

HOURLY POS INTERFACE SPECIFICATIONS VER 1.6

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.

Sales File Generation / Transmission Requirements

1. Sales files must be uploaded to Management Server via secured FTP.
2. POS terminal should generate 1 transaction file in text format daily (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 sFTP transmission to Management Server.
3. Your POS system must have to ability to store backup files in circumstances where your sFTP is not able to upload successfully (i.e network server not functioning). Your POS machine should automatically transfer all missing sFTP sales data when the connection is rectified. DCS can work with your POS vendor to install a sFTP Program for this to occur.
4. You must contact CMO immediately if your POS system is down and not able to sFTP data. All data must be stored and sent through when your system is rectified.
5. Sales file must be generated automatically at Day Closing (without pressing of button or User intervention).
6. Generated sales file must be transmitted automatically at Day Closing (without pressing of button or User intervention). This is applicable if you are not using DCS picker program. 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.
7. In case of outlet closure or no sales, POS Interface program must have the capability to upload sales files with "0 Sales"
8. If there are 2 or more shifts of cashiering, Interface program must generate only **1** file at end day CLOSING.
9. You must ensure that sales files are uploaded from 1st day of business commencement and on daily basis.

Hourly GTO File Specifications

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

HXXXXXXXX_YYYYMMDD.txt (e.g. H1234567_20080823.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
6	GTO Sales (Nett sales amount after Discount and before GST. Include service charge for F&B only)	Numeric	12	999999999.99
7	GST	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
11	Cash (after Discount and before GST)	Numeric	12	999999999.99
12	NETS (after Discount and before GST)	Numeric	12	999999999.99
13	Visa (after Discount and before GST)	Numeric	12	999999999.99

14	MasterCard (after Discount and before GST)	Numeric	12	999999999.99
15	Amex (after Discount and before GST)	Numeric	12	999999999.99
16	Voucher (after Discount and before GST)	Numeric	12	999999999.99
17	Others (after Discount and before GST)	Numeric	12	999999999.99
18	GST Registered	Char	1	Y or N

- All fields should be separated by “|”
- Payment Type field 11-17 figures must be after discount and before GST 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
GST (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 GST & SC)	\$8.50	\$11.50
Service Charge	\$0.85	\$1.15
GST	\$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|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|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|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|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|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|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|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|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|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|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|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|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|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|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|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|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|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|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|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|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|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|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|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|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
GST (7%)	\$13.18
Total Payment	\$201.50

Payment Breakdown

	NETS	MASTER	VOUCHER
Payment breakdown	\$50.00	\$121.50	\$30.00
Amount (without GST & SC)	\$42.48	\$103.23	\$25.49
Service Charge	\$4.25	\$10.32	\$2.55
GST	\$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|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|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|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|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|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|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|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|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|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|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|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|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|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|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|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|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|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|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|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|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|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|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|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 GST)	\$45.50
Discount	-\$10.00
Total Payment	\$35.50
GST (7%)	\$2.32
GTO	\$33.18

COMPUTATION:
 = $GTO \times .07$
 = $Total\ Payment / 1.07$

Payment Breakdown

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

COMPUTATION:
 = $Payment / 1.07$
 = $Amount \times .07$

Sample interface file format:

H12345678_20160202.txt - Notepad

File	Edit	Format	View	Help														
12345678	1	02022016	00	0	0.00	0.00	0.00	0.00	0	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Y	