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**Information technology - Information device
interconnection - Interface requirements between
third-party smart home electric system and general
terminal access service platform**

信息技术 信息设备互连 第三方智能家用电子系统与终端统一接入
服务平台接口要求

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**Standardization Administration of the People's Republic of
China.**

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Information technology - Information device interconnection - Interface requirements between third-party smart home electric system and general terminal access service platform

1 Scope

This Standard specifies general data formats as well as message parameter definitions BETWEEN third-party smart home electric system and terminal AND service platform.

This Standard is applicable to the design, development and deployment of application client and service platform of smart home electric system.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

GB/T 37723-2019, *Information technology - Information device interconnection - General technical requirement for smart home electric system terminal access service platform*

3 Terms and definitions

For the purposes of this document, the terms and definitions defined in GB/T 37723-2019 apply.

4 Acronyms

The following acronyms apply to this document.

UTC (Coordinated Universal Time)

UUID (Universally Unique Identifier)

			extension	Additional information of device status update
		account		User account identification of the service platform
		token		The token obtained after logging into the service platform
		duration		Inquire the time range of the data, UTC (s) time. If it is empty, it means to inquire the latest recorded data
	ID	dataID		Data identification

5.2 General data formats of request interface of service platform

See Table 2 for the general data formats of request interface of service platform.

Table 2 -- General data formats of request interface of service platform

Element	Field name		Description
Interface name	name		Fill in separately according to the interface used
Interface type	thirdPartyInterface		The service interface that is provided by the service platform to the third-party smart home electric system
Request content	intent		Operation description
	devices	deviceID	Device identification
		subscriptionID	Subscription identification

6 Message parameter definitions

6.1 Request interface of third-party smart home electric system

6.1.1 Registration information of inquire terminal device of third-party smart home electric system

6.1.1.1 Function description

The extension function is used for the third-party smart home electric system to request the service platform to view the bound device registration information.

6.1.1.2 Message parameter definitions

See Table 3 for the message parameter definitions of registration information of the terminal device that is viewed by the third-party smart home electric system.

Type	thirdPartyInterface			Yes	The service interface that is provided by the service platform to the third-party smart home electric system
Request content	system	version		Yes	Protocol version information
		sign		Yes	Signature value
		key		Yes	Request source, the identification value of the key of the third-party smart home electric system
		timestamp		Yes	Timestamp
	request	url		Yes	Request source, the domain name of the third-party smart home electric system
		account		Yes	Service platform account used by the request source
		token		Yes	Session token obtained after logging in to the service platform
		host		Yes	Request operation source
	parameters	deviceId		Yes	Device identification
		attribute	value	Yes	Set status value
			updateTime	No	Update time of device status value
			extension	No	Additional information of device status update
	notifyUserActionDataID			Yes	Data identification

6.1.3 Third-party smart home electric system verifying user identity of service platform

6.1.3.1 Function description

The extension function is used for the third-party smart home electric system to verify the user identity of the service platform.

6.1.3.2 Message parameter definitions

See Table 5 for the message parameter definitions of the third-party smart home electric system to verify the user identity of the service platform.

Table 5 -- Message parameter definitions of the third-party smart home electric system to verify the user identity of the service platform

Element	Field name	Required	Description
Name	authenticateAlinkUser	Yes	Verify the user identity of the service platform

					of the third-party smart home electric system
		time		Yes	Timestamp
	request	url		Yes	Request source, the domain name of the third-party smart home electric system
	parameters	priv-account	account	Yes	User account identification of the third-party smart home electric system
			token	No	User login token of the third-party smart home electric system
		alink-account	account	Yes	User account identification of the service platform
			token	No	User login token of the service platform
	bindUserAccountDataID			Yes	Data identification

6.1.5 User data reporting of third-party smart home electric system

6.1.5.1 Function description

The extension function is used for the third-party smart home electric system to request to report the user data to the service platform.

6.1.5.2 Message parameter definitions

See Table 7 for the message parameter definitions of third-party smart home electric system to report user data.

Table 7 -- Message parameter definitions of third-party smart home electric system to report user data

Element	Field name		Required	Description
Name	postUserDataArray		Yes	The third-party smart home electric system reports user data
Type	thirdPartyInterface		Yes	The service interface that is provided by the service platform to the third-party smart home electric system
Request content	system	version	Yes	Protocol version
		sign	Yes	Signature value
		key	Yes	Request source, the identification value of the key of the third-party smart home electric system

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