# Audio Reader PROGRAMMING REFERENCE MANUAL

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# SECTION 1. MagTekSCRA CLASS

Classes	Description	
MagTekSCRA	This class allows you to perform reader functions.	

### **Methods:**

Memous:	
openDevice:	Open device
closeDevice:	Close device
isDeviceConnected	Check the connection status of reader
clearBuffers	Clear card data that is stored through the setCardData function
getMaskedTracks	Retrieves the existing stored masked track data
getTrack1	Retrieves encrypted track1
getTrack2	Retrieves encrypted track2
getTrack3	Retrieves encrypted track3
getTrack1Masked	Retrieves masked track1
getTrack2Masked	Retrieves masked track2
getTrack3Masked	Retrieves masked track3
getMagnePrint	Retrieves encrypted MagnePrint
getMagnePrintStatus	Retrieves encrypted MagnePrintStatus
getDeviceSerial	Retrieves device serial number
getSessionID	Retrieves session ID
getKSN	Retrieves key serial number
getTagValue	Retrieves tag value in tracks data
getMagTekDeviceSerial	Retrieves device serial number created by MagTek
getDeviceName	Retrieves device model name
getDeviceCaps	Retrieves device capabilities
getDeviceStatus	Retrieves device status
getTLVVersion	Retrieves TLV version
getDevicePartNumber	Retrieves device part number
sendCommandToDevice	Send command to device
getCapMSR	Retrieve MSR Capability
getCapTracks	Retrieve Tracks Capability
getCapMagStripeEncryption	Retrieve MagStripe Encryption Capability
setDeviceProtocolString	Sets the protocol String for iDynamo
listenForEvents	Setup the events to listen for
getDeviceType	Retrieves the Device Type
getCardPANLength	Retrieves the Length of teh PAN
getResponseData	Retrieved the whole Response from the reader
getCardName	Retrieves the Name in the Card
getCardIIN	Retrieves the IIN in the Card
getCardLast4	Retrieves the Last 4 of the PAN
getCardExpDate	Retrieves the Expiration Date
getCardServiceCode	Retrieves the Service Code
getCardStatus	Retrieves the Card Status
getTrackDecodeStatus	Retrieves the Track Decode Status
getResponseType	Retrieve Response Type
setDeviceType	Sets the type of device to Open
isDeviceOpened	Retrieves device opened status

### **Notifications:**

trackDataReadyNotification	Receieves notification when track data is available on reader
devConnectionNotification	Receieves notification when reader's connection status is changed
getSDKVersion	Retrieves SDK version
getOperationStatus	Retrieves operation status

### Enum:

Enum.	·
MTSCRADeviceType	MAGTEKAUDIOREADER
MTSCRATransactionStatus	TRANS_STATUS_OK
	TRANS_STATUS_START
	TRANS_STATUS_ERROR
MTSCRATransactionData	TLV_OPSTS
	TLV_CARDSTS
	TLV_TRACKSTS
	TLV_CARDNAME
	TLV_CARDIIN
	TLV_CARDLAST4
	TLV_CARDEXPDATE
	TLV_CARDSVCCODE
	TLV_CARDPANLEN
	TLV_ENCTK1
	TLV_ENCTK2
	TLV_ENCTK3
	TLV DEVSN
	TLV_DEVSN TLV DEVSNMAGTEK
	TLV DEVSNMAGTER
	TLV DEVNAME
	TLV_DEVNAME TLV_DEVCAPS
	TLV_TLVVERSION
	TLV DEVPARTNUMBER
	TEV_DEVITACINOMBER
	TLV_KSN
	TLV CMAC
	_

### Methods

### openDevice:

This function opens the reader.

- (BOOL) openDevice Parameters

#### Return Value

YES if the device is opened successfully. Otherwise, return NO.

#### closeDevice:

This function close the reader.

- (BOOL) closeDevice

#### **Parameters**

#### Return Value

YES if the device is closed successfully. Otherwise, return NO.

#### isDeviceConnected

This function retrieves the connection status of the reader.

- (BOOL) isDeviceConnected

#### **Parameters**

#### Return Value

YES if the device is connected. Otherwise, return NO.

#### clearBuffers

Clears all the buffer that is stored during card swipe or command response.

- (void) clearBuffers

#### **Parameters**

### getMaskedTracks

Retrieves existing stored Masked data, only supported for iDynamo, it will return a empty string in audio reader

```
(NSString *) getMaskedTracks
```

#### Parameters

#### Return Value

Return stored masked tracks data string.

### getTrack1

```
Retrieve Encrypted Track1 if any
- (NSString *) getTrack1
```

#### **Parameters**

#### Return Value

Return stored encrypted track1 data string.

### getTrack2

Retrieve Encrypted Track2 if any

```
- (NSString *) getTrack2
```

#### **Parameters**

#### Return Value

Return stored encrypted track2 data string.

### getTrack3

Retrieve Encrypted Track3 if any

```
- (NSString *) getTrack3
```

#### **Parameters**

#### Return Value

Return stored encrypted track3 data string.

### getTrack1Masked

Retrieve Masked Track1 if any

- (NSString \*) getTrack1

#### **Parameters**

#### Return Value

Return stored masked track1 data string.

### getTrack2Masked

Retrieve Masked Track2 if any

- (NSString \*) getTrack2

#### **Parameters**

#### Return Value

Return stored masked track2 data string.

### getTrack3Masked

Retrieve Masked Track3 if any

- (NSString \*) getTrack3

#### **Parameters**

#### Return Value

Return stored masked track3 data string.

### getMagnePrint

Not Supported on Audio Reader.

- (NSString \*) getMagnePrint

#### **Parameters**

#### Return Value

Empty String.

### get Magne Print Status

Not Supported on Audio Reader.

- (NSString \*) getMagnePrintStatus

#### **Parameters**

#### Return Value

Empty String.

### getDeviceSerial

Retrieve device serial number.

- (NSString \*) getDeviceSerial

#### **Parameters**

#### Return Value

Return stored device serial number.

### getSessionID

Not Supported on Audio Reader.

- (NSString \*) getSessionID

#### **Parameters**

#### Return Value

Empty String

#### getKSN

Retrieve key serial number.

- (NSString \*) getKSN

#### **Parameters**

#### Return Value

Return stored key serial number.

### getTagValue

Retrieve individual tag value, only supported in audio reader - (NSString \*) getTagValue: (UInt32) tag

#### **Parameters**

tag

A MTSCRATransactionData Enum type.

#### Return Value

Return tag value.

### getMagTekDeviceSerial

Retrieve Device Serial Number created by MagTek

- (NSString \*) getMagTekDeviceSerial

#### **Parameters**

#### Return Value

Return stored key serial number created by MagTek.

### getFirmware

Retrieve firmware version number.

- (NSString \*) getFirmware

#### **Parameters**

#### Return Value

Return firmware version.

### getDeviceName

Get device model name.

- (NSString \*) getDeviceName

#### **Parameters**

#### Return Value

Return device model name.

### getDeviceCaps

Get device capabilities. For future use.

- (NSString \*) getDeviceCaps

#### **Parameters**

#### Return Value

Return device capabilities.

### getDeviceStatus

Get device status. For future use.

- (NSString \*) getDeviceStatus

#### **Parameters**

#### Return Value

Return device status.

### getTLVVersion

Get TLV Version of firmware.

- (NSString \*) getTLVVersion

#### **Parameters**

#### Return Value

Return TLV version of firmware as a Two-byte hex string.

### getDevicePartNumber

Not Supported on Audio Reader.

- (NSString \*) getDevicePartNumber

#### **Parameters**

#### Return Value

Empty String.

#### sendCommandToDevice

Send command to device.

```
- (Void *) sendCommandToDevice: (NSString *)pData
```

#### **Parameters**

Command string.

#### Return Value

Send command to device. Please refer to Section 2 for command list.

#### getCapMSR

Retrieve MSR Capability. Returned when Discovery Command is sent.

```
- (NSString *) getCapMSR
```

#### **Parameters**

#### Return Value

```
Return MSR Capability
0 = No MSR,
1 = MSR
```

#### getCapTracks

Retrieve Tracks Capability. Returned when Discovery Command is sent.

```
- (NSString *) getCapTracks
```

#### **Parameters**

#### Return Value

```
Return Tracks Capability
Bit 0 = 1 / Track 1 supported,
Bit 1 = 1 / Track 2 supported,
Bit 2 = 1 / Track 3 supported,
all other bits 0.
```

### getCapMagStripeEncryption

Retrieve MagStripe Encryption Capability. Returned when Discovery Command is sent.

```
- (NSString *) getCapMagStripeEncryption
```

#### **Parameters**

#### Return Value

```
Return MagStripe Encryption Capability 0 = No Encryption, 1 = TDES DUKPT / PIN Variant, other values TBD
```

### setDeviceProtocolString

Sets the protocol String for iDynamo

- (void) setDeviceProtocolString: (NSString \*)pData

#### **Parameters**

Protocol String

#### **IistenForEvents**

Setup the events to listen for

- (void) setDeviceProtocolString: (UInt32 \*) event

#### **Parameters**

**Event** 

### getDeviceType

Retrieves the Device Type. For future use.

- (int) getDeviceType

#### **Parameters**

#### Return Value

Devi ce Type

### getCardPANLength

Retrieves the Length of teh PAN - (int) getCardPANLength

**Parameters** 

#### Return Value

Card PAN Length

### getResponseData

Retrieves the whole response from the reader - (NSString \*) getResponseData

**Parameters** 

#### Return Value

Response Data

```
getCardName
```

Retrieves the Name in the Card
- (NSString \*) getCardName

#### **Parameters**

Return Value Card Name

### getCardIIN

Retrieves the IIN in the Card
- (NSString \*) getCardIIN

#### **Parameters**

Return Value

### getCardLast4

Retrieves the Last 4 of the PAN
- (NSString \*) getCardLast4

#### **Parameters**

Return Value

Last 4 of the PAN

### getCardExpDate

Retrieves the Expiration Date
- (NSString \*) getCardExpDate

#### **Parameters**

Return Value

Expiration Date

### getCardServiceCode

Retrieves the Service Code
- (NSString \*) getCardServiceCode

#### **Parameters**

Return Value

Servi ce Code

### getCardStatus

```
Retrieves the Card Status
- (NSString *) getCardStatus
```

#### **Parameters**

#### Return Value

Card Status

### getTrackDecodeStatus

```
Retrieves the Track Decode Status
- (NSString *) getTrackDecodeStatus
```

#### **Parameters**

#### Return Value

Track Decode Status. Consists of three 2-byte hex values representing the decode status for tracks 1, 2, and 3 (respectively from left to right).

Values are: 00 = Track OK

01 = Track read Error

02 = Track is Blank

### getResponseType

Retrieves the Response Type.

```
- (NSString *) getResponseType
```

#### **Parameters**

#### Return Value

For Audio Reader, always "C101".

### setDeviceType

```
Sets the type of device to Open
```

- (voi d) setDevi ceType: (UI nt32 \*) devi ceType

#### **Parameters**

Devi ce Type. Options: MTSCRADevi ceType. MAGTEKAUDI OREADER MTSCRADevi ceType. MAGTEKI DYNAMO MTSCRADevi ceType. MAGTEKNONE

### isDeviceOpened

Retrieves device opened status - (B00L) i sDevi ce0pened

#### **Parameters**

#### Return Value

Boolean whether device is opened or not

### getBatteryLevel

Retrieves device battery level

- (long) getBatteryLevel

#### **Parameters**

#### Return Value

Battery Level (0 to 100)

### getSDKVersion

Retrieves the SDK Version
- (NSString \*) getSDKVersion

#### **Parameters**

#### Return Value SDK Version

### getOperationStatus

Retrieves the operation status.

- (NSString \*) getOperationStatus

#### **Parameters**

```
Return Value
      2-byte bit string in hex. The bits correspond to:
      Bit 0 = DUKPT Keys exhausted (1=exhausted, 0=keys available)
      Bit 1 = Initial DUKPT key Injected, always set to One (Primary
      DUKPT Key)
      Bit 2 = Encryption Enabled
      Bit 3 = Reserved (always set to zero)
      Bit 4 = Reserved (always set to zero)
Bit 5 = Reserved (always set to zero)
Bit 6 = Reserved (always set to zero)
Bit 6 = Reserved (always set to zero)
      Bit 7 = Reserved (always set to zero)
      Bit 8 = Reserved (always set to zero)
      Bit 9 = Initial DUKPT key injected (Secondary DUKPT Key)
      Bit 10 = DUKPT Key used for encryption,
             0=Pri mary,
             1=Secondary
      Bit 11 = DUKPT Key Variant used to encrypt data,
             0=PIN Variant,
             1=Data Variant/Bidirectional
      Bits 12-15 = Unassigned (always set to Zero)
```

### setConfigurationParams

Sets configuration parameters

- (void) setConfigurationParams: (NSString \*) pData

#### **Parameters**

pData

PAN\_MOD10\_CHECKDIGIT = TRUE/FALSE (default is TRUE)

# Notification

### track Data Ready Notification

Notification received when tracks data is available on reader.

### devConnectionNotification

Notification received when the connection status of the reader is changed.

### Enum

### MTSCRADeviceType

MAGTEKAUDIOREADER is used to open/close audio reader.

#### MTSCRATransactionStatus

TRANS\_STATUS\_OK is triggered when transaction succeed.

TRANS\_STATUS\_START is triggered when reader starts sending data.

TRANS\_STATUS\_ERROR is triggered when reader fails sending data.

#### MTSCRATransactionData

#### TLV\_OPSTS

Operation Status

#### TLV\_CARDSTS

Card Information

#### TLV\_TRACKSTS

Card tracks status

#### TLV CARDNAME

Card holder name

#### TLV CARDIIN

Card issuer identification number

#### TLV\_CARDLAST4

Last four digits of PAN number

#### TLV\_CARDEXPDATE

Card Expiration date

#### TLV\_CARDSVCCODE

Card service code

#### TLV\_CARDPANLEN

The length of PAN number

#### TLV\_ENCTK1

Encrypted track 1

#### TLV\_ENCTK2

### Encrypted track 2

#### TLV\_ENCTK3

Encrypted track 3

#### TLV\_DEVSN

Device serial number

#### TLV\_DEVSNMAGTEK

Device serial number created by Magek

#### $TLV\_DEVFW$

Device firmware version

#### TLV\_DEVNAME

Device model name

#### TLV\_DEVCAPS

Device capabilities

#### TLV\_DEVSTATUS

Device status

### TLV\_TLVVERSI ON

Firmware TLV version

#### TLV\_DEVPARTNUMBER

Device part number

#### TLV\_KSN

**KSN** 

### TLV\_CMAC

CMAC

### **SECTION 2. COMMANDS**

#### Discovery

Send discovery command to device.

- (Void \*) sendCommandToDevice: (NSString \*) command

#### **Parameters**

Command string: use "C10206C20503840900" as command string.

#### Return Value

Following device information can be retrieved.

#### Device SN, internal

Device serial number created by chip manufacturer.

use getDeviceSerial method to retrieve data.

#### Device SN, MagTek

Device serial number created by MagTek.

use getDeviceSerialMagTek method to retrieve data.

#### Device Firmware Part Number

Device firmware part number.

use getFirmware method to retrieve data.

#### Device Model Name

Device model name.

use getDeviceName method to retrieve data.

#### Device TLV Version

Device TLV version.

use getTLVVersion method to retrieve data.

#### Device Part Number

Device part number.

use getDevicePartNumber method to retrieve data.

Capability - MSR0 = No MSR, 1 = MSR

use getCapMSR method to retrieve data.

#### Capability - TRACKS

- 0 = Supported tracks: None.
  1 = Supported tracks: Track1.
  2 = Supported tracks: Track2.
- 3 = Supported tracks: Track1, Track2.

4 = Supported tracks: Track3. 5 = Supported tracks: Track1, Track3. 6 = Supported tracks: Track2, Track3. 7 = Supported tracks: Track1, Track2, Track3.

use getCapTracks method to retrieve data.

Capability - MagStripe Encryption
0 = No Encryption, 1 = TripDES DUKPT

use getCapMagStripeEncryption method to retrieve data.

### SECTION 3. CODE EXAMPLES

#### **Open Device:**

```
sel f. mtSCRALi b = [[MTSCRA alloc] init];
  [sel f. mtSCRALi b
listenForEvents: (TRANS_EVENT_OK|TRANS_EVENT_START|TRANS_EVENT_ERROR)];

//i Dynamo
  [sel f. mtSCRALi b setDevi ceType: (MAGTEKI DYNAMO)];
  [sel f. mtSCRALi b setDevi ceProtocol String: ("com. magtek. i dynamo")];
  [sel f. mtSCRALi b setDevi ceType: (MAGTEKI DYNAMO)];

//Audi o

//[sel f. mtSCRALi b setDevi ceType: (MAGTEKAUDI OREADER)];
  [sel f. mtSCRALi b openDevi ce];
```

#### **Close Device:**

```
[self.mtSCRALib closeDevice];
```

### **Get Tracks Data From Reader:**

```
[[NSNotificationCenter defaultCenter] addObserver:self
selector:@selector(trackDataReady:) name:@"trackDataReadyNotification"
object:nil];

- (void)trackDataReady: (NSNotification *) notification
{
     NSNumber *status = [[notification userInfo]
     valueForKey:@"status"];

     [self performSelectorOnMainThread:@selector(onDataEvent:)
withObject:status waitUntilDone:YES];
}
- (void) onDataEvent: (id) status
{
     //[self clearLabels];
     switch ([status intValue]) {
          case TRANS_STATUS_OK");
          break;
          case TRANS_STATUS_ERROR:
```

```
NSLog(@"TRANS_STATUS_ERROR");
break;
default:
    break;
}
```

#### **Get Connection Status Of Reader:**

```
[[NSNotificationCenter defaultCenter] addObserver: self
selector: @selector(devConnStatusChange)
name: @"devConnectionNotification" object: nil];

- (void) devConnStatusChange
{
    BOOL isDeviceConnected = [self.mtSCRALib isDeviceConnected];
    if (isDeviceConnected)
    {
        self.deviceStatus.text = @"Device Connected";
    }
    else
    {
        self.deviceStatus.text = @"Device Disconnected";
    }
}
```