



POS DIAGNOSTICS API BRIDGE



APRIL 27, 2020
STRIDE WEB STUDIO FZE
Dubai, UAE

Project Overview

Client is looking to develop an API bridge to store and safely share this information with TMS.

API-1 (POS to Cloud)

A REST API will be provided which can be configured on POS terminals to send the information as formdata in JSON format. Machines will be identified based on following parameters

S.NO	Parameter / Constraint	Description
1	Family	Terminal Model/Series
2	Application	POS Application Name
3	Version	POS Application Version
4	TerminalID	POS logical Terminal ID in TMS System
5	PTID	Terminal Product ID
6	S.NO	Terminal Hardware ID

Following fields will be captured and stored in the database.

Geolocation

Field Order	Field Name
1	Longitude
2	Latitude
3	SIM IP
4	RFU
5	RFU

Payment Statistics

Field Order	Field Name
1	Total No. of Card Transactions
2	Card Name
3	Total debit Transaction Count
4	Total Credit Transaction Count
5	Total debit Transaction Amount
6	Total Credit Transaction Amount
7	RFU
8	RFU
9	RFU
10	RFU

Hardware Details

Field Order	Field Name
1	Power Connected
2	Battery Percentage
3	Signal Percentage
4	Printer Status
5	Network Provider Name



6	SIM No.
7	RFU
8	RFU
9	RFU
10	RFU

Version Details

Field Order	Field Name
1	OS
2	EOS
3	POS Application Version
4	EMV Version
5	ADK Version
6	CTLS Version
7	RFU
8	RFU
9	RFU
10	RFU

8	BLUETOOTH MAC Address
9	RFU
10	RFU

Hardware Details

Field Order	Field Name
1	PartNO
2	Serial No
3	Flash Memory
4	Ram Memory
5	IMEI NO.
6	PTID
7	WIFI MAC Address

TMS

Field Order	Field Name
1	Model
2	Terminal ID
3	Application*Version
4	IP Address
5	Last Download Status
6	Last Download DateTime
7	TMS Frequency
8	Next Download DateTime
9	Mode of Connectivity
10	Device Status
11	Merchant ID
12	Branch ID
13	RFU
14	RFU
15	RFU

API-2 (Cloud to TMS)

An API will be provided to share the information for all the fields mentioned above. The last available update will be shared during the API call. Historic submissions will not be maintained for any fields other than the ones mentioned in API 3(Cloud to TMS Historic data).

API-3 (Cloud to TMS Historic data)

Historic data will be maintained for the following parameters. An API will be provisioned to access this data by mentioning the date range: -

Version Details

Field Order	Field Name
1	OS
2	EOS
3	POS Application Version
4	EMV Version
5	ADK Version
6	CTLS Version
7	RFU
8	RFU
9	RFU
10	RFU

8	BLUETOOTH MAC Address
9	RFU
10	RFU

Geolocation

Field Order	Field Name
1	Longitude
2	Latitude
3	SIM IP
4	RFU
5	RFU

Payment Statistics

Field Order	Field Name
1	Total No. of Card Transactions
2	Card Name
3	Total debit Transaction Count
4	Total Credit Transaction Count
5	Total debit Transaction Amount
6	Total Credit Transaction Amount
7	RFU
8	RFU
9	RFU
10	RFU

Hosting Environment

Database – MySQL
Files – Azure File Storage
Compute – Containers

Project will be designed on a cloud based docker architecture to ensure availability and security. These functions will be hosted in Microsoft Azure and can be replicated across multiple regions for availability and redundancy.

