TDKW API 1.1.0 R230327

TDKW_API_1.1.0_R230331.odt

TDKW API

1. **Format**

   Use JSON for send and receive data.

   1.1 String is in double quote, such as **`"String"`**

   1.2 Boolean doesn't use double quote, such as **`true`**

   1.3 Number doesn't use double quote, such as **`-1`**

   1.4 Binary must be converted to Base64 string.

2. **Commands (Browser To Agent)**

The "Command" will be sent from webpage (browser) to TDKW Agent via WebSocket. The agent will send the response "Message" back to webpage via WebSocket too.

2.1 **`GetReaderList`**: Get TDKW connected reader list from agent.

"Command":	"GetReaderList"

Response

"Message":	"GetReaderListR"
"ReaderList":	(String Array) Array of TDKW connected reader list
	Example: ["Reader 0", "Reader 1", "Reader 2"]
"Status":	(Number) Return code
	Positive number: Number of TDKW readers in the list
	Zero: The connected readers can't be used with TDKW Agent
	Negative number: Error code

2.2 **`SelectReader`**: Select reader for using.

"Command":	"SelectReader"
"ReaderName":	(String) Reader name

Response

"Message":	"SelectReaderR"
"ReaderName":	(String) Selected reader name
"Status":	(Number) Return code
	Positive number: Reader has been selected successfully
	Negative number: Error code

2.3 **`ReadIDCard`**: Read data from Thai national ID card.

"Command":	"ReadIDCard"
"IDNumberRead":	(Boolean) true = Read Thai ID card ID number
"IDTextRead":	(Boolean) true = Read Thai ID card text
"IDPhotoRead":	(Boolean) true = Read Thai ID card photo

"IDATextRead": (Boolean) true = Read all Thai ID card text

Response

"Message": "ReadIDCardR"

"IDNumber": (String) ID number

"IDText": (String) Thai ID card text read

"IDPhoto": (String) Base64 string from Thai ID card photo

"IDAText": (String) Thai ID card all text read

"Status": (Number) Return code

IDText Data Table

	Field	Text size	Note
1	NID number	13 characters	“1234567890123”
2	Thai title	103 characters maximum	
3	Thai first name		
4	Thai middle name		
5	Thai last name		
6	English title	103 characters maximum	
7	English first name		
8	English middle name		
9	English last name		
10	Number	167 characters maximum	
11	Moo		
12	Trok		
13	Soi		
14	Thanon		
15	Tambon/Khwaeng		
16	Amphoe/Khet		
17	Changwat		
18	Gender	1 character	“1”=Male, “2”=Female
19	Birth date	8 characters	YYYYMMDD YYYY : Buddhist Era Year MM = “00” if month is unknown. DD = “00” if day is unknown.
20	Issue place	100 characters maximum	
21	Issue date	8 characters	YYYYMMDD (Buddhist Era)
22	Expiry date	8 characters	YYYYMMDD (Buddhist Era) “99999999” for life long card.
23	Issue number	14 characters	May be not available in some card versions.

Example

“3650800011234#นาย#สมชาย##สามรักสกุล#Mr.#Somchai##Samruksakul#123/45#หมู่ที่ 12####ตำบลบึงพระ#อำเภอเมืองพิษณุโลก#จังหวัดพิษณุโลก#1#25240119#เทศบาลนครพิษณุโลก#25521026#25590118#12345678901234”

AText Data Table

	Field	Text size	Note
1-23	Text data of Thai ID card		First 23 data items are same as 23 text data from IDText
24	BP1/Request Number	20 characters	“12345678901/12345678” The first 11 characters are the BP1 Number. The last 8 characters are Request Number. The slash (/) as a separator.
25	Issuer Code	13 characters	“1234567890123”
26	Structure Version	4 characters	The card data structure version, such as “0003” or “0004”.
27	Card Type	2 characters	“01” 01 is Thai ID card.
28	Title Flag	1 character	Space = No title flag “0” = Normal title “1” = Royal Thai navy ranks (ร.น.) “2” = Priest’s ranks

Example

“3650800011234#นาย#สมชาย##สามรักสกุล#Mr.#Somchai##Samruksakul#123/45#หมู่ที่ 12####ตำบลบึงพระ#อำเภอเมืองพิษณุโลก#จังหวัดพิษณุโลก#1#25240119#เทศบาลนครพิษณุโลก#25521026#25590118#12345678901234#12345678901/12345678#1234567890123#0004#01#0” Null

Note The total items may be changed in the future.

2.4 **`GetSoftwareInfo`**: Get software information.

"Command": "GetSoftwareInfo"

Response

"Message": "GetSoftwareInfoR"

"SoftwareInfo": (String) Software information

"<RDNIDLib info>#<Agent info>"

"Status": (Number) Return code

2.5 **`GetLicenseInfo`**: Get license information.

"Command": "GetLicenseInfo"

Response

"Message": "GetLicenseInfoR"

"LicenseInfo": (String) License information

"Status": (Number) Return code

2.6 **`GetReaderID`**: Get reader ID.

"Command": "GetReaderID"

Response

"Message": "GetReaderIDR"

"ReaderID": (String) Hex string of ReaderID

Example: "5790C87006A302D9B0C2AA1A0EC71D69"

"Status": (Number) Return code

Positive number: ReaderID hex string byte count

Negative number: Error code

2.7 **`UpdateLicenseFile`**: Update the license file.

"Command": "UpdateLicenseFile"

Response

"Message": "UpdateLicenseFileR"

"Status": (Number) Return code

0 and positive number: The new license file has been successfully updated.

Negative number: Error code

2.8 **`SetAutoReadOptions`**: Set options of Thai ID card AutoRead operation.

"Command": "SetAutoReadOptions"

"AutoRead": (Boolean) true = Set AutoRead on.

"IDNumberRead": (Boolean) true = Read Thai ID card ID number

"IDTextRead": (Boolean) true = Read Thai ID card text

"IDPhotoRead": (Boolean) true = Read Thai ID card photo

"IDATextRead": (Boolean) true = Read all Thai ID card text

Response

"Message": "SetAutoReadOptionsR"

"AutoRead": (Boolean) Current value of AutoRead

"IDNumberRead": (Boolean) Current value of IDNumberRead option

"IDTextRead": (Boolean) Current value of IDTextRead option

"IDPhotoRead": (Boolean) Current value of IDPhotoRead option

"IDATextRead": (Boolean) Current value of IDATextRead option

"Status": (Number) Return code

2.9 **`GetAutoReadOptions`**: Get AutoRead option value from agent.

"Command": "GetAutoReadOptions"

Response

"Message": "GetAutoReadOptionsR"

"AutoRead": (Boolean) Current value of AutoRead

"IDNumberRead": (Boolean) Current value of IDNumberRead option

"IDTextRead": (Boolean) Current value of IDTextRead option

"IDPhotoRead": (Boolean) Current value of IDPhotoRead option

"IDATextRead": (Boolean) Current value of IDATextRead option

"Status": (Number) Return code

3. Events (from Agent to Browser)

The "Message" will be send from TDKW Agent via WebSocket to the webpage when there are some special events occurred.

3.1 **`AgentStatusE`**: Status message sent from Agent

"Message": "AgentStatusE"

"AgentInfo": (String) Agent information "TDKW Agent x.x.x"

"Status": 1: WebSocket started

3.2 **`CardStatusChangeE`**: The status of card insertion changed.

"Message": "CardStatusChangeE"

"ReaderName": (String) Reader name

"Status": (Number) Current status of card insertion

1: Card is present

-16: Card is absent

-1004: Agent card connection error

0: Card status is unknown

Other negative number is Error code

3.3 **`ReadingProgressE`**: Progression of Thai ID card reading.

"Message": "ReadingProgressE"

"Progress": (Number) 1 to 100: Percentage of reading progression

"Status": (Number) Status of reading

0: Reading is in progress

-1: Reading aborted

3.4 **`AutoSelectReaderE`**: The reader has been selected automatically from AutoRead mode.

"Message": "AutoSelectReaderE"

"ReaderName": (String) Selected reader name

"Status": (Number) Return code

Positive number: Reader has been selected successfully

Negative number: Error code

3.5 **AutoReadIDCardE**: Thai ID card data from AutoRead operation.

"Message": "AutoReadDataE"

"IDNumber": (String) ID number

"IDText": (String) Thai ID card text read

"IDPhoto": (String) Base64 string from Thai ID card photo

"IDAText": (String) Thai ID card all text read

"Status": (Number) Return code

Note See IDText and IDAText data structure from **ReadIDCard** command.

TDKW Return Code and Error Code

Return Code and Error Code	Name
0	NID_SUCCESS
-1	NID_INTERNAL_ERROR
-2	NID_INVALID_LICENSE
-3	NID_READER_NOT_FOUND
-4	NID_CARD_CONNECTION_ERROR
-5	NID_GET_PHOTO_ERROR
-6	NID_GET_TEXT_ERROR
-7	NID_INVALID_CARD
-8	NID_UNKNOWN_CARD_VERSION
-9	NID_DISCONNECTION_ERROR
-10	NID_INIT_ERROR
-11	NID_READER_NOT_SUPPORT
-12	NID_LICENSE_FILE_ERROR
-13	NID_PARAMETERS_ERROR
-15	NID_INTERNET_ERROR
-16	NID_CARD_NOT_FOUND
-18	NID_LICENSE_UPDATE_ERROR
-19	NID_READER_SELECTION_ERROR
-1001	KW_AGENT_INTERNAL_ERROR
-1002	KW_READ_OPTIONS_ERROR
-1004	KW_CARD_CONNECTION_ERROR



บริษัท อาร์แอนด์ดี คอมพิวเตอร์ ซิสเท็ม จำกัด
R&D Computer System Co., Ltd.

02-693-1745, 02-694-3133
sales@rd-comp.com
https://www.rd-comp.com