SR1 host service description (Android)

Current version	0.2
Author	
Completion date	2022-5-19

Revision history

Versio	Description of the revision	Revised by	Date of revision
n			
V0.1	Initial version		2022/3/22
V0.2	L1 layer interfaces such as card searching, power-on, APDU interaction and power-off are added.		2022/5/19

catalogue

Revision history	1
Chapter I Interface declaration of SR1 host service layer	4
1 Service layer interface declaration	4
1.1 Explain	4
1.2 Description of service configuration	4
1.3 Service layer common return code definition	4
1.4 Service module declaration	4
Chapter II Listening result callback interface declaration	. 10
1 UpdateInformationResult class definition	10
2 Display class definition	
3 Error class definition	
4 CommunicationMode class definition	
5 Service Interface Listener Class Description (MPOS Service Listener)	
5.1 Interface list	
5.2 Read POSID result callback (onMposIdResult)	
5.3 Read POSKsn result callback (onMposKsnResult)	
5.4 Get if there is a result callback for the card (onMposIsCard Exist) 12
5.5 Get the callback of the end result of Bluetooth scanning device	
(onRequest Device ScanFinished)	
5.6 Read POS Info result callback (onMposInfoResult)	
5.7 Get SessionKey result callback (onMposGenerateS essionKeysResult)	
5.8 Get Set RSA KEY Result Callback (onMposDoSetRsaPublicKey)	
5.9 Get instruction passthrough result callback (on ReturnSendMagicCmd	
5.10 Get random number result callback (onDoGetRandomNumberResult)	
5.11 POS terminal connected callback (onRequestMposConnected)	
5.12 POS terminal disconnected callback (onRequestMposDisconnected)	
5.13 Device callback not detected (onRequestNoMposDetected)	
5.14 Device callback not detected (onRequestNoMposDetectedUnbond)	
5.15 Error callback (onError)	
5.16 Prompt message display callback (onRequestDisplay)	
5.17 Get the set sleep time result callback (on ReturnSetSleepTimeResu	
5.18 Get MAC result callback (onRequestCalculateMac)	
5.19 Get Set Master Key Result callback (on ReturnSetMasterKeyResult)	
5.20 Bluetooth device scan result callback (onDeviceFound)	
5.21 Callback in Bluetooth pairing (onBluetoothBonding)	
5.22 Bluetooth pairing successful callback (on BluetoothBonded)	
5.23 Bluetooth pairing failure callback (onBluetoothBondFailed)	
5.24 Bluetooth pairing timeout callback (onBluetoothBondTimeout)	. 17

```
5. 26 Get OTA update result callback (onUpdatePosFirmwareResult) . . . . . . . . . . . . . . . . . 17
      5.28 Get the update master key result callback (onUpdateMasterKeyResult)
           1 EMV parameter file demo
          'name":"Terminal Configuration",
          "OperateType":"Add".
          "MerchantCategoryCode":"1234",
          "MerchantIdentifier"
                         :"424354455354",
          "MerchantName"
                             :"41424344",
          "CountryCode"
                            :"0156",
          "TerminalType"
                           :"22",
          "TerminalIdentifier"
                         :"3833323031494343",
          "TerminalCapability"
                          :"E028C8",
          "Terminal Append Capability": "",
"Terminal Risk Management Data": "0040000000000000",
          "TransactionCertificateDataObjectList": "9F1A0295059A039C01",
          "TerminalApplicationInterchangeProfile" :"0040",
          "InterfaceDevice(IFD)SerialNumber"
                                       :"00000000",
          "AcquirerIdentifier"
                                         :"000000000000",
          "TransactionCurrencyCode"
                                          :"0156",
          "TransactionCurrencyExponent"
                                         ·"02"
          "TransactionReferenceCurrencyCode"
                                        :"0156"
          "TransactionReferenceCurrencyExponent"
                                       :"02",
          "TransactionCurrencyCodeandReferenceCurrencyCodeExchangeExponent": "02",
          "TerminalTransactionQualifiers"
                                  :"b0400000"
          "DefaultTransactionCategoryCode" :"1234",
          "TransactionSequenceNumber" :"0000",
          "AIDList":[
             {
                "name": "Visa Debit"
                "OperateType":"Add"
                "ApplicationIdentifier":"A00000003",
                "ApplicationSelectionFlag":"00",
                "TargetPercentToBeUsedOfRandomSelection":"00",
                "MaxTargetPercent":"00",
                "TerminalFloorLimit":"00999999".
                "ThreshholdValueBiasedRandomSelection": "5000",
                "TerminalActionCodeDenial":"0010000000",
                "TerminalActionCodeOnline":"FFFFFFFF",
                "Terminal Action Code Default": "FFFFFFFFF",
                "TerminalDefaultDDOL": "9F3704".
                "ApplicationVersionNumber":"0200"
                "ContactlessExecuteCVMFloorLimit":"000000000099",
                "ContactlessTransactionLimit": "000009000000", "ContactlessOfflineFloorLimit": "000000000000",
                                               :"00000000000".
                "ElectonicCashTerminalTransactionValue"
```

Chapter I Interface declaration of SR1 host service layer

1 Service layer interface declaration

1.1 Explain

The service will be output in the form of a jar package, which is independently embedded in the application layer and called directly.

The service layer interface meets the following design principles:

- Unify the exposed interface, aggregate the unified function of the application, and actively call the interface by the application program. Declared interfaces are those that return immediately after being called. They can be called directly on the main thread and should not generate ANR.
- For the interface with uncontrollable calling time, the calling result is received in the form of callback listener.
- To meet changing requirements, a complex interface will use a Bundle as an incoming parameter.

1.2 Description of service configuration

Embed directly in the lib folder of the application and add the following compilation dependency description:

implementation files('libs/magicpos_sdk.jar')

1.3 Service layer common return code definition

Return value KEY	Value	Explain
Success	0	Execution succeeded
Fail	-1	Execution failed
Param_In_Invalid	-2	Input parameter error
TimeOut	-3	Execution timed out

1.4 Service module declaration

1. 4. 1 Module description

It is used to manage Bluetooth, three-in-one card reading, such as magnetic stripe card, contact IC card and non-contact IC card, OTA upgrade, key management, etc.

1.4.2 Package path

com.magicpos.xpos.MPOSService

1. 4. 3 MPOS Service Class Description (Singleton Class)

1. 4. 3. 1 Interface list

Interface prototype	Functional description
getInstance	Gets the service instance
setConext	Set the service context
initListener	Set up the service listener
scanMPos2Mode	Scan for all Bluetooth devices
connectBT	Connect to the specified Bluetooth device
disconnectBT	Disconnect the specified Bluetooth device
updatePosFirmware	OTA Upgrade Firmware

setMasterKey	Update Device Master Key
updateWorkKey	Update device work key
getMposInfo	Get POS Info
generateSessionKeys	generate a session key
updateRSA	Update the RSA key
getMposId	Get the POSID
getRandomNumber	Get a random number
sendMagicCmd	Command pass-through
DoCardSearch	Find the card
DoCardActive	APDU instruction data transparent transmission
DoCardExchangeCmd	Byte stream instruction passthrough
DoCardDeActive	Power off the card

1. 4. 3. 2 Get Service Instance (get instance)

Interface	MPOSService getl	Instance(CommunicationMode mode)
prototype		
Interface	Get Service Layer Instance-Singleton Pattern	
function		
Parameter	parameter in	CommunicationMode
description		MODE For the communication mode, see the description of Communication Mode class in the appendix.
	parameter out	None
Return value	MPOS Service ser	vice instance prototype
Additional		
explanation		

1. 4. 3. 3 Set service context (setConext)

Interface	boolean setConext	(Context context)
prototype		
Interface	Set the service context	
function		
Parameter	parameter in	Context - Application context
description	parameter out	None
Return value	Returns true on success	
	Returns false on fa	niiure
Additional		
explanation		

1. 4. 3. 4 Set Service Listener (initListener)

Interface	void initListener(Handler handler, MPOSServiceListener listener)
prototype	

	Set up the service	lictener
Interface	Set up the service	isterier
function		[
Parameter	parameter in	handler— Listener- service interface operation listening instance
description		(See Appendix MPOS Service Listener Class
		Definition)
	parameter out	None
Return value	Returns true on su Returns false on fa	
Additional		
explanation	1 4 2 5 Soon for al	Il Divete othe devices (see MDcc2Mcdc)
Interface		ll Bluetooth devices (scanMPos2Mode) s2Mode(Context context, long time)
prototype		
Interface	Scan all Bluetoot	h device
	Joan an Braceout	
function		Contant the content
Parameter	parameter in	Context - the context Time - Time out
description	parameter out	None
Return value	Returns true on su	 CCESS
	Returns false on fa	ailure
Additional		
explanation	1. 4. 3. 6 Connect to	the specified Bluetooth device (connectBT)
Interface		Γ(String blueToothAddress)
prototype		
Interface	Connect to the spe	ecified Bluetooth device
function		
Parameter	parameter in	BlueToot hAddress - Bluetooth device address
description	parameter out	None
Return value	Returns true on su	rress
Return value	Returns false on fa	
Additional		
explanation	1 4 2 7 Diagram	4 Dhuata ath daving (discomment DT)
Interface	1. 4. 3. 7 Disconnec void disconnectBT	t Bluetooth device (disconnectBT)
		·
prototype	Disconnect the Bl	luetooth device
Interface	Disconnect the Di	device
function		N.
Parameter	parameter in	None
description	parameter out	None
Return value	None	
Additional		
explanation		

Interface	int updatePosFirm	ware(byte[] data, String deviceAddress)
	and updated out and	was (e) to[] amm, string or their actions,
prototype	OTA Un ana da Firmanyana Amaliantian	
Interface	OTA Upgrade Firmware Application	
function		
Parameter	parameter in	Data-File byte stream
description		DeviceAddress - Bluetooth address of the currently connected device
	parameter out	None
Return value	None	
Additional		
explanation		
		vice Master Key (setMasterKey)
Interface	void setiviasterkey	(String key, String checkValue)
prototype		
Interface	DUKPT mode Upo	date Device Master Key
function		
Parameter	parameter in	Key Key values Check value Key check values
description	parameter out	None
Return value	None	Tronc
Additional		
explanation		
	1. 4. 3. 10 Update de	evice work key (updateIPEKKEy)
Interface		IPEKKEy(String trackIpek, String trackIpekKcv, String
prototype	trackKsn, String pinIpek, String pinIpekKcv, String pinKsn, String emvIpek, String emvIpekKcv, String emvKsn, int keyIndex)	
Interface		lates the device work key
function		
Parameter	parameter in	trackIpek - track key in DUKPT mode
description	parameter in	TrackKsn Track secret key CheckValue
description		PinIpek - PIN key PinIpekKcv - PIN Key ciphertext checkValue
		EmvIpek - EMV keys
		EmvIpekKcv - EMV key checkvalue
	parameter out	KeyIndex - Index of the working key None
Return value	None	Tions
Additional		
explanation		
	1. 4. 3. 11 Get POS	related information (getMposInfo)
Interface	void getMposInfo	
prototype		
Interface	Get POS related in	formation
function		
Parameter	parameter in	None
description	parameter out	None
acscription	Parameter out	

Return value	None	
Additional		
explanation	1 1 2 12 6	. 1 (, , G , , W)
Interface	1. 4. 3. 12 Generate void generateSessi	session key (generate Session Keys)
	void generatesessi	onic; s()
prototype	A session key is g	generate
Interface	71 Session Rey Is g	Scholate
function		Ly
Parameter	parameter in	None
description	parameter out	None
Return value	None	
Additional		
explanation	 1. 4. 3. 13	SA Key (updateRSA)
Interface		tring rsaRegin, String rsaN, String rsaE)
prototype		
Interface	Update the RSA k	Key
function		
Parameter	narameter in	rsaRegin -
	parameter in	rsaN -
description		rsaE
	parameter out	None
Return value	None	
Additional		
explanation	1 1 2 11 C 1 DOSI	D'C (A II)
Interface	1. 4. 3. 14 Get POSI void getMposId()	D information (getMposId)
	The second secon	
prototype Interface	Get POSID inform	mation
function		None
Parameter	parameter in	
description	parameter out	None
Return value	None	
Additional		
explanation	 1. 4. 3. 15 Get Rand	omNumber
Interface	void getRandomNi	
prototype		
Interface	Get a random nun	nber
function		
	narameter in	None
Parameter	parameter in	None
description	parameter out	TYONG

Return value	None		
Additional			
explanation			
_	1. 4. 3. 16 Instruction data passthrough (sendMagicCmd)		
Interface	void sendMagicCr	nd(int cmd, int subCmd, String cumstomCmd)	
prototype			
Interface	Command pass-tl	nrough	
function			
Parameter	parameter in	Cmd-Command code	
description		SubCmd - subcommand code CumstomCmd-Parameter Data	
	parameter out	None	
Return value	None		
Additional			
explanation			
		rch command (DoCardSearch)	
Interface	public boolean L	OoCardSearch(MPOSService.CardRoutFlag cardRoutFlag)	
prototype			
Interface	search card		
function			
Parameter	parameter in	CardRoutFlag — Channel type (contact/noncontact)	
description	parameter out	See Card RoutFlag for values None	
Return value	Returns true on success		
	Returns false on failure		
Additional			
explanation	1. 4. 3. 18 Card Acti	ive (DoCardActive)	
Interface		CardActive(MPOSService.CardRoutFlag cardRoutFlag)	
prototype			
Interface	Card activation		
function			
Parameter	narameter in	CardRoutFlag — Channel type (contact/noncontact)	
description	parameter in	See Card RoutFlag for values	
description	parameter out	None	
Return value	Returns true on success Returns false on failure		
Additional			
explanation			
locks of		am instruction passthrough (DoCardExchangeCmdBytesApdu)	
Interface		<pre>public byte[] DoCardExchangeCmdBytesApdu(MPOSService.CardRoutFlag</pre>	
prototype			
Interface	Byte stream instr	ruction passthrough	
function			

Parameter	parameter in	CardRoutFlag — See CardRoutFlag for the value of
	parameter in	channel type (contact/non-contact)
description		DataCmd byte stream data
	parameter out	None
Return value	True/False	
Additional		
explanation		
		ver-off (DoCardDeActive)
Interface	public boolean Do	CardDeActive()
prototype		
Interface	Power off the car	d
function		
Parameter	parameter in	None
description	parameter out	None
Return value	Returns true on success	
	Returns false on fa	illure
Additional		
explanation		to the first of the William
		velope mode update key (updateWorkKey)
Interface	public void update	eWorkKey(String str)
prototype		
Interface	Digital envelope	mode update key
function		
Parameter	parameter in	Str key data information, see the appendix for the format
description	parameter out	None
Return value		
Additional		
explanation		

Chapter II Listening result callback interface declaration

1 UpdateInformationResult class definition

 $\{ \textit{UPDATE_SUCCESS}, \ \textit{UPDATE_FAIL}, \ \textit{UPDATE_PACKET_VEFIRY_ERROR}, \\ \textit{UPDATE_PACKET_LEN_ERROR}, \ \textit{UPDATE_LOWPOWER}, \ \textit{UPDATING}, \\ \textit{USB_RECONNECTING}; \}$

2 Display class definition

\('TRY_ANOTHER_INTERFACE\), \(PLEASE_WAIT\), \(REMOVE_CARD\), \(CLEAR_DISPLAY_MSG\), \(PROCESSING\), \(PIN_OK\), \(TRANSACTION_TERMINATED\), \(INPUT_PIN_ING\), \(MAG_TO_ICC_TRADE\), \(INPUT_OFFLINE_PIN_ONLY\), \(CARD_REMOVED\), \(MSR_DATA_READY\), \(PLEASE_TRY_AGAIN\), \(TRY_ANOTHER_CARD\); \(\rangle\)

3 Error class definition

{TIMEOUT, MAC_ERROR, CMD_TIMEOUT, CMD_NOT_AVAILABLE, DEVICE_RESET, UNKNOWN, DEVICE_BUSY, INPUT_OUT_OF_RANGE, INPUT_INVALID_FORMAT, INPUT_ZERO_VALUES, INPUT_INVALID, CASHBACK_NOT_SUPPORTED, CRC_ERROR, COMM_ERROR, WR_DATA_ERROR, EMV_APP_CFG_ERROR, EMV_CAPK_CFG_ERROR, APDU_ERROR, ICC_ONLINE_TIMEOUT, AMOUNT_OUT_OF_LIMIT, EMV_AID_MISSING_ERROR, EMV_CTL_EXCEED_LIMIT_ERROR, TRANS_KEY_ERROR;}

4 CommunicationMode class definition

{ AUDIO, BLUETOOTH_VER2, UART, UART_K7, BLUETOOTH_2Mode, USB, BLUETOOTH_4Mode, UART_GOOD, USB_OTG_CDC_ACM, BLUETOOTH, BLUETOOTH_BLE, UNKNOW;}

5 Service Interface Listener Class Description (MPOS Service Listener)

5.1 Interface list

Interface list Interface prototype	Functional description
onMposIdResult	Read the POSID result
onMposKsnResult	Read POSKsnD results
onMposIsCardExist	Obtain if the card results exist
onRequestDeviceScanFinished	Bluetooth scanning device end notification
onMposInfoResult	Read POS Info result
onMposGenerateSessionKeysResult	Get SessionKey results
onMposDoSetRsaPublicKey	Get Set RSA KEY Result
onReturnSendMagicCmd	Obtain the result of instruction passthrough
onDoGetRandomNumberResult	Get random number result callback
onRequestMposConnected	POS terminal connected callback
onRequestMposDisconnected	POS Terminal Disconnection Callback
onRequestNoMposDetected	POS terminal not detected (handshake failed)
onRequestNoMposDetectedUnbond	POS terminal not detected (handshake failed, 4.0 Bluetooth protocol)
onError	Error callback
onRequestDisplay	Prompt information display
onReturnApduResult	Not used
onReturnSetSleepTimeResult	Get the result of setting sleep time
onRequestCalculateMac	Obtaining MAC results
onRequestUpdateWorkKeyResult	Obtain the result of updating work key
onReturnCustomConfigResult	Get Custom Parameter Result
onReturnSetMasterKeyResult	Get Set Master Key Result
onRequestUpdateKey	Not used
onDeviceFound	Scan to Bluetooth device

onBluetoothBonding	In Bluetooth pairing
onBluetoothBonded	Bluetooth pairing successful
onBluetoothBondFailed	Bluetooth pairing failed
onBluetoothBondTimeout	Bluetooth pairing timeout
onUpdatePosFirmwareResult	Obtain OTA update result
onBluetoothBoardStateResult	Not used
onGetPosComm	Acquire and receiving communication data
onUpdateMasterKeyResult	Acquire that result of updating the mast key
onReturnNFCApduResult	Not used
onCbcMacResult	Get CBC MAC Results
onSetManagementKey	Not used
onSetSleepModeTime	Not used
onGetSleepModeTime	Not used
onGetShutDownTime	Get the shutdown time
onEncryptData	Get the encryption result

5.2 Read POSID result callback (onMposIdResult)

Interface	void onMposIdResult(Hashtable <string, string=""> posIdTable)</string,>	
prototype	-	
Interface	Read the POSID re	esult
function		
Parameter	parameter in	PosIdTable POS ID result
description	parameter out	None
Return value	None	
Additional		
explanation		

5.3 Read POSKsn result callback (onMposKsnResult)

J.J Keau I OS	OSKSII Tesuit Caliback (Oliviposksiikesuit)		
Interface	void onMposIdResult(Hashtable <string, string=""> hashtable)</string,>		
prototype			
Interface	Read POSKsn results		
function			
Parameter	parameter in	Hashtable POS Ksn Result	
description	parameter out	None	
Return value	None		
Additional			
explanation			

5.4 Get if there is a result callback for the card (onMposIsCard Exist)

Interface prototype	void onMposIsCardExist(boolean b)	
Interface	Get if there is a result callback for the card	

function		
Parameter	parameter in	b true Card exists false Card does not exist
description	parameter out	None
Return value	None	
	allback of the end re	esult of Bluetooth scanning device (onRequest Device ScanFinis
Interface		eviceScanFinished()
prototype	0 . 1	
Interface	Get Bluetooth	scanning device end callback
function		
Parameter	parameter in	None
description	parameter out	None
Return value	None	
Additional		
explanation		
		(onMposInfoResult)
Interface prototype	voia onMposinfol	Result(Hashtable <string, string=""> posInfoData)</string,>
Interface	Get POS Info R	Result Callback
function		
Parameter	parameter in	PosInfoData - POS Info Result
description	parameter out	None
Return value	None	
Additional		
explanation		
		k (onMposGenerateS essionKeysResult)
Interface	void onMposGene hashtable)	erateSessionKeysResult(Hashtable <string, string=""></string,>
prototype Interface		Result Callback
function		
		Hechtehle - CossionVoy Dogut
Parameter	parameter in	Hashtable - SessionKey Result
description	parameter out	None
Return value	None	
Additional		
explanation		
5.8 Get Set R		lback (onMposDoSetRsaPublicKey)
prototype	void omviposidose	etRsaPublicKey(boolean b)
Interface	Get Set RSA KE	Y Result Callback
function		
Parameter	parameter in	Btrue set successfully false set failed
description	parameter out	None
Return value	None	1
Tetarri value		

Additional explanation

5.9 Get instruction passthrough result callback (on ReturnSendMagicCmd)

Interface	void onReturnSend	dMagicCmd(String s)
prototype		
Interface	Get the callba	ick of the passthrough result of the setting
function	instruction	
Parameter	parameter in	S instruction passthrough result
description	parameter out	None
Return value	None	
Additional		
explanation		

5.10 Get random number result callback (onDoGetRandomNumberResult)

Interface	void onDoGetRand	domNumberResult(String s)
prototype		
Interface	Get random number result callback	
function		
Parameter	parameter in	S random number result
description	parameter out	None
Return value	None	
Additional		
explanation		

5.11 POS terminal connected callback (onRequestMposConnected)

Interface	void onRequestMposConnected()	
prototype		
Interface	POS terminal connected callback	
function		
Parameter	parameter in	None
description	parameter out	None
Return value	None	
Additional		
explanation		

5.12 POS terminal disconnected callback (onRequestMposDisconnected)

Interface	void onRequestMp	posDisconnected ()
prototype		
Interface	POS terminal disconnected callback	
function		
Parameter	parameter in	None
description	parameter out	None
Return value	None	
Additional		
explanation		

5.13 Device callback not detected (onRequestNoMposDetected)

Interface	void onRequestNoMposDetected ()
prototype	
Interface	Device not detected, handshake with device failed

function		
Parameter	parameter in	None
description	parameter out	None
Return value	None	
Additional		
explanation		
5.14 Davide callback not detected (anDequestNoMnes Detected Unband)		

5.14 Device callback not detected (onRequestNoMposDetectedUnbond)

Interface	void onRequestNo	MposDetectedUnbond ()
prototype		
Interface	Device not detected, handshake with device failed, 4.0	
function	Bluetooth protocol	
Parameter	parameter in	None
description	parameter out	None
Return value	None	
Additional		
explanation		

5.15 Error callback (onError)

Interface	void onError(MPC	OSService.Error errorState)
prototype		
Interface	An error result is returned	
function		
Parameter	parameter in	ErrorState-see the Error class definition
description	parameter out	None
Return value	None	
Additional		
explanation		

5.16 Prompt message display callback (onRequestDisplay)

Interface	void onRequestDisplay(MPOSService.Display displayMsg)	
prototype		
Interface	A prompt message is displayed	
function		
Parameter	parameter in	displayMsg-see Display class definition
description	parameter out	None
Return value	None	
Additional		
explanation		

5.17 Get the set sleep time result callback (on ReturnSetSleepTimeResult)

Interface	void onReturnSetS	SleepTimeResult(boolean isSuccess)
prototype		
Interface	Set sleep time result return	
function		
Parameter	parameter in	IsSuccess - true set successfully false set failed
description	parameter out	None
Return value	None	

Additional				
explanation				
Interface prototype	void onRequestCalculateMac(String calMac)			
Interface	MAC results are r	eturned		
function				
Parameter	parameter in	CalMac - mac results		
description	parameter out	None		
Return value	None			
Additional				
explanation 5.10 Cat Sat	Mastan Vary Daguit a	allhaalt (an Datum Cat Maatan Vay Dagy It)		
5.19 Get Set I	•	allback (on ReturnSetMasterKeyResult) MasterKeyResult(boolean isSuccess)		
prototype	void officetarinsens	naster regressin (bootean issuecess)		
Interface	Set Master Key Re	esult Return		
function				
Parameter	parameter in	IsSuccess - true set successfully false set failed		
description	parameter out	None		
Return value	None			
Additional				
explanation	1 1 1 1.	W 1 / D ' E 1)		
5.20 Bluetoot		callback (onDeviceFound) nd(BluetoothDevice bluetoothDevice)		
prototype	void onDevicer ou	ind(Bidetoothisevice bidetoothisevice)		
Interface	Scan to Blueto	ooth device		
function				
Parameter	parameter in	BluetoothDevice-Bluetooth Device Information		
description	parameter out	None		
Return value	None			
Additional				
explanation				
		g (onBluetoothBonding)		
Interface prototype	void onBluetoothB	onding()		
Interface	In Bluetooth p	In Bluetooth pairing		
function				
Parameter	parameter in	None		
description	parameter out	None		
Return value	None			
Additional				
explanation				
	5.22 Bluetooth pairing successful callback (on BluetoothBonded)			
Interface	void onBluetoothB	onded ()		
prototype				

Interface	Bluetooth pairing	gsuccessful	
function			
		None	
Parameter	parameter in		
description	parameter out	None	
Return value	None		
Additional			
explanation			
		lback (onBluetoothBondFailed)	
Interface	void onBluetoothB	ondFailed ()	
prototype Interface	Bluetooth pairing	failed	
	Diactootii pailing	ianea	
function		[\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
Parameter	parameter in	None	
description	parameter out	None	
Return value	None		
Additional			
explanation			
		allback (onBluetoothBondTimeout)	
Interface	void onBluetoothB	ondTimeout ()	
prototype			
Interface	Bluetooth pair	ing timeout	
function			
Parameter	parameter in	None	
description	parameter out	None	
Return value	None		
Additional			
explanation			
5.25 Get casl	back card data callb	ack (onReturniccCashBack)	
Interface	void onReturniccC	CashBack(Hashtable <string, string=""> result)</string,>	
prototype	C-+ +h	-11 1-4-	
Interface	Get the cashba	ick card data	
function			
Parameter	parameter in	Result - Contains serviceCode, trackblock, and other tags	
description	parameter out	None	
Return value	None		
Additional			
explanation			
5.26 Get OTA	A update result callba	ack (onUpdatePosFirmwareResult)	
Interface	void onUpdatePosFirmwareResult(MPOSService.UpdateInformationResult		
prototype	arg0)		
Interface	Obtain OTA update result		
function Parameter	noromotor :-	and say the Undete Information Desult along definition	
description	parameter in parameter out	arg0 see the Update Information Result class definition None	
Return value	None	110110	
Additional			

explanation			
	callback of received communication data (onGetPosComm)		
Interface	void onGetPosComm(int mod, String amount, String posid)		
prototype	Acquiring received communication data		
Interface	Acquiring rece	rived communication data	
function			
Parameter	parameter in	Mod-Transaction Mode	
description		Amount-Transaction amount information	
,	parameter out	Posid posid information None	
D / 1	None	1.0.10	
Return value	None		
Additional			
explanation	1-4 1	14 1111- (141414141414	
5.28 Get the uniterface		sult callback (onUpdateMasterKeyResult) terKeyResult(boolean arg0,	
prototype	void offopdatewas	Hashtable <string, string=""> arg1)</string,>	
Interface	Acquire that r	esult of updating the mast key	
	noquire that i	esuit of apaciting the mast key	
function			
Parameter	parameter in	Arg0true Update successful false Update failed Arg1 - contains RN1, POSID tags	
description	parameter out	None	
Return value	None		
Additional			
explanation			
	C MAC Result Callba	ack (onCbcMacResult)	
Interface	void onCbcMacRe		
prototype			
Interface	Get CBC mac re	sults	
function			
Parameter	parameter in	S - mac value	
description	parameter out	None	
Return value	None		
Additional			
explanation			
5.30 Get the s	shutdown time callba	ack (onGetShutDownTime)	
Interface	void onGetShutDo	wnTime(String s)	
prototype Interface	Shutdown time		
function			
Parameter	parameter in	S - Shutdown time	
description	parameter out	None	
Return value	None	1	
Additional			
explanation			
5.31 Get encryption result callback (onEncryptData)			
Interface		ta(Hashtable <string, string=""> hashtable)</string,>	
	<u>. </u>	·	

prototype		
Interface	Obtain data encryption result	
function		
Parameter	parameter in	Hashtable - Contains encryptedData, ksn tags
description	parameter out	None
Return value	None	
Additional		
explanation		

Chapter III Appendix

1 Work key data format