



The EkoCheras Mall Upload Sale Technical Specifications for POS/IT Vendor

v1.1

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Q&As: Electronically upload Daily Sale Data to EkoCheras's Server

Q1: What kind of PUSH file format is EKOCHERAS looking for?

A1: Please do not email or fax us your sale data.

- Extract required data fields (see page 4 below) and insert them into EkoCheras's DB via Restful API.
- Tenant's POS vendor (or IT team or engage 8dge Solutions S/B) should create an executable file (.exe) running on tenant's local machine (or server). The .exe should execute according to the time allowance stated.
- The Microsoft Windows' "Scheduled Tasks" in Control Panel will allow you to do the scheduled task.
- Each tenant will be assigned a unique KEY. Please request the KEY from the management it@ekocherasmall.com when your program is ready for testing.

Q2: Will the push sale data program interrupt my existing POS system?

A2: No. It will not interrupt the existing POS

- There's no change to your existing POS system.
- POS Vendor should have a way to indicate which sale record has been uploaded or which is not. This is to prevent any missing data during internet interruption.

Q3: What if my POS doesn't have tax_percent, tax_amount, service_charge_percent, and service_charge_amount fields?

A3: You may leave those fields as empty.

Q4: Can we send the daily Sales Total only in one single transaction? If we were to send every transaction, I assume that we only send completed transaction (for F&B, past midnight and table is still OPEN until customers leave)?

A4: No, EKOCHERAS needs sales total of each transaction, not End of Day (EOD) total. We do not need to know the details (item name, item ID, Cost price...etc.) of the items sold.

Yes, only send completed or voided transactions. For F & B, if that particular table is still occupied past midnight, that transaction can be sent later. Sale record follows sale datetime.

Q5: My program has shown successfully submitted, but EkoCheras did not receive any?

A5: Your program should check whether the data is submitted successfully instead of just execute and display 'completed' message. The API does return response in JSON.

Q6: My program needs to do reconciliation after closing, can I send you sale data the very next day?

A6: Yes. The cut off time is before (12.00pm) noon the very next day.

Q7: What should the POS submit to EkoCheras if there's no sale for the day?

A7: If there's no sale, please insert a transaction with YYYYMMDD (e.g. "20190925") as the **receiptNo** and "0" zero for both **SubTotal** and **GrandTotal** fields, and **ReceiptDateAndTime** as that particular business day.

Q8: Can I FTP a txt or csv file to EkoCheras FTP Folder?

A8: Yes. Upon request, the tenant will be given an individual login credential, via FTPs. The CSV format as below:

Sample CSV file

	A	B	C	D	E	F	G	H	I	J
1	A084524	08/12/2016 10:47	9.9	0	0	6	0.65	10	0.99	11.55
2	A084525	08/12/2016 14:00	67.82	0	0	6	4.48	10	6.78	79.1
3	A084526	08/12/2016 12:28	104.8	0	0	6	6.92	10	10.48	122.2
4	A084527	08/12/2016 12:15	74.7	0	0	6	4.93	10	7.47	87.1
5	A084528	08/12/2016 12:26	100.92	0	0	6	6.66	10	10.09	117.65
6	A084529	08/12/2016 12:09	49.9	0	0	6	3.29	10	4.99	58.2
7	A084530	08/12/2016 12:19	107.25	0	0	6	7.08	10	10.73	125.05
8	A084531	08/12/2016 13:19	50.84	0	0	6	3.36	10	5.08	59.3
9	A084532	08/12/2016 12:10	16.03	0	0	6	1.06	10	1.6	18.7
10	A084533	08/12/2016 12:33	31.98	0	0	6	2.11	10	3.2	37.3
11	A084534	08/12/2016 13:47	89.89	0	0	6	5.93	10	8.99	104.8
12	A084535	08/12/2016 13:38	87.92	0	0	6	5.8	10	8.79	102.5

Description of each column

A = Sale ID (bill No) *

B = Date time of that bill *

C = Subtotal *

D = Discount Percent (if any)

E = Discount Amount

F = SST Percent (6)

G = SST Amount *

H = Service Charge Percent (if any, apply to F&B only)

I = Service Charge Amount * (if any, apply to F&B only)

J = Grand Total *

* Compulsory field

Q9: What if a customer returns a good? How should I report the refund?

A9: You may report it as "isVoid" equals to 'true' and the item value.

OR, "isVoid" remains as 'false' but change the value from positive to negative, e.g. returning the product which is worth RM100, value is '-100.0'

Content-type: text/json

Host: tms.ekocherasmall.com

Authorization: Basic XXXXXABC ← This KEY will be provided upon request

- The authentication key in RED above will be provided to you by EkoCheras's IT department. Please request from it@ekocherasmall.com when your program is ready for testing.
- The following section will guide you through on how to consume the API methods (SendReceipts, GetReceipts and ClearTestData) using fiddler web debugger (<http://www.telerik.com/download/fiddler>)
- Available API methods are:
 - SendReceipts – To send sales receipts
 - GetReceipts – To view submitted sales receipts by date range
 - ClearTestData – To clear all sales receipts committed for testing purpose (test data, IsTest=true)
- The vendor is required to develop an executable file or modify their POS system to include this functionality for sending sales transactions to EkoCheras's finance department. There are plenty of sample codes you are able to source from internet on how to consume the RESTful API.

Data Format

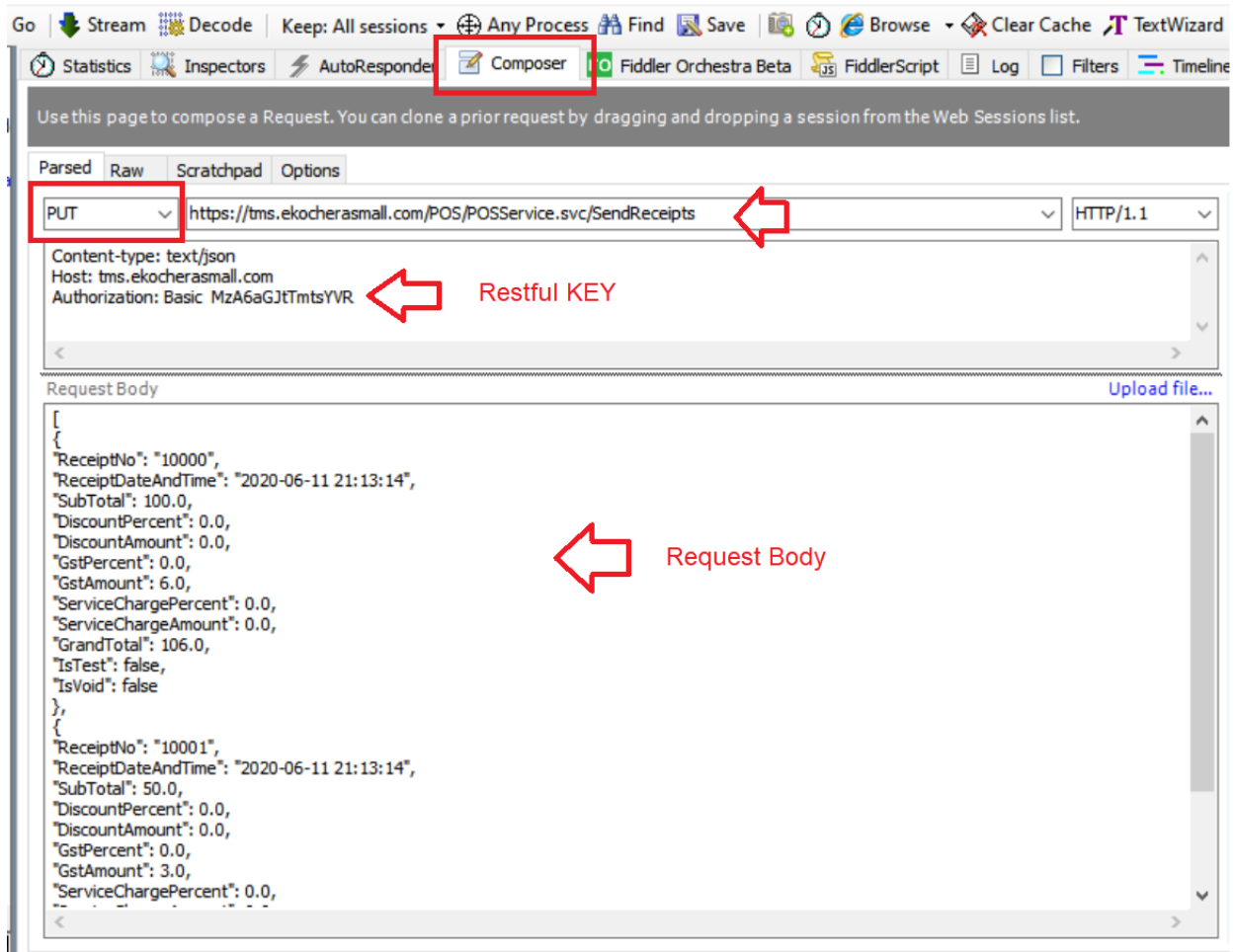
Format for ReceiptDateAndTime is: **yyyy-MM-dd HH:mm:ss**

public class Receipt

```
{
    public string ReceiptNo { get; set; }
    public Nullable<decimal> SubTotal { get; set; }
    public Nullable<double> DiscountPercent { get; set; }
    public Nullable<decimal> DiscountAmount { get; set; }
    public Nullable<double> GstPercent { get; set; }
    public Nullable<decimal> GstAmount { get; set; }
    public Nullable<double> ServiceChargePercent { get; set; }
    public Nullable<decimal> ServiceChargeAmount { get; set; }
    public decimal GrandTotal { get; set; }
    public bool? IsTest { get; set; }
    public bool IsVoid { get; set; }
    public string ReceiptDateAndTime { get; set; }
}
```

SendReceipts

URL: <https://tms.ekoherasmall.com/POS/POSService.svc/SendReceipts> (PUT)



Content-type: text/json
 Host: tms.ekoherasmall.com
 Authorization: Basic xxxxxxxx ← Restful KEY

Sample Request Body in JSON:

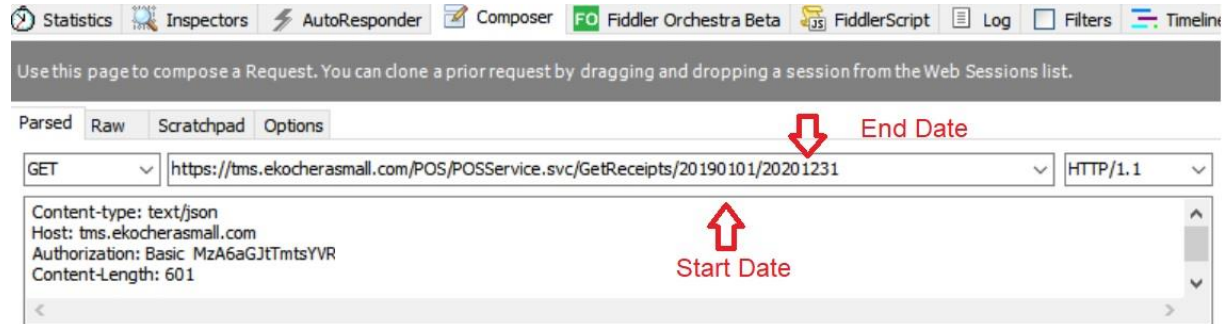
```
[
  {
    "ReceiptNo": "10000",
    "ReceiptDateAndTime2": "2020-06-11 21:13:14",
    "SubTotal": 100.0,
    "DiscountPercent": 0.0,
    "DiscountAmount": 0.0,
    "GstPercent": 0.0,
    "GstAmount": 6.0,
    "ServiceChargePercent": 0.0,
    "ServiceChargeAmount": 0.0,
    "GrandTotal": 106.0,
    "IsTest": false,
    "IsVoid": false
  },
  {
    "ReceiptNo": "10001",
    "ReceiptDateAndTime2": "2020-06-11 21:13:14",
    "SubTotal": 50.0,
    "DiscountPercent": 0.0,
    "DiscountAmount": 0.0,
    "GstPercent": 0.0,
    "GstAmount": 3.0,
    "ServiceChargePercent": 0.0,
    "ServiceChargeAmount": 0.0,
    "GrandTotal": 53.0,
    "IsTest": false,
    "IsVoid": true
  }
]
```

Sample Response in JSON:

```
.... JSON=True
```

GetReceipts

URL: <https://tms.ekoherasmall.com/POS/POSService.svc/GetReceipts/20190101/20201231> (GET)



Sample Response in JSON:

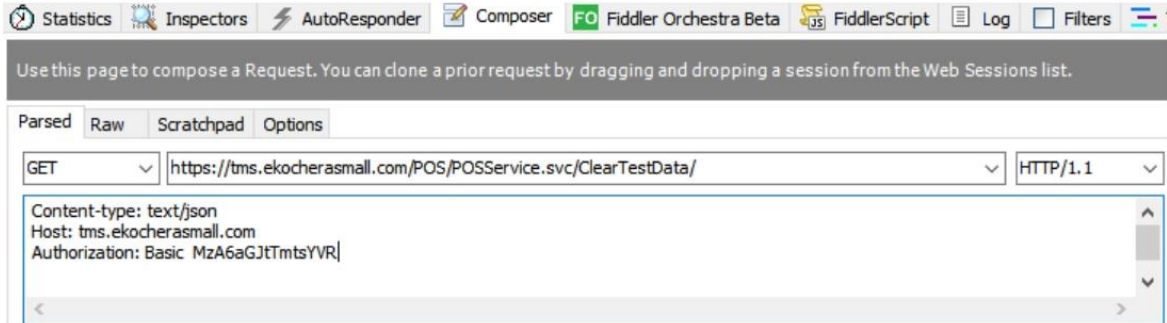
```

JSON
├── [0]
│   ├── DiscountAmount=0
│   ├── DiscountPercent=0
│   ├── GrandTotal=100
│   ├── GstAmount=0
│   ├── GstPercent=6
│   ├── IsTest=False
│   ├── ReceiptDateAndTime=/Date(1448941523000+0800)/
│   ├── ReceiptNo=10000
│   ├── ServiceChargeAmount=0
│   ├── ServiceChargePercent=0
│   └── SubTotal=100
├── [1]
│   ├── DiscountAmount=0
│   ├── DiscountPercent=0
│   ├── GrandTotal=56.5
│   ├── GstAmount=0
│   ├── GstPercent=0
│   ├── IsTest=False
│   ├── ReceiptDateAndTime=/Date(1449041592000+0800)/
│   ├── ReceiptNo=10001
│   ├── ServiceChargeAmount=0
│   ├── ServiceChargePercent=0
│   └── SubTotal=56.5

```

ClearTestData

URL: <https://tms.ekoherasmall.com/POS/POSService.svc/ClearTestData/> (GET)



Sample Response in JSON:

```
..... JSON=True
```