: Retail transaction item sub type information
ItemType	: Text	: Retail transaction item type information
NonDiscountableFlag	: Bool	: Non Discountable indication flag
NotNormallyStockedFlag	: Bool	: Not Normally stocked indication flag
ReserveFlag	: Bool	: Reserves indication flag
ReturnableFlag	: Bool	: Returnable indication flag
TaxableFlag	: Bool	: Taxable indication flag

Member (May not be used for the Japanese Market.)

Associates	: Array	: Store associates' information
Children	: Array	: Child information of parent Child type information
Combos	: Array	: Combo item information
CountryOfOrigins	: Array	: Country of origin information
DiscountAmount	: Object	: Discount amount applied to the price of the item being sold
Disposal	: Object	: Disposal information
Divisions	: Array	: Report the ingredients on a particular portion, such as a pizza or a sandwich or etc.
ExtendedDiscountAmount	: Object	: Total discount amount applied to the item
GiftReceiptDateTimes	: Array	: Various dates & times that can be associated with a gift receipt
GiftReceiptQuantity	: Object	: The quantity of the items on the gift receipt
Items	: Array	: Sales item information
Kit	: Object	: Identification information of the components to the kit
LotNumbers	: Array	: Lot number information
LoyaltyAccount	: Object	: Loyalty account information
Modifications	: Array	: Modification information
POSIentities	: Array	: POS ID information
Parents	: Array	: Parent information of Parent child type information
ReceiptLines	: Array	: Line item specific message to

		be added to the receipt
RegistryID	: Text	: Gift registry ID information
ReturnPolicy	: Object	: Return policy information
Rounding	: Object	: Item price rounding information
SerialNumbers	: Array	: Serial number information
SpecialOrderNumbers	: Array	: Special order number information
SuggestedPrice	: Object	: Suggested item price information
Tickets	: Array	: Ticket information
TransactionLinks	: Array	: Link to previous retail transaction information
UnitCostPrice	: Object	: Unit cost of the item information
WICQuantity	: Object	: The quantity of the item that is covered by a WIC checking

Sample

```
"LineItems": [
  {
    "Sale": {
      "ItemIDs": [{
        "Name": "Milk"
        "#value": "49xxxxxxxxxxx"
      }],
      "MerchandiseHierarchies": [{
        "Type": "Retailer",
        "#value": "888"
      }],
      "Descriptions": [{ "#value": "Today Special Item" }],
      "UnitListPrice": { "#value": 130 },
      "RegularSalesUnitPrice": { "#value": 140 },
      "ActualSalesUnitPrice": { "#value": 120 },
      "ExtendedAmount": { "#value": 240 },
      "Quantities": [{ "#value": 2 }]
    },
    "SequenceNumbers": [ 4 ]
  }
],
```

Notices

Attributes and members detailed information that are not used for the Japanese market, are not described in this specification.

If it is required please refer to the Schema.

3.17.1 Product information

Item name

ItemIDs

Hierarchy 5th level

Overview

It is an array that stores product information and stores product name, product code type, and product code data and so on.

Syntax

"ItemIDs": []

Data

Attribute

Name : Text : Product name

Type : Text : Product code type

Value

#value : Text : Product code

Attribute(May not be used for the Japanese Market.)

Qualifier : Text : Qualifier of item

UUID : Text : UUID of item

Sample

```
"LineItems": [
  {
    "Sale": {
      "ItemIDs": [{
        "Name": "3.6 Non-ingredient adjusted milk"
        "Type": "GTIN",
        "#value": "49xxxxxxxxxxx",
      }],
    },
    "SequenceNumbers": [ 1 ]
  }
],
```

Notices

Type: GTIN, SGTIN, SSCC, SIN, PLU, SKU, ItemID, OrderNumber, ISBN, ISSN, EPC, TUC, POSDepartment, RFID, UPC, MUZEID, AMGID, MenuID, UPC - A, UPC - E PDF417, MAXICode, UPC - D1, UPC - D2, UPC - D3, UPC - D4, UPC - D5, EAN8, JAN8, JAN13, EAN13, EAN - 128 Interleaved2Of5, Codabar

Attributes detailed information that are not used for the Japanese market, are not described in this specification.

If it is required please refer to the Schema.

3.17.2 Product classification information

Item name

MerchandiseHierarchies

Hierarchy 5th level

Overview

It is an array that stores product classification information, and it stores classification codes, hierarchy levels, and so on.

Syntax

"MerchandiseHierarchies": []

Data

Attribute

ID	: Text	: Classification code
Level	: Text	: Hierarchy level
Name	: Text	: Classification name
Type	: Text	: Classification code type

Value (May not be used for the Japanese Market.)

#value	: Text	: Merchandise hierarchy string
--------	--------	--------------------------------

Sample

```
"LineItems": [  
  {  
    "Sale": {  
      "ItemIDs": [{  
        "Name": "3.6 Non-ingredient adjusted milk"  
        "#value": "49xxxxxxxxxxx",  
      }],  
    },  
  },  
]
```

```

    "MerchandiseHierarchies": [{
      "ID": "460xxx",
      "Level": "Class"
      "Name": "Milk"
      "Type": "Retailer"
    }],
    "Descriptions": [{ "#value": "Today's Special Sale" }],
    "UnitListPrice": { "#value": 130 },
    "RegularSalesUnitPrice": { "#value": 140 },
    "ActualSalesUnitPrice": { "#value": 120 },
    "ExtendedAmount": { "#value": 240 },
    "Quantities": [{ "#value": 2 }],
  },
  "SequenceNumbers": [ 1 ]
},
],

```

Notices

Level: Division, Group, SubGroup, MajorDepartment, Department,
 SubDepartment, MajorClass, Class, SubClass, Category, SubCategory,
 Supplier, Accounting, Style, SKU, UPC, EPC
 Type: Retailer, NotRetailer, ...

Values detailed information that are not used for the Japanese market, are not described in this specification.
 If it is required please refer to the Schema.

3.17.3 Sales description

Item name

Descriptions

Hierarchy level 5

Overview

A character string array describing sales information is stored.

Syntax

"Descriptions": []

Data

Value

#value : Text : Sales information character string

Attribute(May not be used for the Japanese Market.)

Language : Text : Language code of sales information

TypeCode : Text : Type code of sales information

Sample

```
"LineItems": [  
  {  
    "Sale": {
```

```

    "ItemIDs": [{
      "Name": "3.6 Non-ingredient adjusted milk"
      "#value": "49xxxxxxxxxxx",
    }],
    "MerchandiseHierarchies": [{
      "ID": "460xxx",
      "Level": "Class"
      "Name": "Milk"
      "Type": "Retailer"
    }],
    "Descriptions": [{ "#value": "Today's Special Sale" }],
    "UnitListPrice": { "#value": 130 },
    "RegularSalesUnitPrice": { "#value": 140 },
    "ActualSalesUnitPrice": { "#value": 120 },
    "ExtendedAmount": { "#value": 240 },
    "Quantities": [{ "#value": 2 }],
  },
  "SequenceNumbers": [ 1 ]
},
],

```

Notices

Attributes detailed information that are not used for the Japanese market, are not described in this specification.

If it is required please refer to the Schema.

3.17.4 Product unit price (manufacturer suggested retail price)

Item name

UnitListPrice

Hierarchy level 5

Overview

A character string describing the product unit price (manufacturer suggested retail price) is stored.

Syntax

```
"UnitListPrice": {}
```

Data

Value

#value	: Number	: Product unit price information number
--------	----------	---

Attribute (May not be used for the Japanese Market.)

Currency	: Text	: Currency code
Denomination	: Text	: Denomination string
EntryMethod	: Text	: Entry method type string
ForeignAmount	: Number	: Amount of foreign currency
Quantity	: Number	: Quantity of unit
UnitOfMeasureCode	: Text	: Unit of measure code string

Sample

```
"LineItems": [  
  {  
    "Sale": {  
      "ItemIDs": [{  
        "Name": "3.6 Non-ingredient adjusted milk"      }  
    }  
  }  
]
```

```

        "#value": "49xxxxxxxxxxx",
      }],
      "MerchandiseHierarchies": [{
        "ID": "460xxx",
        "Level": "Class"
        "Name": "Milk"
        "Type": "Retailer"
      }],
      "Descriptions": [{ "#value": "Today's Special Sale" }],
      "UnitListPrice": { "#value": 130 },
      "RegularSalesUnitPrice": { "#value": 140 },
      "ActualSalesUnitPrice": { "#value": 120 },
      "ExtendedAmount": { "#value": 240 },
      "Quantities": [{ "#value": 2 }],

    },
    "SequenceNumbers": [ 1 ]
  },
],

```

Notices

Attributes detailed information that are not used for the Japanese market, are not described in this specification.

If it is required please refer to the Schema.

3.17.5 Regular sales unit price

Item name

RegularSalesUnitPrice

Hierarchy level 5

Overview

A character string describing ordinary sales unit price is stored.

Syntax

```
"RegularSalesUnitPrice": {}
```

Data

Value

#value : Number : normal selling price information number

Attribute(May not be used for the Japanese Market.)

Currency	: Text	: Currency code string
Denomination	: Text	: Denomination string
EntryMethod	: Text	: Entry method type string
ForeignAmount	: Number	: Amount of foreign currency
Quantity	: Number	: Quantity of unit

UnitOfMeasureCode : Text : Unit of measure code string

Sample

```
"LineItems": [
  {
    "Sale": {
      "ItemIDs": [{
        "Name": "3.6 Non-ingredient adjusted milk"
        "#value": "49xxxxxxxxxxxx",
      }],
      "MerchandiseHierarchies": [{
        "ID": "460xxx",
        "Level": "Class"
        "Name": "Milk"
        "Type": "Retailer"
      }],
      "Descriptions": [{ "#value": "Today's Special Sale" }],
      "UnitListPrice": { "#value": 130 },
      "RegularSalesUnitPrice": { "#value": 140 },
      "ActualSalesUnitPrice": { "#value": 120 },
      "ExtendedAmount": { "#value": 240 },
      "Quantities": [{ "#value": 2 }],
    },
    "SequenceNumbers": [ 1 ]
  }
],
```

Notices

Attributes detailed information that are not used for the Japanese market, are not described in this specification.

If it is required please refer to the Schema.

3.17.6 Actual sales unit price

Item name

ActualSalesUnitPrice

Hierarchy level 5

Overview

A character string describing the real selling unit price is stored.

Syntax

"ActualSalesUnitPrice": {}

Data

Value

#value : Number : Actual sales price information number

Attribute(May not be used for the Japanese Market.)

Action : Text : Price change action type string

Currency : Text : Currency code string

Denomination : Text : Denomination string

EntryMethod	: Text	: Entry method type string
ForeignAmount	: Number	: Amount of foreign currency
Quantity	: Number	: Quantity of unit
UnitOfMeasureCode	: Text	: Unit of measure code string

Sample

```

"LineItems": [
  {
    "Sale": {
      "ItemIDs": [{
        "Name": "3.6 Non-ingredient adjusted milk"
        "#value": "49xxxxxxxxxxx",
      }],
      "MerchandiseHierarchies": [{
        "ID": "460xxx",
        "Level": "Class"
        "Name": "Milk"
        "Type": "Retailer"
      }],
      "Descriptions": [{ "#value": "Today's Special Sale" }],
      "UnitListPrice": { "#value": 130 },
      "RegularSalesUnitPrice": { "#value": 140 },
      "ActualSalesUnitPrice": { "#value": 120 },
      "ExtendedAmount": { "#value": 240 },
      "Quantities": [{ "#value": 2 }],
    },
    "SequenceNumbers": [ 1 ]
  }
],

```

Notices

Attributes detailed information that are not used for the Japanese market, are not described in this specification.

If it is required please refer to the Schema.

3.17.7 Total sales amount

Item name

ExtendedAmount

Hierarchy level 5

Overview

A character string describing the total sales amount is stored.

Syntax

```
"ExtendedAmount": {}
```

Data

Value

#value	: Number	: Sales amount total information number
--------	----------	---

Attribute (May not be used for the Japanese Market.)

Action	: Text	: Price change action type string
Currency	: Text	: Currency code string
Denomination	: Text	: Denomination string

ForeignAmount : Number : Amount of foreign currency

Sample

```
"LineItems": [
  {
    "Sale": {
      "ItemIDs": [{
        "Name": "3.6 Non-ingredient adjusted milk"
        "#value": "49xxxxxxxxxxx",
      }],
      "MerchandiseHierarchies": [{
        "ID": "460xxx",
        "Level": "Class"
        "Name": "Milk"
        "Type": "Retailer"
      }],
      "Descriptions": [{ "#value": "Today's Special Sale" }],
      "UnitListPrice": { "#value": 130 },
      "RegularSalesUnitPrice": { "#value": 140 },
      "ActualSalesUnitPrice": { "#value": 120 },
      "ExtendedAmount": { "#value": 240 },
      "Quantities": [{ "#value": 2 }],
    },
    "SequenceNumbers": [ 1 ]
  }
],
```

Notices

Attributes detailed information that are not used for the Japanese market, are not described in this specification.

If it is required please refer to the Schema.

3.17.8 Sales Quantity

Item name

Quantities

Hierarchy level 5

Overview

A character string array describing the sales quantity is stored.

Syntax

"Quantities": []

Data

Value

#value : Number : Sales quantity information number

Attribute (May not be used for the Japanese Market.)

EntryMethod	: Text	: Entry method type string
Resolution	: Number	: Resolution of quantity
Type	: Text	: Quantity type string
UnitOfMeasureCode	: Text	: Unit of measure code string

Units : Number : Units of quantity

Sample

```
"LineItems": [
  {
    "Sale": {
      "ItemIDs": [{
        "Name": "3.6 Non-ingredient adjusted milk"
        "#value": "49xxxxxxxxxxx",
      }],
      "MerchandiseHierarchies": [{
        "ID": "460xxx",
        "Level": "Class"
        "Name": "Milk"
        "Type": "Retailer"
      }],
      "Descriptions": [{ "#value": "Today's Special Sale" }],
      "UnitListPrice": { "#value": 130 },
      "RegularSalesUnitPrice": { "#value": 140 },
      "ActualSalesUnitPrice": { "#value": 120 },
      "ExtendedAmount": { "#value": 240 },
      "Quantities": [{ "#value": 2 }],
    },
    "SequenceNumbers": [ 1 ]
  }
],
```

Notices

Attributes detailed information that are not used for the Japanese market, are not described in this specification.

If it is required please refer to the Schema.

3.17.9 Sales price change information

Item name

RetailPriceModifiers

Hierarchy 5th level

Overview

An array that stores sales price change information of a line item. This stores a price change method and others.

Syntax

"RetailPriceModifiers": []

Data

Attribute

MethodCode	: Text	: Price change method information
------------	--------	-----------------------------------

Member

SequenceNumber	: Integer	: Sequence number of price change row
Amount	: Object	: Sales price change amount information
Percent	: Object	: Price change rate

PreviousPrice	: Object	: Previous changed price
PromotionID	: Object	: Promotion identifier information
ReasonCodes	: Array	: Sales price change reason information

Attribute (May not be used for the Japanese Market.)

CardAction	: Text	: Card action string
DiscountBenefit	: Text	: Discount benefit type code string
DuplicateFlag	: Bool	: Indicate the modifier is duplicate
WorkstationType	: Text	: Workstation use type description

Member (May not be used for the Japanese Market.)

Descriptions	: Array	: Array of description
ExpirationDate	: Text	: Expiration date
ItemLinks	: Array	: Linked line items sequence number information that is to be allowed another line items in the same transaction.
MerchandiseHierarchy	: Object	: Product classification information
NewPrice	: Object	: New price changed by the modifier
OperatorBypassApprovals	: Array	: Operator bypass approval information
Points	: Object	: Price change by the Points
Quantity	: Object	: Price change by the quantity
RetailPriceModifierLinks	: Array	: Link to the other price modifier sequence number information
Rounding	: Object	: Price rounding information

Sample

```
"RetailPriceModifiers": [{
  "MethodCode": "Coupon",
  "SequenceNumber": 1,
  "Amount": {
    "Action": "Subtract",
    "#value": 50
  },
  "PreviousPrice": { "#value": 400 },
  "ReasonCodes": ["456345"]
}]
```

Notices

MethodCode: PriceOverride, PriceRule, Promotion, SeniorCitizen, Markdown, Coupon, QuantityDiscount, Rebate, CashDiscount, TradeDiscount, TradeInKind, PromptPaymentDiscount, GeneralDiscount, Giftvoucher, FlexibleDiscount, RewardProgram, ManufacturerReward, CreditCardReward, TargetedOffer, Points

Attributes and members detailed information that are not used for the Japanese market, are not described in this specification.

If it is required please refer to the Schema.

3.17.9.1 Price change line sequence number

Item name

SequenceNumber

Hierarchy level 6

Overview

Sequence No. to be issued for each price change line.

Syntax

"SequenceNumber": nnn

Data

SequenceNumber : Integer : Sequence No.

Sample

```
"RetailPriceModifiers": [{  
  "MethodCode": "Coupon",  
  "SequenceNumber": 1,
```

```

    "Amount": {
      "Action": "Subtract",
      "#value": 400
    },
    "PreviousPrice": { "#value": 4000 },
    "ReasonCodes": ["64555"]
  }
}

```

Notices

3.17.9.2 Selling price change total information

Item name

Amount

Hierarchy level 6

Overview

It is an object that stores the selling price change total price information of the item line, and stores information such as a price changing operation.

Syntax

```
"Amount": {}
```

Data

Attribute

Action : Text : Price change operation information

Value

#value : Number : Change price value

Attribute (May not be used for the Japanese Market.)

Currency	: Text	: Currency code string
Denomination	: Text	: Denomination string
ForeignAmount	: Number	: Amount of foreign currency

Sample

```
"Amount": {
  "Action": "Subtract",
  "#value": 50
}
```

Notices

Action: Add, Subtract, Replace, For

Attributes detailed information that are not used for the Japanese market, are not described in this specification.

If it is required please refer to the Schema.

3.17.9.3 Sales price change ratio information

Item name

Percent

Hierarchy level 6

Overview

An object that stores the sales price change ratio information of a specification row, and stores information such as price change operations.

Syntax

```
"Percent": {}
```

Data

Attribute

Action	: Text	: Price change operation information
--------	--------	--------------------------------------

Value

#value	: Number	: Change rate value
--------	----------	---------------------

Sample

```

"RetailPriceModifiers": [{
  "MethodCode": "Coupon",
  "SequenceNumber": 1,
  "Percent": {
    "Action": "Subtract",
    "#value": 50
  },
  "PreviousPrice": { "#value": 4000 },
  "ReasonCodes": ["64555"]
}]

```

Notices

Action: Add, Subtract

3.17.9.4 Before change selling price information

Item name

PreviousPrice

Hierarchy level 6

Overview

Selling price before change

Syntax

"PreviousPrice": {}

Data

Attribute

Currency	: Text	: Currency code string
Denomination	: Text	: Price change string by Denomination
EntryMethod	: Text	: Price change string by Entry Method
ForeignAmount	: Number	: Price change amount by foreign currency
Quantity	: Number	: Price change by Quantity
UnitOfMeasureCode	: Text	: Price change code string by unit of measure

Value

#value : Number : Before change sales price information

Sample

```
"RetailPriceModifiers": [{
  "MethodCode": "Coupon",
  "SequenceNumber": 1,
  "Amount": {
    "Action": "Subtract",
    "#value": 400
  },
  "PreviousPrice": { "#value": 4000 },
  "ReasonCodes": ["64555"]
}]
```

Notices

Currency: CNY, EUR, JPY, KRW, USD,... (ISO-4217)

EntryMethod: SmartCard, MICR, MSR, Keyed, Scanned, Weighed, Measured, RFID,
Automatic, IntegratedChipCard, Tapped, Waved

UnitOfMeasureCode: EA, Hours, Days, Seconds, Crate of 12, 6Pack, GLI, GLL, LTR, INH, FOT,
SMI, FTK, YDT, DH, MMT, KTM, CMQ, CMT, MTR, MTK, MTQ, GRM, KGM, Kg, LBR, ANN,
CEL, FAH, Oz

Attributes detailed information that are not used for the Japanese market, are not
described in this specification.

If it is required please refer to the Schema.

3.17.9.5 Promotion ID

Item name

PromotionID

Hierarchy level 6

Overview

Array for storing promotion IDs such as coupons.

Syntax

```
"PromotionID": {}
```

Data

Value

#value : Text : Promotion ID information

Attribute (May not be used for the Japanese Market.)

TypeCode : Text : Promotion Type Code information

Sample

```
"RetailPriceModifiers": [{
  "MethodCode": "Coupon",
  "SequenceNumber": 1,
  "Amount": {
    "Action": "Subtract",
    "#value": 400
  },
  "PreviousPrice": { "#value": 4000 },
  "PromotionID": { "#value": "45689" },
  "ReasonCodes": ["64555"]
}]
```

Notices

TypeCode: GTIN, SGTIN, SSCC, SIN, PLU, SKU, ..., OTHER, UNKNOWN

Attributes detailed information that are not used for the Japanese market, are not described in this specification.

If it is required please refer to the Schema.

3.17.9.6 Reason code value for selling price change

Item name

ReasonCodes

Hierarchy level 6

Overview

Sales price change reason code

Syntax

```
"ReasonCodes": []
```

Data

"ReasonCode" : Text : Sales price change reason code information character string

Sample

```
"RetailPriceModifiers": [{
  "MethodCode": "Coupon",
  "SequenceNumber": 1,
  "Amount": {
    "Action": "Subtract",
```

```

        "#value": 400
      },
      "PreviousPrice": { "#value": 4000 },
      "ReasonCodes": ["64555"]
    }
  ]
}

```

Notices

3.17.10 Tax information

Item name

Taxes

Hierarchy 5th level

Overview

It is an array that stores tax information and stores the tax type code, tax amount, tax rate, and the like.

Syntax

```
"Taxes": []
```

Data

Attribute

TaxType	: Text	: Tax type
---------	--------	------------

Member

Amount	: Object	: Tax amount
Percent	: Number	: Tax rate

Attribute (May not be used for the Japanese Market.)

Action	: Text	: Tax action description
NormalTaxType	: Text	: Normal tax type description
TaxAtSource	: Text	: Tax at source description
TaxSubType	: Text	: Tax sub type description
TypeCode	: Text	: Tax sale type description

Member (May not be used for the Japanese Market.)

ReasonCode	: Object	: Tax applicable reason code information
Rounding	: Object	: Tax amount rounding information
SequenceNumber	: Integer	: Line items group sequence number in a transaction.
TaxAuthority	: Text	: Tax Authority information
TaxGroupIDs	: Array	: Tax Group ID information
TaxJurisdictionIDs	: Array	: Tax Jurisdiction IDs information
TaxRuleIDs	: Array	: Tax Rule IDs information
TaxableAmount	: Object	: Taxable amount information
TaxablePercentage	: Number	: Taxable percentage information

Sample

```
"Taxes": [{  
  "TaxType": "Consumption",  
  "Amount": { "#value": 100 },  
  "Percent": 8  
}]
```

Notices

TaxType: Sales, Consumption, VAT, GST, PST, HST, Excise, UseTax, ProduceRecyclingFund

Attributes and members detailed information that are not used for the Japanese market, are not described in this specification.

If it is required please refer to the Schema.

3.17.10.1 Tax Amount

Item name

Amount

Hierarchy level 6

Overview

Tax amount information

Syntax

```
"Amount": {}
```

Data

Value

#value : Number : Tax amount information number

Attribute

Currency	: Text	: Currency code string
Denomination	: Text	: Tax of denomination string
ForeignAmount	: Number	: Tax of foreign currency amount string

Sample

```
"Taxes": [{  
  "TaxType": "Consumption",  
  "Amount": { "#value": 100 },  
  "Percent": 8  
}]
```

Notices

Currency: CNY, EUR, JPY, KRW, USD,... (ISO-4217)

Attributes detailed information that are not used for the Japanese market, are not described in this specification.

If it is required please refer to the Schema.

3.17.10.2Tax rate

Item name

Percent

Hierarchy level 6

Overview

Tax information

Syntax

"Percent": nnnn

Data

Percent	: Number	: Tax rate information character string
---------	----------	---

Sample

```
"Taxes": [{
  "TaxType": "Consumption",
  "Amount": { "#value": 100 },
  "Percent": 8
}]
```

Notices

3.17.11 Lineitem number associated with the target lineItem

Item name

ItemLinks

Hierarchy level 5

Overview

Array of associated sequence number for the target LineItem

Syntax

"ItemLinks": []

Data

"ItemLinks" : Array : Linked line items sequence number information that is to be allowed another line items in the same transaction.

Sample

```
"LineItems": [
  {
    "Sale": {
      "ItemIDs": [{
        "Name": "Cheeseburger",
        "Type": "GTIN",
        "#value": "1223045899786"
      }],
      "ExtendedAmount": { "#value": 240 },
      "Quantities": [{ "#value": 2 }],
      "Taxes": [{
        "TaxType": "Consumption",
        "Amount": { "#value": 24 },
        "Percent": 10
      }],
      "ItemLinks": [ 3 ],
      "Foodservice": {
        "DestinationType": "ToGo"
      }
    },
    "SequenceNumbers": [ 1 ]
  }
],
```

Notices

3.17.12 Food service information

Item name

Foodservice

Hierarchy level 5

Overview

Food service information is stored in the object, and information such as service target type is stored.

Syntax

```
"Foodservice": {}
```

Data

Attribute

DestinationType	: Text	: Service target type
-----------------	--------	-----------------------

Attribute (May not be used for the Japanese Market.)

ProcessMode	: Text	: Foodservice process mode string
SalesMetrics	: Text	: Foodservice sales metrics string

Member (May not be used for the Japanese Market.)

CheckInTime	: Text	: The time a customer sets down at a table
CheckOutTime	: Text	: The time a customer left the table
CookEndTime	: Text	: The time the cooking was finished
CookStartTime	: Text	: The time the cooking of the food began
DelayDateTime	: Text	: Delay starting the food service transaction until the nominated time
Gratuity	: Object	: The monetary amount of the gratuity that accompanies the hospitality transaction
ItemLinks	: Array	: Ties the Foodservice to one or more items
OrderTime	: Text	: Customer ordered time to the food information
PartyCount	: Integer	: Number of tendered Parties in the business day
PartyName	: Text	: The name for this particular party
PartySize	: Integer	: The number of people being served in one group
SeatIDs	: Array	: Array of Identifies the particular seat for a particular customer
ServeTime	: Text	: The time the customer was served
TableCharge	: Object	: Table charge information
TableIDs	: Array	: Array of unique number of the table being served by this transaction
TableSection	: Text	: The location of the table within the restaurant
Trays	: Array	: Array of structure which reports the information about a tray in a cafeteria type environment

Sample

```
"Foodservice": {  
  "DestinationType": "DineIn"  
}
```

Notices

Service target type

DestinationType: Other, DineIn, ToGo, DriveThru, Pickup, Delivery, Patio, Catering, Garden, TelephoneOrder

Attributes and members detailed information that are not used for the Japanese market, are not described in this specification.

If it is required please refer to the Schema.

3.18 Return Information

Item name

Return

Hierarchy level 4

Overview

It is an object that stores return information of the item line, and stores the product code, the amount, the related transaction information, and the like.

Syntax

```
"Return": {}
```

Data

Member

ItemIDs	: Array	: Array of Product ID code
ExtendedAmount	: Object	: Total amount of goods actual sales price
TransactionLinks	: Array	: Array of Relevant transaction information

Attribute (May not be used for the Japanese Market.)

EquivalentItemFlag	: Bool	: Equivalent Item indication flag
FixedPriceFlag	: Bool	: Fixed price indication flag
FoodstampableFlag	: Bool	: Food stamp usable indication flag
ItemRestrictionsApplyFlag	: Bool	: Item Restriction applied flag
ItemSubType	: Text	: Retail transaction item sub type information
ItemType	: Text	: Retail transaction item type information
NonDiscountableFlag	: Bool	: Non Discountable indication flag
NotNormallyStockedFlag	: Bool	: Not Normally stocked indication flag
ReserveFlag	: Bool	: Reserve indication flag
ReturnableFlag	: Bool	: Returnable indication flag
TaxableFlag	: Bool	: Taxable indication flag

Member (May not be used for the Japanese Market.)

ActualSalesUnitPrice	: Object	: Actual sales unit price information
Associates	: Array	: Store associate information
Children	: Array	: Child information of Parent Child type information
Combos	: Array	: Combo item information
CountryOfOrigins	: Array	: Country of origin information
Descriptions	: Array	: Description information
DiscountAmount	: Object	: The total discount applied to the Price of the item being sold
Disposal	: Object	: Disposal information
Divisions	: Array	: Report the ingredients on a particular Portion, such as a pizza or a sandwich or etc.
ExtendedDiscountAmount	: Object	: Total discount amount applied to the item
Foodservice	: Object	: Food service information
GiftReceiptDateTimes	: Array	: Various dates & times that can be associated with a gift receipt
GiftReceiptQuantity	: Object	: The quantity of the items on the gift receipt

Items	: Array	: Sales items information
ItemLinks	: Array	: Linked line items sequence number information that is to be allowed another line items in the same transaction.
Kit	: Object	: Identification information of the components to the kit
LotNumbers	: Array	: Lot number information
LoyaltyAccount	: Object	: Loyalty account information
MerchandiseHierarchies	: Array	: Product classification information array
Modifications	: Array	: Modification information prior to the delivery
OperatorBypassApprovals	: Array	: Operator bypass approval information
POSIentities	: Array	: POS ID information
Parents	: Array	: Parent information of parent child type information
Quantities	: Array	: Sales quantity information
Reason	: Object	: Return reason information
ReceiptLines	: Array	: Line item specific message to be added to the receipt
RegistryID	: Text	: Gift registry ID information
RegularSalesUnitPrice	: Object	: Normal selling unit price information
RetailPriceModifiers	: Array	: Sales price change information
ReturnPolicy	: Object	: Return policy information
Rounding	: Object	: Item price rounding information
SerialNumbers	: Array	: Serial number information
SpecialOrderNumbers	: Array	: Special order number information
SuggestedPrice	: Object	: Suggested item price information
Taxes	: Array	: Tax information
Tickets	: Array	: Ticket information
To	: Object	: Unique identifier for the retail store, to where the item will be returned
UnitCostPrice	: Object	: Unit cost of the item information
UnitListPrice	: Object	: Product unit list price (manufacturer suggested retail price)
WICQuantity	: Object	: The quantity of the item that is covered by a WIC checking

Sample

```

"LineItems": [
  {
    "Return": {
      "ItemIDs": [{ "#value": "49xxxxxxxxxxx" }],
      "ExtendedAmount": { "#value": 123 },
      "TransactionLinks": [{
        "ReasonCode": "Return",
        "TransactionIDs": [ "1234567890123" ],
        "BusinessUnits": [{ "#value": "123456781231" }],
        "WorkstationIDs": [{ "#value": "002" }],
        "BusinessDayDates": [{ "Date": "2017-02-27" }],
        "SequenceNumbers": [ 2 ]
      }],
    },
    "SequenceNumbers": [ 1 ]
  }
]

```

Notices

Attributes and members detailed information that are not used for the Japanese market, are not described in this specification.

If it is required please refer to the Schema.

3.18.1 Returned item code information

Item name

ItemIDs

Hierarchy level 5

Overview

Array that Returned item code data is stored.

Syntax

```
"ItemIDs": []
```

Data

Value

#value : Text : Item code data information character string

Attribute

Name : Text : Item name
Qualifier : Text : Qualifier of item
Type : Text : Item ID Type
UUID : Text : Item Unique Identifier

Sample

```
"LineItems": [
  {
    "Return": {
      "ItemIDs": [{ "#value": "49xxxxxxxxxxx" }],
      "ExtendedAmount": { "#value": 123 },
      "TransactionLinks": [{
        "ReasonCode": "Return",
        "TransactionIDs": [ "1234567890123" ],
        "BusinessUnits": [{ "#value": "123456781231" }],
        "WorkstationIDs": [{ "#value": "002" }],
        "BusinessDayDates": [{"Date": "2017-02-27"}],
        "SequenceNumbers": [ 2 ]
      }]
    },
    "SequenceNumbers": [ 1 ]
  }
]
```

Notices

Type: GTIN, SGTIN, SSCC, SIN, PLU, SKU, ..., OTHER, UNKNOWN

Attributes detailed information that are not used for the Japanese market, are not described in this specification.

If it is required please refer to the Schema.

3.18.2 Returned Goods Total Amount Information

Item name

ExtendedAmount

Hierarchy level 5

Overview

Returned product total amount information is stored.

Syntax

```
"ExtendedAmount": {}
```

Data

Value

#value : Number : Returned product total amount information
number

Attribute (May not be used for the Japanese Market.)

Action : Text : Action to generate the extended amount
Currency : Text : Extended amount of Currency code string
Denomination : Text : Extended amount of denomination string
ForeignAmount : Number : Extended Amount of foreign currency

Sample

```
"LineItems": [
  {
    "Return": {
      "ItemIDs": [{ "#value": "49xxxxxxxxxxx" }],
      "ExtendedAmount": { "#value": 123 },
      "TransactionLinks": [{
        "ReasonCode": "Return",
        "TransactionIDs": [ "1234567890123" ],
        "BusinessUnits": [{ "#value": "123456781231" }],
        "WorkstationIDs": [{ "#value": "002" }],
        "BusinessDayDates": [{"Date": "2017-02-27"}],
        "SequenceNumbers": [ 2 ]
      }]
    },
    "SequenceNumbers": [ 1 ]
  }
]
```

Notices

Action: Add, Subtract, Replace, For

Currency: CNY, EUR, JPY, KRW, USD,... (ISO-4217)

Attributes detailed information that are not used for the Japanese market, are not described in this specification.

If it is required please refer to the Schema.

3.18.3 Related transaction information

Item name

TransactionLinks

Hierarchy level 5

Overview

Information of the original receipt is stored as related transaction information in the return information of the item line.

Syntax

"TransactionLinks": []

Data

Attribute

ReasonCode : Text : reason code

Member

TransactionIDs : Array : Transaction ID array

BusinessUnits : Array : Business Unit (Store) code array

WorkstationIDs : Array : Terminal number (Register No.) array

BusinessDayDates : Array : Transaction date array

SequenceNumbers : Array : Line items group sequence number in a transaction.

Attribute (May not be used for the Japanese Market.)

EntryMethod : Text : Entry method type string

SourceFlag : Bool : Transaction Link source indication flag

Member (May not be used for the Japanese Market.)

BeginDateTime : Object : Transaction beginning date & time information

EndDateTime : Object : Transaction end date & time information

LineItemSequenceNumber : Integer : Sequence number of the line item

OrganizationalHierarchies : Array : Organization hierarchy information

Sample

```
"LineItems": [
  {
    "Return": {
      "ItemIDs": [{ "#value": "49xxxxxxxxxxx" }],
      "ExtendedAmount": { "#value": 123 },
      "TransactionLinks": [{
        "ReasonCode": "Return",
        "TransactionIDs": [ "1234567890123" ],
        "BusinessUnits": [{ "#value": "123456781231" }],
        "WorkstationIDs": [{ "#value": "002" }],
        "BusinessDayDates": [{ "Date": "2017-02-27" }],
        "SequenceNumbers": [ 2 ]
      }]
    }
  }
]
```

```
    },  
    "SequenceNumbers": [ 1 ]  
  }  
]
```

Notices

ReasonCode: Resume, DeferredBill, Return, LayAway, Voided, ReceiptReprint, Reservation, SuggestedItem, RetrospectiveLoyalty, PaidOut

Attributes and members detailed information that are not used for the Japanese market, are not described in this specification.

If it is required please refer to the Schema.

3.18.3.1 Related transaction code information

Item name

TransactionIDs

Hierarchy level 6

Overview

Related transaction code number array

Syntax

"TransactionIDs": ["nnnn"]

Data

TransactionIDs : Array : Relevant transaction code information
character string array

Sample

```
"LineItems": [
  {
    "Return": {
      "ItemIDs": [{ "#value": "49xxxxxxxxxxx" }],
      "ExtendedAmount": { "#value": 123 },
      "TransactionLinks": [{
        "ReasonCode": "Return",
        "TransactionIDs": [ "1234567890123" ],
        "BusinessUnits": [{ "#value": "123456781231" }],
        "WorkstationIDs": [{ "#value": "002" }],
        "BusinessDayDates": [{ "Date": "2017-02-27" }],
        "SequenceNumbers": [ 2 ]
      }]
    },
    "SequenceNumbers": [ 1 ]
  }
]
```

Notices

3.18.3.2 Related Business Unit Information

Item name

BusinessUnits

Hierarchy level 6

Overview

Related transaction store information array.

Syntax

"BusinessUnits": []

Data

Value

#value : Text : Related Transaction BusinessUnits Information String

Attribute

Name : Text : Business unit name

TypeCode : Text : Business unit type code

Sample

```
"LineItems": [
  {
    "Return": {
      "ItemIDs": [{ "#value": "49xxxxxxxxxxx" }],
      "ExtendedAmount": { "#value": 123 },
      "TransactionLinks": [{
        "ReasonCode": "Return",
        "TransactionIDs": [ "1234567890123" ],
        "BusinessUnits": [{ "#value": "123456781231" }],
        "WorkstationIDs": [{ "#value": "002" }],
        "BusinessDayDates": [{"Date": "2017-02-27"}],
        "SequenceNumbers": [ 2 ]
      }]
    },
    "SequenceNumbers": [ 1 ]
  }
]
```

Notices

TypeCode: RetailStore, DistributionCenter, AdministrationCenter, CallCenter,
WebSite, Distributor, Filler, TransitCellar, Producer, Grower, Factory, Building, Dormitory

Attributes detailed information that are not used for the Japanese market, are not
described in this specification.

If it is required please refer to the Schema.

3.18.3.3 Related transactions POS terminal information

Item name

WorkstationIDs

Hierarchy level 6

Overview

Related transaction POS terminal information array.

Syntax

"WorkstationIDs": []

Data

Value

#value	: Text	: Related transaction POS terminal information character string
--------	--------	---

Attribute

Mode	: Text	: Business Mode description
SerialNumber	: Text	: Workstation machine Serial Number
TypeCode	: Text	: Workstation use type description
WorkstationLocation	: Text	: Workstation Location Name

Sample

```
"LineItems": [
  {
    "Return": {
      "ItemIDs": [{ "#value": "49xxxxxxxxxxx" }],
      "ExtendedAmount": { "#value": 123 },
      "TransactionLinks": [{
        "ReasonCode": "Return",
        "TransactionIDs": [ "1234567890123" ],
        "BusinessUnits": [{ "#value": "123456781231" }],
        "WorkstationIDs": [{ "#value": "002" }],
        "BusinessDayDates": [{"Date": "2017-02-27"}],
        "SequenceNumbers": [ 2 ]
      }]
    },
    "SequenceNumbers": [ 1 ]
  }
]
```

Notices

Attributes detailed information that are not used for the Japanese market, are not described in this specification.

If it is required please refer to the Schema.

3.18.3.4 Related transaction processing date information

Item name

BusinessDayDates

Hierarchy level 6

Overview

Related transaction processing date information array, stored in UTC format.

Syntax

"BusinessDayDates": [{"Date": "yyyy-mm-dd"}],

Data

Member

Date : Text : Related transaction processing date string

Member (May not be used for the Japanese Market.)

Count : Integer : Count of this day from the start of this accounting period

Sample

```
"LineItems": [
  {
    "Return": {
      "ItemIDs": [{ "#value": "49xxxxxxxxxxx" }],
      "ExtendedAmount": { "#value": 123 },
      "TransactionLinks": [{
        "ReasonCode": "Return",
        "TransactionIDs": [ "1234567890123" ],
        "BusinessUnits": [{ "#value": "123456781231" }],
        "WorkstationIDs": [{ "#value": "002" }],
        "BusinessDayDates": [{"Date": "2017-02-27"}],
        "SequenceNumbers": [ 2 ]
      }]
    },
    "SequenceNumbers": [ 1 ]
  }
]
```

Notices

Members detailed information that are not used for the Japanese market, are not described in this specification.

If it is required please refer to the Schema.

3.18.3.5 Related transaction sequence number information

Item name

SequenceNumbers

Hierarchy level 6

Overview

Sequence numbers of the relevant transaction line items group to be issued for each object such as transaction information, store information, terminal information, reason information, etc.

Syntax

"SequenceNumbers": []

Data

SequenceNumbers : Array : Sequence No. array

Sample

```
"LineItems": [
  {
    "Return": {
      "ItemIDs": [{ "#value": "49xxxxxxxxxx" }],
      "ExtendedAmount": { "#value": 123 },
      "TransactionLinks": [{
        "ReasonCode": "Return",
        "TransactionIDs": [ "1234567890123" ],
        "BusinessUnits": [{ "#value": "123456781231" }],
        "WorkstationIDs": [{ "#value": "002" }],
        "BusinessDayDates": [{ "Date": "2017-02-27" }],
        "SequenceNumbers": [ 2 ]
      }]
    },
    "SequenceNumbers": [ 1 ]
  }
]
```

Notices

3.19 Discount information

Item name

Discount

Hierarchy level 4

Overview

Item line's subtotal discount amount is stored.

Syntax

"Discount": {}

Data

Attribute

MethodCode	: Text	: Operation type
------------	--------	------------------

Member

SequenceNumber	: Integer	: Discounting sequence number information
Amount	: Object	: Discount amount
Percent	: Object	: Discount rate
PromotionID	: Object	: Discount promotion ID number
DiscountID	: Text	: Discount code number

Attribute (May not be used for the Japanese Market.)

CardAction	: Text	: Card action string
DiscountBenefit	: Text	: Discount benefit type code
DuplicateFlag	: Bool	: Indicate the item is duplicate
EnabledFlag	: Bool	: Indicate the item is enabled
ProratedFlag	: Bool	: Indicate the item is prorated
WorkstationType	: Text	: Workstation use type description

Member (May not be used for the Japanese Market.)

Descriptions	: Array	: Description information
ExpirationDate	: Text	: Expiration date information
ItemIDs	: Array	: Item ID information
ItemLinks	: Array	: Ties this price modifier to one or more items to which it can apply
MerchandiseHierarchy	: Object	: Related line item sequence number information
NewPrice	: Object	: New price after discount
OperatorBypassApprovals	: Array	: Operator bypass approval information
Points	: Object	: Price change by the Points
PreviousPrice	: Object	: Previous price information
Quantity	: Object	: Quantity information
ReasonCodes	: Array	: Array of discount reason string

RetailPriceModifierLinks : Array	: Sales price change information
Rounding : Object	: Item price rounding information

Sample

```
{
  "Discount": {
    "SequenceNumber": 1,
    "Amount": {
      "Action": "Subtract",
      "#value": 500
    },
    "PromotionID": { "#value": "45689" },
    "DiscountID": "34998"
  },
  "SequenceNumbers": [ 1 ]
}
```

Notices

MethodCode: PriceOverRide, PriceRule, Promotion, SeniorCitizen, Markdown, Coupon, QuantityDiscount, Rebate, CashDiscount, TradeDiscount, TradeInKind, PromptPaymentDiscount, GeneralDiscount, GiftVoucher, FlexibleDiscount, RewardProgram, ManufacturerReward, CreditCardReward, TargetedOffer, Points

Attributes and members detailed information that are not used for the Japanese market, are not described in this specification.

If it is required please refer to the Schema.

3.19.1 Discount line sequence number

Item name

SequenceNumber

Hierarchy level 5

Overview

Sequence number of discount line items group to be issued for each object such as transaction information, store information, terminal information, reason information, etc.

Syntax

"SequenceNumber": nnn

Data

Member

SequenceNumber : Integer : Sequence number of discount.

Sample

```
{
  "Discount": {
    "SequenceNumber": 100,
    "Amount": {
      "Action": "Subtract",
      "#value": 500
    },
    "PromotionID": { "#value": "45689" },
    "DiscountID": "34998"
  },
  "SequenceNumbers": [ 1 ]
}
```

Notices

3.19.2 Discount amount information

Item name

Amount

Hierarchy level 5

Overview

Discount amount information of the subtotal discount information of the item line is stored.

Syntax

"Amount": {}

Data

Attribute

Action : Text : Operation type

Value

#value : Number : amount

Attribute (May not be used for the Japanese Market.)

Currency : Text : Currency code string

Denomination : Text : Amount of denomination string

ForeignAmount : Number : Amount of foreign currency

Sample

```
{
  "Discount": {
    "SequenceNumber": 100,
    "Amount": {
      "Action": "Subtract",
      "#value": 500
    },
    "PromotionID": { "#value": "45689" },
    "DiscountID": "34998"
  },
  "SequenceNumbers": [ 1 ]
}
```

Notices

Action: Add, Subtract, Replace, For

Attributes detailed information that are not used for the Japanese market, are not described in this specification.

If it is required please refer to the Schema.

3.19.3 Discount rate information

Item name

Percent

Hierarchy level 5

Overview

Discount rate information of the subtotal discount information of the item line is stored.

Syntax

"Percent": {}

Data

Attribute

Action : Text : Operation type

Value

#value : Number : Discount rate

Sample

```
{
  "Discount": {
    "SequenceNumber": 100,
    "Percent": {
      "Action": "Subtract",
      "#value": 5
    },
    "PromotionID": { "#value": "45689" },
    "DiscountID": "34998"
  },
  "SequenceNumbers": [ 1 ]
}
```

Notices

Action: Add, Subtract

3.19.4 Discount Promotion ID Number

Item name

PromotionID

Hierarchy level 5

Overview

Discount promotion ID number information.

Syntax

"PromotionID": {}

Data

Value

#value : Text : ID number of discount promotion character string

Information report.

Attribute (May not be used for the Japanese Market.)

TypeCode : Text : Promotion ID type code

Sample

```
{
  "Discount": {
    "SequenceNumber": 100,
    "Amount": {
      "Action": "Subtract",
      "#value": 500
    },
    "PromotionID": { "#value": "45689" },
    "DiscountID": "34998"
  },
  "SequenceNumbers": [ 1 ]
}
```

Notices

Attributes detailed information that are not used for the Japanese market, are not described in this specification.

If it is required please refer to the Schema.

3.19.5 Discount code number

Item name

DiscountID

Hierarchy level 5

Overview

ID number of discounts.

Syntax

"DiscountID": "nnn"

Data

DiscountID : Text : Discount ID number string information.

Sample

```
{
  "Discount": {
    "SequenceNumber": 100,
    "Amount": {
      "Action": "Subtract",
      "#value": 500
    },
    "PromotionID": { "#value": "45689" },
    "DiscountID": "34998"
  },
  "SequenceNumbers": [ 1 ]
}
```

Notices

3.20 Point discount information

Item name

LoyaltyRedemption

Hierarchy level 4

Overview

Object that stores item line price discount point information, a Member ID, the number of points to be given, and the like.

Syntax

```
"LoyaltyRedemption": {}
```

Data

Member

PointsRedeemed : Array : Point exchange information array

Attribute (May not be used for the Japanese Market.)

Reason : Text : Loyalty redemption reason

TypeCode : Text : Loyalty redemption type

Member (May not be used for the Japanese Market.)

AdjudicationCode : Text : Adjudication code information

Amount : Object : Loyalty redemption amount information

LoyaltyProgram :Object : Loyalty program information

ManualActionIDs : Array : Manual action ID information

Percent : Number : Loyalty redemption rate information

TransactionLink : Object : Relevant transaction information

Vouchers : Array : Vouchers information

Sample

```
"LineItems": [  
  {  
    "LoyaltyRedemption": {  
      "PointsRedeemed": [{  
        "Type": "Redeemed",  
        "#value": 100  
      }],  
    }  
  },  
]
```

```

    "LoyaltyProgram": {
      "TypeCode": "Points",
      "LoyaltyProgramID": {
        "Name": "A point card",
        "#value": "1"
      },
      "LoyaltyAccountID": { "#value": "1234567890123" },
    },
    "Amount": { "#value": 100 },
  },
  "SequenceNumbers": [ 1 ]
}
]

```

Notices

Attributes and members detailed information that are not used for the Japanese market, are not described in this specification.

If it is required please refer to the Schema.

3.20.1 Point information

Item name

PointsRedeemed

Hierarchy level 5

Overview

It is an array that stores point exchange information in the point price discrimination information of the item line and stores the type and the number of points to be exchanged.

Syntax

```
"PointsRedeemed": []
```

Data

Attribute

Type	: Text	: Type
------	--------	--------

Value

#value	: Number	: Number of points
--------	----------	--------------------

Sample

```
"LineItems": [
  {
    "LoyaltyRedemption": {
      "PointsRedeemed": [{
        "Type": "Redeemed",
        "#value": 100
      }],
      "LoyaltyProgram": {
        },
      "Amount": { "#value": 100 }
    },
    "SequenceNumbers": [ 1 ]
  }
]
```

Notices

Type: Credited, Debited, Balance, Assigned, PointsEarned,
PointsExpiring, PreviousPoints, Redeemed, TotalRedeemed, Reversal,
PointsAdjustment

3.21 Point award information

Item name

LoyaltyReward

Hierarchy level 4

Overview

It is an object that stores awarded points in the item lines, and it stores the loyalty program member ID and its awarded points and the like.

Syntax

```
"LoyaltyReward": {}
```

Data

Member

LoyaltyProgramIDs	: Array	: Loyalty program information array
LoyaltyAccountID	: Object	: Member ID number of loyalty program
PointsAwarded	: Array	: Information array on points to be given

Attribute (May not be used for the Japanese Market.)

TypeCode	: Text	: Loyalty reward type code
----------	--------	----------------------------

Member (May not be used for the Japanese Market.)

AdjustmentID	: Text	: Adjustment ID information
Discounts	: Array	: Discount information
EventID	: Text	: Event ID information
GiftCertificates	: Array	: Gift certificate information
LoyaltyID	: Object	: Loyalty ID information
PromotionID	: Text	: Promotion ID information
PromotionMessages	: Text	: Promotion message information that is printed on the customer's receipt
ReasonCode	: Object	: Reason Code information
Vouchers	: Array	: Vouchers information

Sample

```
"LineItems": [
  {
    "LoyaltyReward": {
      "LoyaltyProgramIDs": [{
        "Name": "A point card",
        "#value": "1"
      }],
      "LoyaltyAccountID": { "#value": "1234567890123" },
      "PointsAwarded": [
        {
          "Type": "PreviousPoints",
          "#value": 4577
        },
        {
          "Type": "PointsEarned",
          "#value": 514
        },
        {
          "Type": "Balance",
          "#value": 5091
        }
      ]
    },
    "SequenceNumbers": [ 1 ]
  }
]
```

Notices

Attributes and members detailed information that are not used for the Japanese market, are not described in this specification.

If it is required please refer to the Schema.

3.21.1 ID number information of loyalty program

Item name

LoyaltyProgramIDs

Hierarchy level 5

Overview

It is an array for storing loyalty program ID number information in the item lines of rewarded loyalty program points. And it stores a name, an ID, and the like.

Syntax

```
"LoyaltyProgramIDs": []
```

Data

Attribute

Name : Text : Name of the loyalty program

Value

#value : Text : ID number of the loyalty program

Attribute (May not be used for the Japanese Market.)

Description : Text : Description string

Sample

```
"LoyaltyReward": {
  "LoyaltyProgramIDs": [{
    "Name": "A point card",
    "#value": "1"
  }],
  "LoyaltyAccountID": { "#value": "1234567890123" },
  "PointsAwarded": [
    :
  ]
},
```

Notices

Name: "zzzzz"

Attributes detailed information that are not used for the Japanese market, are not described in this specification.

If it is required please refer to the Schema.

3.21.2 Awarded points information

Item name

PointsAwarded

Hierarchy level 5

Overview

It is an array that stores awarded points information in the point assignment information of the item line and stores the point value type and the point value.

Syntax

```
"PointsAwarded": []
```

Data

Attribute

Type	: Text	: Point type
------	--------	--------------

Value

#value	: Number	: Point value
--------	----------	---------------

Sample

```
"LoyaltyReward": {
  "LoyaltyProgramIDs": [{
    "Name": "A point card",
    "#value": "1"
  }],
  "LoyaltyAccountID": { "#value": "1234567890123" },
  "PointsAwarded": [
    {
      "Type": "PreviousPoints",
      "#value": 4577
    },
    {
      "Type": "PointsEarned",
      "#value": 514
    },
    {
      "Type": "Balance",
      "#value": 5091
    }
  ]
},
```

Notices

Type: Credited, Debited, Balance, Assigned, PointsEarned, PointsExpiring, PreviousPoints, Redeemed, TotalRedeemed, Reversal, PointsAdjustment

3.22 Payment Information

Item name

Tender

Hierarchy level 4

Overview

It is an object that has payment information on the item line, and it stores the amount of payment, the type of payment, detailed information on the type of payment the like.

Syntax

"Tender": {}

Data

Attribute

TenderType : Text : Payment type

Member

Amount : Object : Payment amount information
TenderChanges : Array : Tender Change information
CreditDebits : Array : CreditDebit payment information
Coupons : Array : Coupon payment information
Vouchers : Array : Vouchers information
GiftCards : Array : GiftCard information
LoyaltyRedemptions : Array : Loyalty Points redemption information

Attribute (May not be used for the Japanese Market.)

SubTenderType : Text : Sub Tender Type information
TypeCode : Text : Tender Type Code Information

Member (May not be used for the Japanese Market.)

AmountApplidToBill : Object : Amount applied to Bill information
Authorizations : Array : Authorization information
Cashback : Object : Cashback information

Checks	: Array	: Check for the tender information
CustomerVerification	: Object	: Customer verification information
FoodStamps	: Array	: Food stamps information
ForeignCurrency	: Object	: Foreign currency information
Mobiles	: Array	: Mobile related information for the Tender
PurchaseOrders	: Array	: Purchase Order related information for the Tender
ReasonCode	: Object	: Tender Reason Codes information
Rounding	: Object	: Tender related Rounding information
StoreAccounts	: Array	: Store account information
StoredValueInstruments	: Array	: Prepaid card related Information
Tip	: Object	: Tip related information
TravelersChecks	: Array	: Travelers Check related information

Sample

```

"LineItems": [
  {
    "Sale": {
      "ItemIDs": [{ "#value": "1010" }]
    },
    "SequenceNumbers": [ 1 ]
  },
  {
    "Tender": {
      "TenderType": "Cash",
      "Amount": {
        "Currency": "JPY",
        "#value": 5000
      },
      "TenderChanges": [{
        "TenderType": "Cash",
        "Amount": { "#value": 1000 }
      }]
    },
    "SequenceNumbers": [ 2 ]
  }
]
{
  {
    "Tender": {
      "TenderType": "CreditDebit",
      "Amount": { "#value": 4000 },
      "CreditDebits": [{
        "TypeCode": "Amex",
        "CardType": "Credit",
        "PrimaryAccountNumber": { "#value": "8990567788" }
      }]
    },
    "SequenceNumbers": [ 3 ]
  }
}

```

```

{
  "Tender": {
    "TenderType": "Points",
    "LoyaltyRedemptions": [{
      "TypeCode": "Redemption",
      "PointsRedeemed": [{ "#value": 3000 }]
    }]
  },
  "SequenceNumbers": [ 4 ]
},
]

```

Notices

TenderType: AccountReceivable, AirmilesConversion, CpitalBond, Cash, Check, CheckCard, CoPay, Coupon, CustomerAccount, EBTCash, EBTFoodStamps, ElectricToolCollection, FoodStamps, GiftCard, GiftCertificate, HouseAccount, InternationalMaestro, InternationalMoneyOrder, Loyalty, ManufacturerCoupon, Mobile, PostalOrder, PurchaseOrder, RFID StaffDressAllowance, StoreAccount, Storedvalue, UKMaestro, Vouccher, WICKCheck, WICCVV, WriteOff

Attributes and members detailed information that are not used for the Japanese market, are not described in this specification.

If it is required please refer to the Schema.

3.22.1 Payment amount

Item name

Amount

Hierarchy level 5

Overview

It is an object that stores the amount of payment information and stores currency in addition to monetary amount.

Syntax

```
"Amount": {}
```

Data

Attribute

Currency	: Text	: Currency code string
----------	--------	------------------------

Value

#value	: Number	: Payment amount
--------	----------	------------------

Attribute (May not be used for the Japanese Market.)

Denomination	: Text	: Denomination string
ForeignAmount	: Number	: Amount of foreign currency

Sample

```
"LineItems": [  
  {  
    "Sale": {  
      "ItemIDs": [{ "#value": "1010" }]  
    },  
    "SequenceNumbers": [ 1 ]  
  },  
  {  
    "Tender": {
```

```

        "TenderType": "Cash",
        "Amount": {
            "Currency": "JPY",
            "#value": 5000
        },
        "TenderChanges": [{
            "TenderType": "Cash",
            "Amount": { "#value": 1000 }
        }]
    },
    "SequenceNumbers": [ 2 ]
}
]

```

Notices

Currency: CNY, EUR, JPY, KRW, USD,... (ISO-4217)

Attributes detailed information that are not used for the Japanese market, are not described in this specification.

If it is required please refer to the Schema.

3.22.2 Change information

Item name

TenderChanges

Hierarchy level 5

Overview

It is a member of the payment information on the item line and is an array for storing change information, and stores payment type, amount of money, and so on.

Syntax

```
"TenderChanges": []
```

Data

Attribute

TenderType	: Text	: Payment type
------------	--------	----------------

Member

Amount	: Object	: Amount of change
--------	----------	--------------------

Member (May not be used for the Japanese Market.)

ForeignCurrency	: Object	: Foreign currency exchange related information
GiftCard	: Object	: Gift Card Information for the Tender
TenderID	: Text	: ID information of Tender

Sample

```
{
  "Tender": {
    "TenderType": "Cash",
    "Amount": {
      "Currency": "JPY",
      "#value": 5000
    }
  }
}
```

```

    },
    "TenderChanges": [ {
        "TenderType": "Cash",
        "Amount": { "#value": 1000 }
    } ]
  },
  "SequenceNumbers": [ 2 ]
}

```

Notices

TenderType: AccountsReceivable, AirlineConversion, CapitalBond, Cash, Check, CheckCard, Copay, Coupon, CreditDebit, CustomerAccout, EBTCash, EBTFoodStamp, ElectricToolCollection, Foodstamps, GiftCard, GiftCertificate, HouseAccount, InternationalMaestro, InternationalMoneyOrder, Loyalty, ManufacturerCoupon, Mobile, MoneyOrder, OnlinePayment, PostalOrder, PurchaseOrder, RIFD StaffDressAllowance, StoreAccount, StoredValue, TravelersCheck, UKMaestro, Voucher, WICCheck, WICCVV, WriteOff

Members detailed information that are not used for the Japanese market, are not described in this specification.

If it is required please refer to the Schema.

3.22.2.1 Changing amount

Item name

Amount

Hierarchy level 6

Overview

It is an object that stores the amount of change, and stores the currency in addition to the monetary amount.

Syntax

```
"Amount": {}
```

Data

Attribute

Currency	: Text	: Currency code string
----------	--------	------------------------

Value

#value	: Number	: Payment amount
--------	----------	------------------

Attribute (May not be used for the Japanese Market.)

Denomination	: Text	: Denomination string
ForeignAmount	: Number	: Amount of foreign currency

Sample

```
"LineItems": [  
  {  
    "Sale": {  
      "ItemIDs": [{ "#value": "1010" }]  
    },  
    "SequenceNumbers": [ 1 ]  
  },  
]
```

```

{
  "Tender": {
    "TenderType": "Cash",
    "Amount": {
      "Currency": "JPY",
      "#value": 5000
    },
    "TenderChanges": [{
      "TenderType": "Cash",
      "Amount": { "#value": 1000 }
    }]
  },
  "SequenceNumbers": [ 2 ]
}
]

```

Notices

Currency: CNY, EUR, JPY, KRW, USD, ... (ISO-4217)

Attributes detailed information that are not used for the Japanese market, are not described in this specification.

If it is required please refer to the Schema.

3.22.3 Credit/Debit

Item name

CreditDebits

Hierarchy 5th level

Overview

It is a member of the payment information of the item line, an array that stores credit payment or debit payment information, and stores CreditDebit type, Card type, and Card number.

Syntax

"CreditDebits": []

Datas

Attribute

CardType	: Text	: CreditDebit type
TypeCode	: Text	: Card type

Member

PrimaryAccountNumber	: Object	: Primary Account number
----------------------	----------	--------------------------

Attribute (May not be used for the Japanese Market.)

ContactlessPaymentFlag	: Bool	: Contactless payment indication flag
------------------------	--------	---------------------------------------

Member (May not be used for the Japanese Market.)

BillingZipCode	: Text	: Authorization by Zip Code
CardHolderName	: Text	: Card Holder Name information
CreditCardCompanyCode	: Text	: Card Company Code information
ExpirationDate	: Text	: Card Expiration Date information
IssueSequence	: Integer	: Card Issue Sequence Number

IssuerIdentificationNumber	: Integer	: Card Issuer ID Number
MaskedData	: Text	: Card Number masking function Data
ReconciliationCode	: Integer	: Card Reconciliation Code Number
SecurityCode	: Text	: Card Security Code Number
ServiceCode	: Text	: Card Service Code
StartDate	: Text	: Card use starting date
Track1Data	: Object	: Card Track 1 information
Track2Data	: Object	: Card Track 2 information
Track3Data	: Object	: Card Track 3 information
Track4Data	: Object	: Card Track 4 information
UnEncryptedPAN	: Text	: Unencrypted Card Primary Account Number

Sample

```

"LineItems": [
  {
    "Sale": {
      "ItemIDs": [ { "#value": "1010" } ]
    },
    "SequenceNumbers": [ 1 ]
  },
  {
    "Tender": {
      "TenderType": "CreditDebit",
      "Amount": {
        "Currency": "JPY",
        "#value": 5000
      },
      "CreditDebits": [ {
        "TypeCode": "Visa",
        "CardType": "Credit",
        "PrimaryAccountNumber": { "#value": "1234" }
      } ]
    },
    "SequenceNumbers": [ 2 ]
  }
]

```

Notices

CardType: Credit, Debit, Loyalty, EBTFoodStamps, EBTCash, Fleet

TypeCode: Amex, DinersClub, DiscoverCard, GoogleWallet, MasterCard, PayPal, Visa

Attributes and members detailed information that are not used for the Japanese market, are not described in this specification.

If it is required please refer to the Schema.

3.22.3.1 Card number

Item name

PrimaryAccountNumber

Hierarchy level 6

Overview

Card number

Syntax

"PrimaryAccountNumber": {}

Data

Value

#value : Text : Card number information character string.

Attribute (May not be used for the Japanese Market.)

Cryptogram : Text : Encryption Information of Primary Account Number

Sample

```
{
  "Tender": {
    "TenderType": "CreditDebit",
    "Amount": { "#value": 4000 },
    "CreditDebit": [{
      "TypeCode": "Amex",
      "CardType": "Credit",
      "PrimaryAccountNumber": { "#value": "8990567788" }
    }]
  },
  "SequenceNumbers": [ 10 ]
}
```

},

Notices

Attributes detailed information that are not used for the Japanese market, are not described in this specification.

If it is required please refer to the Schema.

3.22.4 Coupon

Item name

Coupons

Hierarchy 5th level

Overview

A Member of the payment information of the item line, which is an array for storing coupon payment information, and stores the coupon name, promotion code, reward value, quantity.

Syntax

"Coupons": []

Data

Member

Name	: Text	: Coupon name
Quantity	: Object	: Number of Coupons
PromotionCode	: Text	: Coupon promotion code
RewardValue	: Number	: Coupon Amount

Attribute (May not be used for the Japanese Market.)

CouponType	: Text	: Type of Coupon information
UnusedFlag	: Bool	: Coupon use availability indication flag

Member (May not be used for the Japanese Market.)

Descriptions	: Array	: Description information
DispositionCode	: Text	: Coupon disposition method code information

ExpirationDate	: Text	: Coupon Expiration date information
FamilyCode	: Text	: Coupon family code information
ManufacturerID	: Text	: Coupon Issued Manufacturer ID number information
PrimaryLabel	: Text	: Coupon Primary Label information
ScanCode	: Text	: Coupon Scanning Code information
SecondaryLabel	: Text	: Coupon Secondary Label information

Sample

```
{
  "Tender": {
    "TenderType": "Coupon",
    "Amount": {
      "Currency": "JPY",
      "#value": 500
    },
    "Coupons": [{
      "Name": "Membership benefit coupon",
      "Quantity": { "#value": 1 },
      "PromotionCode": "001-01",
      "RewardValue": 500
    }]
  },
  "SequenceNumbers": [ 2 ]
}
```

Notices

Attributes and members detailed information that are not used for the Japanese market, are not described in this specification.

If it is required please refer to the Schema.

3.22.5 Cash voucher

Item name

Vouchers

Hierarchy 5th level

Overview

It is a Member of the payment information of the item line and is an array for storing information on payment of cash vouchers, and stores the money type, the amount of the face value, and the unused amount.

Syntax

"Vouchers": []

Data

Attribute

TypeCode : Text : Cash voucher type

Member

FaceValueAmount : Object : Voucher face value amount information

UnspentAmount : Object : unused amount information

Member (May not be used for the Japanese Market.)

AccountNumber	: Text	: Voucher account Number information
Descriptions	: Array	: Description of the Voucher information
ExpirationDate	: Text	: Voucher Expiration Date information
IssuingStoreNumberID	: Object	: Voucher Issuing Store ID Number information
SerialNumber	: Text	: Voucher serial Number information

VoucherAmountInChange : Object : Change information when using voucher

Sample

```
{
  "Tender": {
    "TenderType": "Voucher",
    "Amount": {
      "Currency": "JPY",
      "#value": 5000
    },
  },
  "Vouchers": [{
    "TypeCode": "AdvancePayment",
    "FaceValueAmount": { "#value": 10000 },
    "UnspentAmount": { "#value": 5000 }
  }]
},
"SequenceNumbers": [ 2 ]
}
```

Notices

TypeCode: AccountReceivable, AdvancePayment, CarWashToken, GiftCard, GiftCertificate, LotteryDraw, LotteryInstant, LuncheonVoucher, MoneyOffVoucher, PhoneCard, RecognitionRewardVoucher, StoredValue, Voucher

Members detailed information that are not used for the Japanese market, are not described in this specification.

If it is required please refer to the Schema.

3.22.6 Gift Card

Item name

GiftCards

Hierarchy 5th level

Overview

A Member of the payment information of the item line, which is an array for storing gift card payment information, and stores the card number, card expiration date, pre-operation balance, post operation balance.

Syntax

"GiftCards": []

Data

Member

CardNumber	: Text	: Card number string
ExpirationDate	: Text	: Expiration date string
InitialBalance	: Object	: Before operation balance information
CurrentBalance	: Object	: Current balance information

Member (May not be used for the Japanese Market.)

Authorization	: Object	: Gift Card Authorization related information
DateActivated	: Text	: Gift Card activation related information
DateSold	: Text	: Gift Card Sold date information

OpenAmountFlag : Bool : Gift Card open amount indication flag

Sample

```
{
  "Tender": {
    "TenderType": "GiftCard",
    "Amount": {
      "Currency": "JPY",
      "#value": 5000
    },
    "GiftCards": [{
      "CardNumber": "1234",
      "ExpirationDate": "2020-08-10",
      "InitialBalance": { "#value": 10000 },
      "CurrentBalance": { "#value": 5000 }
    }]
  },
  "SequenceNumbers": [ 2 ]
}
```

Notices

Members detailed information that are not used for the Japanese market, are not described in this specification.

If it is required please refer to the Schema.

3.22.7 Point Card

Item name

LoyaltyRedemptions

Hierarchy 5th level

Overview

It is a member of the payment information on the item line and is an array for storing the point exchange money information and stores the point number information etc. to be converted into cash. When associating with Member number, loyalty program information is included in the sixth Hierarchy.

For the Syntax of loyalty program information, see "3.29.2 Loyalty program information".

Syntax

"LoyaltyRedemptions": []

Data

Attribute

TypeCode : Text : Type

Member

PointsRedeemed : Array : Array of number of points to convert to cash

LoyaltyProgram : Object : Loyalty redemption related program
information

Attribute (May not be used for the Japanese Market.)

Reason : Text : Reason of Loyalty Points redemption information

Member (May not be used for the Japanese Market.)

AdjudicationCode : Text : Loyalty redemption adjustment code information

Amount : Object : Loyalty redemption amount information

ManualActionIDs : Array : Loyalty points redemption manual action ID information

Percent : Object : Loyalty points redemption percentage information

TransactionLink : Object : Loyalty points redemption linked Transaction Information

Vouchers : Array : Loyalty program related voucher associated with Loyalty points redemption information

Sample

```
"LineItems": [
  {
    "Sale": {
    },
    "SequenceNumbers": [ 1 ]
  },
  {
    "Tender": {
      "TenderType": "Loyalty",
      "LoyaltyRedemptions": [ {
        "TypeCode": "Redemption",
        "PointsRedeemed": [ { "#value": 500 } ]
      } ],
    },
    "SequenceNumbers": [ 2 ]
  }
],
```

Sample with added loyalty program information

```
"LineItems": [
  {
    "Sale": {
    },
    "SequenceNumbers": [ 1 ]
  },
  {
    "Tender": {
      "TenderType": "Loyalty",
      "LoyaltyRedemptions": [ {
```

```

        "TypeCode": "Redemption",
        "PointsRedeemed": [ { "#value": 500 } ],
        "LoyaltyProgram": {
            "TypeCode": "Points",
            "LoyaltyProgramID": {
                "Name": "A point card",
                "#value": "1"
            },
            "LoyaltyAccountID": { "#value": "1234567890123" }
        },
        "Amount": { "#value": 100 }
    },
    },
    },
    "SequenceNumbers": [ 2 ]
}
],

```

Notices

Members detailed information that are not used for the Japanese market, are not described in this specification.

If it is required please refer to the Schema.

3.22.7.1 Points redemption number as cash

Item name

PointsRedeemed

Hierarchy level 6

Overview

As the payment information of item line member, the points information to be redeemed as cash is stored.

Syntax

"PointsRedeemed": []

Data

Member

PointsRedeemed : Array : Array of points to be redeemed as cash.

Sample

```

"LineItems": [
    {
        "Sale": {
        },
        "SequenceNumbers": [ 1 ]
    },
    {
        "Tender": {

```

```

        "TenderType": "Loyalty",
        "LoyaltyRedemptions": [ {
            "TypeCode": "Redemption",
            "PointsRedeemed": [ { "#value": 500 } ]
        } ],
        "SequenceNumbers": [ 2 ]
    }
],

```

Notices

3.22.7.2 Loyalty program information

Item name

LoyaltyProgram

Hierarchy level 6

Overview

It is a member of the payment information of the item line, and it is an object that stores loyalty program information associated with point redemption information.

Syntax

```
"LoyaltyProgram": {}
```

Data

Attribute

TypeCode	: Text	: Type
----------	--------	--------

Member

LoyaltyProgramID	: Object	: Loyalty program ID information
LoyaltyAccountID	: Object	: Loyalty program Account ID information
Amount	: Text	: Point amount information

Member (May not be used for the Japanese Market.)

Adjustment	: Object	: Loyalty program adjustment information
CumulativeNetSalesAmount	: Object	: Aggregated net sales amount information associated with loyalty program
CurrentCount	: Number	: Current counted loyalty program information
Customer	: Object	: Loyalty program related customer information
LoyaltyCards	: Array	: Loyalty Card information
OfferID	: Text	: Loyalty program related offer information
QualifyingItemIDs	: Array	: Loyalty program qualified Items ID
TargetCount	: Number	: Targeted Loyalty program counts

Sample

```
{
  "Tender": {
    "TenderType": "Loyalty",
    "LoyaltyRedemptions": [ {
      "TypeCode": "Redemption",
      "PointsRedeemed": [ { "#value": 500 } ],
      "LoyaltyProgram": {
        "TypeCode": "Points",
        "LoyaltyProgramID": {
          "Name": "A point card",
          "#value": "1"
        },
      },
      "LoyaltyAccountID": { "#value": "1234567890123" },
      "Amount": { "#value": 100 }
    } ],
  },
  "SequenceNumbers": [ 2 ]
}
```

Notices

TypeCode: Points, eReward, Discount, GiftCertificate, Voucher, Miles, LoyaltyCard

Members detailed information that are not used for the Japanese market, are not described in this specification.

If it is required please refer to the Schema.

3.22.7.3 Loyalty program ID

Item name

LoyaltyProgramID

Hierarchy level 7

Overview

It is a member of the payment information of the item line, and it is an object that stores the loyalty program ID associated with the point redemption information.

Syntax

```
"LoyaltyProgramID": {}
```

Data

Value

#value	: Text	: Loyalty program ID number
--------	--------	-----------------------------

Attribute (May not be used for the Japanese Market.)

Description	: Text	: Loyalty program related descriptions information
Name	: Text	: Loyalty program Name information

Sample

```
"LineItems": [
  {
    "Sale": {
    },
    "SequenceNumbers": [ 1 ]
  },
  {
    "Tender": {
      "TenderType": "Loyalty",
      "LoyaltyRedemptions": [ {
        "TypeCode": "Redemption",
        "PointsRedeemed": [ { "#value": 500 } ],
        "LoyaltyProgram": {
          "TypeCode": "Points",
          "LoyaltyProgramID": {
            "Name": "A point card",
            "#value": "1"
          }
        },
        "LoyaltyAccountID": { "#value": "1234567890123" },
        "Amount": { "#value": 100 }
      } ],
    },
    "SequenceNumbers": [ 2 ]
  }
],
```

Notices

Attributes detailed information that are not used for the Japanese market, are not described in this specification.

If it is required please refer to the Schema.

3.22.7.4 Loyalty program Member ID number information

Item name

LoyaltyAccountID

Hierarchy level 7

Overview

It is a member of the payment information of the item line, and it is an object that stores loyalty program member ID number information associated with point redemption information.

Syntax

```
"LoyaltyAccountID": {}
```

Data

Value

#value : Text : Loyalty Account Member ID number

Attribute (May not be used for the Japanese Market.)

Description	: Text	: Loyalty Account ID related description information
IdentificationSupportType	: Text	: Loyalty Account ID support type information
IdentificationType	: Text	: Loyalty Account ID type information
Level	: Text	: Loyalty Account ID Level information
Name	: Text	: Loyalty Account ID Name information

Sample

```
"LineItems": [
  {
    "Sale": {
    },
    "SequenceNumbers": [ 1 ]
  },
  {
    "Tender": {
      "TenderType": "Loyalty",
      "LoyaltyRedemptions": [{
        "TypeCode": "Redemption",
        "PointsRedeemed": [{ "#value": 500 }],
        "LoyaltyProgram": {
          "TypeCode": "Points",
          "LoyaltyProgramID": {
            "Name": "A point card",
            "#value": "1"
          },
        },
        "LoyaltyAccountID": { "#value": "1234567890123" },
        "Amount": { "#value": 100 }
      }],
    },
    "SequenceNumbers": [ 2 ]
  }
],
```

Notices

IdentificationSupportType: NoCard, LoyaltyCard, HybridCard, LinkedCard

IdentificationType: PAN, ISOTrack2, BarCode, AccountNumber, PhoneNumber

Attributes detailed information that are not used for the Japanese market, are not described in this specification.

If it is required please refer to the Schema.

3.22.7.5 Cash Amount

Item name

Amount

Hierarchy level 7

Overview

An object that stores the cash redemption amount from the loyalty program points.

Syntax

```
"Amount": {}
```

Data

Value

#value : Number : Cash redemption amount from the loyal program points

Attribute (May not be used for the Japanese Market.)

Currency : Text : Currency code string for the amount
Denomination : Text : Amount of denomination string
ForeignAmount : Number : Amount of the foreign currency

Sample

```
"LineItems": [
  {
    "Sale": {
    },
    "SequenceNumbers": [ 1 ]
  },
  {
    "Tender": {
      "TenderType": "Loyalty",
      "LoyaltyRedemptions": [{
        "TypeCode": "Redemption",
        "PointsRedeemed": [{ "#value": 500 }],
        "LoyaltyProgram": {
          "TypeCode": "Points",
          "LoyaltyProgramID": {
            "Name": "A point card",
            "#value": "1"
          },
        },
        "LoyaltyAccountID": { "#value": "1234567890123" },
        "Amount": { "#value": 100 }
      }],
    },
    "SequenceNumbers": [ 2 ]
  }
],
```

Notices

Attributes detailed information that are not used for the Japanese market, are not described in this specification.

If it is required please refer to the Schema.

3.23 Coupon information

Item name

Coupon

Hierarchy level 4

Overview

This is a member of the coupon information on the item line, which stores information when issuing and using coupons, stores information related to coupon usage, issuance, and the like.

Syntax

"Coupon": {}

Data

Attribute

Use	: Text	: Issuance, usage type string
CouponType	: Text	: Coupon type string

Member

Descriptions	: Array	: Coupon description information
Quantity	: Object	: Number of coupons information
FamilyCode	: Text	: Coupon family code information
ExpirationDate	: Text	: Coupon expiration date information
PromotionCode	: Text	: Coupon promotion code information
ScanCode	: Text	: Coupon barcode information
BusinessUnit	: Object	: Business unit information
WorkstationID	: Object	: Workstation ID information
CouponID	: Object	: Coupon ID information
IssuingDate	: Text	: Coupon issue date information
TermsOfUses	: Array	: Terms of Use information
ItemIDs	: Array	: Item ID information
Images	: Array	: Image data information
ImageNumbers	: Array	: Image data number information
ImageURIs	: Array	: Image data URI information
Discounts	: Array	: Coupon discount information
CertificationIDs	: Array	: Coupon certification ID information
Points	: Array	: Coupon points information
Amounts	: Array	: Coupon amount information
Percent	: Array	: Coupon discount rate information

Attribute (May not be used for the Japanese Market.)

UnusedFlag	: Bool	: Unused coupon indication flag
------------	--------	---------------------------------

Member (May not be used for the Japanese Market.)

DispositionCode	: Text	: Coupon dispositioning code information
ManufacturerID	: Text	: Coupon issuer manufacturer ID information
Name	: Text	: Coupon Name information

PrimaryLabel	: Text	: Coupon primary Label information
RewardValue	: Number	: Coupon reward value information
SecondaryLabel	: Text	: Coupon Secondary Label information

Sample

```

    "Coupon": {
      "Use": "Issue",
      "CouponType": "StoreCoupon",
      "Descriptions": [
        { "#value": "Green tea Shiojiri no Shizuku "200 ml" },
        { "#value": "10% discount" },
        { "#value": "At convenience store Nakamura" }
      ],
      "Quantity": { "#value": 1 },
      "FamilyCode": "78888",
      "ExpirationDate": "2019-08-01",
      "PromotionCode": "9999",
      "ScanCode": "789956",
      "BusinessUnit": {
        "Name": "Convenience Store Nakamura",
        "TypeCode": "RetailStore",
        "#value": "WWWXXXX"
      },
      "WorkstationID": { "#value": "675544" },
      "CouponID": { "#value": "55577" },
      "IssuingDate": "2017-09-11",
      "TermsOfUses": ["Promotion"],
      "ItemIDs": [{ "#value": "888999" }],
      "Images": [{
        "TypeCode": "JPG",
        "base64Binary": "dkaoeie4"
      }],
      "ImageNumbers": [9998],
      "ImageURIs": [{ "#value": "http://xxxx/" }],
      "Discounts": [50],
      "CertificationIDs": ["888"],
      "Points": [{ "#value": 88 }],
      "Amounts": [{ "#value": 800 }],
      "Percent": 10
    }
  }

```

Notices

Use: Issue, Redeem

CouponType: ManufacturersCoupon, ElectricCoupon, StoreCoupon

Attributes and members detailed information that are not used for the Japanese market, are not described in this specification.

If it is required please refer to the Schema.

3.23.1 Coupon issuance store information

Item name

BusinessUnit

Hierarchy level 5

Overview

A Member of the outline coupon information, which is an object for storing coupon issuance Store information, stores Store name, Store type information, and the like.

Syntax

```
"BusinessUnit": {}
```

Data

Attribute

Name : Text : Store name string

TypeCode : Text : Store type code string

Value

#value : Text : Store ID number

Sample

```
"BusinessUnit": {  
  "Name": "Convenience Store Nakamura",  
  "TypeCode": "RetailStore",  
  "#value": "WWWWXXXX"  
}
```

Notices

Name: "xxxx"

TypeCode: RetailStore, DistributionCenter, AdministrationCenter, CallCenter, WebSite,
Distributor, Filler, TransitCellar, Producer, Grower, Factory, Building, Dormitory

3.23.2 Coupon Image information

Item name

Images

Hierarchy level 5

Overview

A Member of the outline coupon information, which is an array for storing coupon image information, stores information related to coupon usage, issuance, and the like.

Syntax

```
"Images": []
```

Data

Attribute

TypeCode	: Text	: Image data type code string
----------	--------	-------------------------------

Value

base64Binary	: Text	: Image data (Base64Binary) string
--------------	--------	------------------------------------

Sample

```
"Images": [{  
  "TypeCode": "JPG",  
  "base64Binary": "dkaoeie4"  
}]
```

Notices

Image data type

TypeCode: HTML, JPG, PDF, BMP, TIF, GIF

3.24 Prepaid card sales information

Item name

StoredValueFundSale

Hierarchy level 4

Overview

It is a member of prepaid card sales information on the item line, stores information for use, stores prepaid card information, information related to sales, and the like.

Syntax

```
"StoredValueFundSale": {}
```

Data

Attribute

Action	: Text	: Prepaid card operation string
--------	--------	---------------------------------

Member

ItemIDs	: Array	: Prepaid card item ID information
ExtendedAmount	: Object	: Prepaid card sales extended amount information

Attribute (May not be used for the Japanese Market.)

EquivalentItemFlag	: Bool	: Equivalent Item indication flag
FixedPriceFlag	: Bool	: Price fixing indication flag
FoodstampableFlag	: Bool	: Food stamp usable indication flag
ItemRestrictionsApplyFlag	: Bool	: Item Restriction applied flag
ItemSubType	: Text	: Item Sub Type information
ItemType	: Text	: Item Type information
NonDiscountableFlag	: Bool	: Non Discount indication flag
NotNormallyStockedFlag	: Bool	: Not Normally stocked indication flag
ReserveFlag	: Bool	: Reservable indication flag
ReturnableFlag	: Bool	: Returnable indication flag
TaxableFlag	: Bool	: Taxable indication flag
TypeCode	: Text	: Type code information

Member (May not be used for the Japanese Market.)

Account	: Object	: Prepaid card account information
ActualSalesUnitPrice	: Object	: Actual sales Unit price information
Associates	: Array	: Store Associate information

Authorization	: Object	: Prepaid card authorization information
Children	: Array	: Child information of parent child type information for the prepaid card sale
Combos	: Array	: Prepaid card sale for Combos information
CountryOfOrigins	: Array	: Prepaid card sale country of origins related information
Descriptions	: Array	: Prepaid card sale related descriptions information
DiscountAmount	: Object	: Prepaid card sale discount amount information
Divisions	: Array	: Prepaid card divided sale information
ExtendedDiscountAmount	: Object	: Prepaid card extended discount amount sales information
Foodservice	: Object	: Prepaid card sales for foodservice information
GiftReceiptDateTimes	: Array	: Prepaid card sales Gift Receipt Date time information
GiftReceiptQuantity	: Object	: Prepaid card sales gift receipt quantity information
Instruments	: Array	: Prepaid card sales instrument information
Items	: Array	: Prepaid card sales Items information
ItemLinks	: Array	: Prepaid card sales related line Item sequence number information
Kit	: Object	: Prepaid card sales identification information of the components to the kit
LotNumbers	: Array	: Prepaid card sales related Lot Numbers information
LoyaltyAccount	: Object	: Prepaid card sales related loyalty account information
MerchandiseHierarchies	: Array	: Prepaid card sales product classification information
Modifications	: Array	: Prepaid card sales related modification information
POSIentities	: Array	: Prepaid card sales related POS ID information
Parents	: Array	: Parent information of Parent Child type information for the prepaid card sale parent information

Quantities	: Array	: Prepaid card sale quantity information
ReceiptLines	: Array	: Prepaid card sale receipt line information
RegistryID	: Text	: Prepaid card sales registration ID information
RegularSalesUnitPrice	: Object	: Prepaid card sales regular sales unit price information
RetailPriceModifiers	: Array	: Prepaid card sales Retail Price modification information
ReturnPolicy	: Object	: Prepaid card sales related return policy information
Rounding	: Object	: Prepaid card sales price rounding information
SerialNumbers	: Array	: Prepaid card sales ticket related serial number information
SpecialOrderNumbers	: Array	: Prepaid card sales special order number information
SuggestedPrice	: Object	: Prepaid card sales suggested price information
Taxes	: Array	: Prepaid card sales tax information
Tickets	: Array	: Prepaid card sales ticket related information
TransactionLinks	: Array	: Link to the previous retail transaction information for the prepaid card sales retail transaction information
UnitCostPrice	: Object	: Prepaid card sales unit cost price information
UnitListPrice	: Object	: Prepaid card sales unit list price information
WICQuantity	: Object	: Prepaid card sales, which is covered by women Infant child related quantity information

Sample

```
"StoredValueFundSale": {
  Action: "Cashout",
  ItemIDs: [{
    Name: "Omotenashi Card",
    #value: "8999777"
  }],
  ExtendedAmount: { "#value": 800 }
```

}

Notices

Prepaid card operation information

Action: Activation, Void, Cancel, Associate, Stolen, Expired, Deactivated, Refund, Recharge, BalanceTransfer, Replace, Cashout

Attributes and members detailed information that are not used for the Japanese market, are not described in this specification.

If it is required please refer to the Schema.

3.24.1 Prepaid card information

Item name

ItemIDs

Hierarchy level 5

Overview

This is a member of prepaid card sales information on the item line, which is an array for storing prepaid card information, stores prepaid card number, information related to the card name, and the like.

Syntax

```
"ItemIDs": []
```

Data

Attribute

Name : Text : Card name string

Value

#value : Text : Prepaid card ID number string

Attribute (May not be used for the Japanese Market.)

Qualifier : Text : Prepaid card sales item qualifier information

Type : Text : Prepaid card sales item ID Type information

UUID : Text : Prepaid card sales item Unique Identifier information

Sample

```
"ItemIDs": [{  
  "Name": "Omotenashi Card",  
  "#value": "8999777"  
}]
```

Notices

Attributes detailed information that are not used for the Japanese market, are not described in this specification.

If it is required please refer to the Schema.

3.25 Advertising information

Item name

Advertising

Hierarchy level 4

Overview

This is an object that stores advertisement information online of detail, stores image information of advertisement, URI, advertisement sentence information and the like.

Syntax

```
"Advertising": {}
```

Member

AdvertisingID	: Text	: ID number of promotional information
ImageData	: Array	: Image data name information
ImageNumbers	: Array	: Image data number information
ImageURIs	: Array	: Image data URI information
Texts	: Array	: Promotional texts information
Codes	: Array	: Advertisement code number (ARTSBinary) information
Barcodes	: Array	: Bar code number information
URIs	: Array	: Advertisement URI information

Sample

```
"Advertising": {  
  "AdvertisingID": "444",  
  "ImageData": [{  
    "TypeCode": "JPG",  
    "base64Binary": "dkaoeie4"  
  }],  
  "ImageNumbers": [999],  
  "ImageURIs": ["http://xxxxzzz"],  
  "Texts": ["888"],  
  "Codes": ["99"],  
  "Barcodes":  
    ["\u0034\u0039\u0030\u0031\u0032\u0033\u0034\u0035\u0036\u0037\u0038\u0039\u0034"],  
  "URIs": ["http://yyyzzzz"]  
}
```

Notices

3.26 Details Line Sequence Number

Item name

SequenceNumbers

Hierarchy level 4

Overview

Sequence number to be issued for each object such as sales information, payment information, discount information on item line.

Syntax

```
"SequenceNumbers": []
```

Data

SequenceNumbers : Array : Sequence number array

Sample

```
"LineItems": [  
  {  
    "Sale": {  
      :  
    },  
    "SequenceNumbers": [ 1 ]  
  },  
  {  
    "Sale": {  
      :  
    },  
    "SequenceNumbers": [ 2 ]  
  },  
  {  
    "LoyaltyRedemptions": [{  
      :  
    }],  
    "SequenceNumbers": [ 3 ]  
  }  
]
```

Notices

3.27 Total information

Item name

Totals

Hierarchy level 3

Overview

It is an array for storing total information, and it is possible to store multiple sets of total value types and amounts in the array.

Syntax

```
"Totals": []
```

Data

Attribute

TotalType	: Text	: Total value type string
Name	: Text	: Same type multi-row discriminating attribute

Value

#value	: Number	: Amount
--------	----------	----------

Attribute (May not be used for the Japanese Market.)

CurrencyCode	: Text	: Transaction Currency Code information
HALOFlag	: Bool	: HALO (High amount lockout)indication flag
Type	: Text	: Total Type information
TypeCode	: Text	: Total Type Code information
UnitOfMeasureCode	: Text	: Unit of Measure code for the Total information
Units	: Number	: Units information for the Total

Sample

```
"Totals": [  
  {  
    "TotalType": "TransactionGrossAmount",  
    "#value": 720  
  },  
  {  
    "TotalType": "TransactionNetAmount",  
    "#value": 620  
  },  
  {
```

```

    "TotalType": "TransactionGrandAmount",
    "#value": 669
  },
  {
    "TotalType": "TransactionTaxAmount",
    "Name": "8",
    "#value": 39
  }
  {
    "TotalType": "TransactionTaxAmount",
    "Name": "10",
    "#value": 10
  }
],

```

Notices

TotalType: TransactionGrossAmount, TransactionNetAmount, TransactionTaxAmount,
 TransactionTaxIncluded, TransactionTaxSurcharge, TransactionGrandAmount,
 TransactionTipAmount, TransactionTaxExemptAmount, TransactionTaxForgivenAmount,
 TransactionNonSalesAmount, TransactionPurchaseQuantity, TransactionSubtotal,
 TransactionSubtotalTaxAmount, TransactionBalanceDueAmount,
 TransactionFoodstampTotalAmount, TransactionFoodstampBalanceDue , TransactionCouponTotal,
 TransactionCouponCount, TransactionDonationAmount, DiscountAmount, TransactionTotalSavings,
 TransactionTenderApplied, TransactionWeightTotal, TransactionItemCount, TenderAmount,
 TransactionLoyaltyPoints, TransactionLoyaltyAmount, RingElapsedTime, TenderElapsedTime,
 IdleElapsedTime, LockElapsedTime, ItemRegistrationTime, SecureTime, SignOnTime, SignOffTime
 TransactionToGoAmount, TransactionToGoTaxAmount, TransactionDineInAmount,
 TransactionDineInTaxAmount, TransactionServiceFeeAmount, TransactionServiceFeeTaxAmount
 Name: "XXXX"

Attributes detailed information that are not used for the Japanese market, are not described in this specification.

If it is required please refer to the Schema.

3.28 Customer information

Item name

Customers

Hierarchy level 3

Overview

It is an array that stores customer information and has a customer code and the like.

Syntax

```
"Customers": []
```

Data

Member

CustomerID	: Text	: Customer ID code string
Name	: Object	: Customer's generic name

Attribute (May not be used for the Japanese Market.)

Action	: Text	: Customer related action information
ContactPreference	: Text	: Customer contact preference information
Gender	: Text	: Customer's gender information

Member (May not be used for the Japanese Market.)

Addresses	: Array	: Customer's address information
BirthDayMonth	: Text	: Customer's birthday month information
BirthYear	: Text	: Customer's birthyear information
EMails	: Array	: Customer's e-mails information
FullName	: Text	: Customer's full name information
PrivacyOptOut	: Text	: Customer privacy related information
SequenceNumber	: Integer	: Customer sequence number information
TelephoneNumbers	: Array	: Customer's telephone numbers information
Websites	: Array	: Customer related Websites information

Sample

```
"RetailTransactions": [{  
  "Customers": [{  
    "CustomerID": "9900000016xxxxxx",  
    "Name": {  
      "Names": [{ "#value": "Taro Tokyo" }],  
      "MailingName": "Taro.Tokyo@xxxxx.jp"  
    }  
  }]  
}]
```

Notices

Attributes and members detailed information that are not used for the Japanese market, are not described in this specification.

If it is required please refer to the Schema.

3.28.1 Customer detailed information

Item name

Name

Hierarchy level 4

Overview

It is an object that stores customer detailed information, a customer code, and the like.

Syntax

```
"Name": {}
```

Data

Member

Names	: Array	: Customer name array
MailingName	: Text	: E-mail address

Member (May not be used for the Japanese Market)

OfficialName	: Text	: Customer's official name
Salutations	: Array	: Customer's name before first name like Dr. Mr. Mrs. Ms. Professor
SortingName	: Text	: Customer's name information to use for sorting
Suffixes	: Array	: Customer's name after the lastname like Sr., Jr, III

Sample

```
"RetailTransactions": [{  
  "Customers": [{  
    "CustomerID": "9900000016xxxxxx",  
    "Name": {  
      "Names": [{ "#value": "Taro Tokyo" }],  
      "MailingName": "Taro.Tokyo@xxxxx.jp"  
    }  
  }  
}]
```

```
}}
```

Notices

Members detailed information that are not used for the Japanese market, are not described in this specification.

If it is required please refer to the Schema.

3.29 Loyalty account information

Item name

LoyaltyAccounts

Hierarchy level 3

Overview

It is an array that stores loyalty account information. And it has customer code and loyalty account information.

Syntax

```
"LoyaltyAccounts": []
```

Data

Member

CustomerID	: Text	: Customer code string
LoyaltyAccount	: Object	: Loyalty account information

Member (May not be used for the Japanese Market)

LoyaltyCard	: Object	: Loyalty Card related information
-------------	----------	------------------------------------

Sample

```
"RetailTransactions": [{  
  "LoyaltyAccounts": [{  
    "CustomerID": "799886www",  
    "LoyaltyAccount": {  
      "ExpirationDate": "2020-08-10",  
      "Points": [  
        {  
          "Type": "PreviousPoints",  
          "#value": 900  
        },  
        {  
          "Type": "Redeemed",
```

```

        "#value": 777
      },
      {
        "Type": "PointsEarned",
        "#value": 0
      },
      {
        "Type": "Balance",
        "#value": 123
      }
    ],
    "PointsExpirations": [{
      "ToBeExpiredPoints": { "#value": 123 },
      "PointsExpirationDate": "2018-03-15"
    }]
  }
}]

```

Notices

Members detailed information that are not used for the Japanese market, are not described in this specification.

If it is required please refer to the Schema.

3.29.1 Loyalty account detailed information

Item name

LoyaltyAccount

Hierarchy level 4

Overview

It is an object that stores loyalty account information. And it has an expiration date of the loyalty account, point information, point expiration date information, and the like.

Syntax

"LoyaltyAccount": {}

Data

Member

ExpirationDate	: Text	: Expiration date of loyalty account string
Points	: Array	: Point information array
PointsExpirations	: Array	: Point expiration information array

Attribute (May not be used for the Japanese Market)

Action	: Text	: LoyaltyAccount related action information
--------	--------	---

Member (May not be used for the Japanese Market)

Adjustment	: Object	: Loyalty program account related adjustment information
CumulativeNetSalesAmount	: Object	: Accumulated net sales amount information
CurrentCount	: Object	: Loyalty program account related

		current count information
EffectiveDate	: Text	: Loyalty program account effective date
Fees	: Array	: Loyalty program account related fee information
IncrementalCount	: Object	: Count incremental information for the current Loyalty programs account
LoyaltyAccountID	: Object	: Loyalty program account ID information
LoyaltyPrice	: Object	: Loyalty program member price information
LoyaltyProgramIDs	: Array	: Loyalty program ID information
OfferID	: Text	: Loyalty program member's special offer ID information
QualifiedItemIDs	: Array	: Loyalty program account holder's targeted item ID to be sold
Redemptions	: Array	: Loyalty program account holder's special point redemption information
TargetCount	: Object	: Loyalty program account holder's next achievable target count information
TermsIDs	: Array	: Loyalty program account holder related promotional terms information

Sample

```

"LoyaltyAccount": {
  "ExpirationDate": "2020-08-10",
  "Points": [
    {
      "Type": "PreviousPoints",
      "#value": 900
    },
    {
      "Type": "Redeemed",
      "#value": 777
    },
    {
      "Type": "PointsEarned",
      "#value": 0
    },
    {
      "Type": "Balance",
      "#value": 123
    }
  ]
}

```

```

    }
  ],
  "PointsExpirations": [{
    "ToBeExpiredPoints": { "#value": 123 },
    "PointsExpirationDate": "2018-03-15"
  }]
}

```

Notices

Attributes and members detailed information that are not used for the Japanese market, are not described in this specification.

If it is required please refer to the Schema.

3.29.1.1 Loyalty Account Point Information

Item name

Points

Hierarchy level 5

Overview

Array storing loyalty account point information.

Syntax

"Points": []

Data

Attribute

Type : Number : Point type

Value

#value : Text : Point value

Sample

```

  "Points": [
    {
      "Type": "PreviousPoints",
      "#value": 900
    },
    {
      "Type": "Redeemed",
      "#value": 777
    },
    {

```

```

        "Type": "PointsEarned",
        "#value": 0
    },
    {
        "Type": "Balance",
        "#value": 123
    }
],

```

Notices

Type: Credited, Debited, Balance, Assigned, PointsEarned, PointsExpiring, PreviousPoints, Redeemed, TotalRedeemed, Reversal, PointsAdjustment,

3.29.1.2 Loyalty Account point expiration date information

Item name

PointsExpirations

Hierarchy level 5

Overview

Array storing point expiration information of loyalty account.

Syntax

"PointsExpirations": []

Data

Member

ToBeExpiredPoints	: Object	: Number of points to be expired
PointsExpirationDate	: Text	: Point expiration date information
		"Date": "yyyy-mm-dd"

Sample

```

"LoyaltyAccount": {
  "ExpirationDate": "2020-08-10",
  "Points": [
    {
      "Type": "PreviousPoints",
      "#value": 900
    },
    {
      "Type": "Redeemed",
      "#value": 777
    },
    {
      "Type": "PointsEarned",
      "#value": 0
    }
  ]
}

```

```

    },
    {
        "Type": "Balance",
        "#value": 123
    }
],
"PointsExpirations": [{
    "ToBeExpiredPoints": { "#value": 123 },
    "PointsExpirationDate": "2018-03-15"
}]
}

```

Notices

3.29.2 Loyalty program information

Item name

LoyaltyPrograms

Hierarchy level 5

Overview

An array for storing loyalty program information. And it stores a name, a code, and the like.

Syntax

"LoyaltyPrograms": []

Data

Attribute

Action : Text : implementation items for the loyalty program

Member

LoyaltyProgramIDs : Array : ID of the loyalty program information
 LoyaltyAccountID : Object : Member ID of the loyalty program information
 Points : Array : Points number information

Member (May not be used for the Japanese Market.)

Adjustment : Object : Loyalty program related adjustment information
 CumulativeNetSalesAmount : Object : Accumulated net sales amount information
 CurrentCount : Object : Loyalty program related current

		count information
EffectiveDate	: Text	: Loyalty program effective date
ExpirationDate	: Text	: Loyalty program expiration date
Fees	: Array	: Loyalty program related fee information
IncrementalCount	: Object	: Count incremental information for the current loyalty programs
LoyaltyPrice	: Object	: Loyalty program member price information
OfferID	: Text	: Loyalty program member's special offer ID information
PointsExpirations	: Array	: Loyalty program member's points expiration information
QualifiedItemIDs	: Array	: Loyalty program member's Qualified item ID information
Redemptions	: Array	: Loyalty program member's special points redemption information
TargetCount	: Object	: Loyalty program member's next achievable target count information
TermsIDs	: Array	: Loyalty program member related terms ID information

Sample

```

"LoyaltyPrograms": [{
  "Action": "Update",

  "LoyaltyProgramIDs": [{
    "Name": "Platinum",
    "Description": "XX Mileage",
    "#value": "9999"
  }],
  "LoyaltyAccountID": { "#value": "888888" },
  "Points": [{
    "Type": "Redeemed",
    "#value": 999
  }]
}]

```

Notices

Action: Add, Authenticate, Remove, Delete, Update, Create, Read, Inactivate, Merge, Lookup, GetAffiliations, Enroll, EnrollmentQuery, EnrollmentCancel, Void

Members detailed information that are not used for the Japanese market, are not described in this specification.

If it is required please refer to the Schema.

3.29.2.1 ID information of loyalty program

Item name

LoyaltyProgramIDs

Hierarchy level 6

Overview

Array to store loyalty program ID information of loyalty program account.

Syntax

"LoyaltyProgramIDs": []

Data

Attribute

Description	: Text	: Loyalty program description item
Name	: Text	: Name to loyalty program

Value

#value	: Text:	loyalty program number value
--------	---------	------------------------------

Sample

```
"LoyaltyPrograms": [{  
  "Action": "Update",  
  
  "LoyaltyProgramIDs": [{  
    "Name": "Platinum",  
    "Description": "XX Mileage",
```

```

        "#value": "9999"
    }},
    "LoyaltyAccountID": { "#value": "888888" },
    "Points": [{
        "Type": "Redeemed",
        "#value": 999
    }]
}]

```

Notices

3.29.2.2 Loyalty program Member ID information

Item name

LoyaltyAccountID

Hierarchy level 6

Overview

Object storing loyalty program Member ID information.

Syntax

```
"LoyaltyAccountID": {}
```

Data

Value

#value	: Text	: Loyalty program Member ID information string
--------	--------	--

Attribute

Description	: Text	: Loyalty account ID description information
IdentificationSupportType	: Text	: Loyalty account ID card type information
IdentificationType	: Text	: Loyalty account ID type information
Level	: Text	: Loyalty account Level information
Name	: Text	: Loyalty account ID name information

Sample

```

"LoyaltyPrograms": [{
    "Action": "Update",

```

```

        "LoyaltyProgramIDs": [{
            "Name": "Platinum",
            "Description": "XX Mileage",
            "#value": "9999"
        }],
        "LoyaltyAccountID": { "#value": "888888" },
        "Points": [{
            "Type": "Redeemed",
            "#value": 999
        }]
    }
}

```

Notices

Attributes detailed information that are not used for the Japanese market, are not described in this specification.

If it is required please refer to the Schema.

3.29.2.3 Number of points for Loyalty program

Item name

Points

Hierarchy level 6

Overview

An array that stores the point number of Members of the loyalty program

Syntax

```
"Points": []
```

Data

Attribute

Type	: Text	: Type of point
------	--------	-----------------

Value

#value	: Number	: Number of points
--------	----------	--------------------

Sample

```

"LoyaltyPrograms": [{
    "Action": "Update",
    "LoyaltyProgramIDs": [{
        "Name": "Platinum",
        "Description": "XX Mileage",
        "#value": "9999"
    }],
}]

```

```

    "LoyaltyAccountID": { "#value": "888888" },
    "Points": [{
        "Type": "Redeemed",
        "#value": 999
    }]
}]

```

Notices

Type: Credited, Debited Balance, Assigned, PointsEarned, PointsExpiring, PreviousPoints, Redeemed, TotalRedeemed, Reversal, PointsAdjustment

3.30 Food service information

Item name

Foodservices

Hierarchy level 2

Overview

This is an array for storing food service information. And it stores a table number, a seat number, number of group information and the like.

Syntax

```
"Foodservices": []
```

Data

Attribute

DestinationType : Text : Service target type

Member

TableIDs : Array : Array of unique number of the table being served by this transaction

SeatIDs : Array : Array of Identifies the seat for a particular customer

PartySize : Integer : The number of people being served in one group

Attribute (May not be used for the Japanese Market.)

ProcessMode	: Text	: Foodservice process mode string
SalesMetrics	: Text	: Foodservice sales metrics string

Member (May not be used for the Japanese Market.)

CheckInTime	: Text	: The time a customer sets down at a table
CheckOutTime	: Text	: The time a customer left the table
CookEndTime	: Text	: The time the cooking was finished
CookStartTime	: Text	: The time the cooking of the food began
DelayDateTime	: Text	: Delay starting the food service transaction until the nominated time
Gratuity	: Object	: The monetary amount of the gratuity that accompanies the hospitality transaction
ItemLinks	: Array	: Ties the Foodservice to one or more items
OrderTime	: Text	: The time the customer ordered their food
PartyCount	: Integer	: Number of tendered Parties in the business day
PartyName	: Text	: The name for the particular party
PartySize	: Integer	: The number of people being served in one group
ServeTime	: Text	: The time the customer was served
TableCharge	: Object	: Charge for the use of private room
TableSection	: Text	: Location of the table in the restaurant
Trays	: Array	: Array of structure which reports the information about a tray in a cafeteria type environment

Sample

```
"Foodservices": [{
  "DestinationType": "DineIn",
  "TableIDs": ["22"],
  "SeatIDs": ["5"],
  "PartySize": 2
}]
```

Notices

Attributes and members detailed information that are not used for the Japanese market, are not described in this specification.

If it is required please refer to the Schema.

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4 JSON data Sample

4.1 Digital Receipt

4.1.1 Digital receipt with various coupons added [JSON-1]

Convenience Store Nakamura Customer Receipt 2018/05/14 13:51 123456789999 Shiojiri Station Store WWWXXXXX Address: 399-0xxx, Shiojiri City Hirooka 1234-5yy Salesperson: Ota Zaki: 8944 Nonalcoholic Beer x6 ¥720 Chewing gum x2 ¥240 Bottled green tea 200ml x1 ¥180 "Green tea Shiojiri no Shizuku" Paper diaper x4 ¥4000 Subtotal ¥5140 Tax ¥411 ----- Total ¥5551 Cash ¥10051 Change ¥4500 ----- Customer ID: XXXXXXXYYYYZZZZ Platinum		
Platinum Level: Gift Coupon Next time at Convenience store Nakamura At the time of shopping, 514 yen will be discounted.		
"Green tea Shiojiri no Shizuku" 200 ml 10% discount Only at Convenience Nakamura		
Disposable diaper 50 yen discount coupon This coupon can be used at any store Valid until 15/Aug./2019		

[JSON-1]

{

```

"DigitalReceipt": {
  "MajorVersion": 3, "
  Transactions": [
    {
      "BusinessUnits": [
        {
          "UnitID": {
            "Name": "Shiojiri Station Store",
            "#value": "WWWXXXXX"
          },
          "Address": {
            "PostalCode": "399-0xxx", "
            AddressLines": [
              { "#value": "Hirooka 1234-5yy" },
              { "#value": "Shiojiri City" }
            ]
          }
        }
      ],
      "Logo": {
        "LogoFormat": "BMP",
        "FileName": "convenience store nakamura.bmp"
      },
      "OperatorIDs": [
        {
          "OperatorName": "Ota Zaki", "#value":
            "8944"
        }
      ],
      "ReceiptDateTime": { "#value": "2016-05-14T18:13:51" }, "
      ReceiptNumber": { "#value": "123456789999" },
      "RetailTransactions": [
        {
          "LineItems": [
            {
              "Sale": {
                "ItemIDs": [
                  {
                    "Name": "Nonalcoholic Beer",
                    "#value": "1022585345677"
                  }
                ],
                "ExtendedAmount": { "#value": 720 }, "
                Quantities": [{ "#value": 6 }]
              },
              "SequenceNumbers": [ 2 ]
            },
            {
              "Sale": {
                "ItemIDs": [

```

```

        {
            "Name": "Chewing gum",
            "#value": "1223045899786"
        }
    ],
    "ExtendedAmount": { "#value": 240 },
    "Quantities": [{ "#value": 2 }]
},
"SequenceNumbers": [ 3 ]
},
{
    "Sale": {
        "ItemIDs": [
            {
                "Name": "Bottled green tea 200ml¥"Green tea Shiojiri no
                Shizuku¥",
                "#value": "1056767893345"
            }
        ],
        "ExtendedAmount": { "#value": 180 }, "
        Quantities": [{ "#value": 1 }]
    },
    "SequenceNumbers": [ 4 ]
},
{
    "Sale": {
        "ItemIDs": [
            {
                "Name": "Paper diaper",
                "#value": "1035354589032"
            }
        ],
        "ExtendedAmount": { "#value": 4000 }, "
        Quantities": [{ "#value": 4 }]
    },
    "SequenceNumbers": [ 5 ]
},
{
    "Coupon": {
        "Use": "Issue",
        "CouponType": "StoreCoupon", "
        Descriptions": [
            { "#value": "Platinum Level: Gift Coupon" },
            { "#value": "Next Time at" },
            { "#value": "Convenience Store Nakamura" },
            { "#value": "At the time of shopping" },
            { "#value": "514 yen will be discounted" }
        ],
        "BusinessUnit": {
            "Name": "Nakamura Shiojiri station front Store", "
            TypeCode": "RetailStore",
            "#value": "WWWXXXX"
        },
        "CertificationIDs": [ "XXXXXXXXXX" ], "
        Amounts": [{ "#value": 514 }]
    }
}

```

```

    },
    "SequenceNumbers": [ 6 ]
  },
  {
    "Coupon": {
      "Use": "Issue",
      "CouponType": "StoreCoupon", "
      Descriptions": [
        { "#value": "¥Green tea Shiojiri no Shizuku¥ 200ml" },
        { "#value": "10% discount" },
        { "#value": "Only At Convenience Nakamura" }
      ],

      "ScanCode": "789956", "
      BusinessUnit": {
        "Name": "Convenience Store Nakamura", "
        TypeCode": "RetailStore",
        "#value": "WWWWXXXX"
      },
      "CertificationIDs": [ "888" ], "
      Percent": [ 10 ]
    },
    "SequenceNumbers": [ 7 ]
  },
  {
    "Coupon": {
      "CouponType": "ManufacturersCoupon", "
      Descriptions": [
        { "#value": "Disposable diaper" },
        { "#value": "50 yen discount coupon" },
        { "#value": "This coupon can be used at any store" },
        { "#value": "Valid until 15/Aug./2019" }
      ],
      "ExpirationDate": "2018-08-15", "
      ItemIDs": [
        {
          "Name": "Disposable diaper",
          "#value": "1035354589032"
        }
      ],
      "CertificationIDs": [ "7899456" ], "
      Amounts": [{ "#value": 50 }]
    },
    "SequenceNumbers": [ 8 ]
  },
  {
    "Tender": {
      "TenderType": "Cash",
      "Amount": { "#value": 10051 },
      "TenderChanges": [{ "Amount": { "#value": 4500 } }]
    },
    "SequenceNumbers": [ 9 ]
  }
}

```

```

],
"Totals": [
  {
    "TotalType": "TransactionGrossAmount",
    "#value": 5140
  },
  {
    "TotalType": "TransactionNetAmount",
    "#value": 5140
  },
  {
    "TotalType": "TransactionGrandAmount",
    "#value": 5551
  },
  {
    "TotalType": "TransactionTaxAmount",
    "#value": 411
  }
],
"LoyaltyAccounts": [
  {
    "LoyaltyPrograms": [
      {
        "LoyaltyAccountID": {
          "Level": "Platinum",
          "#value": "XXXXXXXXYYYYZZZZ"
        }
      }
    ]
  }
]
]

```

4.1.2 Discount (50 yen) Digital receipt with coupon added [JSON-2]

[JSON-2]

```

{
  "DigitalReceipt": {
    "MajorVersion": 3, "
    Transactions": [
      {
        "ReceiptDate Time": { "#value": " 2016 - 08 - 30T 09
: 01 : 00" }, " Receipt Number": { "#value": "
56783455" },
        "Retail Transactions": [
          {
            "Line Items": [
              {
                "Coupon": {

```



```

    }
  ]
}
]
}
}

```

4.1.4 Digital receipt with manufacturer coupon (50 yen discount) added [JSON-4]

[JSON-4]

```

{
  "DigitalReceipt": {
    "MajorVersion": 3, "
    Transactions": [
      {
        "ReceiptDateTime": { "#value": "2016-08-13T09:01:00" }, "
        ReceiptNumber": { "#value": "56783455" },
        "RetailTransactions": [
          {
            "LineItems": [
              {
                "Coupon": {
                  "Use": "Issue",
                  "CouponType": "Manufacturers Coupon", "
                  ScanCode": "34879765",
                  "Discounts": [ 50 ]
                },
                "SequenceNumbers": [ 1 ]
              }
            ]
          }
        ]
      }
    ]
  }
}

```

4.1.5 Digital receipt with use of store coupon (single item, 50 yen discount) [JSON-5]

[JSON-5]

```

{
  "DigitalReceipt": {
    "MajorVersion": 3, "
    Transactions": [

```

```

{
  "CurrencyCode": "JPY",
  "ReceiptDateTime": { "#value": "2016-08-13T09:01:00" }, "
  ReceiptNumber": { "#value": "56783455" },
  "RetailTransactions": [
    {
      "LineItems": [
        {
          "Sale": {
            "ItemIDs": [
              {
                "Name": "Chocolate bar",
                "#value": "1045687899354"
              }
            ],
            "MerchandiseHierarchies": [
              {
                "Level": "Department", "
                ID": "567"
              }
            ],
            "ExtendedAmount": { "#value": 350 }, "
            Quantities": [
              { "#value": 1 }
            ],
            "RetailPriceModifiers": [
              {
                "MethodCode": "Coupon", "
                SequenceNumber": 1 ,
                "Amount": {
                  "Action": "Subtract",
                  "#value": 50
                },
                "PromotionID": { "#value": "123123" }, "
                ReasonCodes" : ["456345"]
              }
            ]
          },
          "SequenceNumbers": [ 1 ]
        },
        {
          "Tender": {
            "TenderType": "Cash",
            "Amount": { "#value": 378 }
          },
          "SequenceNumbers": [ 2 ]
        }
      ],
      "Totals": [
        {
          "TotalType": "Transaction
          GrossAmount", "#value": 400
        },
        {
          "TotalType": "
          TransactionNetAmount",
          "#value": 350
        }
      ]
    }
  ]
}

```

```

    },
    {
      "TotalType": "Transaction
GrandAmount", "#value": 378
    },
    {
      "TotalType": "
Transaction
TaxAmount", "#value":
28
    }
  ]
}
}
]
}
}
}

```

4.1.6 Discount (single item, 10%) Digital receipt with coupon usage [JSON-6]

[JSON-6]

```

{
  "DigitalReceipt": {
    "MajorVersion": 3, "
    Transactions": [
      {
        "ReceiptDate Time": { "#value": "2016-08-13T09:01:00" }, "
        ReceiptNumber": { "#value": "56783455" },
        "RetailTransactions": [
          {
            "LineItems": [
              {
                "Sale": {
                  "ItemIDs": [
                    {
                      "Name": "Can Beer 500ml",
                      "#value": "1078567899784"
                    }
                  ],
                  "ExtendedAmount": { "#value": 315 }, "
                  Quantities": [
                    { "#value" : 1 }
                  ],
                  "RetailPriceModifiers": [
                    {
                      "MethodCode": "Coupon", "
                      Sequence Number" 1,
                      "Percent": {
                        "Action": "Subtract",
                        "#value": 10
                      }
                    }
                  ]
                }
              }
            ]
          }
        ]
      }
    ]
  }
}

```



```

    "UnitID": {
      "Name": "Coffee Shop A Hill",
      "Type Code": "RetailStore",
      "#value": "456678"
    }
    "Address": {
      "Address Type": "RetailStore",
      "AddressLines": [ { "#
value": "Hara 90" } ], "
City": "Shiota City",
      "Postal Code": "399-zzzZ"
    },
    "Telephone": {
      "Area Code": "0263",
      "Local Numbers": [ "zzz-yyzz" ]
    }
  },
  "ReceiptNumber": {
    "#value": "124566" }, "
  Invoice Numbers": [
    { "#value": "485567" }
  ],
  "RetailTransactions": [
    {
      "LineItems": [
        {
          "Sale": {
            "ItemIDs": [
              {
                "Name": "Blended coffee S",
                "#value": "678966 "
              }
            ],
            "ExtendedAmount": { "#value": 220 }, "
            Quantities": [
              { "#value": 1 }
            ],
            "Foodservice": { "DestinationType": "Dine In" }
          },
          "SequenceNumbers": [ 1 ]
        },
        {
          "Sale": {
            "ItemIDs": [
              {
                "Name": "Iced Coffee S",
                "#value": "554433"
              }
            ],
            "ExtendedAmount": { "#value": 280 }, "
            Quantities": [
              { "#value": 1 }
            ],
            "Foodservice": { "DestinationType": "Dine In" }
          },
          "SequenceNumbers": [ 2 ]
        }
      ]
    }
  ]
}

```

```

    },
    {
      "Sale": {
        "ItemIDs": [
          {
            "Name": "Mix Sand M",
            "#value": "789956 "
          }
        ],
        "ExtendedAmount": { "#value": 660 }, "
        Quantities": [
          { "#value": 2 }
        ],
        "Foodservice": { "DestinationType": "ToGo" }
      },
      "SequenceNumbers": [ 3 ]
    },
    {
      "Sale": {
        "ItemIDs": [
          {
            "Name": "Iced Coffee S",
            "#value": "554433 "
          }
        ],
        "ExtendedAmount": { "#value": 280 }, "
        Quantities": [
          { "#value": 1 }
        ],
        "Foodservice": { "DestinationType": "ToGo" }
      },
      "SequenceNumbers": [ 4 ]
    },
    {
      "Sale": {
        "ItemType": "Service",
        "ItemSubType": "Service Charge", "
        ItemIDs": [
          {
            "Name": "Service fee (late-night fee)",
            "#value": "SC 10"
          }
        ],
        "ExtendedAmount": { "#value": 50 }, "
        ItemLinks": [ 1, 2 ],
        "Foodservice": { "DestinationType": "Dine In" }
      },
      "SequenceNumbers": [ 5 ]
    },
    {
      "Tender": {
        "TenderType": "Credit Debit", "
        Amount": {
          "#value": 1490
        },
      },

```

```

        "CreditDebits": [
            {
                "TypeCode": "Visa",
                "PrimaryAccountNumber": { "#value": "*****xxyy" }
            }
        ],
        "SequenceNumbers": [ 6 ]
    },
    "Totals": [
        {
            "TotalType": "TransactionDineInAmount", "#value": 500
        },
        {
            "TotalType": "TransactionDineInTaxAmount", "#value": 37
        },
        {
            "TotalType": "TransactionServiceFeeAmount", "#value": 50
        },
        {
            "TotalType": "TransactionServiceFeeTaxAmount", "#value": 4
        },
        {
            "TotalType": "TransactionToGoAmount", "#value": 940
        },
        {
            "TotalType": "TransactionToGoTaxAmount", "#value": 70
        },
        {
            "TotalType": "TransactionGrandAmount", "#value": 1490
        },
        {
            "TotalType": "TransactionTaxIncluded", "#value": 111
        }
    ]
}
]
]
]

```

```
}  
}
```

4.1.8 Digital receipt with subtotal discount coupon usage [JSON-8]

[JSON-8]

```
{  
  "DigitalReceipt": {  
    "MajorVersion": 3,  
    "Transactions": [  
      {  
        "RetailTransactions": [  
          {  
            "LineItems": [  
              {  
                "Sale": {  
                  "ItemIDs": [  
                    {  
                      "Name": "Shiojiri no Shizuku",  
                      "#value": "1056888569902",  
                    }  
                  ],  
                  "UnitListPrice": { "  
                    Quantity": 1,  
                    "#value": 200  
                  }  
                  "ExtendedAmount": { "#value": 400 }, "  
                  "Quantities": [{ "#value": 2 }]  
                },  
                "SequenceNumbers": [ 1 ]  
              },  
              {  
                "Sale": {  
                  "ItemIDs": [  
                    {  
                      "Name": "Disposable diaper",  
                      "#value": "1035354589032",  
                    }  
                  ],  
                  "UnitListPrice": { "  
                    Quantity": 1,  
                    "#value": 1000  
                  }  
                  "ExtendedAmount": { "#value": 4000 }, "  
                  "Quantities": [{ "#value": 4 }]  
                },  
                "SequenceNumbers": [ 2 ]  
              },  
              {  
                "Coupon": {  
                  "Use": "Redeem",  
                  "CouponType": "Store Coupon", "  
                  "Descriptions": [  
                    { "#value": "10% discount coupon" },  
                  ]  
                }  
              }  
            ]  
          }  
        ]  
      }  
    ]  
  }  
}
```



```

{
  "LineItems": [
    {
      "Sale": {
        "ItemIDs": [
          {
            "Name": "Shiojiri no Shizuku 200ml", "#value":
            "1056888569902"
          }
        ],
        "ExtendedAmount": { "#value": 200 }, "
        Quantities": [{ "#value": 1 }]
      },
      "SequenceNumbers": [ 1 ]
    },
    {
      "Coupon": {
        "Use": "Redeem",
        "CouponType": "
        Manufacturers Coupon",
        "Quantity": { "#value": 1
        },
        "ScanCode": "3487976545789",
        "ItemIDs": [
          { "#value": "1056888569902" }
        ],
        "Discounts": [ 50 ],
        "CertificationIDs": [ "789988" ]
      },
      "SequenceNumbers": [ 2 ]
    },
    {
      "Tender": {
        "TenderType": "Cash",
        "Amount": { "#value": 166 }
      },
      "SequenceNumbers": [ 3 ]
    },
    {
      "Tender": {
        "TenderType": "Coupon",
        "Amount": { "#value": 50 }
      },
      "SequenceNumbers": [ 4 ]
    }
  ],
  "Totals": [
    {
      "TotalType": "Transaction
      Gross Amount", "#value": 200
    },
    {
      "TotalType": "
      Transaction Net Amount",
      "#value": 200
    },
  ]
}

```


[JSON-10]

```
{
  "DigitalReceipt": {
    "MajorVersion": 3, "
    Transactions": [
      {
        "BusinessUnits": [
          {
            "UnitID": {
              "Name": "Shiojiri Station front Store",
              "#value": "WWWXXXX"
            },
            "Address": {
              "PostalCode": "399-0xxx", "
              AddressLines": [
                { "#value": "Hirooka 123 - yyz"},
                { "#value": "Shiojiri City"}
              ],
              "Territories": [ { "#value": "Hirooka" } ]
            }
          }
        ],
        "OperatorIDs": [
          {
            "OperatorName": "Hirayama Tadashi", "
            OperatorType": "Cashier",
            "#value": "yyww 1236"
          }
        ],
        "CurrencyCode": "JPY",
        "ReceiptDateTime": { "#value": "2018-08-13T09:01:00" }, "
        "Receipt Number": { "#value": "123456789999" },
        "RetailTransactions": [
          {
            "LineItems": [
              {
                "Sale": {
                  "ItemType": "Stock",
                  "ItemIDs": [
                    {
                      "Name": "Nonalcoholic Beer",
                      "#value": "102558"
                    }
                  ],
                  "ExtendedAmount": { "#value": 720 }, "
                  Quantities": [{ "#value": 6 }]
                },
                "SequenceNumbers": [ 1 ]
              },
              {
                "Sale": {
                  "ItemIDs": [
                    {
                      "Name": "Chewing gum",
                      "#value": "102304"
                    }
                  ]
                }
              }
            ],

```

```

        "ExtendedAmount": { "#value": 240 }, "
        Quantities": [{ "#value": 2 }]
    },
    "SequenceNumbers": [ 2 ]
},
{
    "Sale": {
        "ItemIDs": [
            {
                "Name": "Matsumoto green tea 200 ml",
                "#value": "1056767 "
            }
        ],
        "MerchandiseHierarchies": [
            { "#value": "bottled green tea 200 ml" }
        ],
        "ExtendedAmount": { "#value": 180 }
    },
    "SequenceNumbers": [ 3 ]
},
{
    "Sale": {
        "ItemIDs": [
            {
                "Name": "Paper diaper Mary's",
                "#value": "103535"
            }
        ],
        "ExtendedAmount": { "#value": 4000 }, "
        Quantities": [{ "#value": 4 }]
    },
    "SequenceNumbers": [ 4 ]
},
{
    "LoyaltyReward": {
        "LoyaltyProgramIDs": [
            {
                "Name": "Nakamura Tomonokai",
                "#value": "8899zz"
            }
        ],
        "LoyaltyAccountID": { "#value": "789956XXX" }, "
        Points Awarded": [
            {
                "Type": "Previous Points",
                "#value": 2368
            },
            {
                "Type": "Points Earned",
                "#value": 771
            }
        ],
        "Type": "Balance",
        "#value": 3139
    }
}

```

```

    }
  ]
},
"SequenceNumbers": [ 5 ]
},
{
  "LoyaltyReward": {
    "LoyaltyProgramIDs": [
      {
        "Name": "WW point",
        "#value": "4566yy"
      }
    ],
    "LoyaltyAccountID": { "#value": "4589 YZZZZ", "Level": "Platinum"},
    "Points Awarded": [
      {
        "Type": "Previous Points",
        "#value": 4577
      },
      {
        "Type": "Points Earned",
        "#value": 514
      },
      {
        "Type": "Balance",
        "#value": 5091
      }
    ]
  }
}

"SequenceNumbers": [ 6 ]
},
{
  "Tender": {
    "TenderType": "Cash",
    "Amount": { "#value": 6000 },
    "Tender Changes": [
      {
        "TenderType": "Cash",
        "Amount": { "#value": 449 }
      }
    ]
  }
},
"SequenceNumbers": [ 7 ]
}
],
"Totals": [
  {
    "Total Type": "Transaction Gross Amount",
    "#value": 5140
  },
  {
    "Total Type": "Transaction Net Amount",
    "#value": 5140
  },
  {
    "Total Type": "Transaction GrandAmount",
    "#value": 5551
  }
]

```

```

    },
    {
      "TotalType": "TransactionTaxAmount",
      "#value": 411
    }
  ]
}

```

4.3 Digital receipt with point of expiration and expiration date stated. [JSON-11]

Supermarket Muranaka Customer Receipt		
2016/02/25, 18:13:51 123456789999		
Shiojiri station Store WWWXXXX		
Phone 0263-yy-zzzz		
Address: 〒 399-yyzz		
Shiojiri City Hirooka 123 - yyz		
Cashier: Ota Zaki: 78956		
Nonalcoholic Beer	x6	¥ 720
Chewing gum	x2	¥ 240
Matsumoto green tea 200ml		
	x1	¥ 180
Paper diaper Mary's	x4	¥ 4,000
Subtotal		¥ 5,140
Tax		¥ 411

Total		¥ 5,551
Credit		¥ 5,551
Credit Card No.:	*****	yyyyzz
-----^-----		
*** Muranaka Customer Club ***		
*** Point information ***		
Initial points		600
Redeemed points		0
Points Awarded Amount		¥ 5,140
Points Awarded		514
Points Balance		1114
Point Expiration Date		20/03/2019
Points to be Expired		600
Membership No.:		yyyy895677

[JSON-11]

```

{
  "DigitalReceipt": {
    "MajorVersion": 3,
    "Transactions": [

```

```

{
  "BusinessUnits": [
    {
      "UnitID": {
        "Name": "Shiojiri station Store",
        "#value": "WWWXXXX"
      },
      "Address": {
        "PostalCode": "399-yyzz", "
        AddressLines": [
          { "#value": "Hirooka 123 - yyz"},
          { "#value": "Shiojiri City"}
        ],
      },
      "Telephone": {
        "AreaCode": "0263",
        "LocalNumbers": [ "yy-zzzz" ]
      }
    }
  ],
  "Logo": {
    "LogoFormat": "PDF",
    "FileName": "www.myreceipts.com/123456789999"
  },
  "SequenceNumber": 50, "
  Operator IDs" : [
    {
      "Operator Name": "Ota Zaki", "#value":
      "78956"
    }
  ],
  "ReceiptDateTime": { "#value": "2016-02-25T18:13:51" }, "
  ReceiptNumber": { "#value": "123456789999"},
  "RetailTransactions": [
    {
      "LineItems": [
        {
          "Sale": {
            "ItemIDs": [
              {
                "Name": "Nonalcoholic Beer",
                "#value": "1022585345677"
              }
            ],
          },
          "ExtendedAmount": { "#value": 720 }, "
          Quantities": [{ "#value": 6 }]
        },
        "SequenceNumbers": [ 1 ]
      },
      {
        "Sale": {
          "ItemIDs": [
            {
              "Name": "Chewing gum",
              "#value": "1223045899786"
            }
          ],
        },
      ],
    ],
  ],

```

```

        "ExtendedAmount": { "#value": 240 }, "
        Quantities": [{ "#value": 2 }]
    },
    "SequenceNumbers": [ 2 ]
},
{
    "Sale": {
        "ItemIDs": [
            {
                "Name": "Matsumoto green tea 200ml",
                "#value": "1056767893345"
            }
        ],
        "ExtendedAmount": { "#value": 180 }, "
        Quantities": [{ "#value": 1 }]
    },
    "SequenceNumbers": [ 3 ]
},
{
    "Sale": {
        "ItemIDs": [
            {
                "Name": "Paper diaper Mary's",
                "#value": "1035354589032"
            }
        ],
        "ExtendedAmount": { "#value": 4000 },
        "Quantities": [{ "#value": 4 }]
    },
    "SequenceNumbers": [ 4 ]
},
{
    "Tender": {
        "Tender Type": "Credit Debit", "
        Amount": { "#value": 5551 }, "
        Credit Debits": [
            {
                "TypeCode": "Visa",
                "PrimaryAccountNumber": { "#value": "***** yyyzzz"
            }
        ]
    },
    "SequenceNumbers": [ 5 ]
}
],
"Totals": [
    {
        "Total Type": "Transaction Gross Amount",
        "#value": 5140
    },
    {
        "Total Type": "Transaction Net Amount",
        "#value": 5140
    },

```

```

    {
      "TotalType": "Transaction GrandAmount",
      "#value": 5551
    },
    {
      "TotalType": "Transaction TaxAmount",
      "#value": 411
    }
  ],
  "LoyaltyAccounts": [
    {
      "Customer
      ID": "yyyy
      895677", "
      LoyaltyAccou
      nt": {
        "
        ExpirationDate"
        : "2020-08-30",
        "Points": [
          {
            "Type": "
            PreviousPoints",
            "#value": 600
          },
          {
            "Type":
            "
            Redeem
            ed",
            "#value
            ": 0
          },
          {
            "Type":
            "Points
            Earned"
            ,
            "#value
            ": 514
          }
        ],
        {
          "Type": "Balance",
          "#value": 1114
        }
      },
      "PointsExpirations": [
        {
          "ToBeExpiredPoints": { "#value": 600 },
          "Points ExpirationDate": "2019-03-20"
        }
      ]
    }
  ]
}

```

```
}  
  }  
]
```

4.4 Purchase of goods using loyalty program points

4.4.1 Digital receipt with discount by loyalty program point [JSON-12]

Convenience store
Nakamura
Customer receipt
2016/04/21 18:13 123456789977
Shiojiri station Store WWWXXXX
Phone 0263-zz-yyyy
Address: 〒399-0xxx
Shiojiri City Hirooka 123-yyz
Sales staff: Takashi Yamada ID: 7899www
Nonalcoholic Beer x 6 ￥720
Point discount -￥100
Subtotal ￥620
Tax ￥49

Total ￥669
Cash ￥669
Change ￥0

*** Nakamura Tomonokai ***
*** Point information ***
Initial Points 600
Points Redeemed 100
Points Awarded Amount ￥620
Points Awarded 62
Points Balance 562
Points Expiration Date: 21/April/2019
Points to be Expired 562
Nakamura Tomonokai ID : 8899zz
Customer ID: 799886YYY, Level: Platinum

[JSON-12]

```
{
  "DigitalReceipt": {
    "MajorVersion": 3,
    "Transactions": [
      {
        "BusinessUnits": [
          {
            "UnitID": {
              "Name": "Shiojiri station Store",
              "#value": "WWWXXXX"
            },
            "Address": {
              "PostalCode": "399-yyzz",
              "AddressLines": [
                { "#value": "Hirooka 123 - yyz" },
                { "#value": "Shiojiri City" }
              ]
            }
          }
        ]
      },
      {
        "Logo": {
          "LogoFormat": "PDF",
          "FileName": "www.myreceipts.com/123456789999"
        }
      }
    ]
  }
}
```

```

    },
    "OperatorIDs": [
      {
        "OperatorName": "Takashi Yamada",
        "#value": "7899www"
      }
    ],
    "ReceiptDateTime": { "#value": "2016-04-21T18:13:51" },
    "ReceiptNumber": { "#value": "12456789977" },
    "RetailTransactions": [
      {
        "LineItems": [
          {
            "Sale": {
              "ItemIDs": [
                {
                  "Name": "Nonalcoholic Beer",
                  "#value": "1010"
                }
              ],
              "ExtendedAmount": { "#value": 720 },
              "Quantities": [{ "#value": 6 }]
            },
            "SequenceNumbers": [ 1 ]
          },
          {
            "LoyaltyRedemption": {
              "Points Redeemed": [
                {
                  "Type": "Redeemed",
                  "#value": 100
                }
              ],
              "LoyaltyProgram": {
                "TypeCode": "Points",
                "LoyaltyProgramID": {
                  "Name": "Nakamura Tomonokai",
                  "#value": "8899zz"
                },
                "LoyaltyAccountID": { "#value": "79986YYY", "Level": "Platinum" }
              },
              "Amount": { "#value": 100 }
            },
            "SequenceNumbers": [ 2 ]
          },
          {
            "Tender": {
              "TenderType": "Cash",
              "Amount": { "#value": 669 }
            },
            "SequenceNumbers": [ 3 ]
          }
        ],
        "Totals": [
          {

```

```

        "TotalType": "Transaction
GrossAmount", "#value": 720
    },
    {
        "TotalType": "
TransactionNetAmount",
        "#value": 620
    },
    {
        "TotalType": "Transaction
GrandAmount", "#value": 669
    },
    {
        "TotalType": "
Transaction
TaxAmount", "#value":
49
    }
],
"LoyaltyAccounts": [
    {
        "CustomerID": "799886YYY",
        "LoyaltyAccount": {
            "ExpirationDate": "2020-06-15",
            "Points": [
                {
                    "Type": "PreviousPoints",
                    "#value": 600
                },
                {
                    "Type": "Redeemed",
                    "#value": 100
                },
                {
                    "Type": "PointsEarned",
                    "#value": 62
                },
                {
                    "Type": "Balance",
                    "#value": 562
                },
                {
                    "Type": "PointsExpiring",
                    "#value": 450
                }
            ],
            "PointsExpirations": [
                {
                    "ToBeExpiredPoints": { "#value": 562 },
                    "PointsExpirationDate": "2019-04-21"
                }
            ]
        }
    }
]
}

```

```

    }
  }
]

```

4.4.2 Digital receipt with payment by loyalty program point [JSON-13]

Convenience store		
Nakamura		
Customer receipt		
2016/03/15, 10:25, 12345677789		
Shiojiri station Store WWWXXXX		
Address: 〒399-0xxx		
Shiojiri City Hirooka 123-yyz		
Sales staff: Aki Yamamoto ID: 7898 www		
Nonalcoholic Beer	x 6	¥ 720
Tax		¥ 57
Total		¥ 777

Point payment		¥ 777

*** Nakamura Tomonokai ***		
*** Point information ***		
Initial Points		900
Points Redeemed		777
Points Awarded Amount		¥ 0
Points Awarded		0
Points Balance		123
Point Expiration Date	15/March/2019	
Points to be Expired		123
Nakamura Tomonokai ID:		8899zz
Mebershp No.:	799886www, Level:	Platinum

[JSON-13]

```

{
  "DigitalReceipt": {
    "MajorVersion": 3, "
    Transactions": [
      {
        "BusinessUnits": [
          {
            "UnitID": {
              "Name": "Shiojiri station Store",
              "#value": "WWWXXXX"
            },
            "Address": {
              "AddressLines": [ { "#value": "123-yyz" } ], "
              City": "Shiojiri City",
              "Territories": [ { "#value": "Hirooka" } ], "
              Postal Code": "399-0xxx"
            }
          }
        ]
      },
      {
        "Logo": {

```

```

    "LogoFormat": "PDF",
    "FileName": "www.myreceipts.com/123456789999"
  },
  "SequenceNumber": 50, "
  Operator IDs": [
    {
      "OperatorName": "Aki Yamamoto",
      "#value": "7898 www"
    }
  ],
  "ReceiptDateTime": { "#value": "2016-03-15T10:25:51" }, "
  ReceiptNumber": { "#value": "12345677789" },
  "RetailTransactions": [
    {
      "LineItems": [
        {
          "Sale": {
            "ItemIDs": [
              {
                "Name": "Nonalcoholic Beer",
                "#value": "1022585345677"
              }
            ],
            "ExtendedAmount": { "#value": 720 }, "
            Quantities": [ { "#value": 6 } ]
          },
          "SequenceNumbers": [ 1 ]
        },
        {
          "Tender": {
            "TenderType": "Loyalty", "
            LoyaltyRedemptions": [
              {
                "TypeCode": "Redemption",
                "PointsRedeemed": [ { "#value": 777 } ]
              }
            ]
          },
          "SequenceNumbers": [ 2 ]
        }
      ],
      "Totals": [
        {
          "Total Type": "Transaction Gross Amount",
          "#value": 720
        },
        {
          "Total Type": "Transaction Net Amount",
          "#value": 720
        },
        {

```


}

4.5 Digital receipt with advertisement added [JSON-14]

Convenience Nakamura Customer Receipt		
2016/05/04, 18:13, 123456789999		
Shiojiri station store WWWXXXX		
Address: 〒 999-x567		
Shiojiri City Hirooka 1234-zzz		
Salesperson: Ota Ozaki: 56784		
Nonalcoholic Beer	x6	¥ 720
Chewing gum	x2	¥ 240
Bottled green tea 200 ml	x1	¥ 180
"Matsumoto green tea"		
Paper diaper Mary's	x4	¥ 4000
Subtotal		¥ 5140
Tax		¥ 411

Total		¥ 5551
Cash		¥ 5551
Change		¥ 0

Matsumoto green tea latte
will be released next month!
Relax with a deep scent and gentle
sweetness
<http://matsumotogreentealatte.com/>



[JSON-14]

```
{
  "DigitalReceipt": {
    "MajorVersion": 3,
    "Transactions": [
      {
        "BusinessUnits": [
          {
            "UnitID": {
              "Name": "Shiojiri station store",
              "#value": "WWWXXXX"
            },
            "Address": {
              "AddressLines": [
                { "#value": "1234-zzz" },
                { "#value": "Shiojiri City Hirooka" }
              ],
              "PostalCode": "999-x567"
            }
          }
        ]
      }
    ]
  }
}
```

```

    }
  }
],
"Logo": {
  "LogoFormat": "BMP",
  "FileName": "conveninakamura.bmp"
},
"OperatorIDs": [
  {
    "OperatorName": "
    Ota Ozaki",
    "#value": "56784"

  }
],
"ReceiptDateTime": { "#value": "2016-05-04T18:13:51" },
"ReceiptNumber": { "#value": "123456789999" },
"RetailTransactions": [
  {
    "LineItems": [
      {
        "Sale": {
          "ItemIDs": [
            {
              "Name": "Nonalcoholic Beer",
              "#value": "1022585345677"
            }
          ],
          "ExtendedAmount": { "#value": 720 }, "
          Quantities": [ { "#value": 6 } ]
        },
        "SequenceNumbers": [ 1 ]
      },
      {
        "Sale": {
          "ItemIDs": [
            {
              "Name": "Chewing gum",
              "#value": "1223045899786"
            }
          ],
          "ExtendedAmount": { "#value": 240 }, "
          Quantities": [ { "#value": 2 } ]
        },
        "SequenceNumbers": [ 2 ]
      },
      {
        "Sale": {
          "ItemIDs": [
            {
              "Name": "Bottled green tea 200 ml ¥"Matsumoto green tea¥",
              "#value": "1056767893345"
            }
          ],
          "ExtendedAmount": { "#value": 180 }, "
          Quantities": [ { "#value": 1 } ]
        }
      }
    ]
  }
],

```

```

    "SequenceNumbers": [ 3 ]
  },
  {
    "Sale": {
      "ItemIDs": [
        {
          "Name": "Paper diaper Mary's",
          "#value": "1035354589032"
        }
      ],
      "ExtendedAmount": { "#value": 4000 }, "
      Quantities": [ { "#value": 4 } ]
    },
    "SequenceNumbers": [ 4 ]
  },
  {
    "Advertising": {
      "AdvertisingID": "123123", "
      Image Data": [
        {
          "TypeCode": "BMP",
          "base64Binary": "dkaoeie4"
        }
      ],
      "Texts": [
        "Matsumoto green tea latte",
        "will be released next month!",
        "Relax with a deep scent and gentle sweetness"
      ],
      "Barcodes":
      [ "¥¥u0034¥¥u0039¥¥u0030¥¥u0031¥¥u0032¥¥u0033¥¥u0034¥¥u0035¥¥u0036¥¥u0037
¥¥u0038 ¥¥u0039¥¥u0034" ],
      "URIs": [ "http://matsumotogreentealatte.com/" ]
    },
    "SequenceNumbers": [ 5 ]
  },
  {
    "Tender": {
      "TenderType": "Cash",
      "Amount": { "#value": 5551 }
    },
    "SequenceNumbers": [ 6 ]
  }
],
"Totals": [
  {
    "TotalType": "Transaction Gross Amount",
    "#value": 5140
  },
  {
    "TotalType": "Transaction Net Amount",
    "#value": 5140
  },
  {
    "TotalType": "Transaction Grand Amount",
    "#value": 5551
  }
],

```

```

    {
      "TotalType": "TransactionTaxAmount",
      "#value": 411
    }
  ]
}
]
}
]
}
}

```

4.6 Operator information, digital receipt with Invoice number attached by OES [JSON-15]

Cafe Ichigaya	
Customer Receipt	
2018/YY/ZZ, 9:23, 123456789999	
Ichigaya station store WWWXXXXX	
Phone 033-xxx-yzzz	
Address: 〒102-yyzz	
Chiyoda-ku Kudan 1-2-X, Tokyo	
Order: Hiroshi Imafuku, yyyzzz	
Cashier: Yoko Yamamoto, wwwaaa	
A Lunch set x 1	¥ 1080
B Lunch set x 1	¥ 1296
Subtotal	¥ 2376
(Consumption tax	¥ 176)

Total	¥ 2376

Cash	¥ 3000
Change	¥ 624
Checkout number: 122-1	
Invoice number: 4565 3545	
Customer ID: XXXXXYYYYYYZZZZ	
Customer Status: Platinum	

[JSON-15]

```

{
  "DigitalReceipt": {
    "MajorVersion": 3,
    "Transactions": [
      {
        "BusinessUnits": [
          {
            "UnitID": {
              "Name": "Ichigaya station store",
              "#value": "WWWXXXXX" },
            "Address": {
              "PostalCode": "102-yyzz",
              "AddressLines": [

```

```

        { "#value": "Tokyo" },
        { "#value": "Kudan 1-2-X" },
        { "#value": "Chiyoda-ku" }
      ]
    },
    "Telephone": {
      "AreaCode": "033",
      "LocalNumbers": [ "xxx-yzzz" ]
    }
  },
  "VATRegistrationNumber": "122-1" , "
  Operator IDs": [
    {
      "OperatorName": "Yoko Yamamoto", "
      Operator Type": "Cashier",
      "#value": "wwwaaa"
    },

    {
      "OperatorName": "Hiroshi Imafuku", "
      Operator Type": "Order Taker",
      "#value": "yyyyzz"
    }
  ],
  "ReceiptDate Time": { "#value": "2018-YY-ZZT09:23:00" }, "
  ReceiptNumber": { "#value": "123456789999" },
  "InvoiceNumbers": [
    { "#value": "4565" },
    { "#value": "3545" }
  ],
  "RetailTransactions": [
    {
      "LineItems": [
        {
          "Sale": {
            "ItemIDs": [
              {
                "Name": "A Lunch set",
                "#value": "123"
              }
            ]
          },
          "ExtendedAmount": { "#value": 1080 }
        },
        "SequenceNumbers": [ 1 ]
      ],
      {
        "Sale": {
          "ItemIDs": [
            {
              "Name": "B Lunch set",
              "#value": "124"
            }
          ]
        },
        "ExtendedAmount": { "#value": 1296 }
      },
      "SequenceNumbers": [ 2 ]
    },
    {

```

```

        "Tender": {
          "Amount": { "#value": 3000 },
          "TenderChanges": [{"Amount": { "#value": 624 }}]
        },
        "SequenceNumbers": [ 3 ]
      }
    ],
    "Totals": [
      {
        "TotalType": "TransactionGrossAmount",
        "#value": 2376
      },
      {
        "TotalType": "TransactionNetAmount",
        "#value": 2376
      },
      {
        "TotalType": "TransactionGrandAmount",
        "#value": 2376
      },
      {
        "TotalType": "TransactionTaxIncluded",
        "#value": 176
      }
    ],
    "Customers": [ { "CustomerID": "XXXXXXXXYYYYYZZZZ" } ], "
    LoyaltyAccounts": [
      {
        "LoyaltyPrograms": [
          {
            "LoyaltyProgramIDs": [{ "Name": "Ichigaya Club" }], "
            LoyaltyAccountID": {
              "Level": "Platinum",
              "#value": "44456yyy"
            }
          }
        ]
      }
    ]
  }
}

```

4.7 Digital receipt with group number, service charge, location information added [JSON-16]

Japanese cuisine restaurant		
Kudan		
Customer Receipt		
2016/04/07, 09:45:00, 123456789999		
Ichigaya Station Store WWWXXXXX		
Address: Chiyoda-ku Kudan 1 - Y - X		
Order Taker: Masako yyyzzz		
Bar Counter: Kazunori zzaabb		
Room: Bancho,		Party Size:2
Drink		
Beer	x1	¥ 650
Glass of wine red	x1	¥ 800
Sub Total		¥1450
(Consumption tax	(8%)	¥108)
Meal		
Matsukaze course	x 1	¥ 10800
Chidori course	x 1	¥ 8640
Subtotal		¥ 19440
(Consumption tax	(8%)	¥ 1440)

Service charge	(10%)	¥ 2089
Table charge	(10%)	¥ 2089
Subtotal		¥ 4178
(Consumption tax		¥ 309)

Total		¥ 25068
(Consumption tax	(8%)	¥ 1857)
Cash		¥ 30000
Change		¥ 4932
Customer ID: XXXXXYYYYYYZZZZ Platinum		
Cashier ID: Akira zzzzz		
Cashier No.:235-1		
Invoice number: 334456, 556690		

[JSON-16]

```
{
  "DigitalReceipt": {
    "M
    aj
    or
    V
```

```

er
si
o
n"
:
3,
"
Tr
an
sa
ct
io
ns
":
[
{
  "BusinessUnits": [
    {
      "UnitID": {
        "Name": "Ichigaya
Station Store", "#
value": "
WWWXXXX"
      },
      "Address": {
        "AddressLines": [
          { "#value": "Kudan 1 - Y - X" },
          { "#value": "Chiyoda-ku" }
        ]
      }
    }
  ],
  "
VATRegistrationNu
mber": "235-1", "
Logo": {
  "LogoFormat": "BMP",
  "FileName": "CulinaryRestaurantKudan.bmp"
},
  "POSLogDateTimes": [
    { "#value": "2016-04-07T09:45:00" }
  ],
  "OperatorIDs": [
    {
      "OperatorName": "Akira",
      "OperatorType": "Cashier",
      "#value": "zzzzz"
    },
    {
      "OperatorName": "Masako",
      "OperatorType": "OrderTaker",
      "#value": "yyyyzz"
    },
    {
      "OperatorName": "Kazunori",
      "OperatorType": "BarTender",
      "#value": "zzaabb"
    }
  ]
}
]

```

```

    }
  ],
  "ReceiptDateTime": { "#value": "2016-04-07T09:45:00" }, "
  ReceiptNumber": { "#value": "123456789999" },
  "InvoiceNumbers": [
    { "#value": "334456" },
    { "#value": "556690" }
  ],
  "RetailTransactions": [
    {
      "LineItems": [
        {
          "Sale": {
            "ItemIDs": [
              {
                "Name": "Beer",
                "#value": "DBBB33 "
              }
            ],
            "ExtendedAmount": { "#value": 650 }, "
            Quantities": [{ "#value": 1 }]
          },
          "SequenceNumbers": [ 1 ]
        },
        {
          "Sale": {
            "ItemIDs": [
              {
                "Name": "Glass of wine red",
                "#value": "DWRR 11"
              }
            ],
            "ExtendedAmount": { "#value": 800 }, "
            Quantities": [{ "#value": 1 }]
          },
          "SequenceNumbers": [ 2 ]
        },
        {
          "Sale": {
            "ItemIDs": [
              {
                "Name": "Matsukaze course",
                "#value": "RCCC22 "
              }
            ],
            "ExtendedAmount": {
              "#value": 10800 }, "
            Quantities": [{ "#value":
              1 }]
          },
          "SequenceNumbers": [ 3 ]
        },
        {
          "Sale": {
            "ItemIDs": [
              {
                "Name": "Chidori course",
                "#value": "RCCC41 "
              }
            ]
          }
        }
      ]
    }
  ]
}

```

```

    }
  ],
  "ExtendedAmount": { "#value": 8640 }, "
  Quantities": [{ "#value": 1 }]
},
"SequenceNumbers": [ 4 ]
},
{
  "Sale": {
    "ItemType": "Service",
    "ItemSubType": "ServiceCharge", "
    ItemIDs": [
      {
        "Name": "Service charge(10%)",
        "#value": "SC 311"
      }
    ],
    "ExtendedAmount": { "#value": 2089 }
  },
  "SequenceNumbers": [ 5 ]
},
{
  "Sale": {
    "ItemType": "Service",
    "ItemSubType": "RoomCharge", "
    ItemIDs": [
      {
        "Name": "Table charge(10%)",
        "#value": "TBC 123 "
      }
    ],
    "ExtendedAmount": { "#value": 2089 }
  },
  "SequenceNumbers": [ 6 ]
},
{
  "Tender": {
    "Amount": { "#value": 30000 }, "
    Tender Changes": [
      {
        "TenderType": "Cash",
        "Amount": { "#value": 4932 }
      }
    ]
  },
  "SequenceNumbers": [ 7 ]
}
],
"Totals": [
  {
    "TotalType": "Transaction DineInAmount",
    "#value": 20890
  },
  {
    "TotalType": "Transaction Service Fee Amount",
    "#value": 4178
  }
]

```

```

    },
    {
      "TotalType": "TransactionGrossAmount",
      "#value": 20890
    },
    {
      "TotalType": "TransactionNetAmount",
      "#value": 25068
    },
    {
      "TotalType": "TransactionGrandAmount",
      "#value": 25068
    },
    {
      "TotalType": "TransactionTaxIncluded",
      "#value": 1857
    }
  ],
  "LoyaltyAccounts": [
    {
      "LoyaltyPrograms": [
        {
          "LoyaltyProgramIDs": [{ "Name": "Kudan Tomonokai" }], "
          LoyaltyAccountID": {
            "Level": "Platinum",
            "#value": "XXXXXXXXYYYYZZZZ"
          }
        }
      ]
    }
  ],
  "Foodservices": [
    {
      "TableIDs": [ "Bancho" ],
      "SeatIDs": [ "5" ],
      "PartySize": 2
    }
  ]
}

```

4.8 Digital receipt using Prepaid type gift card

4.8.1 Digital receipt with and expiration date renewed with card to gift card [JSON-17]

Oishii burger	
Customer Receipt	
2016/05/11 17:15 No.123456789999	
Hirayama store YYYYWWXX	
Address: 〒 399-pppp	
Matsumoto-shi Hirayama 3-4-Z	
Phone number: 0263-zzY-XXXX	
Sales staff: Yumiko Tanaka uuzz	

Oishii burger card charge	
Cash payment	¥ 2000

Total	¥ 2000
Change	¥ 0

Initial Card Balance	¥ 725
Card Balance	¥ 2725
Card number: ***** 4567	
Expiration date 2018/05/11	
Customer ID: XXXXXYYYYYYZZZ	

[JSON-17]

```
{
  "DigitalReceipt": {
    "MajorVersion": 3,
    "Transactions": [
      {
        "BusinessUnits": [
          {
            "UnitID": {
              "Name": "Hirayama store",
              "Type Code": "RetailStore",
              "value": "YYYYWWXX"
            },
            "Address": {
              "AddressType": "RetailStore",
              "Postal Code": "399-pppp",
              "AddressLines": [
                { "#value": "Hirayama 3-4-Z" },
                { "#value": "Matsumoto-shi" }
              ]
            },
            "Telephone": {
              "Area Code": "0263",
              "LocalNumbers": [ "zzY-XXXX" ]
            }
          }
        ],
        "OperatorIDs": [
```

```

    {
      "OperatorName": "Yumiko Tanaka", "
      Operator Type": "Cashier",
      "#value": "uuzz"
    }
  ],
  "ReceiptDate Time": { "#value": "2016-05-11T17:15:00" }, "
  Receipt Number": { "#value": "123456789999"},
  "RetailTransactions": [
    {
      "LineItems": [
        {
          "StoredValueFundSale": { "
          Action": "Recharge",
          "ItemIDs": [
            {
              "Name": "Oishii burger card",
              "#value": "***** 4567"
            }
          ],
          "ExtendedAmount": { "#value": 2000 }
        },
        {
          "SequenceNumbers": [ 1 ]
        },
        {
          "Tender": {
            "Tender Type": "Cash",
            "Amount": { "#value": 2000 },
            "GiftCards": [
              {
                "CardNumber": "***** 4567", "
                ExpirationDate": "2018-05-11",
                "InitialBalance": { "#value": 725 },
                "CurrentBalance": { "#value": 2725 }
              }
            ]
          },
          {
            "SequenceNumbers": [ 2 ]
          }
        }
      ],
      "Totals": [
        {
          "Total Type": "Transaction Gross Amount",
          "#value": 2000
        },
        {
          "Total Type": "Transaction Net Amount",
          "#value": 2000
        },
        {
          "Total Type": "Transaction Grand Amount",
          "#value": 2000
        },
        {
          "Total Type": "Transaction Tax Amount",
          "#value": 0
        }
      ]
    }
  ]
}

```

```

    }
  ]
}

```

4.8.2 Digital Receipt Paid with Charged Gift Card [JSON-18]

Oishii burger		
Customer Receipt		
2016/05/15 18: 05 No. 123456789999		
Hirayama store YYYWWXX		
Address: 〒 399-pppp		
Matsumoto-shi Hirayama 3-4-Z		
Phone number: 0263-zzY-XXXX		
Salesperson: Yamashita Aya ywzw		
Blended coffee S	X1	¥ 300
Oishii card discount	X1	-¥ 30
Total		¥ 270
(Tax (8%))		¥ 20)

Oishii Card Payment		¥270
(Tax(8%))		¥ 20)
Change		¥ 0

Oishii Card Initial Balance		2725
Oishii Card Current Balance		2455
Card number: ***** 4567		
Expiration date 2018/05/15		
Customer ID: XXXXXYYYYYYZZZZ		

[JSON-18]

```

{
  "DigitalReceipt": {
    "MajorVersion": 3, "
    Transactions": [
      {
        "BusinessUnits": [
          {
            "UnitID": {
              "Name": "Hirayama store", "
              Type Code": "RetailStore", "#
              value": "YYYWWXX"
            },

```

```

    "Address": {
      "AddressType": "RetailStore", "
      AddressLines": [
        { "#value": "Hirayama 3-4-Z" },
        { "#value": "Matsumoto-shi" }
      ],
      "PostalCode": "399-pppp"
    },
    "Telephone": {
      "AreaCode": "0263",
      "LocalNumbers": [ "zzY-XXXX" ]
    }
  },
  "OperatorIDs": [
    {
      "OperatorName": "Yamashita Aya", "
      OperatorType": "Cashier",
      "#value": "yww"
    }
  ],
  "ReceiptDateTime": { "#value": "2016-05-15T18:05:00" }, "
  ReceiptNumber": { "#value": "123456789999" },
  "RetailTransactions": [
    {
      "LineItems": [
        {
          "Sale": {
            "ItemIDs": [
              {
                "Name": "Blended coffee S",
                "#value": "678966"
              }
            ],
            "ExtendedAmount": { "#value": 270 }, "
            Quantities": [ { "#value": 1 } ],
            "RetailPriceModifiers": [
              {
                "MethodCode": "TargetedOffer", "
                SequenceNumber": 1,
                "Amount": {
                  "Action": "Subtract",
                  "#value": 30
                }
              }
            ]
          }
        }
      ],
      "SequenceNumbers": [ 2 ]
    },
    {
      "Tender": {
        "TenderType": "GiftCard",
        "Amount": { "#value": 270 },
        "GiftCards": [
          {
            "CardNumber": "**** 4567",
            "ExpirationDate": "2018-05-15",
            "InitialBalance": { "#value": 2725 }, "
            CurrentBalance": { "#value": 2455 }
          }
        ]
      }
    }
  ]
}

```


4.8.3 Digital receipt paid by gift card without change [JSON-19]

Teishokuya		
Customer Receipt		
2016/05/15 18:05:00 No. 1234567777		
Yotsuya xxxXX		
Address: 〒 102 - cccc		
Chiyoda-ku Kudan Z - Y - w		
Phone number: 033-zzY-ZZZZ		
Salesperson: Yamashita UU ywzw		
Lunch set 6678XX	X1	¥ 730
Total		¥ 730
(Tax		¥ 54)

"Teishokuya" Gift Certificate		¥ 1000
Gift Certificate No. Zzzzzyyyyy		
Change		¥ 0

[JSON-19]

```
{
  "DigitalReceipt": {
    "MajorVersion": 3,
    "Transactions": [
      {
        "BusinessUnits": [
          {
            "UnitID": {
              "Name": "Yotsuya",
              "TypeCode": "RetailStore"
```

```

        ", "#
        value": "
        xxxXX"
    },
    "Address": {
        "Address
        Type": "
        RetailStore",
        "Postal Code":
        "102 - cccc",
        "AddressLines": [
            { "#value": "Kudan Z - Y - w" },
            { "#value": "Chiyoda-ku" }
        ]
    },
    "Telephone": {
        "Area Code": "033",
        "LocalNumbers": [ "zzY-ZZZZ" ]
    }
},
"OperatorIDs": [
    {
        "OperatorName": "
        Yamashita UU",
        "#value": "ywzw"
    }
],
"ReceiptDateTime": { "#value": "2016-05-
15T18:05:00" }, "ReceiptNumber": {
"#value": "1234567777" },
"RetailTransactions": [
    {
        "LineItems": [
            {
                "Sale": {
                    "ItemIDs": [
                        {
                            "Name": "Lunch set",
                            "#value": "6678XX"
                        }
                    ]
                },
                "ExtendedAmount": { "#value": 730 }, "
                Quantities": [ { "#value": 1 } ],
                "Foodservice": { "DestinationType": "DineIn" }
            },
            "SequenceNumbers": [ 1 ]
        ],
        {
            "Tender": {
                "TenderType": "GiftCard", "
                Type Code": "Sale",
                "Amount": { "#value": 730 },
                "Vouchers": [
                    {
                        "TypeCode": "GiftCertificate",
                        "Face Value Amount": { "#value": 1000 }, "

```


4.9 Digital receipt which purchased goods of eat-in · to-go

4.9.1 Digital receipt that purchased eat-in · to-go items together [JSON-20]

Coffee Shop		
A hill		
Okahiro Station store zzz7899		
Customer Receipt		
〒 909-aaa		
Shiota City, Hara 90		
Phone number: 0263-zzz-yyzz		
Cashier: Okada Mamoru 665zz		
Invoice number: 485567		
Receipt No. 124566		
November 22, 2016 10:30		
Eat-in		
Blended coffee S	x 1	¥ 220
Iced coffee S	x 1	¥ 280
To-go		
Mix sand M	x 2	¥ 660
Iced coffee S	x 1	¥ 280

Eat in subtotal		¥ 500
(Consumption tax (8%))		(¥ 37)
Takeout subtotal		¥ 940
(Consumption tax (8%))		(¥ 70)

Total		¥1440
(Consumption tax (8%))		(¥ 107)
Credit Card Amount		¥1440
Credit Card No. :		*****xxyy

[JSON-20]

```
{
  "DigitalReceipt": {
    "MajorVersion": 3, "
    Transactions": [
      {
        "BusinessUnits": [
          {
            "UnitID": {
              "Name": "Okahiro Station store", "
              Type Code": "RetailStore",
              "#value": "zzz7899"
            },
            "Address": {
              "AddressType": "RetailStore", "
              Postal Code": "909-aaa",
```

```

        "AddressLines": [
            { "#value": "Hara 90" },
            { "#value": "Shiota City" }
        ],
        "Telephone": {
            "AreaCode": "0263",
            "LocalNumbers": [ "zzz-yyzz" ]
        }
    },
    "ReceiptDateTime": { "#value": "2016-11-22T10:30:00" }, "
    ReceiptNumber": { "#value": "124566" },
    "InvoiceNumbers": [ { "#value": "485567" } ], "
    Operator IDs": [
        {
            "OperatorName": "Okada Mamoru", "
            Operator Type": "Cashier",
            "#value": "665zz"
        }
    ],
    "RetailTransactions": [
        {
            "LineItems": [
                {
                    "Sale": {
                        "ItemIDs": [
                            {
                                "Name": "Blended coffee S",
                                "#value": "678966 "
                            }
                        ],
                        "ExtendedAmount": {
                            "#value": 220 }, "
                        Quantities": [ { "#
                            value": 1 } ],
                        "Foodservice": { "DestinationType": "Dine In" }
                    },
                    "SequenceNumbers": [ 1 ]
                },
                {
                    "Sale": {
                        "ItemIDs": [
                            {
                                "Name": "Iced coffee S",
                                "#value": "554433"
                            }
                        ],
                        "ExtendedAmount": { "#value": 280 }, "
                        Quantities": [ { "#value": 1 } ],
                        "Foodservice": { "DestinationType": "Dine In" }
                    },
                    "SequenceNumbers": [ 2 ]
                },
                {
                    "Sale": {
                        "ItemIDs": [
                            {

```

```

        "Name": "Mix sand M",
        "#value": "789956"
    }
},
"ExtendedAmount": { "#value": 660 }, "
Quantities": [ { "#value": 2 } ],
"Foodservice": { "DestinationType": "ToGo" }
},
"SequenceNumbers": [ 3 ]
},
{
    "Sale": {
        "ItemIDs": [
            {
                "Name": "Iced coffee S",
                "#value": "554433"
            }
        ],
        "ExtendedAmount": { "#value": 280 }, "
        Quantities": [ { "#value": 1 } ],
        "Foodservice": { "DestinationType": "ToGo" }
    },
    "SequenceNumbers": [ 4 ]
},
{
    "Tender": {
        "TenderType": "Credit Debit", "
        Amount": { "#value": 1440 }, "
        CreditDebits": [
            {
                "TypeCode": "Visa",
                "PrimaryAccountNumber": { "#value": "*****xxyy" }
            }
        ]
    },
    "SequenceNumbers": [ 5 ]
}
],
"Totals": [
    {
        "TotalType": "Transaction Dine In Amount",
        "#value": 500
    },
    {
        "TotalType": "Transaction Dine In Tax Amount",
        "#value": 37
    },
    {
        "TotalType": "Transaction ToGo Amount",
        "#value": 940
    },
    {
        "TotalType": "Transaction ToGo Tax Amount",
        "#value": 70
    },
    {
        "TotalType": "Transaction Grand Amount",

```

4.9.2 Digital receipt charged to midnight fee (10%) for eat-in [JSON-21]

[JSON-21]

Digital Receipt Format Specification JSON Version, v1.0

```

or
Ver
si
o
n"
:
3,
"
Tr
an
sa
ct
io
ns
":
[
{
  "BusinessUnits": [
    {
      "UnitID": {
        "Name": "
Okahiro Station
store", "Type
Code": "
RetailStore",
"#value": "zzz7899"
      },
      "Address": {
        "Address
Type": "
RetailStore",
        "Postal Code":
        "909-zzz",
        "AddressLines": [
          { "#value": "Hara 90" },
          { "#value": "Shiota City" },
          { "#value": "Nagano-ken" }
        ]
      },
      "Telephone": {
        "Area Code": "0263",
        "LocalNumbers": [ "zzz-yyzz" ]
      }
    }
  ],
  "OperatorIDs": [
    {
      "OperatorName": "
Okada Mamoru", "
Operator Type": "
Cahier",
      "#value": "665zz"
    }
  ],
  "ReceiptDateTime": { "#value": "2016-11-
22T22:30:00"}, "ReceiptNumber": {
"#value": "124566" },

```

```

"InvoiceNumbers": [ {
"#value": "485567" } ], "Retail
Transactions": [
{
  "LineItems": [
    {
      "Sale": {
        "ItemIDs": [
          {
            "Name": "
            Blended coffee
            S", "#value": "
            678966 "
          }
        ],
        "ExtendedAmount": {
          "#value": 220 }, "
        Quantities": [ { "#
        value": 1 } ],
        "Foodservice": { "DestinationType": "Dine In" }
      },
      "SequenceNumbers": [ 1 ]
    },
    {
      "Sale": {
        "ItemIDs": [
          {
            "Name":
            "Iced
            coffee
            S",
            "#value
            ": "
            554433"
          }
        ],
        "ExtendedAmount": {
          "#value": 280 }, "
        Quantities": [ { "#
        value": 1 } ],
        "Foodservice": { "DestinationType": "Dine In" }
      },
      "SequenceNumbers": [ 2 ]
    },
    {
      "Sale": {
        "ItemIDs": [
          {
            "Name":
            "Mix
            sand
            M",
            "#value
            ": "
            789956"
          }
        ],
        "ExtendedAmount": {
          "#value": 660 }, "

```

```

        Quantities": [ { "#
value": 2 } ],
        "Foodservice": { "DestinationType": "ToGo" }
    },
    "SequenceNumbers": [ 3 ]
},
{
    "Sale": {
        "ItemIDs": [
            {
                "Name":
                "Iced
                coffee
                S",
                "#value
                ": "
                554433"
            }
        ],
        "ExtendedAmount": {
            "#value": 280 }, "
        Quantities": [ { "#
value": 1 } ],
        "Foodservice": { "DestinationType": "ToGo" }
    },
    "SequenceNumbers": [ 4 ]
},
{
    "Sale": {
        "ItemType": "Service",
        "ItemSubType": "
        ServiceCharge", "
        ItemIDs": [
            {
                "Name": "Service fee (late-
                night fee)", "#value": "SC 10 "
            }
        ],
        "ExtendedAmount":
        { "#value": 50 }, "
        ItemLinks": [ 1, 2 ],
        "Foodservice": { "DestinationType": "DineIn" }
    },
    "SequenceNumbers": [ 5 ]
},
{
    "Tender": {
        "TenderType": "Credit Debit", "
        Amount": { "#value": 1490 }, "
        CreditDebits": [
            {
                "TypeCode": "Visa",
                "PrimaryAccountNumber": { "#value": "*****xxyy" }
            }
        ]
    },
    "SequenceNumbers": [ 6 ]
}

```

```

    }
  ],
  "Totals": [
    {
      "TotalType": "TransactionDineInAmount",
      "#value": 500
    },
    {
      "TotalType": "TransactionDineInTaxAmount",
      "#value": 37
    },
    {
      "TotalType": "TransactionServiceFeeAmount",
      "#value": 50
    },
    {
      "TotalType": "TransactionServiceFeeTaxAmount", "#value": 4
    },
    {
      "TotalType": "TransactionToGoAmount",
      "#value": 940
    },
    {
      "TotalType": "TransactionToGoTaxAmount",
      "#value": 70
    },
    {
      "TotalType": "TransactionGrandAmount",
      "#value": 1490
    },
    {
      "TotalType": "TransactionTaxIncluded",
      "#value": 111
    }
  ]
}

```

4.9.3 Digital receipt in which eat-in includes mixed items subject to late-night charges and non-target items [JSON-22]

Coffee Shop		
A hill		
Okahiro Station store zzz7899		
Customer Receipt		
〒 909-zzz		
Nagano-ken Shiota City, Hara 90		
Phone number: 0263-zzz-yyzz		
Cashier: Okada Mamoru 665zz		
Invoice number: 485567		
Receipt No. 124566		
November 22, 2016 22: 30		
Eat-in		
Blended coffee S	x 1	¥ 220
*Iced coffee S	x 1	¥ 280
To-go		
Mix sand M	x 2	¥ 660
Iced coffee S	x 1	¥ 280

Eat in Subtotal		¥ 500
(Consumption tax (8%))		(¥ 37)
To-go Subtotal		¥ 940
(Consumption tax (8%))		(¥ 70)
Service fee Subtotal		
(*late night charge)		¥ 28
(Consumption tax (8%))		(¥ 2)

Total		¥ 1468
(Consumption tax (8%))		(¥ 109)
Credit Card Amount		¥ 1468
Credit number: *****xxyy		
*Items Subject to late night charge		

[JSON-22]

```
{
  "DigitalReceipt": {
    "M
aj
or
```

```

V
er
si
o
n"
:
3,
"
Tr
an
sa
ct
io
ns
":
[
  {
    "BusinessUnits": [
      {
        "UnitID": {
          "Name": "
Okahiro Station
store", "Type
Code": "
RetailStore",
"#value": "zzz7899"
        },
        "Address": {
          "AddressType": "RetailStore",
          "Postal
Code": "
909-
zzz", "
Address
Lines": [
            { "#value": "Hara 90" },
            { "#value": "Shiota City" },
            { "#value": "Nagano-ken" }
          ]
        },
        "Telephone": {
          "AreaCode": "0263",
          "LocalNumbers": [ "zzz-yyzz" ]
        }
      }
    ],
    "OperatorIDs": [
      {
        "OperatorName": "
Okada Mamoru", "
OperatorType": "
Cashier",
"#value": "665zz"
      }
    ],
    "ReceiptDateTime": { "#value": "2016-11-
22T22:30:00" }, "ReceiptNumber": {
"#value": "124566" },

```

```

"InvoiceNumbers": [ {
"#value": "485567" } ], "Retail
Transactions": [
{
  "LineItems": [
    {
      "Sale": {
        "ItemIDs": [
          {
            "Name": "
            Blended coffee
            S", "#value": "
            678966 "
          }
        ],
        "ExtendedAmount": {
          "#value": 220 }, "
        Quantities": [ { "#
        value": 1 } ],
        "Foodservice": { "DestinationType": "Dine In" }
      },
      "SequenceNumbers": [ 1 ]
    },
    {
      "Sale": {
        "ItemIDs": [
          {
            "Name":
            "Iced
            coffee
            S",
            "#value
            ": "
            554433"
          }
        ],
        "ExtendedAmount": {
          "#value": 280 }, "
        Quantities": [ { "#
        value": 1 } ],
        "Foodservice": { "DestinationType": "Dine In" }
      },
      "SequenceNumbers": [ 2 ]
    },
    {
      "Sale": {
        "ItemIDs": [
          {
            "Name": "Mix sand M",
            "#value": "789956"
          }
        ],
        "ExtendedAmount": {
          "#value": 660 }, "
        Quantities": [ { "#
        value": 2 } ],
        "Foodservice": { "DestinationType": "ToGo" }
      }
    }
  ]
}

```

```

    },
    "SequenceNumbers": [ 3 ]
  },
  {
    "Sale": {
      "ItemIDs": [
        {
          "Name":
            "Iced
            coffee
            S",
          "#value":
            "554433"
        }
      ],
      "ExtendedAmount": {
        "#value": 280 }, "
      Quantities": [ { "#
        value": 1 } ],
      "Foodservice": { "DestinationType": "ToGo" }
    },
    "SequenceNumbers": [ 4 ]
  },
  {
    "Sale": {
      "ItemType": "Service",
      "ItemSubType": "
      Service Charge", "
      ItemIDs": [
        {
          "Name": "late
            night charge",
          "#value": "SC 10
            "
        }
      ],
      "ExtendedAmount":
        { "#value": 28 }, "
      ItemLinks": [ 2 ],
      "Foodservice": { "DestinationType": "Dine In" }
    },
    "SequenceNumbers": [ 5 ]
  },
  {
    "Tender": {
      "TenderType": "Credit Debit", "
      Amount": { "#value": 1468 }, "Credit Debits": [
        {
          "TypeCode": "Visa",
          "PrimaryAccountNumber": { "#value": "*****xxyy"}
        }
      ]
    },
    "SequenceNumbers": [ 6 ]
  }
],
"Totals": [
  {

```


4.9.4 Digital receipt that purchased products with different tax rates [JSON-23]

Coffee Shop A hill Okahiro Station store zzz7899 Customer Receipt 〒 909-zzz Nagano-ken Shiota City, Hara 90 Phone number: 0263-zzz-yyzz Cashier: Okada Mamoru 665zz Invoice number: 485567 Receipt No. 124566 November 22, 2016 22:30		
Eat-in		
Blended coffee S	x1	¥ 224
Iced coffee S	x1	¥ 285
To-go		
*Mix sandwich M	x2	¥ 660
*Iced coffee S	x1	¥ 280

Eat-in Subtotal		¥ 509
(Consumption tax(10%))		(¥ 46)
To-go SubTotal		¥ 940
(Consumption tax (8%))		(¥ 70)

Total		¥ 1449
(Consump.tax (8%,10%))		(¥ 116)
Credit Card Amount		¥ 1449
Credit number: *****	xyy	
*Subject to reduced tax rate		

[JSON-23]

```
{
  "DigitalReceipt": {
    "M
    aj
    or
    V
    er
    si
    o
```

```

n"
:
3,
"
Tr
an
sa
ct
io
ns
":
[
  {
    "BusinessUnits": [
      {
        "UnitID": {
          "Name": "
Okahiro Station
store", "Type
Code": "
RetailStore",
"#value": "zzz7899"
        },
        "Address": {
          "Address
Type": "
RetailStore",
          "Postal Code":
            "909-zzz",
          "AddressLines": [
            { "#value": "Hara 90" },
            { "#value": "Shiota City" },
            { "#value": "Nagano-ken" }
          ]
        },
        "Telephone": {
          "Area Code": "0263",
          "LocalNumbers": [ "zzz-yyzz" ]
        }
      }
    ],
    "OperatorIDs": [
      {
        "OperatorName": "
Okada Mamoru", "
Operator Type": "
Cashier",
        "#value": "665zz"
      }
    ],
    "ReceiptDate Time": { "#value": "2016-11-
22T22:30:00" }, "ReceiptNumber": {
      "#value": "124566" },
    "InvoiceNumbers": [ { "#value": "485567" } ],
    "RetailTransactions": [
      {

```

```

"LineItems": [
  {
    "Sale": {
      "ItemIDs": [
        {
          "Name": "
          Blended coffee
          S", "#value": "
          678966 "
        }
      ],
      "ExtendedAmount": {
        "#value": 224 }, "
      Quantities": [ { "#
      value": 1 } ],
      "Taxes": [
        {
          "TaxType":
          "
          Consumpti
          on", "
          Percent":
          10
        }
      ],
      "Foodservice": { "DestinationType": "Dine In" }
    },
    "SequenceNumbers": [ 1 ]
  },
  {
    "Sale": {
      "ItemIDs": [
        {
          "Name":
          "Iced
          coffee
          S",
          "#value
          ": "
          554433"
        }
      ],
      "ExtendedAmount": {
        "#value": 285 }, "
      Quantities": [ { "#
      value": 1 } ],
      "Taxes": [
        {
          "TaxType":
          "
          Consumpti
          on", "
          Percent":
          10
        }
      ],
      "Foodservice": { "DestinationType": "Dine In" }
    },
  },

```

```

    "SequenceNumbers": [ 2 ]
  },
  {
    "Sale": {
      "ItemIDs": [
        {
          "Name": "Mix sandwich M",
          "#value": "789956"
        }
      ],
      "ExtendedAmount": { "#value": 660 },
      "Quantities": [ { "#value": 2 } ],
      "Taxes": [
        {
          "TaxType": "Consumption",
          "Percent": 8
        }
      ],
      "Foodservice": { "DestinationType": "ToGo" }
    },
    "SequenceNumbers": [ 3 ]
  },
  {
    "Sale": {
      "ItemIDs": [
        {
          "Name": "Iced coffee S",
          "#value": "554433"
        }
      ],
      "ExtendedAmount": { "#value": 280 },
      "Quantities": [ { "#value": 1 } ],
      "Taxes": [
        {
          "TaxType": "Consumption",
          "Amount": { "#value": 100 },
          "Percent": 8
        }
      ],
      "Foodservice": { "DestinationType": "ToGo" }
    },
    "SequenceNumbers": [ 4 ]
  },
  {
    "Tender": {
      "Tender Type": "Credit Debit", "
      Amount": { "#value": 1449 }, "Credit Debits": [
        {
          "TypeCode": "Visa",
          "PrimaryAccountNumber": { "#value": "***** xxyy" }
        }
      ]
    },
    "SequenceNumbers": [ 5 ]
  }
],
"Totals": [

```


4.9.5 Digital receipt with return (cancellation) written [JSON-24]

Curry shop IKOI Ichigaya store AAAABB Receipt 〒1YY-zzaa 1-2-3 Ichigaya-ku, Tokyo Phone 033 - zzz - Yzzz April 7, 2016 9: 45 Receipt No. 23456 Document No. 567788 669897 Cashier: Yamada Semel zaa 88 z OrderTaker: Yama Takako yyyaa Curry and rice x1 ￥ 500 Ramen x1 ￥ 300 Hamburger rice x1 ￥ 700 Ramen x1 ￥ 300 Total x2 ￥1200 (Consumptiontax(8%)) (￥ 89) Cash ￥ 2000 Change ￥ 800		
Curry shop IKOI Ichigaya store AAAABB Receipt 〒1YY-zzaa 1-2-3 Ichigaya-ku, Tokyo Phone 033 - zzz - Yzzz April 7, 2016 9: 45 Receipt No. 23456 Document No. 567788 669897 Cashier: Yamada Semel zaa 88 z OrderTaker: Yama Takako yyyaa Curry and rice x1 ￥ 500 Ramen x1 ￥ 300 Hamburger rice x1 ￥ 700 Ramen -1 ￥ 300 ----- Total x2 ￥1200 (Consumption tax(8%)) (￥ 89) Cash ￥ 2000 Change ￥ 800		

[JSON-24]

```
{
  "DigitalReceipt": {
    "MajorVersion": 3,
    "Transactions": [
      {
        "BusinessUnits": [
          {
            "UnitID": {
              "Name": "Ichigaya store",
              "#value": "AAAABB"
            },
            "Address": {
              "PostalCode": "1YY-zzaa",
              "AddressLines": [
                { "#value": "1-2-3 Ichigaya-ku" },
                { "#value": "Tokyo" }
              ]
            },
            "Telephone": {
              "AreaCode": "033",
              "LocalNumbers": [ "zzz-Yzzz" ]
            }
          }
        ]
      }
    ]
  },
}
```

```

"OperatorIDs": [
  {
    "OperatorName": "Yamada Semel",
    "OperatorType": "Cashier",
    "#value": "zaa 88 z"
  },
  {
    "OperatorName": "Yama Takako",
    "OperatorType": "Order Taker",
    "#value": "yyyyaa"
  }
],
"ReceiptDateTime": { "#value": "2016-04-07T09:45:00" },
"ReceiptNumber": { "#value": "23456" },
"InvoiceNumbers": [ { "#value": "567788" }, { "#value": "669897" } ],
"RetailTransactions": [
  {
    "LineItems": [
      {
        "Sale": {
          "ItemIDs": [
            {
              "Name": "Curry and rice",
              "#value": "KK 444"
            }
          ],
          "ExtendedAmount": { "#value": 500 },
          "Quantities": [ { "#value": 1 } ]
        },
        "SequenceNumbers": [ 1 ]
      },
      {
        "Sale": {
          "ItemIDs": [
            {
              "Name": "Ramen",
              "#value": "RM 44"
            }
          ],
          "ExtendedAmount": { "#value": 300 },
          "Quantities": [ { "#value": 1 } ]
        },
        "SequenceNumbers": [ 2 ]
      },
      {
        "Sale": {
          "ItemIDs": [
            {
              "Name": "Hamburger rice",
              "#value": "HHB 23"
            }
          ],
          "ExtendedAmount": { "#value": 700 },
          "Quantities": [ { "#value": 1 } ]
        },
        "SequenceNumbers": [ 3 ]
      },
      {
        "Return": {

```


4.10 Digital receipts purchased two types of products with different tax rates according to the reduced tax rate [JSON-25]

Supermarket Okada		
Okahiro Station store zzz7899		
Customer Receipt		
〒 909- zzz		
Shiota City, Hara 90th		
Phone number: 0263-zzz-yyzz		
Cashier: Okada		
Receipt No. 124566		
November 22, 2018 10: 30		
*Sasanishiki 5 Kg	x1	¥ 2980
Mary's laundry detergent		
	x1	¥ 550

10% Tax applied subtotal		¥ 550
(Consumption tax (10%))		(¥ 50)
8% Tax applied subtotal		¥ 2980
(Consumption tax (8%))		(¥ 220)

Total		¥ 3530
(Consumption tax (8%, 10%))		(¥ 270)
Cash		¥ 10030
Change		¥ 6500
Customer ID: XXXXXYYYYYZZZZ		
Business number XXX - XXX		
* Subject to reduced tax rate		

[JSON-25]

```
{
  "DigitalReceipt": {
    "MajorVersion": 3,
    "Transactions": [
      {
        "BusinessUnits": [
          {
            "UnitID": {
              "Name": "Okahiro Station store",
              "#value": "zzz 7899"
            },
            "Address": {
              "PostalCode": "909-zzz",
              "AddressLines": [
                { "#value": "Hara 90th" },
                { "#value": "Shiota City" }
              ]
            },
            "Telephone": {
              "AreaCode": "0263",
              "LocalNumbers": [ "zzz-yyzz" ]
            }
          }
        ]
      }
    ]
  }
}
```

```

    }
  }
],
"Logo": {
  "LogoFormat": "BMP",
  "FileName": "superokadaLogo.bmp"
},
"OperatorIDs": [
  { "OperatorName": "Okada" },
  { "OperatorType": "Cashier" }
],
"VATRegistrationNumber": "XXX - XXX",
"ReceiptDateTime": { "#value": "2018-11-22T10:30:00" },
"ReceiptNumber": { "#value": "124566" },
"RetailTransactions": [
  {
    "LineItems": [
      {
        "Sale": {
          "ItemIDs": [
            {
              "Name": "Sasanishiki 5 Kg",
              "#value": "678966"
            }
          ],
          "ExtendedAmount": { "#value": 2980 }, "
          Quantities": [ { "#value": 1 } ],
          "Taxes": [
            {
              "TaxType": "Consumption",
              "Amount": { "#value": 220 },
              "Percent": 8
            }
          ]
        }
      }
    ],
    "SequenceNumbers": [ 1 ]
  },
  {
    "Sale": {
      "ItemIDs": [
        {
          "Name": "Mary's laundry detergent",
          "#value": "554433"
        }
      ],
      "ExtendedAmount": { "#value": 550 }, "
      Quantities": [ { "#value": 1 } ],
      "Taxes": [
        {
          "TaxType": "Consumption", "
          Amount": { "#value": 50 }, "
          Percent": 10
        }
      ]
    },
    "SequenceNumbers": [ 2 ]
  }
],

```

```

    {
      "Tender": {
        "TenderType": "Cash",
        "Amount": { "#value": 10030 }, "
        TenderChanges": [
          {
            "TenderType": "Cash",
            "Amount": { "#value": 6500 }
          }
        ]
      },
      "SequenceNumbers": [ 3 ]
    }
  ],
  "Totals": [
    {
      "Name": "Tax rate 8% total item price", "
      TotalType": "Transaction Subtotal",
      "#value": 2980
    },
    {
      "Name": "Tax rate 8%",
      "TotalType": "Transaction Subtotal TaxAmount",
      "#value": 220
    },
    {
      "Name": "Tax rate 10% total item price", "
      TotalType": "Transaction Subtotal",
      "#value": 550
    },
    {
      "Name": "Tax rate 10%",
      "TotalType": "Transaction Subtotal TaxAmount",
      "#value": 50
    },
    {
      "TotalType": "Transaction GrandAmount",
      "#value": 3530
    },
    {
      "TotalType": "Transaction TaxAmount",
      "#value": 270
    }
  ],
  "Customers": [ { "CustomerID": "XXXXXXXXYYYYZZZZ" } ]
}
]
}
}
}

```

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5 Reference

ARTS Digital Receipt Specification v 3.1.0

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6 Unresolved issues

None

//end

