# Digital Receipt Format Specification JSON Version

for Japanese Market

**V 1.0.0**

**Jan-31-2022**

**(compatible: ARTS Digital Receipt V3.1.0)**

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# 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.0.0.91 | Add missing items | Add JSON data Sample<br>Fixed reduced tax rate description change. | 2017-09-20 |
| Ver.0.0.92 | Add missing items | Add the FoodService contributor name | 2017-10-10 |
| Ver.0.0.93 | Provisional release | Addition of JSON data Sample and change of chapter allocation.<br>Provisional release | 2018-1-31 |
| Ver.1.0.0 | Add missing items | Add / Modify Leakage Item of Additional Specification of Missing Item Based on Reference List | 2018-05-14 |
| Ver.1.1.0 | Add missing items | Addition of 3.17.9.3 change rate information and 3.17.9.5 promotion ID to 3.17.9 sales price change information. Adding 3.22.4 coupon as payment media to 3.22 payment information | 2019-06-05 |
| | Change of appearance order | Change 3.22.4 gift card after a 3.22.5 voucher | |

| | | | |
|---|---|---|---|
| | Change multiplexed items to array | 3.2, 3.3,3.3.2, 3.3.3, 3.4, 3.8, 3.13, 3.14, 3.15, 3.17.2, 3.17.3, 3.17.8, 3.17.9, 3.17.9.6, 3.17.10, 3.17.11, 3.18.3, 3.20.1, 3.21.1, 3.22.2, 3.22.3, 3.22.4, 3.22.5, 3.22.6, 3.22.7, 3.22.7.1, 3.23, 3.23.1, 3.23.2, 3.24.1, 3.25, 3.28, 3.28.1, 3.29, 3.29.1.2, 3.29.2, 3.29.2.1, 3.29.2.3, 3.30 | |
| Ver 2.0.0 | Fixed JSON samples and Syntax to conform to JSON schema. | 2.4, 3.3.2, 3.6, 3.11, 3.12, 3.14, 3.15, 3.16, 3.17, 3.17.1, 3.17.2, 3.17.3, 3.17.4, 3.17.5, 3.17.6, 3.17.7, 3.17.8, 3.17.9, 3.17.9.1, 3.17.9.2, 3.17.9.3, 3.17.9.4, 3.17.9.5, 3.17.9.6, 3.17.10, 3.17.10.1, 3.17.10.2, 3.17.11, 3.18, 3.18.1, 3.18.2, 3.18.3, 3.18.3.1, 3.18.3.2, 3.18.3.3, 3.18.3.4, 3.18.3.3, 3.19, 3.19.1, 3.19.2, 3.19.3, 3.19.4, 3.19.5, 3.20, 3.20.1, 3.21, 3.21.1, 3.21.2, 3.22, 3.22.1, 3.22.2, 3.22.2.1, 3.22.3, 3.22.3.1, 3.22.4, 3.22.5, 3.22.6, 3.22.7, 3.22.7.1, 3.22.7.2, 3.22.7.3, 3.22.7.4, 3.22.7.5, 3.23, 3.24, 3.25, 3.26, 3.27, 3.28, 3.28.1, 3.29, | 2021-11-01 |

3.29.1, 3.29.1.1,

3.29.1.2, 3.29.2,

3.29.2.1, 3.29.2.2,

3.29.2.3, 3.30, 4.1,

4.1.1, 4.1.2, 4.1.3,

4.1.4, 4.1.5, 4.1.6,

4.1.7, 4.1.8, 4.2, 4.3,

4.4, 4.4.1, 4.4.2, 4.5,

4.6, 4.7, 4.8, 4.8.1,

4.8.2, 4.8.3, 4.9, 4.9.1,

4.9.2, 4.9.3, 4.9.4,

4.9.5, 4.10

## 1.3 Team name

### Leader

. 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 .

## 1.5 Member roster

### Chairman:

| | |
|---|---|
| Masanori Sambe | TOSHIBA TEC CORPORATION |

### Contributor:

| | |
|---|---|
| Daisaku Kashima | Dai Nippon Printing Co., Ltd |
| Yasuo Sakami | Foresight Co., Ltd. |
| Yoshio Yamada | FUJITSU LIMITED |
| Akira Matsuyoshi | Insight Corporation |
| Koji Sasaki | LOG NOTE Co., Ltd. |
| Soichi Fujii | Microsoft Japan Co., Ltd. |
| Akio Tajima | NCR Japan, Ltd. |
| Kazutoshi Ota | OK Systems |
| Tadashi Furuhata | Seiko Epson Corporation |
| Ryo Hirukawa | Sharp Business Solutions Corporation |
| Yusuke Udagawa | SHARP CORPORATION |
| Takao Tamura | Transaction Media Networks Inc. |
| Eiki Murakami | Sorimachi Giken Co., Ltd |
| Kenichi Nagai | STAR MICRONICS CO., LTD. |
| Masaaki Morishita | STAR MICRONICS CO., LTD. |
| Ayako Shimazaki | The Distribution System Research Institute |
| Takahide Kubota | TOSHIBA TEC CORPORATION |
| Toyohiro Yasumoto | VINX CORP. |

### Secretary

| | |
|---|---|
| Soichi Fujii | Microsoft Japan Co, Ltd. |

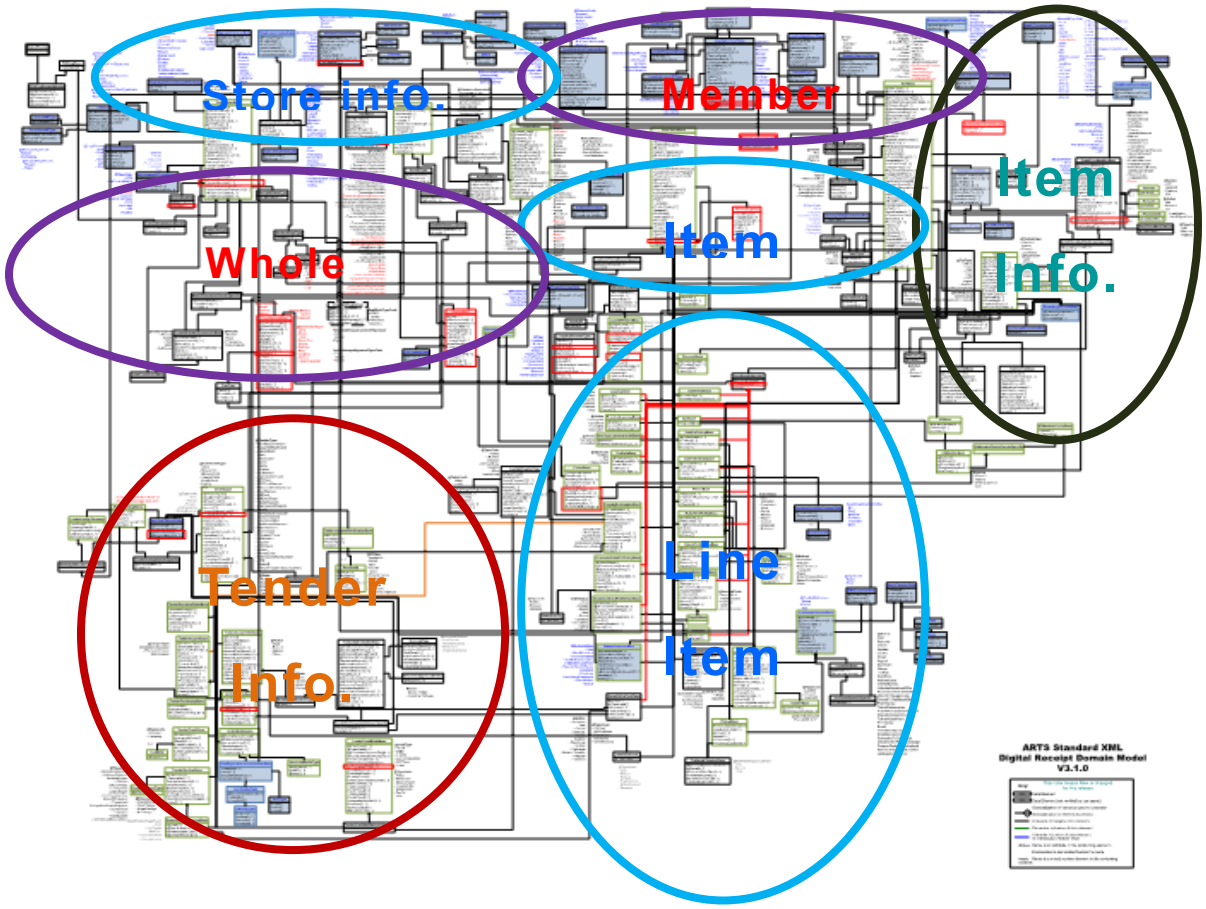
### Food Service Area Contributor

| | |
|---|---|
| Tadashi Furuhata | Seiko Epson Corporation |
| Yoshio Ohba | Seiko Instruments Inc. |
| Yuu Kusama | Open Foodservice Systems Consortium (OFSC) |
| Kenji Oohashi | DYNAC CO., LTD. |
| Umetsu Noriyuki | Fujitsu Isotec Limited |
| Shinya Oikawa | Public university corporation Miyagi university |
| Kazuhiro Kobayashi | Teraoka Seiko Co., Ltd. |
| Masanori Murai | ASKA-T3 Co., Ltd. |
| Shigeru Okada | Open Foodservice Systems Consortium (OFSC) |
| Jun Watanabe | NEC Platforms Limited |

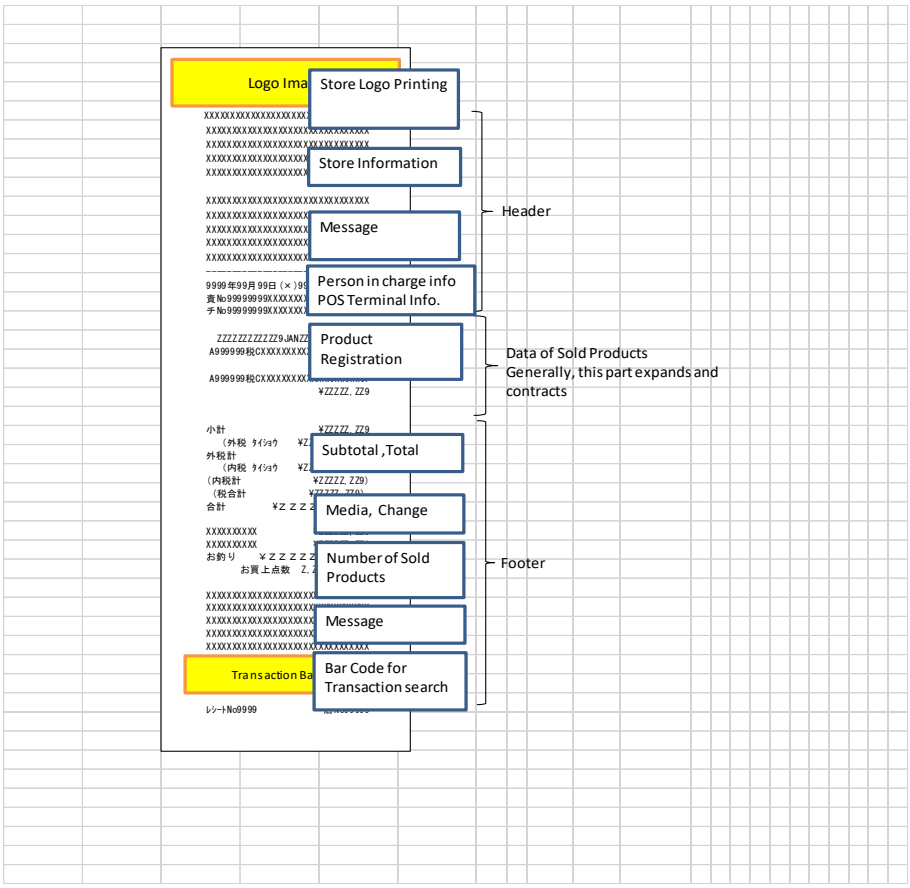
| | |
|---|---|
| Tsuneo Yashima | Just planning Inc. |
| Kiyoshi Kurokura | CITIZEN SYSTEMS JAPAN CO. LTD. |
| Koichi Shibata | Seiko Solutions Inc. |
| Ohko Fujii | MOS FOOD SERVICES, INC. |
| Kenichi Nagai | STAR MICRONICS CO., LTD. |
| Makoto Yoshimura | TOSHIBA TEC CORPORATION |
| Naonori Nagata | TOSHIBA TEC CORPORATION |
| Yasuo Sakami | Open Foodservice Systems Consortium (OFSC) |

## 2 Structure description

### 2.1 Model structure image



## 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 "Transaction", the second Hierarchy "RetailTransaction", and the third Hierarchy "LineItem". The purchase information is described as the fourth Hierarchy in "LineItem" of the third Hierarchy.

### Syntax

**TOP tag**

```
"DigitalReceipt": {
      First Hierarchy
      "Transaction":[{
            Second Hierarchy
            "RetailTransaction":[{
                  Third Hierarchy
                  "LineItem": [
                        4th Hierarchy
                        "Sale": {
                        }
                        "Sale": {
                        }
                  ],
                  "Total":[

                  ],
                  "Customer":[

                  },
                  "LoyaltyAccount":[

                  ]
            }]
      }]
}
```

## 2.4 JSON data structure Sample

```
{
  "DigitalReceipt": {
    "@@MajorVersion": 3,
    "@@MinorVersion": 1,
    "@@FixVersion": 0,
    "Transaction": [{
        "@@TrainingModeFlag": false,
        "@@TypeCode": "SaleTransaction",
        "BusinessUnit": [{
          "UnitID": {
            "@@Name": "Tech Mart Ohito store",
            "#value": "1234567891231"
          }
        }],
        "OrganizationHierarchy": [{
          "@@ID": "080021xxxx",
          "@@Level": "OperatingCompany",
          "#value": "Tec Mart Stores"
        }],
        "WorkstationID": {"#value":"0006"},
        "ReceiptDateTime": {"#value":"2017-03-05T12:00:00+09:00"},
        "ReceiptNumber": {"#value":"0353"},
        "ReceiptImage": [{
          "ReceiptLine": [
            {"#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 ¥ 9,075)"},
            {"#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":"Receipt No. 0353 Store No00027"},
            {"#value":""}
          ]
        }],
```

| | |
|---|---|
| DigitalReceipt | : Top tag |
| MajorVersion | : Version No. |
| MinorVersion | : Version No. |
| FixVersion | : Version No. |
| Transaction | : Transaction info |
| TrainingMode | : Mode info |
| TypeCode | : Type Code info |
| BusinessUnit | : 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 |
| ReceiptDateTime | : YY-MM-DD-Time |
| ReceiptNumber | : Receipt No. |
| ReceiptImage | : Receipt Print Image |
| ReceiptLine | : Receipt Line info |

```
"RetailTransaction": [{
    "LineItem": [
      {
        "Sale": {
          "ItemID": [{
              "@@Name": "3.6 Non-ingredient adjusted milk",
              "#value": "49xxxxxxxxxx"
          }],
          "MerchandiseHierarchy": [{
              "@@ID": "870103",
              "@@Level": "Class"
          }],
          "Description": [{"#value":""}],
          "ActualSalesUnitPrice": {"#value":195},
          "Quantity": [{"#value":2}]
        },
        "SequenceNumber": [1]
      },
      {
        "Sale": {
          "ItemID": [{
              "@@Name": "Sun Suite",
              "#value": "49xxxxxxxxxx"
          }],
          "MerchandiseHierarchy": [{
              "@@ID": "910102",
              "@@Level": "Class"
          }],
          "Description": [
            {"#value":""}
          ],
          "ActualSalesUnitPrice": {"#value":119},
          "Quantity": [{"#value":1}]
        },
        "SequenceNumber": [2]
      },

       (Somewhat)

      {
        "Sale": {
          "ItemID": [{
              "@@Name": "Garlic",
              "#value": ""
          }],
          "MerchandiseHierarchy": [{
              "@@ID": "460805",
              "@@Level": "Class"
          }],
          "Description": [{"#value":""}],
          "ActualSalesUnitPrice": {"#value":98},
          "Quantity": [{"#value":1}]
        },
        "SequenceNumber": [57]
      }
    ],
    "Total": [
      {
        "@@TotalType": "TransactionGrandAmount",
        "#value": 9075
      },
      {
        "@@TotalType": "TransactionTaxAmount",
        "#value": 672
      }
    ],
    "Customer": [{
        "CustomerID": "9900000016xxxxxx"
    }]
  }]
}]
}
```

RetailTransaction : Transaction Details

LineItem : Line Item InfoHeader

Sale : Sales info.
ItemID : Item info
Name : Item Name
value : Item Code
MerchandiseHierarchy : Item Hierarchy info
ID : ID code No.
Level : Hierarchy Level info
Description : Abstract
ActualSalesUnitPrice : Price info
Quantity : Qty. No.
SequenceNumber : SequenceNo.

Total : Total info
TotalType : Total Type info
value : Amount info
TotalType : Amount type
value : Amount No

Customer : 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 | : Number | : Major version number. |
| @@MinorVersion | : Number | : Minor version number. |
| @@FixVersion | : Number | : Fix version number. |

### Sample

```
"DigitalReceipt": {
        "@@MajorVersion": 3,
        "@@MinorVersion": 1,
        "@@FixVersion": 0,
        :
}
```

### Notices

## 3.2 Transaction information

### Item name

Transaction

### Hierarchy level 1

### Overview

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

### Syntax

"Transaction": []

### Data

#### Attribute

@@TrainingModeFlag : Bool : Training mode determination flag

@@TypeCode : Text : Transaction type

### Sample

```
"DigitalReceipt": {
     "Transaction": [{
          "@@TrainingModeFlag": false,
          "@@TypeCode": "SaleTransaction",

         }]
}
```

### Notices

TypeCode: SaleTransaction, ReturnTransaction, ExchangeTransaction

TrainingModeFlag: true, false

## 3.3 Business Unit (Store) information

### Item name

BusinessUnit

### 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

"BusinessUnit": []

### 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 |

### Sample

```
"DigitalReceipt": {
     "Transaction": [{
        "BusinessUnit": [{
                "UnitID": {},
                "Address": {},
                "Telephone": {}
        }]
     }]
}
```

### Notices

### 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 an 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": {

    "Transaction": [{
       "BusinessUnit": [{
              "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 | : Array | : Business Unit type name |
| AddressLine | : Array | : Street number array |
| City | : Text | : City |
| PostalCode | : Text | : Zip code |
| FullAddress | : Text | : Address information |

#### Sample

```
"DigitalReceipt": {
    "Transaction": [{
       "BusinessUnit": [{
              "Address": {
                     "TypeCode":["RetailStore"],
                     "AddressLine":[{ "#value":"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, ...

### 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 area code, local area code + subscriber number as members.

#### Syntax

"Telephone": {}

#### Data

##### Member

| | | |
| --- | --- | --- |
| AreaCode | : Text | : Area code |
| LocalNumber | : Array | : Array of local area code + subscriber number |

#### Sample

```
"DigitalReceipt": {

    "Transaction": [{
       "BusinessUnit": [{
              "Telephone": {
                     "AreaCode": "nnnn",
                     "LocalNumber": ["nnnn-nnnn", " nnnn-nnnn "]
              }
       }]
    }]
}
```

#### Notices

## 3.4 Company information

### Item name

OrganizationHierarchy

### 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

"OrganizationHierarchy": []

### Data

#### Attribute

@@ID : Text : Company code

@@Level : Text : Hierarchy level

#### Value

#value : Text : Company name

### Sample

```
"DigitalReceipt": {
    "Transaction": [{
       "OrganizationHierarchy" [{
              "@@ID": "xxxxxxxxxxxx",
              "@@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": {
     "Transaction": [{
        "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":{"#value":"nnn"}

### Data

WorkstationID : Object : terminal number

### Sample

```
"DigitalReceipt": {
    "Transaction": [{

        "WorkstationID":{"#value":"0006"}

    }]
}
```

### Notices

## 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": "xxxxxxxxxxxxxxxxxx"

### Data

TransactionID : Text : Transaction code number

### Sample

```
"DigitalReceipt": {
    "Transaction": [{

        "TransactionID": "xxxxxxxxxxxxxxxxxx"

    }]
}
```

### Notices

## 3.8 Operator information

### Item name

OperatorID

### 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, an operator name, an operator code and so on.

### Syntax

"OperatorID": []

### Data

#### Attribute

@@OperatorName : Text : Operator name

@@OperatorType : Text : Operator type

### Value

#value : Text : Operator code

### Sample

```
"DigitalReceipt": {

    "Transaction": [{
       "OperatorID": [{
              "@@OperatorName": "NAKA",
              "@@OperatorType": "Cashier",
              "#value": "zzz001"
       }]
    }]
}
```

### Notices

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

## 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": {
    "Transaction": [{

       "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 currently 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": "XXXXXXXXXXXXX ..."

### Data

VATRegistrationNumber : Text : Issuer registration number

### Sample

```
"DigitalReceipt": {
    "Transaction": [{

        "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 : Object : receipt issue date and time

### Sample

```
"DigitalReceipt": {
    "Transaction": [{

        "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": {"#value":"nnnn"}

### Data

| | | |
| --- | --- | --- |
| ReceiptNumber | : Object | : Issue number of the receipt |

### Sample

```
"DigitalReceipt": {
    "Transaction": [{

        "ReceiptNumber": {"#value":"0353"}

    }]
}
```

### Notices

## 3.13 Receipt printing image

### Item name

ReceiptImage

### 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

"ReceiptImage": [{"ReceiptLine": []}]

### Data

#### Member

ReceiptLine : Array : array for storing printed images of receipt

### Sample

```
"DigitalReceipt": {
  "Transaction": [{
   "ReceiptImage":[ {
    "ReceiptLine": [
        {"#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 ¥ 9,075)"},
        {"#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":"Receipt No. 0353 Store No00027"},
        {"#value":""}
      ]
    }]
  }]
}
```


## Notices

## 3.14 Document number

### Item name

InvoiceNumber

### Hierarchy level 2

### Overview

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

### Syntax

"InvoiceNumber": [{"#value":"NNNN"}, {"#value":"nnnn"}]

### Data

InvoiceNumber : Array : array of issue number of the document

### Sample

```
"DigitalReceipt": {
    "Transaction": [{

        "InvoiceNumber": [{"#value":"0123"}, {"#value":"4567"}]

    }]
}
```

### Notices

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

## 3.15 Transaction Details

### Item name

RetailTransaction

### 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

"RetailTransaction": []

### Data

#### Member

| | | |
| --- | --- | --- |
| LineItem | : Array | : detail line |
| Total | : Array | : total information |
| Customer | : Array | : customer information |
| LoyaltyAccount | : Array | : Customer point information |

### Sample

```
"DigitalReceipt": {
     "Transaction": [{
        "RetailTransaction": [{
                "LineItem": [

                ],
                "Total": [

                ],
                "Customer": [{

                }],
                "LoyaltyAccount": [{

                }]
        }]
     }]
}
```

### Notices

## 3.16 Detail line

### Item name

LineItem

### Hierarchy 3rd level

### Overview

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

### Syntax

"LineItem": []

### Data

#### Member

| | | |
|---|---|---|
| Sale | : Object | : Sales information |
| Return | : Object | : Return information |
| Discount | : Object | : Discount information |
| LoyaltyRedemption | : Object | : Point discount information |
| LoyaltyReward | : Object | : Point granting information |
| Tender | : Object | : Payment information |
| Coupon | : Object | : Coupon information |
| StoredValueFundSale | : Object | : Prepaid card sales information |
| Advertising | : Object | : Advertisement information |
| SequenceNumber | : Array | : Sequence number of detail line |

### Sample

```
"DigitalReceipt": {

  "Transaction": [{
    "RetailTransaction": [{
          "LineItem": [
          {
                "Sale": {"ItemID": [{"#value":"889999"}]},
                "SequenceNumber": [1]
          },
          {
                "Return": {"ItemID": [{"#value":"7777"}]},
                "SequenceNumber": [2]
          },
          {
                "Discount": {
                      "SequenceNumber": 1,
                      "ItemID": [{"#value":"7777"}]
                },
                "SequenceNumber": [3]
```

```
            },
            {
                    "LoyaltyRedemption": {"PointsRedeemed": [{"#value":444}]},
                    "SequenceNumber": [4]
            },
            {
                    "Tender": {"Amount": {"#value":200}},
                    "SequenceNumber": [5]
            },
            {
                    "Coupon": {"Discount": [100]},
                    "SequenceNumber": [6]
            },
            {
                    "StoredValueFundSale": {
                            "ItemID": [{"#value":"888"}],
                            "ExtendedAmount": {"#value":800}
                    },
                    "SequenceNumber": [7]
            },
            {
                    "Advertising": {
                            "AdvertisingID": "8888",
                            "Text": ["Advertisement information"]
                    },
                            "SequenceNumber": [8]
            },
            ],
            "Total": [
            ],
            "Customer": [
            ]
      }]
   }]
}
```

## Notices

## 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

| | |
|---|---|
| ItemID | : Object: Product information |
| MerchandiseHierarchy | : Array : Product classification information array |
| Description | : Array : Sales overview array |
| UnitListPrice | : Object: Product unit price (manufacturer suggested retail price) |
| RegularSalesUnitPrice | : Object: Normal selling price |
| ActualSalesUnitPrice | : Object: Actual sales price |
| ExtendedAmount | : Object: Sales amount |
| Quantity | : Array : Sales quantity array |
| RetailPriceModifier | : Array : Sales price change information array |
| Tax | : Array : Tax information |
| ItemLink | : Array : Related product line number |
| Foodservice | : Object: Food service information |

### Sample

```
"LineItem": [
  {
        {
              "Sale": {
              "ItemID": [{
                    "@@Name": "Milk",
                    "#value": "49xxxxxxxxxx"
              }],
              "MerchandiseHierarchy": [{
                          "@@Type": "Retailer",
                          "#value": "888"
                    }],
                    "Description": [{"#value":"Today Special Item"}],
                    "UnitListPrice": {"#value":130},
                    "RegularSalesUnitPrice": {"#value":140},
                    "ActualSalesUnitPrice": {"#value":120},
```

```
                "ExtendedAmount": {"#value":240},
                "Quantity": [{"#value":2}]
            },
            "SequenceNumber": [4]
        }
    }
],
```

## Notices

### 3.17.1 Product information

#### Item name

ItemID

#### 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

"ItemID": []

#### Data

##### Attribute

@@Name : Text : Product name

@@Type : Text : Product code type

##### Value

#value : Text : Product code

#### Sample

```
"LineItem": [
  {
      "Sale": {
          "ItemID": [{
              "@@Name": "3.6 Non-ingredient adjusted milk",
              "@@Type": "GTIN",
              "#value": "49xxxxxxxxxx"
           }],

      },
      "SequenceNumber": "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

### 3.17.2 Product classification information

#### Item name

MerchandiseHierarchy

#### Hierarchy 5th level

#### Overview

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

#### Syntax

"MerchandiseHierarchy": []

#### Data

##### Attribute

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

#### Sample

```
"LineItem": [
  {
      "Sale": {
          "ItemID": [{
              "@@Name": "3.6 Non-ingredient adjusted milk"
              "#value": "49xxxxxxxxxx",
          }],
          "MerchandiseHierarchy": [{
              "@@ID": "460xxx",
              "@@Level": "Class",
              "@@Name": "Milk",
              "@@Type": "Retailer"
          }],
          "Description": [{"#value":"Today Special Item"}],
          "UnitListPrice": {"#value":130},
          "RegularSalesUnitPrice": {"#value":140},
          "ActualSalesUnitPrice": {"#value":120},
          "ExtendedAmount": {"#value":240},
          "Quantity": [{"#value":2}]
      },
      "SequenceNumber": [1]
  }
],
```

#### Notices

Level: Division, Group, SubGroup, MajorDepartment, Department, SubDepartment, MajorClass, Class, SubClass, Category, SubCategory,

Supplier, Accounting, Style, SKU, UPC, EPC

Type: Retailer, NotRetailer, …

### 3.17.3 Sales description

#### Item name

Description

#### Hierarchy level 5

#### Overview

A character string array describing sales information is stored.

#### Syntax

"Description": [{"#value":"xxxx"}]

#### Data

Description : Array : Sales information character string array

#### Sample

```
"LineItem": [
   {
                "Sale": {
                        "ItemID": [{
                                "@@Name": "3.6 Non-ingredient adjusted milk",
                                "#value": "49xxxxxxxxxx"
                         }],
                "Merchandiseierarchy": [{
                                "@@ID": "460xxx",
                                "@@Level": "Class",
                                        "@@Name": "Milk",
                                        "@@Type": "Retailer"
                        }],
                        "Description": [{"#value":"Today Special Item"}],
                        "UnitListPrice": {"#value":130},
                        "RegularSalesUnitPrice": {"#value":140},
                        "ActualSalesUnitPrice": {"#value":120},
                        "ExtendedAmount": {"#value":240},
                        "Quantity": [{"#value":2}]
                },
                "SequenceNumber": [1]
   }
],
```

#### Notices

### 3.17.4 Product unit price (manufacturer suggested retail price)

#### Item name

UnitListPrice

#### Hierarchy level 5

#### Overview

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

#### Syntax

"UnitListPrice": {"#value":xxxx}

#### Data

UnitListPrice : Object : Product unit price information

#### Sample

```
"LineItem": [
   {
                "Sale": {
                        "ItemID": [{
                                "@@Name": "3.6 Non-ingredient adjusted milk",
                                "#value": "49xxxxxxxxxx"
                         }],
                        "Merchandiseierarchy": [{
                                "@@ID": "460xxx",
                                "@@Level": "Class",
                                        "@@Name": "Milk",
                                        "@@Type": "Retailer"
                        }],
                        "Description": [{"#value":"Today Special Item"}],
                        "UnitListPrice": {"#value":130},
                        "RegularSalesUnitPrice": {"#value":140},
                        "ActualSalesUnitPrice": {"#value":120},
                        "ExtendedAmount": {"#value":240},
                        "Quantity": [{"#value":2}]
                },
                "SequenceNumber": [1]
   }
],
```

#### Notices

### 3.17.5 Regular sales unit price

#### Item name

RegularSalesUnitPrice

#### Hierarchy level 5

#### Overview

A value describing ordinary sales unit price is stored.

#### Syntax

"RegularSalesUnitPrice": {"#value":xxxx}

#### Data

RegularSalesUnitPrice : Object : normal selling price information

#### Sample

```
"LineItem": [
   {
                "Sale": {
                        "ItemID": [{
                                "@@Name": "3.6 Non-ingredient adjusted milk",
                                "#value": "49xxxxxxxxxx"
                         }],
                        "Merchandiseierarchy": [{
                                "@@ID": "460xxx",
                                "@@Level": "Class",
                                        "@@Name": "Milk",
                                        "@@Type": "Retailer"
                        }],
                        "Description": [{"#value":"Today Special Item"}],
                        "UnitListPrice": {"#value":130},
                        "RegularSalesUnitPrice": {"#value":140},
                        "ActualSalesUnitPrice": {"#value":120},
                        "ExtendedAmount": {"#value":240},
                        "Quantity": [{"#value":2}]
                },
                "SequenceNumber": [1]
   }
],
```

#### Notices

### 3.17.6 Actual sales unit price

#### Item name

ActualSalesUnitPrice

#### Hierarchy level 5

#### Overview

A value describing the real selling unit price is stored.

#### Syntax

"ActualSalesUnitPrice":{"#value":xxxx}

#### Data

ActualSalesUnitPrice : Object : Actual sales price information

#### Sample

```
"LineItem": [
   {
        "Sale": {
                    "ItemID": [{
                            "@@Name": "3.6 Non-ingredient adjusted milk",
                            "#value": "49xxxxxxxxxx"
                     }],
                    "Merchandiseierarchy": [{
                            "@@ID": "460xxx",
                            "@@Level": "Class",
                                    "@@Name": "Milk",
                                    "@@Type": "Retailer"
                    }],
                    "Description": [{"#value":"Today Special Item"}],
                    "UnitListPrice": {"#value":130},
                    "RegularSalesUnitPrice": {"#value":140},
                    "ActualSalesUnitPrice": {"#value":120},
                    "ExtendedAmount": {"#value":240},
                    "Quantity": [{"#value":2}]
                },
                "SequenceNumber": [1]
   }
],
```

#### Notices

## 3.17.7 Total sales amount

### Item name

ExtendedAmount

### Hierarchy level 5

### Overview

A value describing the total sales amount is stored.

### Syntax

"ExtendedAmount":{"#value":xxxx}

### Data

ExtendedAmount : Object : Sales amount total information

### Sample

```
"LineItem": [
   {
        "Sale": {
                    "ItemID": [{
                            "@@Name": "3.6 Non-ingredient adjusted milk",
                            "#value": "49xxxxxxxxxx"
                     }],
                    "Merchandiseierarchy": [{
                            "@@ID": "460xxx",
                            "@@Level": "Class",
                                    "@@Name": "Milk",
                                    "@@Type": "Retailer"
                    }],
                    "Description": [{"#value":"Today Special Item"}],
                    "UnitListPrice": {"#value":130},
                    "RegularSalesUnitPrice": {"#value":140},
                    "ActualSalesUnitPrice": {"#value":120},
                    "ExtendedAmount": {"#value":240},
                    "Quantity": [{"#value":2}]
                },
                "SequenceNumber": [1]
   }
],
```

### Notices

### 3.17.8 Sales Quantity

#### Item name

Quantity

#### Hierarchy level 5

#### Overview

A value array describing the sales quantity is stored.

#### Syntax

"Quantity": [{"#value":x}]

#### Data

Quantity : Array : Sales quantity information value array

#### Sample

```
"LineItem": [
  {
      "Sale": {
                  "ItemID": [{
                        "@@Name": "3.6 Non-ingredient adjusted milk",
                        "#value": "49xxxxxxxxxx"
                   }],
                  "Merchandiseierarchy": [{
                        "@@ID": "460xxx",
                        "@@Level": "Class",
                              "@@Name": "Milk",
                              "@@Type": "Retailer"
                  }],
                  "Description": [{"#value":"Today Special Item"}],
                  "UnitListPrice": {"#value":130},
                  "RegularSalesUnitPrice": {"#value":140},
                  "ActualSalesUnitPrice": {"#value":120},
                  "ExtendedAmount": {"#value":240},
                  "Quantity": [{"#value":2}]
              },
              "SequenceNumber": [1]
  }
],
```

#### Notices

### 3.17.9 Sales price change information

#### Item name

RetailPriceModifier

#### 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

"RetailPriceModifier": []

#### Data

##### Attribute

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

##### Member

| | | |
|---|---|---|
| SequenceNumber | : Number | : Sequence number of price change row |
| Amount | : Object | : Sales price change amount information |
| PreviousPrice | : Object | : Pre-change price |
| ReasonCode | : Array | : Sales price change reason information array |

#### Sample

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

#### Notices

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

### 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 : Number : Sequence No.

#### Sample

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

#### 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

#### Sample

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

#### Notices

Action: Add, Subtract, Replace, For

### 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

```
"RetailPriceModifier": [{
        "@@MethodCode": "Coupon",
        "SequenceNumber": 1,
        "Percent": {
                "@@Action": "Subtract",
                "#value": 50
        },
        "PreviousPrice": {"#value":4000},
        "ReasonCode": ["64555"]
}]
```

#### Notices

Action: Add, Subtract, Replace, For

### 3.17.9.4 Before change selling price information

#### Item name

PreviousPrice

#### Hierarchy level 6

#### Overview

Selling price before change

#### Syntax

"PreviousPrice":{"#value":nnnn}

#### Data

PreviousPrice : Object : Before change sales price information

#### Sample

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

#### Notices

### 3.17.9.5 Promotion ID

#### Item name

PromotionID

#### Hierarchy level 6

#### Overview

Array for storing promotion IDs such as coupons.

#### Syntax

"PromotionID": [{"#value":"nnn"}]

#### Data

"PromotionID" : Array : Promotion ID information array

#### Sample

```
"RetailPriceModifier": [{
        "@@MethodCode": "Coupon",
        "SequenceNumber": 1,
        "Amount": {
              "@@Action": "Subtract",
              "#value": 50
        },
        "PromotionID": {"#value": "123123"},
        "ReasonCode": [ "456345" ]
}]
```

#### Notices

### 3.17.9.6 Reason code value for selling price change

#### Item name

ReasonCode

#### Hierarchy level 6

#### Overview

Sales price change reason code

#### Syntax

"ReasonCode": "nnn"

#### Data

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

#### Sample

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

#### Notices

### 3.17.10 Tax Information

#### Item name

Tax

#### 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

"Tax": []

#### Data

##### Attribute

| | | |
| --- | --- | --- |
| @@TaxType | : Text | : Tax type |

#### Member

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

#### Sample

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

#### Notices

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

### 3.17.10.1 Tax Amount

#### Item name

Amount

#### Hierarchy level 6

#### Overview

Tax amount information

#### Syntax

"Amount": {"#value":nnnn}

#### Data

Amount : Object : Tax amount information

#### Sample

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

#### Notices

### 3.17.10.2 Tax rate

#### Item name

Percent

#### Hierarchy level 6

#### Overview

Tax information

#### Syntax

"Percent": nnnn

#### Data

Percent : Number : Tax rate information

#### Sample

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

#### Notices

### 3.17.11 Line number associated with detail line

#### Item name

ItemLink

#### Hierarchy level 5

#### Overview

Array of associated sequence number of detail line

#### Syntax

"ItemLink": []

#### Data

"ItemLink": Array : detail line related sequence number array

#### Sample

```
"LineItem": [
  {
        "Sale": {
              "ItemID": [{
                    "@@Name": "Cheeseburger",
                    "@@Type": "GTIN",
                    "#value": "1223045899786"
              }],
              "ExtendedAmount": {"#value":240},
              "Quantity": [{"#value":2}],
              "Tax": [{
                    "@@TaxType": "Consumption",
                    "Amount": {"#value":24},
              "Percent": 10
              }],
              "ItemLink": [3],
              "Foodservice": {
                    "@@DestinationType": "ToGo"
              }
         },
         "SequenceNumber": [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

#### Sample

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

#### Notices

Service target type

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

## 3.18 Returned 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

| | | |
|---|---|---|
| ItemID | : Array | : Array of Product code |
| ExtendedAmount | : Object | : Amount |
| TransactionLink | : Array | : Array of Relevant transaction information |

### Sample

```
"LineItem": [
  {
      "Return": {
          "ItemID": [{"#value":"49xxxxxxxxxx"}],
          "ExtendedAmount": {"#value":123},
          "TransactionLink": [{
              "@@ReasonCode": "Return",
              "TransactionID": ["1234567890123"],
              "BusinessUnit": [{"#value":"123456781231"}],
              "WorkstationID": [{"#value":"002"}],
              "BusinessDayDate": [{"Date":"2017-02-27"}],
              "SequenceNumber": [2]
          }]
      },
    "SequenceNumber": [1]
  }
]
```

### Notices

### 3.18.1 Returned item code information

#### Item name

ItemID

#### Hierarchy level 5

#### Overview

Array that Returned item code data is stored.

#### Syntax

```
"ItemID": [{"#value":"nnnn"}]
```

#### Data

##### Member

ItemID : Array : Item code data information character string array

#### Sample

```
"LineItem": [
  {
      "Return": {
          "ItemID": [{"#value":"49xxxxxxxxxx"}],
          "ExtendedAmount": {"#value":123},
          "TransactionLink": [{
              "@@ReasonCode": "Return",
              "TransactionID": ["1234567890123"],
              "BusinessUnit": [{"#value":"123456781231"}],
              "WorkstationID": [{"#value":"002"}],
              "BusinessDayDate": [{"Date":"2017-02-27"}],
              "SequenceNumber": [2]
          }]
      },
    "SequenceNumber": [1]
  }
]
```

#### Notices

### 3.18.2 Returned Goods Total Amount Information

#### Item name

ExtendedAmount

#### Hierarchy level 5

#### Overview

Returned product total amount information is stored.

#### Syntax

"ExtendedAmount":{"#value":nnnn}

#### Data

##### Member

ExtendedAmount : Object : Returned product total amount information

#### Sample

```
"LineItem": [
  {
      "Return": {
          "ItemID": [{"#value":"49xxxxxxxxxx"}],
          "ExtendedAmount": {"#value":123},
          "TransactionLink": [{
              "@@ReasonCode": "Return",
              "TransactionID": ["1234567890123"],
              "BusinessUnit": [{"#value":"123456781231"}],
              "WorkstationID": [{"#value":"002"}],
              "BusinessDayDate": [{"Date":"2017-02-27"}],
              "SequenceNumber": [2]
          }]
      },
    "SequenceNumber": [1]
  }
]
```

#### Notices

### 3.18.3 Related transaction information

#### Item name

TransactionLink

#### Hierarchy level 5

#### Overview

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

#### Syntax

"TransactionLink": []

#### Data

##### Attribute

| | | |
|---|---|---|
| @@ReasonCode | : Text | : reason code |

##### Member

| | | |
|---|---|---|
| TransactionID | : Array | : Transaction ID array |
| BusinessUnit | : Array | : Branch (Store) code array |
| UnitID | : Array | : Business Unit (Store) code array |
| WorkstationID | : Array | : Terminal number (Register No.) array |
| BusinessDayDate | : Array | : Transaction date array |
| SequenceNumber | : Array | : Sequence within related Transaction number |

#### Sample

```
"LineItem": [
  {
      "Return": {
            "ItemID": [{"#value":"49xxxxxxxxxx"}],
            "ExtendedAmount": {"#value":123},
            "TransactionLink": [{
                  "@@ReasonCode": "Return",
                  "TransactionID": ["1234567890123"],
                  "BusinessUnit": [{"#value":"123456781231"}],
                  "WorkstationID": [{"#value":"002"}],
                  "BusinessDayDate": [{"Date":"2017-02-27"}],
                  "SequenceNumber": [2]
            }]
      },
    "SequenceNumber": [1]
  }
]
```

#### Notices

ReasonCode: Resume, DeferredBill, Return, LayAway, Voided, ReceiptReprint,

Reservation, SuggestedItem, RetrospectiveLoyalty, PaidOut

### 3.18.3.1 Related transaction code information

#### Item name

TransactionID

#### Hierarchy level 6

#### Overview

Related transaction code number array

#### Syntax

"TransactionID": ["nnnn"]

#### Data

| | | |
|---|---|---|
| TransactionID | : Array | : Relevant transaction code information character string array |

#### Sample

```
"LineItem": [
  {
      "Return": {
          "ItemID": [{"#value":"49xxxxxxxxxxx"}],
          "ExtendedAmount": {"#value":123},
          "TransactionLink": [{
              "@@ReasonCode": "Return",
              "TransactionID": ["1234567890123"],
              "BusinessUnit": [{"#value":"123456781231"}],
              "WorkstationID": [{"#value":"002"}],
              "BusinessDayDate": [{"Date":"2017-02-27"}],
              "SequenceNumber": [2]
          }]
      },
    "SequenceNumber": [1]
  }
]
```

#### Notices

“

### 3.18.3.2 Related Transaction Store Information

#### Item name

BusinessUnit

#### Hierarchy level 6

#### Overview

Related transaction store information array.

#### Syntax

"BusinessUnit": []

#### Data

BusinessUnit : Array : Related Transaction Store Information String Array

#### Sample

```
"LineItem": [
  {
       "Return": {
              "ItemID": [{"#value":"49xxxxxxxxxx"}],
              "ExtendedAmount": {"#value":123},
              "TransactionLink": [{
                     "@@ReasonCode": "Return",
                     "TransactionID": ["1234567890123"],
                     "BusinessUnit": [{"#value":"123456781231"}],
                     "WorkstationID": [{"#value":"002"}],
                     "BusinessDayDate": [{"Date":"2017-02-27"}],
                     "SequenceNumber": [2]
              }]
       },
    "SequenceNumber": [1]
  }
]
```

#### Notices

*Please refer to 3.3 BusinessUnit information.

### 3.18.3.3 Related transactions POS terminal information

#### Item name

WorkstationID

#### Hierarchy level 6

#### Overview

Related transaction POS terminal information array.

#### Syntax

"WorkstationID": [{"#value":"nnnn"}]

#### Data

"WorkstationID" : Array : Related transaction POS terminal information character string array

#### Sample

```
"LineItem": [
  {
      "Return": {
          "ItemID": [{"#value":"49xxxxxxxxxxx"}],
          "ExtendedAmount": {"#value":123},
          "TransactionLink": [{
              "@@ReasonCode": "Return",
              "TransactionID": ["1234567890123"],
              "BusinessUnit": [{"#value":"123456781231"}],
              "WorkstationID": [{"#value":"002"}],
              "BusinessDayDate": [{"Date":"2017-02-27"}],
              "SequenceNumber": [2]
          }]
      },
    "SequenceNumber": [1]
  }
]
```

#### Notices

### 3.18.3.4 Related transaction processing date information

#### Item name

BusinessDayDate

#### Hierarchy level 6

#### Overview

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

#### Syntax

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

#### Data

##### Member

Date : Array : Related transaction processing date array

#### Sample

```
"LineItem": [
  {
       "Return": {
              "ItemID": [{"#value":"49xxxxxxxxxx"}],
              "ExtendedAmount": {"#value":123},
              "TransactionLink": [{
                     "@@ReasonCode": "Return",
                     "TransactionID": ["1234567890123"],
                     "BusinessUnit": [{"#value":"123456781231"}],
                     "WorkstationID": [{"#value":"002"}],
                     "BusinessDayDate": [{"Date":"2017-02-27"}],
                     "SequenceNumber": [2]
              }]
       },
    "SequenceNumber": [1]
  }
]
```

#### Notices

### 3.18.3.5 Related transaction sequence number information

#### Item name

SequenceNumber

#### Hierarchy level 6

#### Overview

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

#### Syntax

"SequenceNumber":[nnn]

#### Data

##### Member

SequenceNumber : Array : Sequence No.

#### Sample

```
"LineItem": [
  {
       "Return": {
              "ItemID": [{"#value":"49xxxxxxxxxx"}],
              "ExtendedAmount": {"#value":123},
              "TransactionLink": [{
                     "@@ReasonCode": "Return",
                     "TransactionID": ["1234567890123"],
                     "BusinessUnit": [{"#value":"123456781231"}],
                     "WorkstationID": [{"#value":"002"}],
                     "BusinessDayDate": [{"Date":"2017-02-27"}],
                     "SequenceNumber": [2]
              }]
       },
    "SequenceNumber": [1]
  }
]
```

#### Notices

## 3.19 Discount Information

### Item name

Discount

### Hierarchy level 4

### Overview

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

### Syntax

"Discount": {}

### Data

#### Attribute

| | | |
|---|---|---|
| @@MethodCode | : Text | : Operation type |

#### Member

| | | |
|---|---|---|
| SequenceNumber | : Number | : Sequence number information of value pull |
| Amount | : Object | : Discount amount |
| Percent | : Object | : Discount rate |
| PromotionID | : Object | : Discount promotion ID number |
| DiscountID | : Text | : Discount code number |

### Sample

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

### Notices

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

### 3.19.1 Discount line sequence number

#### Item name

SequenceNumber

#### Hierarchy level 5

#### Overview

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

#### Syntax

"SequenceNumber":nnn

#### Data

##### Member

SequenceNumber : Number : Sequence number of value pull.

#### Sample

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

#### Sample

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

#### Notices

Action: Add, Subtract, Replace, For

### 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

##### Member

| | | |
|---|---|---|
| Percent | : Number | : ID number of discount promotion character string information report |

#### Sample

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

#### Notices

### 3.19.4 Discount Promotion ID Number

#### Item name

PromotionID

#### Hierarchy level 5

#### Overview

Discount promotion ID number information.

#### Syntax

"PromotionID":{"#value":"nnn"}

#### Data

##### Member

PromotionID : Object : ID number of discount promotion information report.

#### Sample

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

#### Notices

### 3.19.5 Discount code number

#### Item name

DiscountID

#### Hierarchy level 5

#### Overview

ID number of discounts.

#### Syntax

"DiscountID":"nnn"

#### Data

##### Member

DiscountID : Text : ID number of the discount character string information.

#### Sample

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

#### Notices

## 3.20 Point discount information

### Item name

LoyaltyRedemption

### Hierarchy level 4

### Overview

It is an object that stores point price discount information of item lines, and stores a Member ID, the number of points to be given, and the like.

### Syntax

"LoyaltyRedemption": {}

### Data

#### Member

PointsRedeemed : Array : Point exchange information array

### Sample

```
"LineItem": [
  {
        LoyaltyRedemption": {
            "PointsRedeemed": [{
                    "@@Type": "Redeemed",
                     "#value": 100
            }],
            "LoyaltyProgram": {
                "@@TypeCode": "Points",
                "LoyaltyProgram": {
                        "@@Name": "A point card",
                        "#value": "1"
                },
                "LoyaltyAccountID": {"#value":"1234567890123"}
             },
             "Amount": {"#value":100}
        },
        "SequenceNumber": [1]
  }
]
```

### Notices

### 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

```
"LineItem": [
  {
       LoyaltyRedemption": {
           "PointsRedeemed": [{
                  "@@Type": "Redeemed",
                   "#value": 100
           }],
           "LoyaltyProgram": {

            },
            "Amount": {"#value":100}
       },
       "SequenceNumber": [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 rewarded points in the item lines and it stores the loyalty program member ID and its rewarded points and so on.

### Syntax

"LoyaltyReward": {}

### Data

#### Member

| | | |
|---|---|---|
| LoyaltyProgramID | : Array | : Loyalty program information array |
| LoyaltyAccountID | : Object | : Member ID number of loyalty program |
| PointsAwarded [] | : Array | : Information array on points to be given |

### Sample

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

### Notices

### 3.21.1 ID number information of loyalty program

#### Item name

LoyaltyProgramID

#### 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 so on.

#### Syntax

"LoyaltyProgramID": []

#### Data

##### Attribute

@@Name : Text : Name of the loyalty program

##### Value

#value : Text : ID number of the loyalty program

#### Sample

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

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

#### Notices

### 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": {
        "LoyaltyProgramID": [{
                "@@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 and so on.

### Syntax

"Tender": {}

### Data

#### Attribute

| | | |
|---|---|---|
| @@TenderType | : Text | : Payment type |

### Member

| | | |
|---|---|---|
| Amount | : Object | : Payment amount |
| TenderChange | : Array | : Change array |
| CreditDebit | : Array | : CreditDebit payment array |
| Coupon | : Array | : Coupon payment array |
| Voucher | : Array | : Cash payment array |
| GiftCard | : Array | : GiftCard payment array |
| LoyaltyRedemption | : Array | : Points array |

### Sample

```
"LineItem": [
   {
        "Sale": {
                "ItemID": [{"#value":"1010"}]
        },
        "SequenceNumber":[1]
   },
   {
        "Tender": {
                "@@TenderType": "Cash",
                "Amount": {
                        "@@Currency": "JPY",
                        "#value": 5000
                },
                "TenderChange": [{
                        "@@TenderType": "Cash",
                        "Amount": {"#value":1000}
                }]
        },
```

```
        "SequenceNumber": [2]
    },
    {
        "Tender": {
                "@@TenderType": "CreditDebit",
                "Amount": {"#value":4000},
                "CreditDebit": [{
                        "@@TypeCode": "Amex",
                        "@@CardType": "Credit",
                        "PrimaryAccountNumber": {"#value":"8990567788"}
                }]
        },
        "SequenceNumber": [3]
    },
    {
        "Tender": {
                "@@TenderType": "Points",
                "LoyaltyRedemption": [{
                        "@@TypeCode": "Redemption",
                        "PointsRedeemed": [{"#value":3000}]
                }]
        },
        "SequenceNumber": [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

### 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 |

#### Value

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

#### Sample

```
"LineItem": [
            {
      "Sale": {
            "ItemID": [{"#value":"1010"}]
      },
      "SequenceNumber":[1]
  },
  {
      "Tender": {
            "@@TenderType": "Cash",
            "Amount": {
                  "@@Currency": "JPY",
                  "#value": 5000
            },
            "TenderChange": [{
                  "@@TenderType": "Cash",
                  "Amount": {"#value":1000}
            }]
      },
      "SequenceNumber": [2]
  }
]
```

#### Notices

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

### 3.22.2 Change Information

#### Item name

TenderChange

#### 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 the like.

#### Syntax

"TenderChange": []

#### Data

##### Attribute

@@TenderType : Text : Payment type

##### Member

Amount : Object : Change amount

#### Sample

```
{
        "Tender": {
                "@@TenderType": "Cash",
                "Amount": {
                        "@@Currency": "JPY",
                        "#value": 5000
                },
                "TenderChange": [{
                        "@@TenderType": "Cash",
                        "Amount": {"#value":1000}
                }]
        },
        "SequenceNumber": [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

### 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

#### Value

#value : Number : Payment amount

#### Sample

```
"LineItem": [
   {
        "Sale": {
                "ItemID": [{"#value":"1010"}]
        },
        "SequenceNumber":[1]
   },
   {
        "Tender": {
                "@@TenderType": "Cash",
                "Amount": {
                        "@@Currency": "JPY",
                        "#value": 5000
                },
                "TenderChange": [{
                        "@@TenderType": "Cash",
                        "Amount": {"#value":1000}
                }]
        },
        "SequenceNumber": [2]
   }
]
```

#### Notices

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

### 3.22.3 Credit / Debit

#### Item name

CreditDebit

#### 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

"CreditDebit": []

#### Data

##### Attribute

| | | |
|---|---|---|
| @@CardType | : Text | : CreditDebit type |
| @@TypeCode | : Text | : Card type |

##### Member

| | | |
|---|---|---|
| PrimaryAccountNumber | : Object | : Card number |

#### Sample

```
"LineItem": [
        {
                "Sale": {
                        "ItemID": [{"#value":"1010"}]
                        },
                        "SequenceNumber":[1]
        },
        {
                "Tender": {
                     "@@TenderType":"CreditDebit ",
                     "Amount": {
                          "@@Currency": "JPY",
                          "#value": 5000
                     },
                     "CreditDebit": [{
                          "@@TypeCode": "Visa",
                          "@@CardType": "Credit",
                          "PrimaryAccountNumber": {"#value":"1234"}
                     }]
                },
                "SequenceNumber": [2]
           }
]
```

#### Notices

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

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

### 3.22.3.1 Card number

#### Item name

PrimaryAccountNumber

#### Hierarchy level 6

#### Overview

Card number

#### Syntax

"PrimaryAccountNumber":{"#value":"XXXXXXXXXXXXX"}

#### Data

##### Member

PrimaryAccountNumber : Object: Card number information.

#### Sample

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

#### Notices

### 3.22.4 Coupon

#### Item name

Coupon

#### 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

"Coupon": []

#### Data

##### Member

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

#### Sample

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

#### Notices

### 3.22.5 Cash voucher

#### Item name

Voucher

#### 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

"Voucher": []

#### Data

##### Attribute

| | | |
|---|---|---|
| @@TypeCode | : Text | : Cash voucher type |

##### Member

| | | |
|---|---|---|
| FaceValueAmount | : Object | : Voucher face value amount |
| UnspentAmount | : Object | : unused amount |

#### Sample

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

#### Notices

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

### 3.22.6 Gift Card

#### Item name

GiftCard

#### 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

"GiftCard": []

#### Data

##### Member

| | | |
|---|---|---|
| CardNumber | : Text | : Card number |
| ExpirationDate | : Text | : expiration date |
| InitialBalance | : Object | : Before operation balance |
| CurrentBalance | : Object | : After operation balance |

#### Sample

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

#### Notices

### 3.22.7 Point Card

#### Item name

LoyaltyRedemption

#### 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

"LoyaltyRedemption": []

#### Data

##### Attribute

@@TypeCode : Text : Type

##### Member

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

#### Sample

```
"LineItem": [
   {
        "Sale": {
        },
        "SequenceNumber": [1]
    },
    {
        "Tender": {
              "@@TenderType": "Loyalty",
               "LoyaltyRedemption": [ {
                    "@@TypeCode": "Redemption",
                    "PointsRedeemed": [{"#value":500}]
               }],
          },
          "SequenceNumber": [2]
     }
],
```

**Sample with loyalty program information added**


```
"LineItem": [
   {
      "Sale": {
      },
      "SequenceNumber": [1]
   },
   {
            "Tender": {
                 "@@TenderType": "Loyalty",
                 "LoyaltyRedemption": [{
                      "@@TypeCode": "Redemption",
                      "PointsRedeemed": [{"#value":500}],
                      "LoyaltyProgram": {
                           "@@TypeCode": "Points",
                           "LoyaltyProgramID": {
                                "@@Name": "A point card",
                                "#value": "1"
                           },
                           "LoyaltyAccountID": {"#value":"1234567890123"},
                           "Amount": {"#value":100}
                      }
                 }],

            },
            "SequenceNumber": [2]
   }
],
```


## Notices

### 3.22.7.1 Number of cash exchange points

#### Item name

PointsRedeemed

#### Hierarchy level 6

#### Overview

The Member of the payment information of the item line, the point number information to be converted into cash, and the like are stored.

#### Syntax

"PointsRedeemed": []

#### Data

#### Member

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

#### Sample

```
"LineItem": [
          {
               "Sale": {
               },
               "SequenceNumber": [1]
          },
          {
               "Tender": {
                    "@@TenderType": "Loyalty",
                    "LoyaltyRedemption": [{
                         "@@TypeCode": "Redemption",
                         "PointsRedeemed": [{"#value":500}]
                    }],
               },
               "SequenceNumber": [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 | : ID of the loyalty program |
| LoyaltyAccoutID | : Object | : Loyalty program Member number |
| Amount | : Object | : Point cash amount |

#### Sample

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

#### Notices

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

### 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

##### Member

LoyaltyProgramID : Object : Loyalty program ID number

#### Sample

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

#### Notices

### 3.22.7.4 Loyalty program Member ID number information

#### Item name

LoyaltyAccoutID

#### 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

##### Member

LoyaltyAccoutID : Object : Member ID number of the loyalty program

#### Sample

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

#### Notices

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

### 3.22.7.5 Cash Amount

#### Item name

Amount

#### Hierarchy level 7

#### Overview

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

#### Syntax

"Amount": {}

#### Data

##### Member

Amount : Object : Cash amount from loyalty program

#### Sample

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

#### Notices

## 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 so on.

### Syntax

"Coupon": {}

### Data

#### Attribute

| | | |
|---|---|---|
| @@Use | : Text | : Issuance, usage type |
| @@CouponType | : Text | : Coupon type |

#### Member

| | | |
|---|---|---|
| Description | : Array: | Coupon description array |
| Quantity | : Object | : Number of coupons |
| FamilyCode | : Text | : Coupon type code |
| ExpirationDate | : Text | : Coupon expiration date |
| PromotionCode | : Text | : Coupon promotion code |
| ScanCode | : Text | : Coupon barcode information |
| BusinessUnit | : Object | : Store information |
| WorkstationID | : Object | : Terminal number |
| CouponID | : Object | : Coupon number |
| IssuingDate | : Text | : Coupon issue date |
| TermsOfUse | : Array: | Usage notes array |
| ItemID | : Array: | Product code of target item array |
| Image | : Array: | Image data information array |
| ImageNumber | : Array: | Image data number array |
| ImageURI | : Array: | Image data URI array |
| Discount | : Array: | Coupon value reduction array |
| CertificationID | : Array: | Coupon authentication ID array |
| Points | : Array: | Coupon addition point array |
| Amount | : Array: | Coupon amount array |
| Percent | : Array: | Coupon discount rate array |

## Sample


```
"Coupon": {
  "@@Use": "Issue",
  "@@CouponType": "StoreCoupon",
  "Description": [
    {"#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": "WWWWXXXX"
  },
  "WorkstationID": {"#value":"675544"},
  "CouponID": {"#value":"55577"},
  "IssuingDate": "2017-09-11",
  "TermsOfUse": ["Promotion"],
  "ItemID": [{"#value":"888999"}],
  "Image": [{
    "@@TypeCode": "JPG",
    "#value": "dkaoeie4"
  }],
  "ImageNumber": [9998],
  "ImageURI": [{"#value":"http://xxxx/"}],
  "Discount": [50],
  "CertificationID": ["888"],
  "Points": [{"#value":88}],
  "Amount": [{"#value":800}],
  "Percent": [10]
}
```


## Notices

Use: Issue, Redeem

CouponType: ManufacturersCoupon, ElectricCoupon, StoreCoupon

### 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 |
| @@TypeCode | : Text | : Store type |

##### 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

Image

#### 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 so on.

#### Syntax

"Image": []

#### Data

##### Attribute

| | | |
| --- | --- | --- |
| @@TypeCode | : Text | : Image data type |

##### Value

| | | |
| --- | --- | --- |
| #value | : Text | : Image data (Base64Binary) |

#### Sample

```
"Image": [{
        "@@TypeCode": "JPG",
        "#value": "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 so on.

### Syntax

"StoredValueFundSale": {}

### Data

#### Attribute

| | | |
|---|---|---|
| @@Action | : Text | : Prepaid card operation information |

#### Member

| | | |
|---|---|---|
| ItemID | : Array | : Prepaid card information array |
| ExtendedAmount | : Object | : Prepaid card sales amount |

### Sample

```
"StoredValueFundSale": {
                "@@Action": "Cashout",
                "ItemID": [{
                        "@@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

### 3.24.1 Prepaid card information

#### Item name

ItemID

#### 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 so on.

#### Syntax

"ItemID": []

#### Data

##### Attribute

@@Name : Text : Card name

##### Value

#value : Text : Prepaid card ID number

#### Sample

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

#### Notices

## 3.25 Advertising information

### Item name

Advertising

### Hierarchy level 4

### Overview

This is an object that stores advertisement information on line of detail, stores image information of advertisement, URI, advertisement sentence information and so on.

### Syntax

"Advertising": {}

### Member

AdvertisingID: Text : ID number of promotional information
ImageData : Array: Image data name array
ImageNumber: Array: Image data number array
ImageURI : Array: Image data URI array
Text : Array: Promotional text array
Code : Array: Advertisement code number (ARTSBinary) array
Barcode : Array: Bar code number array
URI : Array: Advertisement information URI array

### Sample

```
"Advertising": {
                    "Advertising": {
                      "AdvertisingID": "444",
                      "ImageData": [{"#value":"8999"}],
                      "ImageNumber": [999],
                      "ImageURI": ["http://xxxxzzz"],
                      "Text": ["888"],
                      "Code": ["99"],
                      Barcode":[
"¥¥u0034¥¥u0039¥¥u0030¥¥u0031¥¥u0032¥¥u0033¥¥u0034¥¥u0035¥¥u00
36¥¥u0037¥¥u0038¥¥u0039¥¥u0034"
                      ],
                      "URI": ["http://yyyzzzz"]
                    }
          }
```

### Notices

## 3.26 Details Line Sequence Number

### Item name

SequenceNumber

### Hierarchy level 4

### Overview

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

### Syntax

"SequenceNumber":[nnn]

### Data

#### Member

SequenceNumber : Array : Sequence number

### Sample

```
"LineItem": [
  {
       "Sale": {
                        :
        },
       "SequenceNumber": [1]
  },
  {
       "Sale": {
                        :
       },
       "SequenceNumber": [2]
  },
  {
       "LoyaltyRedemption": [{
                        :
       }],
       "SequenceNumber": [3]
  }
]
```

### Notices

## 3.27 Total information

### Item name

Total

### 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

"Total": []

### Data

#### Attribute

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

#### Value

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

### Sample

```
"Total": [
  {
      "@@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"

## 3.28 Customer information

### Item name

Customer

### Hierarchy level 3

### Overview

It is an array that stores customer information and has a customer code and so on.

### Syntax

"Customer": []

### Data

#### Member

| | | |
|---|---|---|
| CustomerID | : Text | : Customer code |
| Name | : Object | : Customer's generic name |

### Sample

```
"RetailTransaction": [{

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

}]
```

### Notices

### 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 so on.

#### Syntax

"Name": {}

#### Data

##### Member

| | | |
| --- | --- | --- |
| Name | : Array | : Customer name array |
| MailingName | : Text | : E-mail address |

#### Sample

```
"RetailTransaction": [{

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

}]
```

#### Notices

## 3.29 Loyalty account information

### Item name

LoyaltyAccount

### Hierarchy level 3

### Overview

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

### Syntax

"LoyaltyAccount": []

### Data

#### Member

| | | |
|---|---|---|
| CustomerID | : Text | : Customer code |
| LoyaltyAccount | : Object | : Loyalty account information |

### Sample

```
"RetailTransaction": [{

        "LoyaltyAccount": [{
                "CustomerID": "799886www",
                "LoyaltyAccount": {
                        "ExpirationDate": "2020-08-10",
                        "Points": [
                                {
                                        "@@Type": "PreviousPoints",
                                        "#value": 900
                                },
                                {
                                        "@@Type": "Redeemed",
                                        "#value": 777
                                },
                                {
                                        "@@Type": "PointsEarned",
                                        "#value": 0
                                },
                                {
                                        "@@Type": "Balance",
                                        "#value": 123
                                }
                        ],
                        "PointsExpiration": [{
                                        "ToBeExpiredPoints": {"#value":123},
                                        "PointsExpirationDate": "2018-03-15"
                        }]
                }
        }]
}]
```

## Notices

### 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 so on.

#### Syntax

"LoyaltyAccount": {}

#### Data

##### Member

| | | |
|---|---|---|
| ExpirationDate | : Text | : Expiration date of loyalty account |
| Points | : Array | : Point information array |
| PointsExpiration | : Array | : Point expiration information array |

#### Sample

```
"LoyaltyAccount": {
        "ExpirationDate": "2020-08-10",
        "Points": [
                {
                        "@@Type": "PreviousPoints",
                        "#value": 900
                },
                {
                        "@@Type": "Redeemed",
                        "#value": 777
                },
                {
                        "@@Type": "PointsEarned",
                        "#value": 0
                },
                {
                        "@@Type": "Balance",
                        "#value": 123
                }
        ],
        "PointsExpiration": [{
                        "ToBeExpiredPoints": {"#value":123},
                        "PointsExpirationDate": "2018-03-15"
        }]
}
```

#### Notices

### 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 : Text : Type

#### Value

#value : Number : 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

PointsExpiration

#### Hierarchy level 5

#### Overview

Array storing point expiration information of loyalty account

#### Syntax

"PointsExpiration": []

#### Data

##### Member

| | | |
|---|---|---|
| ToBeExpiredPoints | : Object | : Number of points to be revoked |
| PointsExpirationDate | : Text | : Point expiration date<br>"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
                }
        ],
        "PointsExpiration": [{
                    "ToBeExpiredPoints": {"#value":123},
                    "PointsExpirationDate": "2018-03-15"
        }]
}
```

#### Notices

### 3.29.2 Loyalty program information

#### Item name

LoyaltyProgram

#### Hierarchy level 5

#### Overview

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

#### Syntax

"LoyaltyProgram": []

#### Data

##### Attribute

| | | |
|---|---|---|
| @@Action | : Text | : implementation items for the loyalty program |

#### Member

| | | |
|---|---|---|
| LoyaltyProgramID | : Array | : ID array of the loyalty program |
| LoyaltyAccountID | : Object | : Member ID of the loyalty program |
| Points | : Array | : Point number array |

#### Sample

```
"LoyaltyProgram": [{
        "@@Action": "Update",

        "LoyaltyProgramID": [{
                "@@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, GetAffliations, Enroll, EnrollmentQuery, EnrollmentCancel, Void

### 3.29.2.1 ID information of loyalty program

#### Item name

LoyaltyProgramID

#### Hierarchy level 6

#### Overview

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

#### Syntax

"LoyaltyProgramID": []

#### Data

##### Attribute

| | | |
|---|---|---|
| @@Description | : Text | : Loyalty program description item |
| @@Name | : Text | : Name to loyalty program |

##### Value

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

#### Sample

```
"LineItem": [
   {
       "LoyaltyRedemption": {
          "PointsRedeemed": [{}],
          "LoyaltyProgram": {
              "LoyaltyProgramID": {
                       "@@Name": "Platinum",
                       "@@Description": "XX Mileage",
                       "#value": "1"
              },
              "LoyaltyAccountID": {"#value":"1234567890123"},
              "Amount": {"#value":100}
          }
         },
         "SequenceNumber": [1]
     },

]
```

#### 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": "xxxx"

#### Data

LoyaltyAccountID : Object : Loyalty program Member ID information

#### Sample

```
"LoyaltyProgram": {
    "LoyaltyProgramID": {
            "@@Name": "Platinum",
            "@@Description": "XX Mileage",
            "#value": "1"
    },
    "LoyaltyAccountID": {"#value":"1234567890123"},
    "Amount": {"#value":100}
}
```

#### Notices

### 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

```
"LoyaltyProgram": {
        "LoyaltyProgramID": {
                "@@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

Foodservice

### 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 so on.

### Syntax

"Foodservice": []

### Data

Attribute

| | | |
| --- | --- | --- |
| @@DestinationType | : Text | : Destionation of Food |

### Member

| | | |
| --- | --- | --- |
| TableID | : Array | : Array of Table number |
| SeatID | : Array | : Array of Seat number |
| PartySize | : Number | : Number of people in party |

### Sample

```
"Foodservice": [
  {
    "@@DestinationType":"DineIn",
    "TableID": [ "22" ],
    "SeatID": [ "5" ],
    "PartySize": 2,
  }
]
```

### Notices

# 4 JSON data Sample

## 4.1 Digital receipt with various coupons added

Convenience Store

Nakamura

Customer Receipt

2018/05/14 13:51 123456789999
Shiojiri Station Store WWWWXXXX
Address: 399-0xxx, Shiojiri City
Hirooka 1234-5yy
Sales Person: Ota Zaki: 8944

| | | |
|---|---|---|
| Nonalcoholic Beer | x6 | ¥720 |
| Chewing gum | x2 | ¥240 |
| Bottled green tea200 ″Matsumoto green tea″ | x1 | ¥180 |
| Paper diaper | x4 | ¥4000 |
| Subtotal | | ¥5140 |
| Tax | | ¥411 |
| Total | | ¥5551 |
| Cash | | ¥10051 |
| Change | | ¥4500 |

Customer ID: XXXXXXYYYYYZZZZ
Platinum

Platinum Level: Gift Coupon
Next time at
Convenience store Nakamura
At the time of shopping,
514 yen will be discounted.

Disposable diaper
50 yen discount coupon
This coupon can be used at any store
Valid until 15/Aug./2019

″Green tea Shiojiri no Shizuku″ 200 ml
10% discount
Only at Convenience Nakamura

【JSON-1】


```
{
"DigitalReceipt": {
  "@@MajorVersion": "3",
  "Transaction": [
    {
      "BusinessUnit": [
        {
          "UnitID": {
            "@@Name": "Shiojiri station front Store",
```

```
    "#value": "WWWWXXXX"
   },
   "Address": {
    "AddressLine": [ { "#value" : "1234-zzz" }, { "#value": "Shiojiri City Hirooka" } ],
    "PostalCode": "399-x567"
   }
  }
],
"Logo": {
 "@@LogoFormat": "BMP",
 "FileName": "conveninakamura.bmp"
},
"OperatorID": [
 {
  "@@OperatorName": "Ota Zaki",
  "#value": "8944"
 }
],
"ReceiptDateTime": {"#value": "2016-05-14T18:13:51"},
"RetailTransaction": [
 {
  "LineItem": [
   {
    "Sale": {
     "ItemID": [
      {
       "@@Name": "Nonalcoholic Beer",
       "#value": "1022585345677"
      }
     ],
     "ExtendedAmount": {"#value" : 720 },
     "Quantity": [ {"#value" : 6} ]
    },
    "SequenceNumber": [ 2 ]
   },
   {
    "Sale": {
     "ItemID": [
      {
       "@@Name": "Chewing gum",
       "#value": "1223045899786"
      }
     ],
     "ExtendedAmount": {"#value" : 240},
     "Quantity": [ {"#value" : 2} ]
    },
    "SequenceNumber": [ 3 ]
   },
   {
    "Sale": {
     "ItemID": [
      {
       "@@Name": "Bottled green tea 200 ml Matsumoto Green Tea",
       "#value": "1056767893345"
      }
     ],
     "ExtendedAmount": {"#value" : 180} ,
     "Quantity": [ {"#value" : 1} ]
    },
    "SequenceNumber": [ 4 ]
   },
```

```
{
  "Sale": {
    "ItemID": [
      {
        "@@Name": "Disposable diaper",
        "#value": "1035354589032"
      }
    ],
    "ExtendedAmount": { "#value" : 4000 },
    "Quantity": [{"#value" : 4 }]
  },
  "SequenceNumber": [ 5 ]
},
{
  "Coupon": {
    "@@Use": "Issue",
    "@@CouponType": "StoreCoupon",
    "Description": [
      {"#value": "Platinum Level: Gift Coupon"},
      {"#value": "Next Time at"},
      {"#value": "Convenience Store Nakamura"},
      {"#value": "At the time of shopping"},
      {"#value": "514 will be discounted"}
    ],
    "BusinessUnit": {
      "@@Name": "Nakamura Shiojiri station front Store",
      "@@TypeCode": "RetailStore",
      "#value": "WWWXXXX"
    },
    "CertificationID": [ "XXXXXYYYXXX" ],
    "Amount": [ {"#value": 514} ]
  },
  "SequenceNumber": [ 6 ]
},
{
  "Coupon": {
    "@@Use": "Issue",
    "@@CouponType": "StoreCoupon",
    "Description": [
      {"#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"
    },
    "CertificationID": [ "888" ],
    "Percent": [ 10 ]
  },
  "SequenceNumber": [ 7 ]
},
{
  "Coupon": {
    "@@CouponType": "ManufacturersCoupon",
    "Description": [
      {"#value": "Disposable diaper"},
      {"#value": "50 yen discount coupon"},
      {"#value": "This coupon used at any store"},
```

```
          {"#value": "Valid until 15/Aug./2019"}
        ],
        "ExpirationDate": "2018-08-15",
        "ItemID": [
          {
            "@@Name": "Disposable diaper",
            "#value": "1035354589032"
          }
        ],
        "CertificationID": [ "7899456" ],
        "Amount": [ {"#value": 50} ]
      },
      "SequenceNumber": [ 8 ]
    },
    {
      "Tender": {
        "@@TenderType": "Cash",
        "Amount": {"#value" : 10051},
        "TenderChange": [ { "Amount": {"#value": 4500} } ]
      },
      "SequenceNumber": [ 9 ]
    }
  ],
  "Total": [
    {
      "@@TotalType": "TransactionGrossAmount",
      "#value": 5140
    },
    {
      "@@TotalType": "TransactionNetAmount",
      "#value": 5140
    },
    {
      "@@TotalType": "TransactionGrandAmount",
      "#value": 5551
    },
    {
      "@@TotalType": "TransactionTaxAmount",
      "#value": 411
    }
  ],
  "LoyaltyAccount": [
    {
      "LoyaltyProgram": [
        {
          "LoyaltyAccountID": {
            "@@Level": "Platinum",
            "#value": "XXXXXXYYYYZZZZ"
          }
        }
      ]
    }
  ]
 }
]
}
}
```

### 4.1.1 Discount (50 yen) Digital receipt with coupon added

【JSON-2】


```
{
 "DigitalReceipt": {
  "@@MajorVersion": "3",
  "Transaction": [
   {
    "ReceiptDateTime": {"#value": "2016-08-30T09:01:00"},
    "ReceiptNumber": {"#value": "56783455"},
    "RetailTransaction": [
     {
      "LineItem": [
       {
        "Coupon": {
         "@@Use": "Issue",
         "@@CouponType": "StoreCoupon",
         "Description": [
          {"#value": "50 yen discount Coupon"},
          {"#value": "Hideo's store, limited to sweets only"}
         ],
         "ExpirationDate": "2016-11-10",
         "PromotionCode": "YYYYXXXXYY",
         "Discount": [ 50 ],
         "CertificationID": [ "9815632400057" ]
        },
        "SequenceNumber": [ 1 ]
       }
      ]
     }
    ]
   }
  ]
 }
}
```

### 4.1.2 Discount (5%) Digital receipt with coupon added

【JSON-3】


```
{
 "DigitalReceipt": {
  "@@MajorVersion": "3",
  "Transaction": [
   {
    "ReceiptDateTime": {"#value": "2016-08-30T09:01:00"},
    "ReceiptNumber": {"#value": "56783455" },
    "RetailTransaction": [
     {
      "LineItem": [
       {
        "Coupon": {
         "@@Use": "Issue",
         "@@CouponType": "StoreCoupon",
         "Description": [
          {"#value": "5% discount Coupon"},
          {"#value": "Hideo's store, nonalcoholic drinks only"}
         ],
         "ExpirationDate": "2016-11-30",
         "PromotionCode": "9815632410056",
         "Percent": [ 5 ]
        },
        "SequenceNumber": [ 1 ]
       }
      ]
     }
    ]
   }
  ]
 }
}
```

### 4.1.3 Digital receipt with manufacturer coupon (50 yen discount) added

【JSON-4】


```
{
  "DigitalReceipt": {
    "@@MajorVersion": "3",
    "Transaction": [
      {
        "ReceiptDateTime": {"#value": "2016-08-13T09:01:00"},
        "ReceiptNumber": {"#value": "56783455"},
        "RetailTransaction": [
          {
            "LineItem": [
              {
                "Coupon": {
                  "@@Use": "Issue",
                  "@@CouponType": "ManufacturersCoupon",
                  "ScanCode": "34879765",
                  "Discount": [ 50 ]
                },
                "SequenceNumber": [ 1 ]
              }
            ]
          }
        ]
      }
    ]
  }
}
```

### 4.1.4 Digital receipt with use of store coupon (single item, 50 yen discount)

【JSON-5】


```
{
 "DigitalReceipt": {
  "@@MajorVersion": "3",
  "Transaction": [
   {
    "CurrencyCode": "JPY",
    "ReceiptDateTime": {"#value": "2016-08-13T09:01:00"},
    "ReceiptNumber": {"#value": "56783455"},
    "RetailTransaction": [
     {
      "LineItem": [
       {
        "Sale": {
         "ItemID": [
          {
           "@@Name": "Chocolate bar",
           "#value": "1045687899354"
          }
         ],
         "MerchandiseHierarchy": [
          {
           "@@Level": "Department",
           "@@ID": "567"
          }
         ],
         "ExtendedAmount": {"#value": 350 },
         "Quantity": [ {"#value" :1 } ],
         "RetailPriceModifier": [
          {
           "@@MethodCode": "Coupon",
           "SequenceNumber": 1,
           "Amount": {
            "@@Action": "Subtract",
            "#value": 50
           },
           "PromotionID": {"#value": "123123"},
           "ReasonCode": [ "456345" ]
          }
         ]
        },
        "SequenceNumber": [ 1 ]
       },
       {
        "Tender": {
         "@@TenderType": "Cash",
         "Amount": {"#value": 378}
        },
        "SequenceNumber": [ 2 ]
       }
      ],
      "Total": [
       {
        "@@TotalType": "TransactionGrossAmount",
        "#value": 400
       },
       {
        "@@TotalType": "TransactionNetAmount",
```

```
          "#value": 350
        },
        {
          "@@TotalType": "TransactionGrandAmount",
          "#value": 378
        },
        {
          "@@TotalType": "TransactionTaxAmount",
          "#value": 28
        }
      ]
    }
  ]
 }
]
}
}
```

### 4.1.5 Discount (single item, 10%) Digital receipt with coupon usage

【JSON-6】


```
{
 "DigitalReceipt": {
  "@@MajorVersion": "3",
  "Transaction": [
   {
    "ReceiptDateTime": {"#value": "2016-08-13T09:01:00"},
    "ReceiptNumber": {"#value": "56783455"},
    "RetailTransaction": [
     {
      "LineItem": [
       {
        "Sale": {
         "ItemID": [
          {
           "@@Name": "Can Beer 500ml",
           "#value": "1078567899784"
          }
         ],
         "ExtendedAmount": {"#value": 315 },
         "Quantity": [ {"#value": 1} ],
         "RetailPriceModifier": [
          {
           "@@MethodCode": "Coupon",
           "SequenceNumber": 1,
           "Percent": {
            "@@Action": "Subtract",
            "#value": 10
           },
           "ReasonCode": [ "123123", "456454" ]
          }
         ]
        },
        "SequenceNumber":  [ 1 ]
       },
       {
        "Tender": {
         "@@TenderType": "Cash",
         "Amount": {"#value": 340 }
        },
        "SequenceNumber": [ 2 ]
       }
      ],
      "Total": [
       {
        "@@TotalType": "TransactionGrossAmount",
        "#value": 350
       },
       {
        "@@TotalType": "TransactionNetAmount",
        "#value": 315
       },
       {
        "@@TotalType": "TransactionGrandAmount",
        "#value": 340
       },
       {
        "@@TotalType": "TransactionTaxAmount",
```

```
            "#value": 25
          }
        ]
      }
    ]
  }
 ]
}
}
```

### 4.1.6 Digital receipt with subtotal discount coupon usage

【JSON-7】


```
{
 "DigitalReceipt": {
  "@@MajorVersion": "3",
  "Transaction": [
   {
    "RetailTransaction": [
     {
      "LineItem": [
       {
        "Sale": {
         "ItemID": [
          {
           "@@Name": "Shiojiri no Shizuku",
           "#value": "2345345"
          }
         ],
         "UnitListPrice": {
          "@@Quantity": 1,
          "#value": 200
         },
         "ExtendedAmount": {"#value": 400 },
         "Quantity": [ {"#value": 2} ]
        },
        "SequenceNumber": [ 1 ]
       },
       {
        "Sale": {
         "ItemID": [
          {
           "@@Name": "Disposable diaper",
           "#value": "454698"
          }
         ],
         "UnitListPrice": {
          "@@Quantity": 1,
          "#value": 1000
         },
         "ExtendedAmount": { "#value": 4000 },
         "Quantity": [ {"#value": 4} ]
        },
        "SequenceNumber": [ 2 ]
       },
       {
        "Coupon": {
         "@@Use": "Redeem",
         "@@CouponType": "StoreCoupon",
         "Description": [
          {"#value": "subtotal discount 500 yen coupon"},
          {"#value": "at station front convenience store"}
         ],
         "PromotionCode": "45689",
         "Discount": [ 500 ],
         "CertificationID": [ "34998" ]
        },
        "SequenceNumber": [ 3 ]
       }
      ],
```

```
        "Total": [
          {
            "@@TotalType": "TransactionGrossAmount",
            "#value": 4400
          },
          {
            "@@TotalType": "TransactionNetAmount",
            "#value": 3900
          },
          {
            "@@TotalType": "TransactionGrandAmount",
            "#value": 4212
          },
          {
            "@@TotalType": "TransactionTaxAmount",
            "#value": 312
          }
        ]
      }
    ]
  }
 ]
}
}
```

### 4.1.7 Digital receipt with subtotal discount coupon usage

【JSON-8】


```
{
 "DigitalReceipt": {
  "@@MajorVersion": "3",
  "Transaction": [
   {
    "RetailTransaction": [
     {
      "LineItem": [
       {
        "Sale": {
         "ItemID": [
          {
           "@@Name": "Shiojiri no Shizuku",
           "#value": "1056888569902"
          }
         ],
         "UnitListPrice": {
          "@@Quantity": 1,
          "#value": 200
         },
         "ExtendedAmount": {"#value": 400 },
         "Quantity": [ {"#value": 2 } ]
        },
        "SequenceNumber": [ 1 ]
       },
       {
        "Sale": {
         "ItemID": [
          {
           "@@Name": "Disposable diaper",
           "#value": "1035354589032"
          }
         ],
         "UnitListPrice": {
          "@@Quantity": 1,
          "#value": 1000
         },
         "ExtendedAmount": {"#value": 4000 },
         "Quantity": [ {"#value": 4 } ]
        },
        "SequenceNumber": [ 2 ]
       },
       {
        "Coupon": {
         "@@Use": "Redeem",
         "@@CouponType": "StoreCoupon",
         "Description": [
          {"#value": "10% discount coupon"},
          {"#value": "for convenience store station front store"}
         ],
         "PromotionCode": "45689",
         "CertificationID": [ "34998" ],
         "Percent": [ 10 ]
        },
        "SequenceNumber": [ 3 ]
       },
       {
```

```
      "Tender": {
       "@@TenderType": "Cash",
       "Amount": {"#value": 5000 },
       "TenderChange": [ { "Amount": {"#value": 724} } ]
      },
      "SequenceNumber": [ 4 ]
     }
    ],
    "Total": [
     {
      "@@TotalType": "TransactionGrossAmount",
      "#value": 4400
     },
     {
      "@@TotalType": "TransactionNetAmount",
      "#value": 3960
     },
     {
      "@@TotalType": "TransactionGrandAmount",
      "#value": 4276
     },
     {
      "@@TotalType": "TransactionTaxAmount",
      "#value": 316
     }
    ]
   }
  ]
 }
]
}
```

### 4.1.8 Digital receipt with manufacturer coupon usage

【JSON-9】


```
{
 "DigitalReceipt": {
  "@@MajorVersion": "3",
  "Transaction": [
   {
    "ReceiptDateTime": {"#value": "2016-08-13T09:01:00"},
    "ReceiptNumber": {"#value": "56783455" },
    "RetailTransaction": [
     {
      "LineItem": [
       {
        "Sale": {
         "ItemID": [
          {
           "@@Name": "Shiojiri no Shizuku 200ml",
           "#value": "1056888569902"
          }
         ],
         "ExtendedAmount": {"#value": 200},
         "Quantity": [{ "#value": 1} ]
        },
        "SequenceNumber": [ 1 ]
       },
       {
        "Coupon": {
         "@@Use": "Redeem",
         "@@CouponType": "ManufacturersCoupon",
         "Quantity": {"#value": 1},
         "ScanCode": "3487976545789",
         "ItemID": [ {"#value": "1056888569902"} ],
         "Discount": [ 50 ],
         "CertificationID": [ "789988" ]
        },
        "SequenceNumber": [ 2 ]
       },
       {
        "Tender": {
         "@@TenderType": "Cash",
         "Amount": {"#value": 166}
        },
        "SequenceNumber": [ 3 ]
       },
       {
        "Tender": {
         "@@TenderType": "Coupon",
         "Amount": {"#value": 50}
        },
        "SequenceNumber": [ 4 ]
       }
      ],
      "Total": [
       {
        "@@TotalType": "TransactionGrossAmount",
        "#value": 200
       },
       {
        "@@TotalType": "TransactionNetAmount",
```

```
          "#value": 200
         },
         {
          "@@TotalType": "TransactionCouponTotal",
          "#value": 50
         },
         {
          "@@TotalType": "TransactionGrandAmount",
          "#value": 216
         },
         {
          "@@TotalType": "TransactionTaxAmount",
          "#value": 16
         }
        ]
       }
      ]
     }
    ]
   }
}
```

4.2 Digital receipt with description of acquiring multiple loyalty program points

**Convenience store**
**Nakamura**
**Customer Receipt**
2018/08/13: 9:01:00 123456789999
Shiojiri Station front Store WWWWXXXX
Address: 〒 399-0xxx
Shiojiri City Hirooka 123 - yyz
Cashier: Hirayama Tadashi yyww 1236

| | | |
|---|---|---|
| Nonalcoholic Beer | x6 | ¥ 720 |
| Chewing gum | x2 | ¥ 240 |
| Matsumoto green tea 200 ml | x1 | ¥ 180 |
| Paper diaper Mary's | x4 | ¥ 4000 |
| Subtotal | | ¥ 5140 |
| Consumption tax | | ¥ 411 |
| Total | | ¥ 5551 |
| Cash | | ¥ 6000 |
| Change | | ¥ 449 |

**Nakamura Tomonokai Points**
Nakamura Tomonokai ID: 8899zz
Membership Number : 789956XXX
Membership Level : Platinum

| | |
|---|---|
| Initial Points: | 2368 |
| Points Earned: | 771 |
| Current Total points: | 3139 |

**WW points**
WW Point ID: 4566yy
WW Point No. 4589 YZZZZ

| | |
|---|---|
| Initial Points: | 4577 |
| Rewarded Points: | 514 |
| Current Total Points: | 5091 |

**【JSON-10】**


```
{
 "DigitalReceipt": {
  "@@MajorVersion": "3",
  "Transaction": [
   {
    "BusinessUnit": [
     {
      "UnitID": {
       "@@Name": "Shiojiri station front store",
       "#value": "WWWWXXXX"
      },
      "Address": {
       "AddressLine": [ {"#value": "399-0xxx"} ],
       "City": "Shiojiri City",
       "Territory": [{"#value": "Hirooka"}],
       "PostalCode": "1234-567"
      }
     }
```

```
],
"OperatorID": [
  {
    "@@OperatorName": "Hirayama Tadashi",
    "@@OperatorType": "Cashier",
    "#value": "yyww1236"
  }
],
"CurrencyCode": "JPY",
"ReceiptDateTime": {"#value": "2018-08-13T09:01:00"},
"ReceiptNumber": {"#value": "123456789999"},
"RetailTransaction": [
  {
    "LineItem": [
      {
        "Sale": {
          "@@ItemType": "Stock",
          "ItemID": [
            {
              "@@Name": "Nonalcoholic beer",
              "#value": "102558"
            }
          ],
          "ExtendedAmount": { "#value": 720 },
          "Quantity": [ {"#value": 6} ]
        },
        "SequenceNumber": [ 1 ]
      },
      {
        "Sale": {
          "ItemID": [
            {
              "@@Name": "Chewing gum",
              "#value": "102304"
            }
          ],
          "ExtendedAmount": {"#value": 240},
          "Quantity": [ {"#value": 2} ]
        },
        "SequenceNumber": [ 2 ]
      },
      {
        "Sale": {
          "ItemID": [
            {
              "@@Name": "Matsumoto green tea",
              "#value": "1056767"
            }
          ],
          "MerchandiseHierarchy": [ {"#value": "bottle green tea 200 ml"} ],
          "ExtendedAmount": {"#value": 180}
        },
        "SequenceNumber":  [ 3 ]
      },
      {
        "Sale": {
          "ItemID": [
            {
              "@@Name": "Disposable diaper",
              "#value": "103535"
            }
```

```
    ],
    "ExtendedAmount": { "#value": 4000 },
    "Quantity": [ {"#value": 4 } ]
  },
  "SequenceNumber": [ 4 ]
},
{
  "LoyaltyReward": {
    "LoyaltyProgramID": [
      {
        "@@Name": "Nakamura Tomonokai",
        "#value": "8899zz"
      }
    ],
    "LoyaltyAccountID": {"#value": "789956XXX"},
    "PointsAwarded": [
      {
        "@@Type": "PreviousPoints",
        "#value": 2368
      },
      {
        "@@Type": "PointsEarned",
        "#value": 771
      },
      {
        "@@Type": "Balance",
        "#value": 3139
      }
    ]
  },
  "SequenceNumber": [ 5 ]
},
{
  "LoyaltyReward": {
    "LoyaltyProgramID": [
      {
        "@@Name": "WW point",
        "#value": "4566yy"
      }
    ],
    "LoyaltyAccountID": { "#value": "4589YZZZZ" },
    "PointsAwarded": [
      {
        "@@Type": "PreviousPoints",
        "#value": 4577
      },
      {
        "@@Type": "PointsEarned",
        "#value": 514
      },
      {
        "@@Type": "Balance",
        "#value": 5091
      }
    ]
  },
  "SequenceNumber": [ 6 ]
},
{
  "Tender": {
    "@@TenderType": "Cash",
```

```
        "Amount": { "#value": 6000},
        "TenderChange": [
          {
            "@@TenderType": "Cash",
            "Amount": {"#value": 449}
          }
        ]
      },
      "SequenceNumber": [ 7 ]
    }
  ],
  "Total": [
    {
      "@@TotalType": "TransactionGrossAmount",
      "#value": 5140
    },
    {
      "@@TotalType": "TransactionNetAmount",
      "#value": 5140
    },
    {
      "@@TotalType": "TransactionGrandAmount",
      "#value": 5551
    },
    {
      "@@TotalType": "TransactionTaxAmount",
      "#value": 411
    }
  ]
 }
 ]
 }
 ]
}
}
```

### 4.3 Digital receipt with point of expiration and expiration date stated

Supermarket
Muranaka
Customer Receipt
2016/02/25, 18:13 123456789999
Shiojiri station Store WWWWXXXX
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 | ¥ 4000 |
| Subtotal | | ¥ 5140 |
| Tax | | ¥ 411 |
| Total | | ¥ 5551 |
| Credit | | ¥ 5551 |
| Credit Card No.: | ********* | yyyyzz |

*** Muranaka Customer Club ***
*** Point information ***

| | |
|---|---|
| Initial points | 600 |
| Redeemed points | 0 |
| Points Awarded Amount | ¥ 5140 |
| 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",
  "Transaction": [
   {
    "BusinessUnit": [
     {
      "UnitID": {
       "@@Name": "Shiojiri station front store",
       "#value": "WWWWXXXX"
      },
      "Address": {
       "AddressLine": [ {"#value": "Hirooka-123"} ],
       "City": "Shiojiri City",
       "PostalCode": "399-yyz"
      },
      "Telephone": {
       "AreaCode": "0263",
```

```
    "LocalNumber": [ "yyzzzz" ]
   }
  }
],
"Logo": {
  "@@LogoFormat": "PDF",
  "FileName": "www.myreceipts.com/123456789999"
},
"SequenceNumber": 50,
"OperatorID": [
  {
    "@@OperatorName": "Ota Zaki",
    "#value": "78956"
  }
],
"ReceiptDateTime": {"#value": "2006-05-04T18:13:51.0Z"},
"RetailTransaction": [
  {
    "LineItem": [
      {
        "Sale": {
          "ItemID": [
            {
              "@@Name": "Nonalcoholic beer",
              "#value": "1022585345677"
            }
          ],
          "ExtendedAmount": {"#value": 720},
          "Quantity": [ {"#value": 6} ]
        },
        "SequenceNumber": [ 1 ]
      },
      {
        "Sale": {
          "ItemID": [
            {
              "@@Name": "Chewing gum",
              "#value": "1223045899786"
            }
          ],
          "ExtendedAmount": {"#value": 240},
          "Quantity": [ {"#value": 2} ]
        },
        "SequenceNumber": [ 2 ]
      },
      {
        "Sale": {
          "ItemID": [
            {
              "@@Name": "Matsumoto green tea 200 ml",
              "#value": "1056767893345"
            }
          ],
          "ExtendedAmount": {"#value": 180 },
          "Quantity": [ {"#value": 1} ]
        },
        "SequenceNumber": [ 3 ]
      },
      {
        "Sale": {
          "ItemID": [
```

```
      {
        "@@Name": "Disposable diaper",
        "#value": "1035354589032"
      }
    ],
    "ExtendedAmount": {"#value": 4000},
    "Quantity": [ {"#value": 4} ]
   },
   "SequenceNumber": [ 4 ]
  },
  {
   "Tender": {
    "@@TenderType": "CreditDebit",
    "Amount": {"#value": 5551},
    "CreditDebit": [
      {
        "@@TypeCode": "Visa",
        "PrimaryAccountNumber": {"#value": "*********yyyyzz"}
      }
    ]
   },
   "SequenceNumber": [ 5 ]
  }
],
"Total": [
  {
   "@@TotalType": "TransactionGrossAmount",
   "#value": 5140
  },
  {
   "@@TotalType": "TransactionNetAmount",
   "#value": 5140
  },
  {
   "@@TotalType": "TransactionGrandAmount",
   "#value": 5551
  },
  {
   "@@TotalType": "TransactionTaxAmount",
   "#value": 411
  }
],
"LoyaltyAccount": [
  {
   "CustomerID": "yyy896557",
   "LoyaltyAccount": {
    "ExpirationDate": "2020-08-30",
    "Points": [
      {
        "@@Type": "PreviousPoints",
        "#value": 600
      },
      {
        "@@Type": "Redeemed",
        "#value": 0
      },
      {
        "@@Type": "PointsEarned",
        "#value": 514
      },
      {
```

```
            "@@Type": "Balance",
            "#value": 1114
           }
          ],
          "PointsExpiration": [
           {
            "ToBeExpiredPoints": {"#value": 600 },
            "PointsExpirationDate": "2016-03-20"
           }
          ]
         }
        }
       ]
      }
     ]
    }
   ]
  }
}
```

### 4.4 Purchase of goods using loyalty program points

#### 4.4.1 Digital receipt with discount by loyalty program point

```
          Convenience store
              Nakamura
          Customer receipt
2016/04/21  18:13 123456789977
Shiojiri station Store WWWWXXXX
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",
  "Transaction": [
   {
    "BusinessUnit": [
     {
      "UnitID": {
       "@@Name": "Shiojiri Station Store",
       "#value": "WWWWXXXX"
      },
      "Address": {
       "AddressLine": [ {"#value": "Hirooka 123-yyz"} ],
       "City": "SHiojiri-City",
       "PostalCode": "399-0xxx"
      }
```

```
  }
],
"Logo": {
  "@@LogoFormat": "PDF",
  "FileName": "www.myreceipts.com/123456789999"
},
"OperatorID": [
  {
    "@@OperatorName": "Takashi Yamada",
    "#value": "7899WWW"
  }
],
"ReceiptDateTime": {"#value": "2016-04-21T18:13:51"},
"RetailTransaction": [
  {
    "LineItem": [
      {
        "Sale": {
          "ItemID": [
            {
              "@@Name": "Nonalcoholic Beer",
              "#value": "1010"
            }
          ],
          "ExtendedAmount": {"#value": 720},
          "Quantity": [ { "#value": 6} ]
        },
        "SequenceNumber": [ 1 ]
      },
      {
        "LoyaltyRedemption": {
          "PointsRedeemed": [
            {
              "@@Type": "Redeemed",
              "#value": 1000
            }
          ],
          "LoyaltyProgram": {
            "@@TypeCode": "Points",
            "LoyaltyProgramID": {
              "@@Name": "Nakamura Tomonokai",
              "#value": "8899zz"
            },
            "LoyaltyAccountID": {"#value": "79986YYY" }
          },
          "Amount": {"#value": 100 }
        },
        "SequenceNumber": [ 2 ]
      },
      {
        "Tender": {
          "@@TenderType": "Cash",
          "Amount": {"#value" : 669 }
        },
        "SequenceNumber": [ 3 ]
      }
    ],
    "Total": [
      {
        "@@TotalType": "TransactionGrossAmount",
        "#value": 720
```

```
      },
      {
        "@@TotalType": "TransactionNetAmount",
        "#value": 620
      },
      {
        "@@TotalType": "TransactionGrandAmount",
        "#value": 669
      },
      {
        "@@TotalType": "TransactionTaxAmount",
        "#value": 49
      }
    ],
    "LoyaltyAccount": [
      {
        "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
            }
          ],
          "PointsExpiration": [
            {
              "ToBeExpiredPoints": {"#value": 562 },
              "PointsExpirationDate": "2018-04-21"
            }
          ]
        }
      }
    ]
  }
]
}
```

### 4.4.2 Digital receipt with payment by loyalty program point

```
          Convenience store
              Nakamura
           Customer receipt
2016/03/15, 10:25,   12345677789
Shiojiri station Store WWWWXXXX
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
Membership No.:799886www, Level:Platinum
```

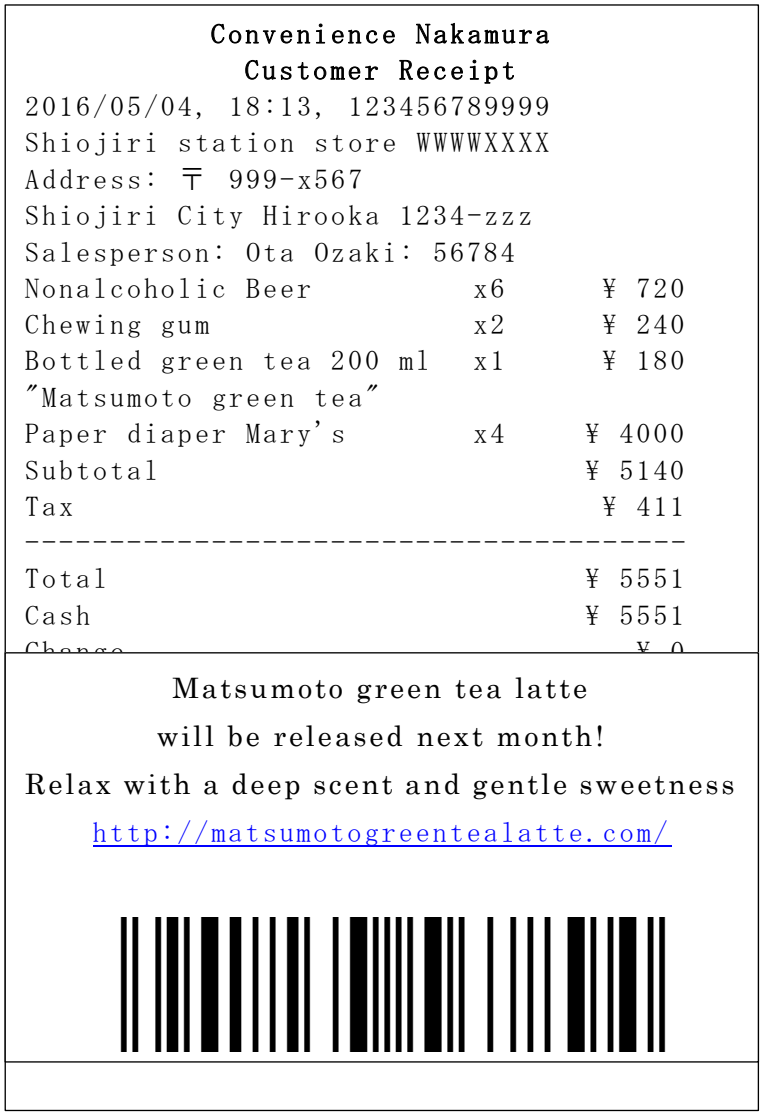
【JSON-13】


```
{
 "DigitalReceipt": {
  "@@MajorVersion": "3",
  "Transaction": [
   {
    "BusinessUnit": [
     {
      "UnitID": {
       "@@Name": "Shiojiri station front Store",
       "#value": "WWWWXXXX"
      },
      "Address": {
       "AddressLine": [ {"#value": "123-yyz"} ],
       "City": "Shiojiri City",
       "Territory": [{"#value": "Hirooka"}],
       "PostalCode": "399-0xxx"
      }
     }
    ],
    "Logo": {
     "@@LogoFormat": "PDF",
     "FileName": "www.myreceipts.com/123456789999"
    },
    "SequenceNumber": 50,
```

```
"OperatorID": [
  {
    "@@OperatorName": "Yamada Aki",
    "#value": "7898www"
  }
],
"ReceiptDateTime": {"#value": "2016-03-15T10:25:51"},
"RetailTransaction": [
  {
    "LineItem": [
      {
        "Sale": {
          "ItemID": [
            {
              "@@Name": "Nonalcoholic Beer",
              "#value": "1022585345677"
            }
          ],
          "ExtendedAmount": {"#value": 720 },
          "Quantity": [ {"#value": 6 } ]
        },
        "SequenceNumber": [ 1 ]
      },
      {
        "Tender": {
          "@@TenderType": "Loyalty",
          "LoyaltyRedemption": [
            {
              "@@TypeCode": "Redemption",
              "PointsRedeemed": [ {"#value": 777} ]
            }
          ]
        },
        "SequenceNumber": [ 2 ]
      }
    ],
    "Total": [
      {
        "@@TotalType": "TransactionGrossAmount",
        "#value": 720
      },
      {
        "@@TotalType": "TransactionNetAmount",
        "#value": 720
      },
      {
        "@@TotalType": "TransactionGrandAmount",
        "#value": 777
      },
      {
        "@@TotalType": "TransactionTaxAmount",
        "#value": 57
      }
    ],
    "LoyaltyAccount": [
      {
        "CustomerID": "799886www",
        "LoyaltyAccount": {
          "ExpirationDate": "2020-08-10",
          "Points": [
            {
```

```
          "@@Type": "PreviousPoints",
          "#value": 900
        },
        {
          "@@Type": "Redeemed",
          "#value": 777
        },
        {
          "@@Type": "PointsEarned",
          "#value": 0
        },
        {
          "@@Type": "Balance",
          "#value": 123
        }
      ],
      "PointsExpiration": [
        {
          "ToBeExpiredPoints": {"#value": 123 },
          "PointsExpirationDate": "2018-03-15"
        }
      ]
    }
  }
 ]
 }
 ]
 }
 ]
 }
}
```

### 4.5 Digital receipt with advertisement added



Convenience Nakamura
Customer Receipt
2016/05/04, 18:13, 123456789999
Shiojiri station store WWWWXXXX
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 "Matsumoto green tea" | x1 | ¥ 180 |
| 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/

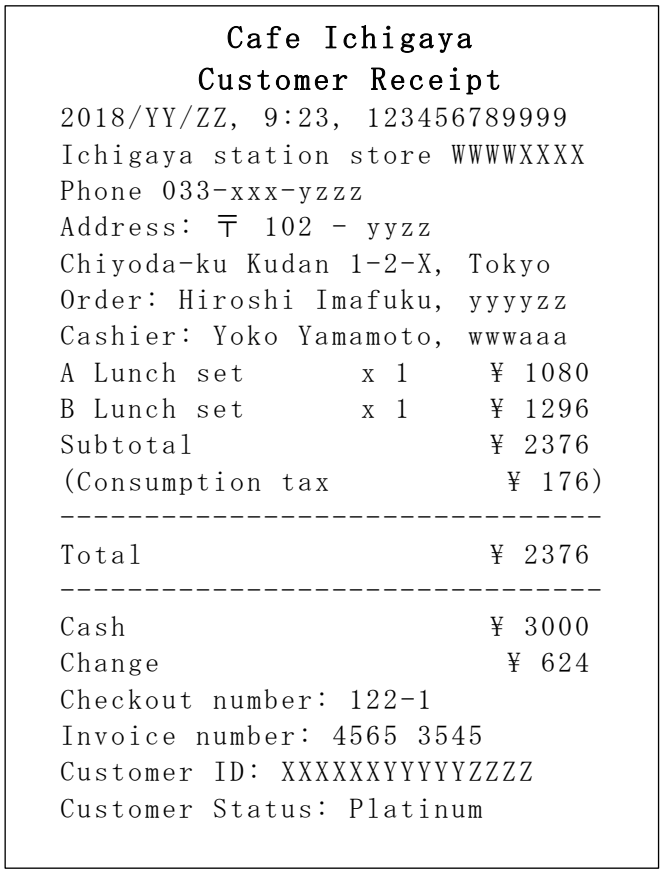
【JSON-14】


```
{
 "DigitalReceipt": {
  "@@MajorVersion": "3",
  "Transaction": [
   {
    "BusinessUnit": [
     {
      "UnitID": {
       "@@Name": "Shiojiri station front store",
       "#value": "WWWWXXXX"
      },
      "Address": {
       "AddressLine": [ {"#value": "1234-zzz"}, {"#value": "Shiojiri City Hirooka"} ],
       "PostalCode": "399-x567"
      }
     }
    ],
    "Logo": {
     "@@LogoFormat": "BMP",
     "FileName": "conveninakamura.bmp"
    },
```

```
"OperatorID": [
  {
    "@@OperatorName": "Zaki Ota",
    "#value": "56784"
  }
],
"ReceiptDateTime": {"#value": "2016-05-04T18:13:51"},
"RetailTransaction": [
  {
    "LineItem": [
      {
        "Sale": {
          "ItemID": [
            {
              "@@Name": "Nonalcoholic Beer",
              "#value": "1022585345677"
            }
          ],
          "ExtendedAmount": {"#value": 720},
          "Quantity": [ {"#value": 6 } ]
        },
        "SequenceNumber": [ 1 ]
      },
      {
        "Sale": {
          "ItemID": [
            {
              "@@Name": "Chewing gum",
              "#value": "1223045899786"
            }
          ],
          "ExtendedAmount": {"#value": 240 },
          "Quantity": [ {"#value": 2} ]
        },
        "SequenceNumber": [ 2 ]
      },
      {
        "Sale": {
          "ItemID": [
            {
              "@@Name": "Matsumoto green tea",
              "#value": "1056767893345"
            }
          ],
          "ExtendedAmount": {"#value": 180},
          "Quantity": [ {"#value": 1 } ]
        },
        "SequenceNumber": [ 3 ]
      },
      {
        "Sale": {
          "ItemID": [
            {
              "@@Name": "Disposable diaper",
              "#value": "1035354589032"
            }
          ],
          "ExtendedAmount": {"#value": 4000 },
          "Quantity": [ {"#value": 4} ]
        },
        "SequenceNumber": [ 4 ]
```

```
        },
        {
          "Advertising": {
            "AdvertisingID": "123123",
            "ImageData": [
              {
                "@@TypeCode": "BMP",
                "#value": "dkaoeie4"
              }
            ],
            "Text": [
              "Matsumoto green tea latte",
              "will be released next month!",
              "Relax with a deep scent and gentle sweetness"
            ],
            "Barcode": [ "¥¥u0034¥¥u0039¥¥u0030¥¥u0031¥¥u0032¥¥u0033¥¥u0034¥¥u0035¥¥u0036¥
¥u0037¥¥u0038¥¥u0039¥¥u0034" ],
            "URI": [ "http://matsumotogreentealatte.com/" ]
          },
          "SequenceNumber": [ 5 ]
        },
        {
          "Tender": {
            "@@TenderType": "Cash",
            "Amount": {"#value": 5551 }
          },
          "SequenceNumber": [ 6 ]
        }
      ],
      "Total": [
        {
          "@@TotalType": "TransactionGrossAmount",
          "#value": 5140
        },
        {
          "@@TotalType": "TransactionNetAmount",
          "#value": 5140
        },
        {
          "@@TotalType": "TransactionGrandAmount",
          "#value": 5551
        },
        {
          "@@TotalType": "TransactionTaxAmount",
          "#value": 411
        }
      ]
    }
  ]
 }
}
```

## 4.6 Operator information, digital receipt with Invoice number attached by OES



Cafe Ichigaya
Customer Receipt
2018/YY/ZZ, 9:23, 123456789999
Ichigaya station store WWWWXXXX
Phone 033-xxx-yzzz
Address: 〒 102 - yyzz
Chiyoda-ku Kudan 1-2-X, Tokyo
Order: Hiroshi Imafuku, yyyyzz
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: XXXXXXYYYYYZZZZ
Customer Status: Platinum

【JSON-15】


```
{
 "DigitalReceipt": {
  "@@MajorVersion": "3",
  "Transaction": [
   {
    "BusinessUnit": [
     {
      "UnitID": {"#value": "Cafe Ichigaya"},
      "Address": {
       "AddressLine": [ {"#value": "1-2-X"} ],
       "City": "Chiyoda-ku Kudan, Tokyo",
       "PostalCode": "102-yyzz"
      },
      "Telephone": {
       "AreaCode": "033",
       "LocalNumber": [ "xxxyzzz" ]
      }
     }
    ],
    "WorkstationID": {"#value": "122-1"},
    "OperatorID": [
     {
      "@@OperatorName": "Yamamoto Yoko",
      "@@OperatorType": "Cashier",
      "#value": "wwwaa"
     },
     {
      "@@OperatorName": "Hiroshi Imafuku",
```

```
    "@@OperatorType": "OrderTaker",
    "#value": "yyyyzz"
   }
 ],
 "ReceiptDateTime": {"#value": "2018-09-22T09:23:00"},
 "ReceiptNumber": {"#value": "123456789999"},
 "InvoiceNumber": [{"#value": "4565"} , {"#value": "3545"} ],
 "RetailTransaction": [
  {
   "LineItem": [
    {
     "Sale": {
      "ItemID": [
       {
        "@@Name": "Lunch set A",
        "#value": "123"
       }
      ],
      "ExtendedAmount": {"#value": 1080}
     },
     "SequenceNumber": [ 1 ]
    },
    {
     "Sale": {
      "ItemID": [
       {
        "@@Name": "Lunch set B",
        "#value": "124"
       }
      ],
      "ExtendedAmount": {"#value": 1296}
     },
     "SequenceNumber": [ 2 ]
    },
    {
     "Tender": {
      "Amount": {"#value": 3000},
      "TenderChange": [ { "Amount": {"#value": 624} } ]
     },
     "SequenceNumber": [ 3 ]
    }
   ],
   "Total": [
    {
     "@@TotalType": "TransactionGrossAmount",
     "#value": 2376
    },
    {
     "@@TotalType": "TransactionNetAmount",
     "#value": 2376
    },
    {
     "@@TotalType": "TransactionGrandAmount",
     "#value": 2376
    },
    {
     "@@TotalType": "TransactionTaxIncluded",
     "#value": 176
    }
   ],
   "Customer": [ { "CustomerID": "xxxxxyyyyyzzzz" } ],
```

```
        "LoyaltyAccount": [ { "LoyaltyProgram": [ { "LoyaltyProgramID": [ {"#value": "44456yyy"} ] } ] }
       }
      ]
     }
    ]
  }
}

{
  "DigitalReceipt": {
    "@@MajorVersion": "3",
    "Transaction": [
      {
        "BusinessUnit": [
          {
            "UnitID": {
              "@@Name": "Ichigaya station",
              "#value": "WWWXXXX"
            },
            "Address": { "AddressLine": [ {"#value": "Chiyoda ku Kudan 1-Y-X"} ] }
          }
        ],
        "Logo": {
          "@@LogoFormat": "BMP",
          "FileName": "CulinaryRestaurantKudan.bmp"
        },
        "POSLogDateTime": [{"#value": "2016-04-07T09:45:00"}],
        "OperatorID": [
          {
            "@@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"},
        "InvoiceNumber": [ {"#value": "334456"}, {"#value": "556690"} ],
        "RetailTransaction": [
          {
            "LineItem": [
              {
                "Sale": {
                  "ItemID": [
                    {
                      "@@Name": "Beer",
                      "#value": "DBBB33"
                    }
                  ],
                  "ExtendedAmount": {"#value": 650},
                  "Quantity": [ {"#value": 1 } ]
                },
```

```
  "SequenceNumber": [ 1 ]
},
{
  "Sale": {
    "ItemID": [
      {
        "@@Name": "Glass wine red",
        "#value": "DWRR11"
      }
    ],
    "ExtendedAmount": {"#value": 800 },
    "Quantity": [ {"#value": 1 } ]
  },
  "SequenceNumber": [ 2 ]
},
{
  "Sale": {
    "ItemID": [
      {
        "@@Name": "Matsukaze course",
        "#value": "RCCC22"
      }
    ],
    "ExtendedAmount": {"#value": 10800},
    "Quantity": [ {"#value": 1 } ]
  },
  "SequenceNumber": [ 3 ]
},
{
  "Sale": {
    "ItemID": [
      {
        "@@Name": "Chidori course",
        "#value": "RCCC41"
      }
    ],
    "ExtendedAmount": { "#value" : 8640 },
    "Quantity": [ {"#value": 1 } ]
  },
  "SequenceNumber": [ 4 ]
},
{
  "Sale": {
    "@@ItemType": "Service",
    "@@ItemSubType": "ServiceCharge",
    "ItemID": [
      {
        "@@Name": "Service charge(10%)",
        "#value": "SC311"
      }
    ],
    "ExtendedAmount": {"#value": 2089}
  },
  "SequenceNumber": [ 5 ]
},
{
  "Sale": {
    "@@ItemType": "Service",
    "@@ItemSubType": "RoomCharge",
    "ItemID": [
      {
```

```
        "@@Name": "Table charge(10%)",
        "#value": "TBC123"
       }
      ],
      "ExtendedAmount": {"#value": 2089}
    },
    "SequenceNumber": [ 6 ]
  },
  {
    "Tender": {
      "Amount": { "#value": 30000 },
      "TenderChange": [
        {
          "@@TenderType": "Cash",
          "Amount": {"#value": 4932}
        }
      ]
    },
    "SequenceNumber": [ 7 ]
  }
],
"Total": [
  {
    "@@TotalType": "TransactionDineInAmount",
    "#value": 20890
  },
  {
    "@@TotalType": "TransactionServiceFeeAmount",
    "#value": 4178
  },
  {
    "@@TotalType": "TransactionGrossAmount",
    "#value": 20890
  },
  {
    "@@TotalType": "TransactionNetAmount",
    "#value": 25068
  },
  {
    "@@TotalType": "TransactionGrandAmount",
    "#value": 25068
  },
  {
    "@@TotalType": "TransactionTaxIncluded",
    "#value": 1857
  }
],
"LoyaltyAccount": [
  {
    "LoyaltyProgram": [
      {
        "LoyaltyProgramID": [ { "@@Name": "Kudan Tomonokai" } ],
        "LoyaltyAccountID": {
          "@@Level": "Platinum",
          "#value": "XXXXXXYYYYZZZZ"
        }
      }
    ]
  }
],
"Foodservice": [
```

```
          {
            "TableID": [ "Bancho" ],
            "SeatID": [ "5" ],
            "PartySize": 2
          }
        ]
      }
    ]
  }
 ]
}
```

### 4.7 Digital receipt with group number, service charge, location information added

```
        Japanese cuisine restaurant
                    Kudan
                Customer Receipt
2016/04/07, 09:45:00, 123456789999
Ichigaya Station Store WWWWXXXX
Address: Kiyota Chiyoda 1 - Y - X
Order Taker: Masako yyyyzz
Bar Counter: Kazunori zzaabb
Room: Bancho,     Party Size:2
Drink
Beer                      x1      ￥ 650
Glass of wine red         x1      ￥ 800
Meal
Matsukaze course          x 1   ￥ 10800
Chidori course            x 1    ￥ 8640
Subtotal                        ￥ 20890
(Consumption tax                ￥ 1547)
---------------------------------
Service charge    (10%)         ￥ 2089
Table charge      (10%)         ￥ 2089
Subtotal                        ￥ 4178
(Consumption tax                 ￥ 309)
---------------------------------
Total                          ￥ 25068
(Consumption tax                ￥ 1857)
Cash                           ￥ 30000
Change                          ￥ 4932
Customer ID: XXXXXXYYYYYZZZZ Platinum
Cashier  ID: Akira zzzzz
Cashier No.:235-1
Invoice number: 334456, 556690
```

【JSON-16】


```
{
  "DigitalReceipt": {
    "@@MajorVersion": "3",
    "Transaction": [
      {
        "BusinessUnit": [
          {
            "UnitID": {
              "@@Name": "Ichigaya station",
              "#value": "WWWXXXX"
            },
            "Address": { "AddressLine": [ {"#value": "Chiyoda ku Kudan 1-Y-X"} ] }
          }
        ],
        "Logo": {
          "@@LogoFormat": "BMP",
          "FileName": "CulinaryRestaurantKudan.bmp"
        },
```

```
"POSLogDateTime": [{"#value": "2016-04-07T09:45:00"}],
"OperatorID": [
  {
    "@@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"},
"InvoiceNumber": [ {"#value": "334456"}, {"#value": "556690"} ],
"RetailTransaction": [
  {
    "LineItem": [
      {
        "Sale": {
          "ItemID": [
            {
              "@@Name": "Beer",
              "#value": "DBBB33"
            }
          ],
          "ExtendedAmount": {"#value": 650},
          "Quantity": [ {"#value": 1 } ]
        },
        "SequenceNumber": [ 1 ]
      },
      {
        "Sale": {
          "ItemID": [
            {
              "@@Name": "Glass wine red",
              "#value": "DWRR11"
            }
          ],
          "ExtendedAmount": {"#value": 800 },
          "Quantity": [ {"#value": 1 } ]
        },
        "SequenceNumber": [ 2 ]
      },
      {
        "Sale": {
          "ItemID": [
            {
              "@@Name": "Matsukaze course",
              "#value": "RCCC22"
            }
          ],
          "ExtendedAmount": {"#value": 10800},
          "Quantity": [ {"#value": 1 } ]
        },
```

```
    "SequenceNumber": [ 3 ]
  },
  {
    "Sale": {
      "ItemID": [
        {
          "@@Name": "Chidori course",
          "#value": "RCCC41"
        }
      ],
      "ExtendedAmount": { "#value" : 8640 },
      "Quantity": [ {"#value": 1 } ]
    },
    "SequenceNumber": [ 4 ]
  },
  {
    "Sale": {
      "@@ItemType": "Service",
      "@@ItemSubType": "ServiceCharge",
      "ItemID": [
        {
          "@@Name": "Service charge(10%)",
          "#value": "SC311"
        }
      ],
      "ExtendedAmount": {"#value": 2089}
    },
    "SequenceNumber": [ 5 ]
  },
  {
    "Sale": {
      "@@ItemType": "Service",
      "@@ItemSubType": "RoomCharge",
      "ItemID": [
        {
          "@@Name": "Table charge(10%)",
          "#value": "TBC123"
        }
      ],
      "ExtendedAmount": {"#value": 2089}
    },
    "SequenceNumber": [ 6 ]
  },
  {
    "Tender": {
      "Amount": { "#value": 30000 },
      "TenderChange": [
        {
          "@@TenderType": "Cash",
          "Amount": {"#value": 4932}
        }
      ]
    },
    "SequenceNumber": [ 7 ]
  }
],
"Total": [
  {
    "@@TotalType": "TransactionDineInAmount",
    "#value": 20890
  },
```

```
            {
              "@@TotalType": "TransactionServiceFeeAmount",
              "#value": 4178
            },
            {
              "@@TotalType": "TransactionGrossAmount",
              "#value": 20890
            },
            {
              "@@TotalType": "TransactionNetAmount",
              "#value": 25068
            },
            {
              "@@TotalType": "TransactionGrandAmount",
              "#value": 25068
            },
            {
              "@@TotalType": "TransactionTaxIncluded",
              "#value": 1857
            }
          ],
          "LoyaltyAccount": [
            {
              "LoyaltyProgram": [
                {
                  "LoyaltyProgramID": [ { "@@Name": "Kudan Tomonokai" } ],
                  "LoyaltyAccountID": {
                    "@@Level": "Platinum",
                    "#value": "XXXXXXYYYYZZZZ"
                  }
                }
              ]
            }
          ],
          "Foodservice": [
            {
              "TableID": [ "Bancho" ],
              "SeatID": [ "5" ],
              "PartySize": 2
            }
          ]
        }
      ]
    }
  ]
}
```

### 4.8 Digital receipt using Prepaid type gift card

#### 4.8.1 Digital receipt with an expiration date renewed with charge to gift card

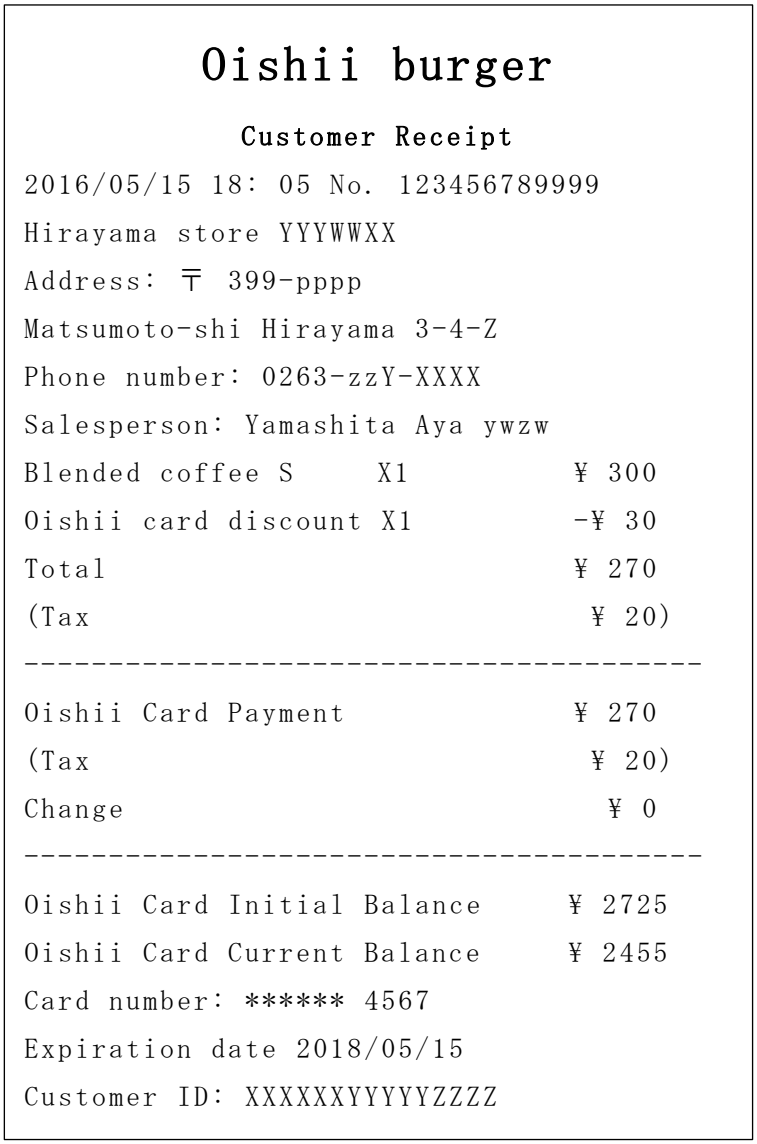
```
                Oishii burger
              Customer Receipt
2016/05/11 17:15 No.123456789999
          Hirayama store YYYWWXX
Address: 〒 399-pppp
Matsumoto-shi Hirayama 3-4-Z
Phone number: 0263-zzY-XXXX
Sales staff: Yumiko Tanaka uuzz
--------------------------------------
Oishii burger card charge
Cash payment                    ¥ 2000
--------------------------------------
  Total                         ¥ 2000
  Change                           ¥ 0
--------------------------------------
Initial Card Balance             ¥ 725
Card Balance                    ¥ 2725
Card number: ****** 4567
Expiration date 2018/05/11
Customer ID: XXXXXXYYYYYZZZZ
```

【JSON-17】


```
{
 "DigitalReceipt": {
  "@@MajorVersion": "3",
  "Transaction": [
   {
    "BusinessUnit": [
     {
      "UnitID": {
       "@@Name": "Oishii Burger",
       "@@TypeCode": "RetailStore",
       "#value": "YYYWWXX"
      },
      "Address": {
       "@@AddressType": "RetailStore",
       "AddressLine": [ {"#value": "Hirayama 3-4-Z"} ],
       "City": "Matsumoto City",
       "PostalCode": "399-pppp"
      },
      "Telephone": {
       "AreaCode": "0263",
       "LocalNumber": [ "zzY-XXXX" ]
      }
     }
    ],
    "OperatorID": [
     {
      "@@OperatorName": "Yumiko Tanaka",
      "@@OperatorType": "Cashier",
      "#value": "uuzz"
```

```
      }
    ],
    "RetailTransaction": [
     {
      "LineItem": [
       {
        "StoredValueFundSale": {
         "@@Action": "Recharge",
         "ItemID": [
          {
           "@@Name": "Oishii burger card",
           "#value": "******4567"
          }
         ],
         "ExtendedAmount": {"#value": 2000 }
        },
        "SequenceNumber": [ 1 ]
       },
       {
        "Tender": {
         "@@TenderType": "Cash",
         "Amount": {"#value": 2000},
         "GiftCard": [
          {
           "CardNumber": "******4567",
           "ExpirationDate": "2018-05-11",
           "InitialBalance": {"#value": 725},
           "CurrentBalance": {"#value": 2725}
          }
         ]
        },
        "SequenceNumber": [ 2 ]
       }
      ],
      "Total": [
       {
        "@@TotalType": "TransactionGrossAmount",
        "#value": 2000
       },
       {
        "@@TotalType": "TransactionNetAmount",
        "#value": 2000
       },
       {
        "@@TotalType": "TransactionGrandAmount",
        "#value": 2000
       },
       {
        "@@TotalType": "TransactionTaxAmount",
        "#value": 0
       }
      ]
     }
    ]
   }
  ]
}
```

### 4.8.2 Digital Receipt Paid with Charged Gift Card



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 ¥ 20)
---
Oishii Card Payment ¥ 270
(Tax ¥ 20)
Change ¥ 0
---
Oishii Card Initial Balance ¥ 2725
Oishii Card Current Balance ¥ 2455
Card number: ****** 4567
Expiration date 2018/05/15
Customer ID: XXXXXXYYYYYZZZZ

【JSON-18】


```
{
 "DigitalReceipt": {
  "@@MajorVersion": "3",
  "Transaction": [
   {
    "BusinessUnit": [
     {
      "UnitID": {
       "@@Name": "Oishii Burger",
       "@@TypeCode": "RetailStore",
       "#value": "YYYWWXX"
      },
      "Address": {
       "@@AddressType": "RetailStore",
       "AddressLine": [ {"#value": "Hirayama 3-4-Z"} ],
       "City": "Matsumoto City",
       "PostalCode": "399-pppp"
      },
      "Telephone": {
       "AreaCode": "0263",
       "LocalNumber": [ "zzY-XXXX" ]
```

```
    }
   }
  ],
  "OperatorID": [
   {
    "@@OperatorName": "Yamashita Akira",
    "@@OperatorType": "Cashier",
    "#value": "ywzw"
   }
  ],
  "RetailTransaction": [
   {
    "LineItem": [
     {
      "Sale": {
       "ItemID": [
        {
         "@@Name": "Blended coffee S",
         "#value": "678966"
        }
       ],
       "ExtendedAmount": {"#value": 270},
       "Quantity": [ {"#value": 1} ],
       "RetailPriceModifier": [
        {
         "@@MethodCode": "TargetedOffer",
         "SequenceNumber": 1,
         "Amount": {
          "@@Action": "Subtract",
          "#value": 30
         }
        }
       ]
      },
      "SequenceNumber": [ 2 ]
     },
     {
      "Tender": {
       "@@TenderType": "GiftCard",
       "Amount": {"#value": 270 },
       "GiftCard": [
        {
         "CardNumber": "****4567",
         "ExpirationDate": "2018-05-15",
         "InitialBalance": {"#value": 2725},
         "CurrentBalance": {"#value": 2455}
        }
       ]
      },
      "SequenceNumber": [ 3 ]
     }
    ],
    "Total": [
     {
      "@@TotalType": "TransactionGrossAmount",
      "#value": 300
     },
     {
      "@@TotalType": "TransactionNetAmount",
      "#value": 270
     },
```

```
          {
            "@@TotalType": "TransactionGrandAmount",
            "#value": 270
          },
          {
            "@@TotalType": "TransactionTaxIncluded",
            "#value": 20
          }
        ]
      }
    ]
  }
 ]
}
}
```

### 4.8.3 Digital receipt paid by gift card without change

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-31】**


```
{
 "DigitalReceipt": {
  "@@MajorVersion": "3",
  "Transaction": [
   {
    "BusinessUnit": [
     {
      "UnitID": {
       "@@Name": "Teishokuya, Yotsuya store",
       "@@TypeCode": "RetailStore",
       "#value": "xxxXX"
      },
      "Address": {
       "@@AddressType": "RetailStore",
       "AddressLine": [ {"#value": "Kudan Z-Y-w"} ],
       "City": "Chiyoda-ku",
       "PostalCode": "102-cccc"
      },
      "Telephone": {
       "AreaCode": "033",
       "LocalNumber": [ "zzY-ZZZZ" ]
      }
     }
    ],
    "OperatorID": [
     {
      "@@OperatorName": "Yamashita UU",
      "#value": "ywzw"
```

```
      }
    ],
    "ReceiptNumber": {"#value": "1234567777"},
    "RetailTransaction": [
     {
      "LineItem": [
       {
        "Sale": {
         "ItemID": [
          {
           "@@Name": "lunch set",
           "#value": "6678XX"
          }
         ],
         "ExtendedAmount": {"#value": 730},
         "Quantity": [ {"#value": 1} ],
         "Foodservice": { "@@DestinationType": "DineIn" }
        },
        "SequenceNumber": [ 1 ]
       },
       {
        "Tender": {
         "@@TenderType": "GiftCard",
         "@@TypeCode": "Sale",
         "Amount": {"#value": 730},
         "Voucher": [
          {
           "@@TypeCode": "GiftCertificate",
           "FaceValueAmount": {"#value": 1000},
           "UnspentAmount": {"#value": 270}
          }
         ]
        },
        "SequenceNumber": [ 2 ]
       }
      ],
      "Total": [
       {
        "@@TotalType": "TransactionNetAmount",
        "#value": 730
       },
       {
        "@@TotalType": "TransactionTaxAmount",
        "#value": 54
       },
       {
        "@@TotalType": "TransactionGrandAmount",
        "#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

Coffee Shop
A hill
Okahiro Station store zzz7899
Customer Receipt
〒909 zzzZ 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) |

【JSON-19】


```
{
 "DigitalReceipt": {
  "@@MajorVersion": "3",
  "Transaction": [
   {
    "BusinessUnit": [
     {
      "UnitID": {
       "@@Name": "Coffee Shop A Hill",
       "@@TypeCode": "RetailStore",
       "#value": "456678"
      },
      "Address": {
       "@@AddressType": "RetailStore",
       "AddressLine": [ {"#value": "Hara 90"} ],
       "City": "Shiota City",
       "PostalCode": "399-zzzZ"
      },
      "Telephone": {
```

```
    "AreaCode": "0263",
    "LocalNumber": [ "zzz-yyzz" ]
   }
  }
],
"ReceiptNumber": {"#value": "124566"},
"InvoiceNumber": [ {"#value": "485567"} ],
"RetailTransaction": [
 {
  "LineItem": [
   {
    "Sale": {
     "ItemID": [
      {
       "@@Name": "Blended coffee S",
       "#value": "678966 "
      }
     ],
     "ExtendedAmount": {"#value": 220 },
     "Quantity": [ {"#value": 1 } ],
     "Foodservice": { "@@DestinationType": "DineIn" }
    },
    "SequenceNumber": [ 1 ]
   },
   {
    "Sale": {
     "ItemID": [
      {
       "@@Name": "Iced Coffee S",
       "#value": "554433"
      }
     ],
     "ExtendedAmount": {"#value": 280},
     "Quantity": [ {"#value": 1 } ],
     "Foodservice": { "@@DestinationType": "DineIn" }
    },
    "SequenceNumber": [ 2 ]
   },
   {
    "Sale": {
     "ItemID": [
      {
       "@@Name": "Mix Sand M",
       "#value": "789956"
      }
     ],
     "ExtendedAmount": { "#value": 660 },
     "Quantity": [ {"#value" : 2} ],
     "Foodservice": { "@@DestinationType": "ToGo" }
    },
    "SequenceNumber": [ 3 ]
   },
   {
    "Sale": {
     "ItemID": [
      {
       "@@Name": "Iced Coffee S",
       "#value": "554433"
      }
     ],
     "ExtendedAmount": { "#value": 280 },
```

```
        "Quantity": [ {"#value": 1} ],
        "Foodservice": { "@@DestinationType": "ToGo" }
       },
       "SequenceNumber": [ 4 ]
      },
      {
       "Tender": {
        "@@TenderType": "CreditDebit",
        "Amount": {"#value": 1440 },
        "CreditDebit": [
         {
          "@@TypeCode": "Visa",
          "PrimaryAccountNumber": {"#value": "************xxyy"}
         }
        ]
       },
       "SequenceNumber": [ 5 ]
      }
     ],
     "Total": [
      {
       "@@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": 1440
      },
      {
       "@@TotalType": "TransactionTaxIncluded",
       "#value": 111
      }
     ]
    }
   ]
  }
 ]
}
}
```

### 4.9.2 Digital receipt charged to midnight fee (10%) for eat-in

**Coffee Shop**
A hill
Okahiro Station store zzz7899
Customer Receipt
〒909 zzzZ 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) |
| * Service fee (late-night fee) | |
| subtotal | ¥ 50 |
| (Consumption tax (8%)) | (¥4) |
| To-go subtotal | ¥ 940 |
| (Consumption tax (8%)) | (¥ 70) |

---

| | |
|---|---|
| Total | ¥ 1490 |
| (Consumption tax (8%)) | (¥ 111) |
| Credit Card Amount | ¥ 1490 |
| Credit number: ********** xxyy | |

【JSON-20】


```
{
 "DigitalReceipt": {
  "@@MajorVersion": "3",
  "Transaction": [
   {
    "BusinessUnit": [
     {
      "UnitID": {
       "@@Name": "Coffee Shop A Hill",
       "@@TypeCode": "RetailStore",
       "#value": "456678"
      },
```

```
    "Address": {
      "@@AddressType": "RetailStore",
      "AddressLine": [ {"#value": "Hara 90"} ],
      "City": "Shiota City",
      "PostalCode": "399-zzzZ"
    },
    "Telephone": {
      "AreaCode": "0263",
      "LocalNumber": [ "zzz-yyzz" ]
    }
  }
],
"ReceiptNumber": {"#value": "124566"},
"InvoiceNumber": [ {"#value": "485567"} ],
"RetailTransaction": [
  {
    "LineItem": [
      {
        "Sale": {
          "ItemID": [
            {
              "@@Name": "Blended coffee S",
              "#value": "678966 "
            }
          ],
          "ExtendedAmount": {"#value": 220},
          "Quantity": [ {"#value": 1 } ],
          "Foodservice": { "@@DestinationType": "DineIn" }
        },
        "SequenceNumber": [ 1 ]
      },
      {
        "Sale": {
          "ItemID": [
            {
              "@@Name": "Iced Coffee S",
              "#value": "554433"
            }
          ],
          "ExtendedAmount": {"#value": 280},
          "Quantity": [ {"#value": 1} ],
          "Foodservice": { "@@DestinationType": "DineIn" }
        },
        "SequenceNumber": [ 2 ]
      },
      {
        "Sale": {
          "ItemID": [
            {
              "@@Name": "Mix Sand M",
              "#value": "789956"
            }
          ],
          "ExtendedAmount": {"#value": 660},
          "Quantity": [ { "#value": 2 } ],
          "Foodservice": { "@@DestinationType": "ToGo" }
        },
        "SequenceNumber": [ 3 ]
      },
      {
        "Sale": {
```

```
    "ItemID": [
     {
      "@@Name": "Iced Coffee S",
      "#value": "554433"
     }
    ],
    "ExtendedAmount": { "#value": 280 },
    "Quantity": [ {"#value": 1} ],
    "Foodservice": { "@@DestinationType": "ToGo" }
   },
   "SequenceNumber": [ 4 ]
  },
  {
   "Sale": {
    "@@ItemType": "Service",
    "@@ItemSubType": "ServiceCharge",
    "ItemID": [
     {
      "@@Name": "Service fee (late-night fee)",
      "#value": "SC10"
     }
    ],
    "ExtendedAmount": { "#value": 50 },
    "ItemLink": [ 1, 2 ],
    "Foodservice": { "@@DestinationType": "DineIn" }
   },
   "SequenceNumber": [ 5 ]
  },
  {
   "Tender": {
    "@@TenderType": "CreditDebit",
    "Amount": { "#value": 1490 },
    "CreditDebit": [
     {
      "@@TypeCode": "Visa",
      "PrimaryAccountNumber": {"#value": "************xxyy"}
     }
    ]
   },
   "SequenceNumber": [ 6 ]
  }
 ],
 "Total": [
  {
   "@@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

**Coffee Shop**
**A hill**
Okahiro Station store zzz7899
Customer Receipt
〒909 zzzZ 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-21】**


```
{
 "DigitalReceipt": {
  "@@MajorVersion": "3",
  "Transaction": [
   {
    "BusinessUnit": [
```

```
  {
    "UnitID": {
      "@@Name": "Coffee Shop Hill",
      "@@TypeCode": "RetailStore",
      "#value": "456678"
    },
    "Address": {
      "@@AddressType": "RetailStore",
      "AddressLine": [ {"#value": "Hara 90"} ],
      "City": "Shiota City",
      "PostalCode": "399-zzzZ"
    },
    "Telephone": {
      "AreaCode": "0263",
      "LocalNumber": [ "zzz-yyzz" ]
    }
  }
],
"ReceiptNumber": {"#value": "124566"},
"InvoiceNumber": [ {"#value": "485567"} ],
"RetailTransaction": [
  {
    "LineItem": [
      {
        "Sale": {
          "ItemID": [
            {
              "@@Name": "Blended coffee S",
              "#value": "678966 "
            }
          ],
          "ExtendedAmount": {"#value": 220 },
          "Quantity": [ {"#value": 1 } ],
          "Foodservice": { "@@DestinationType": "DineIn" }
        },
        "SequenceNumber": [ 1 ]
      },
      {
        "Sale": {
          "ItemID": [
            {
              "@@Name": "Iced Coffee S",
              "#value": "554433"
            }
          ],
          "ExtendedAmount": {"#value": 280 },
          "Quantity": [ {"#value": 1 } ],
          "Foodservice": { "@@DestinationType": "DineIn" }
        },
        "SequenceNumber": [ 2 ]
      },
      {
        "Sale": {
          "ItemID": [
            {
              "@@Name": "Mix Sand M",
              "#value": "789956"
            }
          ],
          "ExtendedAmount": {"#value": 660 },
          "Quantity": [ {"#value": 2 } ],
```

```
      "Foodservice": { "@@DestinationType": "ToGo" }
    },
    "SequenceNumber": [ 3 ]
  },
  {
    "Sale": {
      "ItemID": [
        {
          "@@Name": "Iced Coffee S",
          "#value": "554433"
        }
      ],
      "ExtendedAmount": {"#value": 280 },
      "Quantity": [ {"#value": 1} ],
      "Foodservice": { "@@DestinationType": "ToGo" }
    },
    "SequenceNumber": [ 4 ]
  },
  {
    "Sale": {
      "@@ItemType": "Service",
      "@@ItemSubType": "ServiceCharge",
      "ItemID": [
        {
          "@@Name": "late night charge",
          "#value": "SC10"
        }
      ],
      "ExtendedAmount": {"#value": 28 },
      "ItemLink": [ 2 ],
      "Foodservice": { "@@DestinationType": "DineIn" }
    },
    "SequenceNumber": [ 5 ]
  },
  {
    "Tender": {
      "@@TenderType": "CreditDebit",
      "Amount": {"#value": 1440 },
      "CreditDebit": [
        {
          "@@TypeCode": "Visa",
          "PrimaryAccountNumber": {"#value": "************xxyy"}
        }
      ]
    },
    "SequenceNumber": [ 6 ]
  }
],
"Total": [
  {
    "@@TotalType": "TransactionDineInAmount",
    "#value": 500
  },
  {
    "@@TotalType": "TransactionDineInTaxAmount",
    "#value": 37
  },
  {
    "@@TotalType": "TransactionToGoAmount",
    "#value": 940
  },
```

```
          {
            "@@TotalType": "TransactionToGoTaxAmount",
            "#value": 70
          },
          {
            "@@TotalType": "TransactionServiceFeeAmount",
            "#value": 28
          },
          {
            "@@TotalType": "TransactionServiceFeeTaxAmount",
            "#value": 2
          },
          {
            "@@TotalType": "TransactionGrandAmount",
            "#value": 1468
          },
          {
            "@@TotalType": "TransactionTaxIncluded",
            "#value": 109
          }
        ]
      }
    ]
  }
 ]
}
}
```

### 4.9.4 Digital receipt that purchased products with different tax rates

**Coffee Shop**
**A hill**
Okahiro Station store zzz7899
Customer Receipt
〒909 zzzZ 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: ********** xxyy
*Subject to reduced tax rate

【JSON-30】

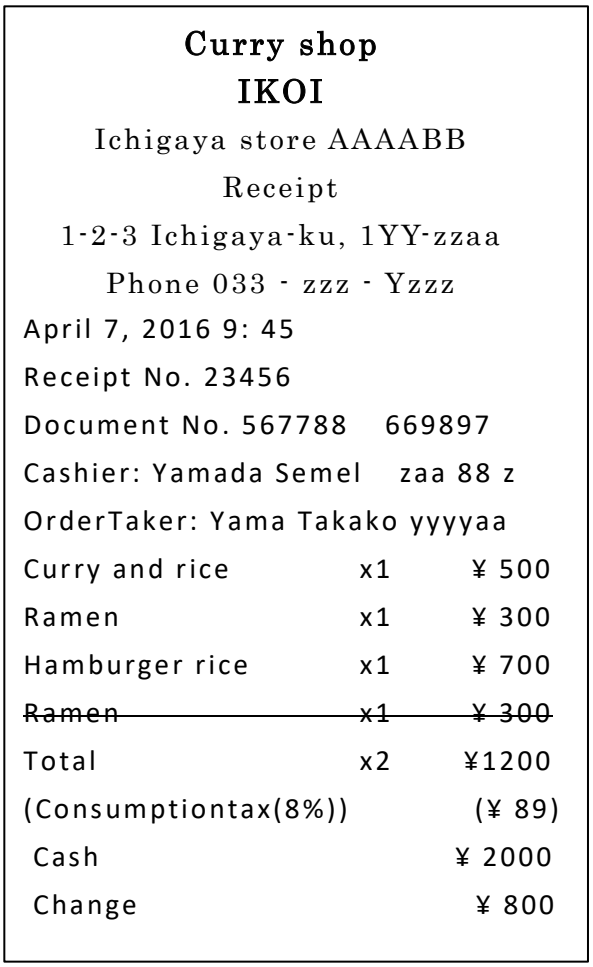

```
{
 "DigitalReceipt": {
  "@@MajorVersion": "3",
  "Transaction": [
   {
    "BusinessUnit": [
     {
      "UnitID": {
       "@@Name": "Coffee Shop A Hill",
       "@@TypeCode": "RetailStore",
       "#value": "456678"
      },
      "Address": {
       "@@AddressType": "RetailStore",
       "AddressLine": [ {"#value": "Hara 90"} ],
       "City": "Shiota City",
```

```
      "PostalCode": "399-zzzZ"
    },
    "Telephone": {
      "AreaCode": "0263",
      "LocalNumber": [ "zzz-yyzz" ]
    }
  }
],
"ReceiptNumber": {"#value": "124566"},
"InvoiceNumber": [ {"#value": "485567"} ],
"RetailTransaction": [
  {
    "LineItem": [
      {
        "Sale": {
          "ItemID": [
            {
              "@@Name": "Blended coffee S",
              "#value": "678966 "
            }
          ],
          "ExtendedAmount": {"#value": 224},
          "Quantity": [ {"#value": 1} ],
          "Tax": [
            {
              "@@TaxType": "Consumption",
              "Percent": 10
            }
          ],
          "Foodservice": { "@@DestinationType": "DineIn" }
        },
        "SequenceNumber": [ 1 ]
      },
      {
        "Sale": {
          "ItemID": [
            {
              "@@Name": "Iced Coffee S",
              "#value": "554433"
            }
          ],
          "ExtendedAmount": {"#value": 285},
          "Quantity": [ {"#value": 1} ],
          "Tax": [
            {
              "@@TaxType": "Consumption",
              "Percent": 10
            }
          ],
          "Foodservice": { "@@DestinationType": "DineIn" }
        },
        "SequenceNumber": [ 2 ]
      },
      {
        "Sale": {
          "ItemID": [
            {
              "@@Name": "Mix Sand M",
              "#value": "789956"
            }
          ],
```

```
      "ExtendedAmount": {"#value": 660},
      "Quantity": [ {"#value": 2} ],
      "Tax": [
        {
          "@@TaxType": "Consumption",
          "Percent": 8
        }
      ],
      "Foodservice": { "@@DestinationType": "ToGo" }
    },
    "SequenceNumber": [ 3 ]
  },
  {
    "Sale": {
      "ItemID": [
        {
          "@@Name": "Iced Coffee S",
          "#value": "554433"
        }
      ],
      "ExtendedAmount": {"#value": 280},
      "Quantity": [ {"#value": 1} ],
      "Tax": [
        {
          "@@TaxType": "Consumption",
          "Amount": {"#value": 100},
          "Percent": 8
        }
      ],
      "Foodservice": { "@@DestinationType": "ToGo" }
    },
    "SequenceNumber": [ 4 ]
  },
  {
    "Tender": {
      "@@TenderType": "CreditDebit",
      "Amount": {"#value": 1449},
      "CreditDebit": [
        {
          "@@TypeCode": "Visa",
          "PrimaryAccountNumber": {"#value": "************xxyy"}
        }
      ]
    },
    "SequenceNumber": [ 5 ]
  }
],
"Total": [
  {
    "@@TotalType": "TransactionDineInAmount",
    "#value": 509
  },
  {
    "@@Name": "Tax rate 10%",
    "@@TotalType": "TransactionDineInTaxAmount",
    "#value": 46
  },
  {
    "@@TotalType": "TransactionToGoAmount",
    "#value": 940
  },
```

```
          {
            "@@Name": "Tax rate 8%",
            "@@TotalType": "TransactionToGoTaxAmount",
            "#value": 70
          },
          {
            "@@TotalType": "TransactionGrandAmount",
            "#value": 1449
          },
          {
            "@@TotalType": "TransactionTaxIncluded",
            "#value": 116
          }
        ]
      }
    ]
  }
 ]
}
```

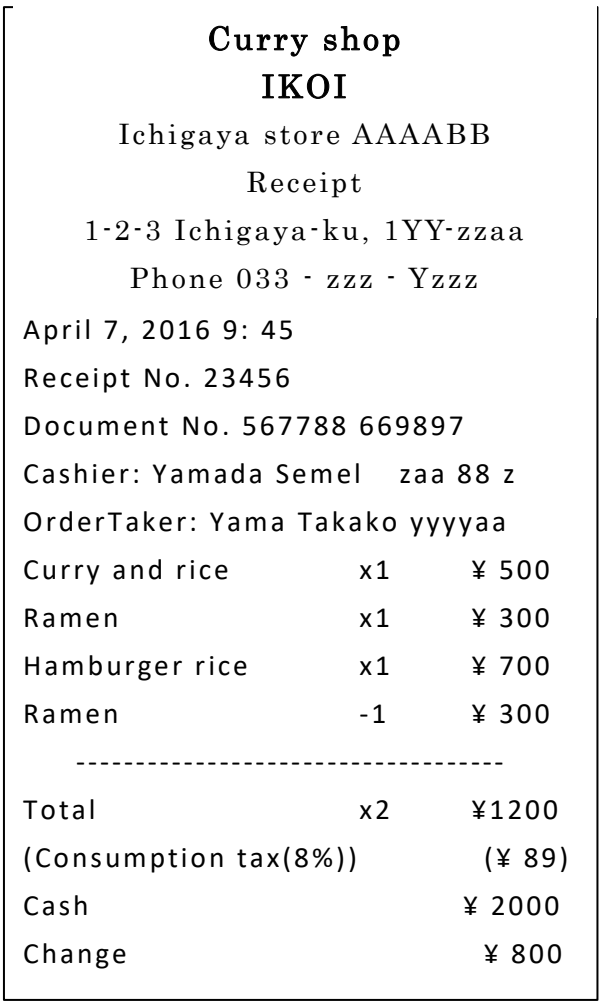
### 4.9.5 Digital receipt with return (cancellation) written



Curry shop
IKOI
Ichigaya store AAAABB
Receipt
1-2-3 Ichigaya-ku, 1YY-zzaa
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 yyyyaa

| | | |
|---|---|---|
| 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
1-2-3 Ichigaya-ku, 1YY-zzaa
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 yyyyaa

| | | |
|---|---|---|
| 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-22】


```
{
 "DigitalReceipt": {
  "@@MajorVersion": "3",
  "Transaction": [
   {
    "BusinessUnit": [
     {
      "UnitID": {
       "@@Name": "Ichigaya station",
       "#value": "AAAABB"
      },
      "Address": {
       "AddressLine": [ {"#value": "Ichigaya ku 1-2-3"} ],
       "PostalCode": "1YY-zzaa"
      },
      "Telephone": {
       "AreaCode": "03",
       "LocalNumber": [ "3zzzYzzz" ]
      }
     }
    ],
    "OperatorID": [
     {
      "@@OperatorName": "Yamada Semel",
```

```
    "@@OperatorType": "Cashier",
    "#value": "zaa88z"
   },
   {
    "@@OperatorName": "Yamamoto Takako",
    "@@OperatorType": "OrderTaker",
    "#value": "yyyyaa"
   }
],
"ReceiptDateTime": {"#value": "2016-04-07T09:45:00"},
"ReceiptNumber": {"#value": "234566"},
"InvoiceNumber": [ {"#value": "567788"}, {"#value": "669897"} ],
"RetailTransaction": [
 {
  "LineItem": [
   {
    "Sale": {
     "ItemID": [
      {
       "@@Name": "Curry Rice",
       "#value": "KK444"
      }
     ],
     "ExtendedAmount": {"#value": 500},
     "Quantity": [ {"#value": 1} ]
    },
    "SequenceNumber": [ 1 ]
   },
   {
    "Sale": {
     "ItemID": [
      {
       "@@Name": "Ramen",
       "#value": "RM44"
      }
     ],
     "ExtendedAmount": {"#value": 300},
     "Quantity": [ {"#value": 1} ]
    },
    "SequenceNumber": [ 2 ]
   },
   {
    "Sale": {
     "ItemID": [
      {
       "@@Name": "Hamburger rice",
       "#value": "HHB23"
      }
     ],
     "ExtendedAmount": {"#value": 700},
     "Quantity": [ {"#value": 1} ]
    },
    "SequenceNumber": [ 3 ]
   },
   {
    "Return": {
     "ItemID": [
      {
       "@@Name": "Ramen",
       "#value": "RM44"
      }
```

```
        ],
        "ExtendedAmount": {"#value": 300},
        "TransactionLink": [
          {
            "SequenceNumber": [ 2 ]
          }
        ]
      },
      "SequenceNumber": [ 4 ]
    },
    {
      "Tender": {
        "@@TenderType": "Cash",
        "Amount": {"#value": 2000},
        "TenderChange": [
          {
            "@@TenderType": "Cash",
            "Amount": {"#value": 800}
          }
        ]
      },
      "SequenceNumber": [ 4 ]
    }
  ],
  "Total": [
    {
      "@@TotalType": "TransactionGrandAmount",
      "#value": 1200
    },
    {
      "@@TotalType": "TransactionTaxAmount",
      "#value": 89
    }
  ]
 }
]
}
}
```

## 4.10 Digital receipts purchased two types of products with different tax rates according to the reduced tax rate

**Super market Okada**
Okahiro Station store zzz7899
**Customer Receipt**
〒909 zzzZ 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%)) (¥ 288)
Cash ¥ 10030
Change ¥ 6500
Customer ID: XXXXXXYYYYYZZZZ
Business number XXX - XXX
* Subject to reduced tax rate

【JSON-23】


```
{
 "DigitalReceipt": {
  "@@MajorVersion": "3",
  "Transaction": [
   {
    "BusinessUnit": [
     {
      "UnitID": {
       "@@Name": "Super market Okada",
       "#value": "456678"
      },
      "Address": {
       "AddressLine": [ {"#value": "Hara 90th"}, {"#value": "Shitota City"} ],
       "PostalCode": "399-zzzZ"
      },
```

```
    "Telephone": {
      "AreaCode": "0263",
      "LocalNumber": [ "zzz-yyzz" ]
    }
  }
],
"Logo": {
  "@@LogoFormat": "BMP",
  "FileName": "superokadaLogo.bmp"
},
"OperatorID": [ { "@@OperatorName": "Okada" } ],
"VATRegistrationNumber": "XXXX-XXX",
"ReceiptDateTime": {"#value": "2018-11-22T10:30:00"},
"ReceiptNumber": {"#value": "124566"},
"RetailTransaction": [
  {
    "LineItem": [
      {
        "Sale": {
          "ItemID": [
            {
              "@@Name": "Sasanishiki 5Kg",
              "#value": "678966"
            }
          ],
          "ExtendedAmount": {"#value": 2980},
          "Quantity": [ {"#value": 1} ],
          "Tax": [
            {
              "@@TaxType": "Consumption",
              "Amount": {"#value": 220},
              "Percent": 8
            }
          ]
        },
        "SequenceNumber": [ 1 ]
      },
      {
        "Sale": {
          "ItemID": [
            {
              "@@Name": "laundry detergent",
              "#value": "554433"
            }
          ],
          "ExtendedAmount": {"#value": 550},
          "Quantity": [ {"#value": 1} ],
          "Tax": [
            {
              "@@TaxType": "Consumption",
              "Amount": {"#value": 50},
              "Percent": 10
            }
          ]
        },
        "SequenceNumber": [ 2 ]
      },
      {
        "Tender": {
          "@@TenderType": "Cash",
          "Amount": {"#value": 10030},
```

```
        "TenderChange": [
          {
            "@@TenderType": "Cash",
            "Amount": {"#value": 6500}
          }
        ]
      },
      "SequenceNumber": [ 3 ]
    }
  ],
  "Total": [
    {
      "@@Name": "Tax rate 8% total item price",
      "@@TotalType": "TransactionSubtotal",
      "#value": 2980
    },
    {
      "@@Name": "Tax rate 8%",
      "@@TotalType": "TransactionSubtotalTaxAmount",
      "#value": 220
    },
    {
      "@@Name": "Tax rate 10% total item price",
      "@@TotalType": "TransactionSubtotal",
      "#value": 550
    },
    {
      "@@Name": "Tax rate 10%",
      "@@TotalType": "TransactionSubtotalTaxAmount",
      "#value": 50
    },
    {
      "@@TotalType": "TransactionGrandAmount",
      "#value": 3530
    },
    {
      "@@TotalType": "TransactionTaxAmount",
      "#value": 270
    }
  ],
  "Customer": [ { "CustomerID": "XXXXXXYYYYZZZZ" } ]
 }
 ]
 }
 ]
 }
}
```

## 5 Reference

ARTS Digital Receipt Specification v 3.1.0

## 6 Unresolved issue

//end