



Sparrow Configuration Extract

Version 1.13

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VERSION CONTROL PAGE

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1.1	05/04/2016	Amendments	Domenic Strano
1.2	06/04/2016	Added ENI details	Zusanne Calvelo
1.3	13/06/2016	Additional fields in IMD Table extracts	Zusanne Calvelo
1.4	17/10/2016	Added and retired certain fields from IMD Table extracts for Sparrow 82+ versions.	Andrew Calkin
1.5	16/12/2016	Retired the Exponent field from IMD Table extracts for Sparrow 82+ versions.	Domenic Strano
1.6	23/05/2017	Added configuration information. Travellers Cheques retired. Offline Mode Removed from IMD Table Extract	Domenic Strano
1.7	16/08/2017	Added POS Terminal Export/Import for POSISO03	Domenic Strano
1.8	23/11/2017	Additional fields in IMD Table extracts used for card production and eCommerce card services restrictions	Jaco Greyvenstein
1.9	22/01/2018	From V82.04+ the POS terminal record will no longer contain the POS product type. This field has been deprecated from V82.04.	Domenic Strano
1.10	22/02/2018	Added POS Merchant Export/Import for POSISO03	Ross Bennett
1.11	16/10/2018	Added Network IMD-BIN mapping	Ross Bennett
1.12	31/10/2018	Updated section 2.5.4 with Merchant Maintenance option	Domenic Strano
1.13	24/09/2019	POSISO05 Merchant Import/Export new fields for multi acquirer support.	Angus Boyd

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01 Introduction

The Sparrow Configuration Extract tool allows many of the configuration parameters required in Sparrow, SparrowPOS , SparrowHUB and associated External Network Interfaces to be managed externally to Sparrow.

The tool allows records to be extracted and manipulated by third party packages such as Excel for review and audit purposes. Records can be modified and new entries made with the data then imported into Sparrow for update.

Automated processing is supported for most options where the Automation Module is licensed.

Export and Import files will be in the JSON format.

02 Supported Options

2.1 Sparrow Options

The following Sparrow options are supported by the Configuration Extract tool.

- Network Maintenance
- Services Maintenance
- IMD Table Maintenance

2.2 SparrowHUB Options

The following SparrowHUB options are supported by the Configuration Extract tool.

- Subscriber Maintenance
- Interface Maintenance
- Mapping Maintenance
- Routing Maintenance

2.3 External Network Interface Options

The following ENI options are supported by the Configuration Extract tool.

- Terminal Data Maintenance
- IMD-BIN Mapping Maintenance

2.4 SparrowPOS Options

The following SparrowPOS (*) options are supported by the Configuration Extract tool.

- Terminal Maintenance
- Merchant Maintenance

(*) POS version posiso05

03 File Format Description

The JSON data extract files are formatted and validated in accordance to JSON specifications as specified in the [ECMA-404 The JSON Data Interchange Standard](#).

The filename adheres to the following convention below,

dbx <product name> <option identifier>.json

Where “product name” is a 3-character identifier of the system, which can be,

spa Sparrow System

hub SparrowHUB System

net ENI TLA eg. pls, mds, upi is the 'System Identity' configured in the ENI foreground's Installation Parameters

pos SparrowPOS System

And, where “option identifier” is a 3-character identifier of the type of extract or option, which can be,

atm ATM records extracted via Sparrow Network Maintenance

imd IMD records extracted via Sparrow IMD Table Maintenance

svc Service Restriction records extracted via Services Maintenance

sub Subscriber records extracted via SparrowHUB Subscriber Maintenance

hi Interface records extracted via SparrowHUB Interface Maintenance

rte Routing records extracted via SparrowHUB Routing Maintenance

map Mapping records extracted via SparrowHUB Mapping Maintenance

| **trm** | Terminal Data records extracted via ENI's Terminal Data Maintenance |

bim IMD-BIN Mapping records extracted via ENI's IMD-BIN Mapping Maintenance

ptd POS Terminal Data records extracted as available in Terminal Maintenance

For instance, a data extract for *Sparrow Network Maintenance* is named as,

```
dbx spa atm.json
```

For a data extract of MasterCard Network's Terminal Data Maintenance,

dbx mds trm.json

A data extract exported from system can be found in the `~/extracts` directory.

A data extract imported to the system will be read from the `~/floppy` directory.

3.1 Conventions

The following conventions can be referenced for understanding the data extracts field definitions in the succeeding sections.

Data Extract Field Requirement:

M	field is mandatory
O	field is optional and processed when available
C	field is conditional (may be required if certain fields are licensed or enabled)
I	field is ignored when available
N	field is not supported

Data Extract Field Format:

a	alpha character(s)
an	alpha or numeric character(s)
ans	alpha, numeric, or special character(s)
b	string of boolean value (true TRUE, false FALSE)
c	single ascii character
dt	string of date and time value
h	hex integer value
n	numeric integer
ns	string of numeric characters
s	string of ascii characters

Data Extract JSON Object Name:

This can be referenced as the root JSON object name at the beginning of every extracted data. It is the combined system name and extract option name to identify the extract data.

System Names are as follows,

Sparrow	Sparrow System
SparrowHUB	Sparrow HUB System
SparrowPOS	SparrowPOS System
ExternalNetwork	The formatted 'Network Name' configured in the ENI foreground's General Parameters

Whereas, Extract Option Names are as follows,

```
NetworkMaintenance
IMDTableMaintenance
ServiceMaintenance
SubscriberMaintenance
InterfaceMaintenance
RoutingMaintenance
MappingMaintenance
TerminalDataMaintenance
IMDBINMappingMaintenance
POSTerminalMaintenance
```

For instance, the object name of a MasterCard ENI's Terminal Data Maintenance extract may be as below, which would only change according to the configured 'Network Name' for MasterCard ENI.

MasterCardNetwork TerminalDataMaintenance

The data extracts implement strict data typing (i.e. strings must be delimited by double quotes). Also, refer to [ECMA-404 The JSON Data Interchange Standard](#) for standard data type definitions supported in JSON format.

04 Data Extract Formats

The following sections lists the foreground functions with available data extracts. Each table defines the supported fields for each file or function.

4.1 Sparrow

4.1.1 Network Maintenance Data Extract

Function:	161	Network Maintenance Data Export or *Import <i>*Import of existing records not supported in automation mode</i>
-----------	-----	---

Field name	Format	Max	Export	Import	Description
Index	n		M	M	Record index
ID	ns	4	M	M	ATM ID
Name	ans	15	M	O	ATM Name
Name_Lang_2	ans	15	M	O	ATM Name (in second language)
IMD	ns	6	M	I	IMD associated with the ATM
Branch	ns	4	M	M	ATM Branch
Protocol	n	1	M	M	Selected Communications Protocol 0 : uses comports.dat 1 : TCP/IP Socket 2 : ISO Async (Legacy) 3 : SSL + TCP/IP Socket
Protocol_Config	ans	51	C	C	Communications Protocol configuration details
Poll_Code	ns	4	C	C	Polling code required when protocol is '0' or '2'
Port_Number	ns	4	M	M	Port number assigned to the communications driver
BNA_Device	a	1	C	C	Required when BNA device is licensed Y : ATM Has BNA device enabled N : ATM Has BNA device disabled
BNA_FX_Device	a	1	C	C	Required when BNA FX device is licensed Y : BNA FX is configured for ATM N : BNA FX is not configured for ATM
Anonymous_BNA	a	1	C	C	Required when BNA device is licensed Y : ATM is allowed anonymous service on BNA N : ATM is not allowed anonymous service on BNA device
ATM_Group	ns	2	M	M	ATM Group
ATM_Fee_Group	ns	2	C	C	ATM's Acquirer Fee Group, required when Acquirer Fee module is licensed
Model_ID	ns	2	M	I	ATM Model Identifier e.g. 14 : Interbold 478x 16 : Siemens - Nixdorf 19 : NCR 5688
Model_Desc	ans		M	I	ATM Model Description
Model_Last_Notified	dt		M	I	ATM Model Last Update Notification
Application_ID	ns	2	M	I	ATM Application Identifier e.g. 6 : BW ATM Client 8 : EMV BW ATM Client
Application_Desc	ans		M	I	ATM Application Description
EMV_Capable	a	1	M	I	Y : ATM has EMV capabilities N : ATM has no EMV capabilities
COPAC_Capable	a	1	M	I	Y : ATM has COPAC capabilities N : ATM has no COPAC capabilities
CEPS_Capable	a	1	M	I	Y : ATM has CEPS capabilities N : ATM has no CEPS capabilities
Chip_IFD_Serial	h	8	M	I	Chip Interface Device Serial Code
Dynamic_KEK	a	1	M	M	Y : Dynamic ATM KEK can be downloaded to the ATM N : Uses KEK cards or manual entry of KEKs at the ATM
KEK_Zone	ns	4	C	C	KEK zone used by the ATM, required when not using Dynamic KEK

4.1.2 Service Maintenance Data Extract

Function:	162	Service Maintenance Data Export or *Import <i>*Import not supported in automation mode</i>
-----------	-----	---

Field name	Format	Max	Export	Import	Description
Index	n		M	M	Record index
ATM_ID	ns	4	M	M	ATM ID
Service_Open	a	1	M	M	Y : Open service allowed N : Open service not allowed
Service_Offline_Enable	a	1	M	M	Y : All cards can be used offline N : Offline operation not allowed M : Only magnetic-stripe cards allowed offline S : Only smartcards allowed offline
PIN_Change	a	1	M	M	Y : PIN Change service allowed N : PIN Change service not allowed
Balance_Enquiry	a	1	M	M	Y : Balance Enquiry service allowed N : Balance Enquiry service not allowed
Balance_Enquiry_Receipt	a	1	M	M	Y : Balance Enquiry Receipt is required N : Balance Enquiry Receipt is not required A : Ask customer if receipt is required
Fund_Transfer	a	1	M	M	Y : Fund Transfer service allowed N : Fund Transfer service not allowed O : (Other) Fund Transfer service allowed
Fund_Transfer_Receipt	a	1	M	M	Y : Fund Transfer Receipt is required N : Fund Transfer Receipt is not required A : Ask customer if receipt is required
Statement	a	1	M	M	Y : Statement service allowed N : Statement service not allowed
Statement_Receipt	a	1	M	M	Y : Statement Receipt is required N : Statement Receipt is not required A : Ask customer if receipt is required
Ministatement	a	1	M	M	Y : Mini-statement service allowed N : Mini-statement service not allowed
Deposit	a	1	M	M	Y : Deposit service allowed N : Deposit service not allowed O : (Other) Deposit service allowed
Deposit_Receipt	a	1	M	M	Y : Deposit Receipt is required N : Deposit Receipt is not required A : Ask customer if receipt is required
Bill_Payment	a	1	M	M	Y : Bill Payment service allowed N : Bill Payment service not allowed A : Advanced Bill Payment service allowed
Bill_Payment_Receipt	a	1	M	M	Y : Bill Payment Receipt is required N : Bill Payment Receipt is not required A : Ask customer if receipt is required
Book_Request	a	1	M	M	Y : Book Request service allowed N : Book Request service not allowed
Book_Request_Receipt	a	1	M	M	Y : Book Request Receipt is required N : Book Request Receipt is not required A : Ask customer if receipt is required
Cash-Withdrawal	a	1	M	M	Y : Cash Withdrawal service allowed N : Cash Withdrawal service not allowed
Cash-Withdrawal_Receipt	a	1	M	M	Y : Cash Withdrawal Receipt is required N : Cash Withdrawal Receipt is not required A : Ask customer if receipt is required
Reserved_Future_Use (Travellers Cheques Retired V82.01)	a	1	M	M	Y : Service allowed N : Service not allowed (Travellers Cheques Retired V82.01)
Reserved_Future_Use_RCP (Travellers Cheques Retired V82.01)	a	1	M	M	Y : Receipt is required N : Receipt is not required A : Ask customer if receipt is required (Travellers Cheques Retired V82.01)
Draft	a	1	M	M	Y : Draft service allowed N : Draft service not allowed
Draft_Receipt	a	1	M	M	Y : Draft Receipt is required N : Draft Receipt is not required A : Ask customer if receipt is required
Full_Statement	a	1	M	M	Y : Full Statement service allowed

					N : Full Statement service not allowed
Notice_of_Wdr	a	1	M	M	Y : Notice of Withdrawal service allowed N : Notice of Withdrawal service not allowed
Notice_of_Wdr_Receipt	a	1	M	M	Y : Notice of Withdrawal Receipt is required N : Notice of Withdrawal Receipt is not required A : Ask customer if receipt is required
Currency_2_Wdr	a	1	M	M	Y : Currency 2 Withdrawal service allowed N : Currency 2 Withdrawal service not allowed
Currency_2_Wdr_Receipt	a	1	M	M	Y : Currency 2 Withdrawal Receipt is required N : Currency 2 Withdrawal Receipt not required A : Ask customer if receipt is required
Extended_Billers	a	1	C	C	Required when Extended Billers is licensed Y : Extended Billers service allowed N : Extended Billers service not allowed
Extended_Billers_Receipt	a	1	C	C	Required when Extended Billers is licensed Y : Extended Billers Receipt is required N : Extended Billers Receipt is not required A : Ask customer if receipt is required
Barcode_Bill_Pay	a	1	C	C	Required when Barcode Bill Payment is licensed Y : Manual entry & Barcode Bill Payment service N : Barcode Bill Payment service not allowed M : Manual entry Bill Payment only B : Barcode Bill Payment only
Barcode_Bill_Pay_Receipt	a	1	C	C	Required when Barcode Bill Payment is licensed Y : Barcode Bill Payment Receipt is required N : Barcode Bill Payment Receipt is not required A : Ask customer if receipt is required
Foreign_Exchange	a	1	C	C	Required when FX BNA is licensed Y : Foreign Exchange service allowed N : Foreign Exchange service not allowed
Std_Biller_1_Name	ans	12	C	I	When Standard Biller 1 has been configured, Name of a Standard Biller
Std_Biller_1_Payment	a	1	C	C	When Standard Biller 1 has been configured, N : Standard Bill Payment service not allowed A : Standard Bill Payment by Account debit only D : Standard Bill Payment by Deposit only A : Standard Bill Payment by Account or Deposit
Std_Biller_1_Deposit_Rqd	a	1	C	C	When Standard Biller 1 has been configured, N : Neither the deposit of bill nor the entry of bill account number is required B : Both the deposit of bill and entry of bill account is required D : Deposit of Bill is required E : Entry of the Bill account number is required
Std_Biller_2_Name	ans	12	C	I	When Standard Biller 2 has been configured, Name of a Standard Biller
Std_Biller_2_Payment	a	1	C	C	When Standard Biller 2 has been configured, N : Standard Bill Payment service not allowed A : Standard Bill Payment by Account debit only D : Standard Bill Payment by Deposit only A : Standard Bill Payment by Account or Deposit
Std_Biller_2_Deposit_Rqd	a	1	C	C	When Standard Biller 2 has been configured, N : Neither the deposit of bill nor the entry of bill account number is required B : Both the deposit of bill and entry of bill account is required D : Deposit of Bill is required E : Entry of the Bill account number is required
Std_Biller_3_Name	ans	12	C	I	When Standard Biller 3 has been configured, Name of a Standard Biller
Std_Biller_3_Payment	a	1	C	C	When Standard Biller 3 has been configured, N : Standard Bill Payment service not allowed A : Standard Bill Payment by Account debit only D : Standard Bill Payment by Deposit only A : Standard Bill Payment by Account or Deposit
Std_Biller_3_Deposit_Rqd	a	1	C	C	When Standard Biller 3 has been configured, N : Neither the deposit of bill nor the entry of bill account number is required B : Both the deposit of bill and entry of bill account is required D : Deposit of Bill is required E : Entry of the Bill account number is required
Std_Biller_4_Name	ans	12	C	I	When Standard Biller 4 has been configured, Name of a Standard Biller
Std_Biller_4_Payment	a	1	C	C	When Standard Biller 4 has been configured, N : Standard Bill Payment service not allowed A : Standard Bill Payment by Account debit only D : Standard Bill Payment by Deposit only A : Standard Bill Payment by Account or Deposit

Track_2_Service_Code	ns	3	C	C	Service Code, required if this is a card-producing IMD, 101 : International, including ATMs 102 : International, excluding ATMs 120 : International, verify every transaction 121 : International, verify every transaction, including ATMs 126 : International, verify every transaction, prompt for PIN 2xx : As above for EMV chip cards 501 : Local usage only, including ATMs 502 : Local usage only, excluding ATMs 520 : Local usage only, verify every transaction 521 - Local usage only, verify every transaction, including ATMs 6xx : As above for EMV chip cards 799 : On-us usage only
PIN_Algorithm_Used_on_Cards	ns	2	C	I	PIN algorithm ID, required if this is a card-producing IMD (Retired in Sparrow 82+)
Interchange_Code_on_Cards	n	1	C	C	Interchange code for use on cards, required if this is a card-producing IMD (Retired in Sparrow 82+)
Relay_Marker_Used_on_Cards	n	1	C	C	Relay marker for use on cards , required if this is a card-producing IMD (Retired in Sparrow 82+)
First_Sequence_Number	n	1	C	I	First sequence number of a card , required if this is a card-producing IMD
Expiry_Date_Offset	n	2	C	C	Required if this is a card-producing IMD. The offset in years 1-20, from the current date, that could be used to calculate the default card expiry date.
Allow_Perpetual_PIN	a	1	C	C	Required if this is a card-producing IMD. Y: Perpetual PIN can be allowed for reissued cards if possible. N: Perpetual PIN is not allowed for reissued cards and a new PIN should be generated.
Cycle_length	n	2	C	C	Required if this is a card-producing IMD. The cycle length in days 1 - 81 or 83, that could be used as the default cycle length
Cycle_auth_amount	n	4	C	C	Required if this is a card-producing IMD. The default amount authorised per cycle.
Cycle_net_auth_amount	ns	10	C	C	Required if this is a card-producing IMD. The default network amount authorised per cycle.
Cycle_pos_auth_amount	ns	10	C	C	Required if this is a card-producing IMD. The default EFTPOS amount authorised per cycle.
Currency_Exponent	n	1	C	C	Exponent to be applied on limits, required if this is a card-producing IMD. (Retired in Sparrow 82+)
Card_Limit_Warning_Level	ns	4	C	C	Limit level at which warnings will be generated, required if this is a card-producing IMD
Customer_Card_Group	ns	3	C	C	Customer group (code) for reference when producing or importing cards of this IMD.
Customer_Card_Group_Desc	ans		C	I	Customer group description
International_Issuer_Limits	a	1	C	C	Required if this is a card-producing IMD, and International Limits has been licensed, Y : International Issuer Limits enabled N : International Issuer Limits disabled
Ill_Default_Cycle_Length	ns	2	C	C	Required if this is a card-producing IMD, and International Limits has been licensed and enabled. Indicates the cycle length for refreshing the international limits, 1 to 79 days 80 : 7 days 81 : 14 days 83 : monthly 99 : one time limit
Ill_Default_Auth_Amount	ns	6	C	C	Required if this is a card-producing IMD, and International Limits has been licensed and enabled. Indicates the default international limit value.
Reward_Programme_Code	ns	3	C	C	Required if this is a card-producing IMD, indicates the reward programme (id) the IMD will be participating.
Reward_Programme	ans		C	I	Required if this is a card-producing IMD, indicates the reward programme the IMD will be participating.
Restrict_Domestic_Magstripe	a	1	C	C	Required if this is a card-producing IMD, and the per-card Service Restriction has been enabled, Y : Domestic Magstripe card services restricted N : Domestic Magstripe card services not restricted
Restrict_Interntl_Magstripe	a	1	C	I	Required if this is a card-producing IMD, and the per-card Service Restriction has been enabled, Y : International Magstripe card services restricted N : International Magstripe card services not restricted
Restrict_eCommerce	a	1	C	C	Required if this is a card-producing IMD, and the per-card Service Restriction has been enabled, Y : eCommerce card services restricted

					N : Chip PIN Change service disabled
Allow_Fallback	a	1	C	C	Required if EMV has been enabled in the system, Y : EMV cards in EMV terminals are allowed to fallback to magstripe processing N : EMV cards in EMV terminals are not allowed to fallback to magstripe processing
ATM_Branding_Set_Code	ns	2	C	C	ATM Branding (associated code) set for this IMD
ATM_Branding_Set_Desc	ans		C	I	ATM Branding (name or description) for this IMD
ATM_Campaign_Code	ns	2	C	C	ATM Campaign (associated code) set for this IMD
ATM_Campaign_Desc	ans		C	I	ATM Campaign (name or description) for this IMD
Welcome_Message_1	ans	16	M	O	Welcome message for top of the ATM screen
Welcome_Message_2	ans	16	M	O	Welcome message for bottom of the ATM screen

4.2 SparrowHUB

4.2.1 Subscriber Maintenance Data Extract

Function:	061	Subscriber Maintenance Data Export
------------------	------------	---

Field name	Format	Max	Export	Import	Description
Index	n		M	N	Record index
Subscriber_Identifier	an	8	M	N	Subscriber Identifier
Subscriber_Name	ans	30	M	N	Subscriber Name
Subscriber_Type_Code	ns	2	M	N	Subscriber Type Identifier
Subscriber_Type_Desc	ans	15	M	N	Subscriber Type Description
Current_Reconcile_Period	ns	4	M	N	Current Reconciliation Period
Currently_Supervisor_Held	a	1	M	N	Y : Subscriber is allowed to be routed transactions N : Subscriber is not allowed transactions
Currently_Kernel_Held	a	1	M	N	Y : Subscriber is disabled, on hold by the HUB Kernel N : Subscriber is enabled, not held by the HUB Kernel
Desired_Startup_State	n	1	M	N	Desired status at start-up, 0 : Login or Logout not supported by Subscriber 1 : Active (Login request automatically generated) 2 : Inactive (Subscriber only activated by operator login)
Security_Zone_Identifier	ns	2	M	N	Security Zone Identifier
High_Water_Mark	ns	3	M	N	Indicates number of outstanding messages waiting for the Subscriber before the HUB Kernel decides the subscriber is in difficulty.
Settlement_Group	a	2	M	N	Indicates which group the Subscriber belongs to in terms of reconciliation or settlement.

4.2.2 Interface Maintenance Data Extract

Function:	062	Interface Maintenance Data Export
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Field name	Format	Max	Export	Import	Description
Index	n		M	N	Record index
Interface_Identifier	an	8	M	N	Interface Identifier
Interface_Type	ans	15	M	N	Interface Description
Currently_Kernel_Held	a	1	M	N	Y : Interface is disabled, on hold by the HUB Kernel N : Interface is enabled, not held by the HUB Kernel
Currently_Supervisor_Held	a	1	M	N	Y : Interface is allowed to be routed transactions N : Interface is not allowed transactions

4.3 External Network Interfaces

4.3.1 Terminal Data Maintenance Data Extract

Function: 097	Terminal Data Maintenance Data Export or *Import <i>*Import of existing records not supported in automation mode</i>
---------------	---

Field name	Format	Max	Export	Import	Description
Index	n		M	M	Record index
IMD_Code	an	11	M	M	IMD Code of the terminal owner
Terminal_ID	ans	16	M	M	Unique terminal identifier
Terminal_Name_Location	ans	25	M	O	Terminal name and/or location
Terminal_City	ans	13	M	O	Name of the city where terminal is situated
Terminal_Zip_Code	ans	5	M	O	Zip code of terminal location
Terminal_State_Code	ans	3	M	O	State code of terminal location
Terminal_Country_ISO_A2	a	2	M	O	2 char ISO alpha country code of the terminal location
Terminal_Country_ISO_A3	a	3	M	O	3 char ISO alpha country code of the terminal location
Chip_Reader	a	1	M	M	Y : ATM terminal has a chip reader N : ATM terminal doesn't have a chip reader

4.3.2 IMD-BIN Mapping Maintenance Data Extract

Function:	098	IMD-BIN Mapping Maintenance Data Import* <i>*Export of records not supported</i>
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Field name	Format	Max	Export	Import	Description
Index	n		N	N	Record index
IMD_Code	an	11	N	M	IMD Code of the acquiring Sparrow
BIN	an	11	N	M	BIN Code for the acquiring Sparrow
Group	ans	1	N	O	Group code
Group Description	ans	25	N	O	Description of the BIN group
BIN Name	ans	25	N	O	Name of the BIN
Bank Name	ans	25	N	O	Name of the Bank

4.4 SparrowPOS

4.4.1 Terminal Maintenance Data Extract

Function:	100/101	Terminal Maintenance Data Export or Import (*) <i>*Import of existing records not supported in automation mode</i>
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Field name	Format	Max	Export	Import	Description
Index	n		M	M	Record index
Int_term_ID	n	4	M	M	Internal Terminal ID
Terminal_ID	an	9	M	M	Unique POS Terminal identifier
Merchant_ID	n	16	M	M	Merchant ID
Terminal_Type	n	2	M	M	40 – MDC Format 60 – ISO8583
Terminal_Capability	a	1	M	M	E- EMV Capable C – EMV + Contactless X – Contactless Only M – Magstripe Only A – Acquirer Default (may be amended)
Currency	n	3	M	I	
Telephone_No	n	15	M	O	(may be amended)
Product_Type (Deprecated from V82.03+)	n	4	M	O	(may be amended)
Validation	a	1	M	M	P – PiN Verification S – Signature only I – Use Issuer validation method (may be amended)
Sale_Service	a	1	M	M	Y – Yes N- No A – Use Acquirer setting G – Use Merchant Group setting M – Use Merchant setting
SaleCash_Service	a	1	M	M	Y/N/A/G/M (may be amended)
Refund_Service	a	1	M	M	Y/N/A/G/M (may be amended)
Balance_Service	a	1	M	M	Y/N/A/G/M (may be amended)
Preauth_Service	a	1	M	M	Y/N/A/G/M (may be amended)
Tip_Service	a	1	M	M	Y/N/A/G/M (may be amended)
Payment_Service	a	1	M	M	Y/N/A/G/M (may be amended)
Void_Service	a	1	M	M	Y/N/A/G/M (may be amended)
Transfer_Service	a	1	M	O	Y/N/A/G/M (depends on CSPEC) (may be amended)
Deposit_Service	a	1	M	O	Y/N/A/G/M (depends on CSPEC) (may be amended)
Pin_Change_Service	a	1	M	M	Y/N/A/G/M (may be amended)
MTU_Service	a	1	M	M	Y/N/A/G/M (may be amended)
Sponser	n	4	M	M	(may be amended)
Comment	ans	40	M	O	(may be amended)
Total_Credits	n	4	M	I	Number of Credits Since Update
Total_Debits	n	4	M	I	Number of Debits Since Update
Credits_Value	ns	14	M	I	Total Value of Credits Since Update
Debits_Value	ns	14	M	I	Total Value of Debits Since Update
DynKek_alloc	a	1	M	M	Y/N (may be amended)
Pinpad_id	n	16	M	I	
Kek_zone	n	5	M	O	If dynamic KEK allocation = N, is required. (may be amended)
Dyn_sess_key	a	1	M	M	Y/N (may be amended)
Enc_scheme	an	1	M	M	0/1/H (may be amended)
Current_STAN	n	6	M	I	
Batch_Salecnt	n	4	M	I	

4.4.2 Merchant Maintenance Data Extract

Function:	107/108	Merchant Maintenance Data Export or Import (*) <i>*Import of existing records not supported in automation mode</i>
-----------	---------	---

Field name	Format	Max	Export	Import	Description
Index	n		M	M	Record index
Merchant_ID	n	16	M	M	Merchant ID
Merchant_Name	an	25	M	O	Merchant Name
Merchant_Address_1	an	20	M	O	Merchant Address Line 1 <i>(may be amended)</i>
Merchant_Address_2	an	20	M	O	Merchant Address Line 2 <i>(may be amended)</i>
Merchant_Address_3	an	20	M	O	Merchant Address Line 3 <i>(may be amended)</i>
Merchant_City	an	20	M	O	Merchant City <i>(may be amended)</i>
Manager_Name	ans	20	M	O	Manager responsible for POS <i>(may be amended)</i>
Telephone_No	n	20	M	O	Merchant telephone number <i>(may be amended)</i>
Merchant_Account_IMD	n	6	M	M	IMD of Account Holder <i>(may be amended)</i>
Merchant_Account_No	n	13	M	M	Account Number of Account Holder <i>(may be amended)</i>
Comment	ans	40	M	O	General Comment <i>(may be amended)</i>
Card_Group	n	3	M	M	Card Group <i>(may be amended)</i>
Merchant_Type	n	4	M	M	Merchant Type <i>(may be amended)</i>
Merchant_Group	n	3	M	O	Merchant Group. "000" or existing group <i>(may be amended)</i>
Fee_Group	n	3	M	O	Fee group <i>(may be amended)</i>
Merchant_Status	n	2	M	O	Merchant status 00-99 <i>(may be amended)</i>
Hours_of_Business_Open_1	n	4	M	O	Hours of Business: Opening Time #1 (HHMM) <i>(may be amended)</i>
Hours_of_Business_Close_1	n	4	M	O	Hours of Business: Closing Time #1 (HHMM) <i>(may be amended)</i>
Hours_of_Business_Open_2	n	4	M	O	Hours of Business: Opening Time #2 (HHMM) <i>(may be amended)</i>
Hours_of_Business_Close_2	n	4	M	O	Hours of Business: Closing Time #2 (HHMM) <i>(may be amended)</i>
Sale_Service	a	1	M	M	Y – Yes N- No A – Use Acquirer setting G – Use Merchant Group setting M – Use Merchant setting <i>(may be amended)</i>
SaleCash_Service	a	1	M	M	Y/N/A/G/M <i>(may be amended)</i>
Refund_Service	a	1	M	M	Y/N/A/G/M <i>(may be amended)</i>
Balance_Service	a	1	M	M	Y/N/A/G/M <i>(may be amended)</i>
Preauth_Service	a	1	M	M	Y/N/A/G/M <i>(may be amended)</i>
Tip_Service	a	1	M	M	Y/N/A/G/M <i>(may be amended)</i>
Payment_Service	a	1	M	M	Y/N/A/G/M <i>(may be amended)</i>
Void_Service	a	1	M	M	Y/N/A/G/M <i>(may be amended)</i>
Transfer_Service	a	1	M	O	Y/N/A/G/M (depends on CSPEC) <i>(may be amended)</i>
Deposit_Service	a	1	M	O	Y/N/A/G/M (depends on CSPEC) <i>(may be amended)</i>
Pin_Change_Service	a	1	M	M	Y/N/A/G/M <i>(may be amended)</i>
MTU_Service	a	1	M	M	Y/N/A/G/M <i>(may be amended)</i>
Sale_Service_Enabled	a	1	M	M	E – Enabled D – Disabled <i>(may be amended)</i>
SaleCash_Enabled	a	1	M	M	E/D <i>(may be amended)</i>
Refund_Enabled	a	1	M	M	E/D <i>(may be amended)</i>
Balance_Enabled	a	1	M	M	E/D <i>(may be amended)</i>
Preauth_Enabled	a	1	M	M	E/D <i>(may be amended)</i>
Tip_Enabled	a	1	M	M	E/D <i>(may be amended)</i>
Payment_Enabled	a	1	M	M	E/D <i>(may be amended)</i>
Void_Enabled	a	1	M	M	E/D <i>(may be amended)</i>
Transfer_Enabled	a	1	M	O	E/D (depends on CSPEC) <i>(may be amended)</i>

05 Sample Data Extracts

5.1 Sparrow

Sample Network Maintenance Data Extract [dbx_spa_atm.json]


```

"Chip_Cash_Service": "N",
"Chip_Bal_Enquiry_Service": "N",
"Chip_Cash2_Withdrawal_Service": "N",
"Chip_PIN_Change_Service": "N",
"Allow_Fallback": "N",
"ATM_Branding_Set_Code": "00",
"ATM_Branding_Set_Desc": "Default",
"ATM_Campaign_Code": "00",
"ATM_Campaign_Desc": "None",
>Welcome_Message_1": "UNKNOWN_CARD",
>Welcome_Message_2": "          TYPE"
}
]
}

```

5.2 SparrowHUB

Sample Subscriber Maintenance Data Extract [dbx_hub_sub.json]

```
{
  "SparrowHUB_SubscriberMaintenance": [
    {
      "Index": 1,
      "Subscriber_Identifier": "FJIVR",
      "Subscriber_Name": "FIJI IVR",
      "Subscriber_Type_Code": "02",
      "Subscriber_Type_Desc": "Sparrow",
      "Current_Reconcile_Period": "1155",
      "Currently_Supervisor_Held": "N",
      "Currently_Kernel_Held": "N",
      "Desired_Startup_State": 2,
      "Security_Zone_Identifier": "14",
      "High_Water_Mark": "025",
      "Settlement_Group": "IV"
    },
    {
      "Index": 2,
      "Subscriber_Identifier": "BCAST",
      "Subscriber_Name": "HUB Broadcast",
      "Subscriber_Type_Code": "04",
      "Subscriber_Type_Desc": "System",
      "Current_Reconcile_Period": "0000",
      "Currently_Supervisor_Held": "N",
      "Currently_Kernel_Held": "N",
      "Desired_Startup_State": 0,
      "Security_Zone_Identifier": "00",
      "High_Water_Mark": "000",
      "Settlement_Group": "ZZ"
    },
    {
      "Index": 3,
      "Subscriber_Identifier": "EMAIL",
      "Subscriber_Name": "HUB E-Mail",
      "Subscriber_Type_Code": "04",
      "Subscriber_Type_Desc": "System",
      "Current_Reconcile_Period": "0000",
      "Currently_Supervisor_Held": "N",
      "Currently_Kernel_Held": "N",
      "Desired_Startup_State": 0,
      "Security_Zone_Identifier": "00",
      "High_Water_Mark": "000",
      "Settlement_Group": "ZZ"
    },
    {
      "Index": 4,
```



```

    "Currently Supervisor Held": "N",
    "Comment": null
  }
]
}

```

Sample Routing Maintenance Data Extract [dbx_hub_rte.json]

```

{
  "SparrowHUB RoutingMaintenance": [
    {
      "Index": 1,
      "Subscriber_Identifier": "FJIVR",
      "Institution IMD Low": "601023",
      "Institution IMD High": "601023",
      "Country Code Low": "000",
      "Country Code High": "000",
      "Branch Code Low": "0000",
      "Branch Code High": "0000",
      "Mailbox Low": "-",
      "Mailbox High": "-"
    },
    {
      "Index": 2,
      "Subscriber Identifier": "HUB",
      "Institution IMD Low": "999999",
      "Institution IMD High": "999999",
      "Country Code Low": "999",
      "Country Code High": "999",
      "Branch Code Low": "9999",
      "Branch Code High": "9999",
      "Mailbox Low": "-",
      "Mailbox High": "-"
    },
    {
      "Index": 3,
      "Subscriber Identifier": "BCAST",
      "Institution IMD Low": "999999",
      "Institution IMD High": "999999",
      "Country Code Low": "999",
      "Country Code High": "999",
      "Branch Code Low": "9999",
      "Branch Code High": "9999",
      "Mailbox Low": "B",
      "Mailbox High": "B"
    },
    {
      "Index": 4,
      "Subscriber Identifier": "RECON",
      "Institution IMD Low": "999999",
      "Institution IMD High": "999999",
      "Country Code Low": "999",
      "Country Code High": "999",
      "Branch Code Low": "9999",
      "Branch Code High": "9999",
      "Mailbox Low": "M",
      "Mailbox High": "M"
    },
    {
      "Index": 5,
      "Subscriber Identifier": "EMAIL",
      "Institution IMD Low": "999999",
      "Institution IMD High": "999999",
      "Country Code Low": "999",
      "Country Code High": "999",
      "Branch Code Low": "9999",

```


Sample Mapping Maintenance Data Extract [dbx_hub_map.json]

5.3 External Network Interfaces

Sample Terminal Data Maintenance Extract for MasterCard Network [dbx_mds_trm.json]

Sample IMD-BIN Mapping Maintenance Import file for MasterCard Network [dbx_mds_bim.json]

5.4

SparrowPOS

Sample Terminal Maintenance Extract [dbx_pos_ptd.json]

