

HOURLY POS INTERFACE SPECIFICATIONS (WITH FILE RE-GENERATION) VER 1.0

Retailer's existing POS System Interface Requirements

1. The designated Point of Sales (POS) terminal or server should be running on Windows 98/2000/ XP/Vista/7/8/10 environment or Linux or Unix platform.
2. The POS terminal or server must hold a dedicated network card.
3. If tenant have an antivirus , tenant must assist to add an exception to our picker program.

Sales File Generation / Transmission Requirements

1. Sales files must be uploaded to Management Server via FTP/SFTP and by using DCS Picker program if sending from outlet .
2. POS terminal should generate 1 transaction file per day in text format (see Hourly GTO File Specifications below for more information).
If you have more than 1 POS terminal in your shop, the sales transactions of all POS units must be consolidated into 1 file from a designated Server/POS before FTP/SFTP transmission to Management Server.
3. POS terminal should generate sales files of past 3 days and upload to FTP/SFTP server daily.
For e.g., on 12th June, should re-generate sales files for 9th, 10th June and generate for 11th June . **This is only for tenants sending from HQ.**
This is to minimize the non-submissions.
4. Your POS system must have to ability to store backup files in circumstances where your report is not able to generate successfully (i.e network server not functioning). Your POS machine should automatically transfer all missing FTP/SFTP sales data when the connection is rectified. **DCS can work with your POS vendor to install a FTP/SFTP Program for this to occur.**
5. You must contact CMO immediately if your POS system is down and not able to FTP/SFTP data. All data must be stored and sent through when your system is rectified.
6. Sales file must be generated automatically at Day Closing (without pressing of button or User intervention).
7. Generated sales files must be transmitted automatically at Day Closing to designated folder (without pressing of button or User intervention). This is so that our DCS picker program could get report sent out daily . In case of upload from HQ Server, sales file must be uploaded by end of the business day or latest by 9am, next business day.
8. In case of outlet closure or no sales, POS Interface program must have the capability to upload sales files with "0.00 Sales"

9. If there are 2 or more shifts of cashiering, Interface program must generate only **1** file per day during end day CLOSING.
10. You must ensure that sales files are uploaded from 1st day of business commencement and on daily basis.
11. Tenant must use a fixed line only which is highly recommended as some wireless broadband and USB modem not supported.
12. Tenant must use only POS System (Cash Register is not allowed) and ensure the POS system able to generate report as our specification .
13. Tenant **are required to continue submit sales manually** after installation done until further notice from the Mall Management.
14. In case of any sales variance or adjustment done, tenants must send manually and inform the Mall Management before the 8th of every month.

Hourly GTO File Specifications

File Name (For Windows/Linux Operating system PC POS):

HXXXXXXXXX_YYYYMMDD.txt (e.g. H12345678_20080825.txt)

H – “H” for Hourly Format

XXXXXXXX – the tenant Machine ID number (to be assigned by Mall Management)

YYYY – 4-digit year (e.g. 2008 means year 2008)

MM – 2 digit month (e.g. 08 means August month)

DD – 2 digit day (e.g. 01, 03, 21 means days)

Note: YYYYMMDD – sales date

File type should be ANSI or ASCII

Filename date and data date must be the same

Data Format in the file: Information of hourly total written to a text file will include:

Field	Field Name	Type	Max Width	Format
1	Machine ID (provided by Mall Management)	Numeric	8	99999999
2	Batch ID (Z report closing number)	Numeric	12	999999999999
3	Date	Numeric	8	DDMMYYYY
4	Hour	TEXT	2	99 (should be 00-23)
5	Receipt Count (Number of transactions / receipts issued within the hour)	Numeric	12	999999999999 (no decimal)
6	GTO Sales (Nett sales amount after Discount and before SST. Include service charge for F&B only)	Numeric	12	999999999.99
7	SST	Numeric	12	999999999.99
8	Discount	Numeric	12	999999999.99
9	Service Charge for F&B only	Numeric	12	999999999.99
10	No. of Pax for F&B only	Numeric	12	999999999999 (no decimal)
11	Cash (Nett sales amount after Discount and before SST. Include service charge for F&B only)	Numeric	12	999999999.99

12	TNG (Nett sales amount after Discount and before SST. Include service charge for F&B only) ** This is using Touch N Go	Numeric	12	999999999.99
13	Visa (Nett sales amount after Discount and before SST. Include service charge for F&B only)	Numeric	12	999999999.99
14	MasterCard (Nett sales amount after Discount and before SST. Include service charge for F&B only)	Numeric	12	999999999.99
15	Amex (Nett sales amount after Discount and before SST. Include service charge for F&B only)	Numeric	12	999999999.99
16	Voucher (Nett sales amount after Discount and before SST. Include service charge for F&B only)	Numeric	12	999999999.99
17	Others (Nett sales amount after Discount and before SST. Include service charge for F&B only)	Numeric	12	999999999.99
18	SST Registered	Char	1	Y or N

- Total lines must be **24 lines only**
- All figures must not have any “,” symbol
- All fields should be separated by “|” and without and spaces
- All lines should end with a terminator “CR LF” for Windows , “CR” for Mac or “LF” for Linux
- Tenants must have windows Task Scheduler .
- Payment Type field 11-17 figures must be after discount and before SST including service charge for F&B
- **Batch ID:** It should be a sequential number starting from 1 for the first file generated. It should be incremented by 1 for each subsequent file generated. It should be unique meaning that no 2 days can have same batch ID.

In case of reloaded sales file, Batch ID should be same as in previously uploaded file for a particular sales date.

- **Refund:** In case of refund, sales amount should be deducted from current sales amount. For example,

Refund Transaction details:

Sales date & time: 10/08/2011 10:00

GTO: 200.00

Refund date & time: 15/08/2011 15:20

Net Sales for 15/08/2011 1559: 600.00

GTO for 15/08/2011 1559: 600.00-200.00 = 400.00

*Note: In case of shop closure or no sales, sales data has to be uploaded with 0 sales. In case of any amendments in sales figures, tenant has to regenerate and upload the data by end of the month and **Batch ID should be same** as in previously uploaded file for a particular sales date.*

SAMPLE TRANSACTION FOR F&B BUSINESS

Sample 1: One transaction with 2 payments at 2:05 pm

Food Item	\$30.00
Discount	-\$10.00
Total	\$20.00
Service Charge (10%)	\$2.00
GTO	\$22.00
SST (7%)	\$1.54
TOTAL PAYMENT	\$23.54

COMPUTATION:
 = total X .10
 = total + SC
 = (total + SC) X .07

Payment Breakdown

	CASH	VISA
Payment breakdown	\$10.00	\$13.54
Amount (without SST & SC)	\$8.50	\$11.50
Service Charge	\$0.85	\$1.15
SST	\$0.65	\$0.89

COMPUTATION:
 = Payment / 1.177
 = Amount X .10
 = (Amount + SC) X .07

Sample interface file format:

H12345678_20160123.txt - Notepad																
File Edit Format View Help																
12345678	1	23012016	00	0	0.00	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	Y
12345678	1	23012016	01	0	0.00	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	Y
12345678	1	23012016	02	0	0.00	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	Y
12345678	1	23012016	03	0	0.00	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	Y
12345678	1	23012016	04	0	0.00	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	Y
12345678	1	23012016	05	0	0.00	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	Y
12345678	1	23012016	06	0	0.00	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	Y
12345678	1	23012016	07	0	0.00	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	Y
12345678	1	23012016	08	0	0.00	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	Y
12345678	1	23012016	09	0	0.00	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	Y
12345678	1	23012016	10	0	0.00	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	Y
12345678	1	23012016	11	0	0.00	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	Y
12345678	1	23012016	12	0	0.00	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	Y
12345678	1	23012016	13	0	0.00	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	Y
12345678	1	23012016	14	1	22.00	1.54	10.00	2.00	2	9.35	0.00	12.65	0.00	0.00	0.00	Y
12345678	1	23012016	15	0	0.00	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	Y
12345678	1	23012016	16	0	0.00	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	Y
12345678	1	23012016	17	0	0.00	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	Y
12345678	1	23012016	18	0	0.00	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	Y
12345678	1	23012016	19	0	0.00	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	Y
12345678	1	23012016	20	0	0.00	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	Y
12345678	1	23012016	21	0	0.00	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	Y
12345678	1	23012016	22	0	0.00	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	Y
12345678	1	23012016	23	0	0.00	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	Y

Sample 2: One transaction with 3 payments at 11:30 am

Food Item	\$171.20
Total	\$171.20
Service Charge (10%)	\$17.12
GTO	\$188.32
SST (7%)	\$13.18
Total Payment	\$201.50

Payment Breakdown

	NETS	MASTER	VOUCHER
Payment breakdown	\$50.00	\$121.50	\$30.00
Amount (without SST & SC)	\$42.48	\$103.23	\$25.49
Service Charge	\$4.25	\$10.32	\$2.55
SST	\$3.27	\$7.95	\$1.96

Sample interface file format:

H12345678_20160130.txt - Notepad

File	Edit	Format	View	Help													
12345678	1	30012016	00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Y
12345678	1	30012016	01	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Y
12345678	1	30012016	02	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Y
12345678	1	30012016	03	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Y
12345678	1	30012016	04	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Y
12345678	1	30012016	05	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Y
12345678	1	30012016	06	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Y
12345678	1	30012016	07	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Y
12345678	1	30012016	08	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Y
12345678	1	30012016	09	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Y
12345678	1	30012016	10	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Y
12345678	1	30012016	11	1	188.32	13.18	0.00	17.12	5	0.00	46.73	0.00	113.55	0.00	28.04	0.00	Y
12345678	1	30012016	12	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Y
12345678	1	30012016	13	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Y
12345678	1	30012016	14	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Y
12345678	1	30012016	15	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Y
12345678	1	30012016	16	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Y
12345678	1	30012016	17	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Y
12345678	1	30012016	18	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Y
12345678	1	30012016	19	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Y
12345678	1	30012016	20	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Y
12345678	1	30012016	21	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Y
12345678	1	30012016	22	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Y
12345678	1	30012016	23	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Y

SAMPLE TRANSACTION FOR RETAIL BUSINESS

Sample 1: One transaction with 2 payments at 12:00 pm

Item Cost (inclusive of SST)	\$45.50
Discount	-\$10.00
Total Payment	\$35.50
SST (7%)	\$2.32
GTO	\$33.18

COMPUTATION:
 = *GTO X .07*
 = *Total Payment / 1.07*

Payment Breakdown

	Voucher	Nets
Payment breakdown	\$20.00	\$15.50
Amount (without SST)	\$18.69	\$14.49
SST	\$1.31	\$1.01

COMPUTATION:
 = *Payment / 1.07*
 = *Amount X .07*

Sample interface file format:

File	Edit	Format	View	Help													
12345678	1	02022016	00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Y
12345678	1	02022016	01	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Y
12345678	1	02022016	02	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Y
12345678	1	02022016	03	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Y
12345678	1	02022016	04	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Y
12345678	1	02022016	05	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Y
12345678	1	02022016	06	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Y
12345678	1	02022016	07	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Y
12345678	1	02022016	08	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Y
12345678	1	02022016	09	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Y
12345678	1	02022016	10	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Y
12345678	1	02022016	11	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Y
12345678	1	02022016	12	1	33.18	2.32	10.00	0.00	0.00	0.00	14.49	0.00	0.00	0.00	18.69	0.00	Y
12345678	1	02022016	13	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Y
12345678	1	02022016	14	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Y
12345678	1	02022016	15	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Y
12345678	1	02022016	16	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Y
12345678	1	02022016	17	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Y
12345678	1	02022016	18	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Y
12345678	1	02022016	19	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Y
12345678	1	02022016	20	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Y
12345678	1	02022016	21	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Y
12345678	1	02022016	22	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Y
12345678	1	02022016	23	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Y