



Спецификация TerraID WSDL API

124151-v1

Для версии ПО от 2.11.560.0 и выше

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1. Назначение данного документа

Данный документ описывает TerraID WSDL API, его назначение и примеры применения.

2. Адрес службы

Адрес, по которому по умолчанию доступен TerraID WSDL API:

`http://{Сервер TerraID}:8080/SID/ApiService.svc`

Сервер TerraID - имя компьютера (напр., "TIDSERVER"), на котором запущена служба TerraID Controller Communication service (служба коммуникации между контроллерами и сервером).

3. Статические структуры данных

Values of AddUserIdentificationResponse.Result enumerator		
Code	Name	Description
0	Success	User identification (card and/or PIN and/or biometric template) has been added successfully.
1	CardInUse	The card you were trying to add is already active in the system.
23	PinInUse	The PIN you were trying to add is already active in the system.
	CardCodeEmpty	The card HEX code was not set (Card number and facility code were not entered).

Values of BatteryState enumerator		
Code	Name	Description
1	Unknown	The battery is in unknown state (due to an error).
23	Normal	The battery is charged.
4	InUse	The battery is in use by controller (AC power may be down).
	Failing	The battery is running low.

Values of ControllerMode enumerator		
Code	Name	Description
1	CardInCardOut	Must use a card for entry and exit.
2	CardInFreeOut	Must use a card only for entry (one-way door or REX button is used).

Values of ControllerState enumerator		
Code	Name	Description
0	All	Used to list all existing controllers in the system.
12	Offline	Used to list only controllers which are not connected to the system.
5	Online	Used to list only those controllers which are connected to the system.

	Tampered	Used to list only those controllers which are reporting tamper input alarm.
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Values of ControllerType enumerator		
Code	Name	Description
1	VertX_V2000	HID VertX V2000 IP controller.
23	Edge_400	HID Edge 400 IP single reader controller.
45	BioEntryPlus	Suprema BioEntry Plus controller. Suprema
67	BioLiteNET	BioLite NET controller.
89	VertX_V1000	HID VertX V1000 IP master controller.
	BioStation	Suprema BioStation controller.
	EP1502	Mercury EP1502 IP master controller.
	XPass	Suprema XPass IP reader.
	EP1501	Mercury EP1501 IP controller.

Values of ControllerUploadState enumerator		
Code	Name	Description
0	All	All controllers independent from the upload state.
12	Completed	All upload operations were completed successfully
34	Uploading	Upload operations are still taking place.
	Retrying	Upload operations are being repeated because of failures.
	Corrupt	Upload operations were not successful at least 5 times in a row. The system will not retry loading configuration.

Values of DaysEnums enumerator		
Code	Name	Description
0		
12	Sunday	

34	Monday Tuesday	
56	Wednesday	
78	Thursday	
	Friday	
	Saturday	
	NationalHolidays	
	OtherHolidays	

Values of DeviceType enumerator		
Code	Name	Description
1	MotionDetector	An input alarm.
2	Siren	An output device.
Values of Direction enumerator		
Code	Name	Description
0	Exit	Used to define an exit reader for a door.
1	Entry	Used to define an entry reader for a door.

Values of EventCategory enumerator		
Code	Name	Description
0	Access	Used for all access related events.
12	Alarm	Used for all alarm related events.
34	Trouble	Used for all device fault states related events.
	Communication	Used for all communication related events.
	Control	Used for all operator action related events.

Values of EventReason enumerator		
Code	Name	Description

0	NoReason	Used for events, that have no additional information.
12	UserIdentified	User was identified.
34	NoAccess	User was identified, but has no permissions to enter a particular door.
56	NotInSchedule	User is not allowed to enter based on schedule.
78	UserNotFound	User was not found in the controller database.
9	CardNotActive	Card is currently not active.
10	CardDeleted	Card was deleted from the database.
12	InvalidPin	PIN number was not recognized.
	InvalidAuthMode	Unsupported authentication mode.
	UserIdentifiedDuress	User was identified and duress alarm raised.
	AntiPassbackViolation	User violated anti-passback rules
	AutomaticNotification	System generated notification.

Values of EventState enumerator		
Code	Name	Description
0	None	Indicates that this event does not need to be confirmed or closed.
12	New	Indicates that this event is new and it was not acknowledged by an operator.
34	Acknowledged	Indicates that this event was acknowledged but not closed by an operator.
	Closed	Indicates that this event has been closed by an operator.
	AutoClosed	Indicates that this event was not closed by an operator, so after preset time TerraID closed it automatically.

Values of EventType enumerator		
Code	Name	Description
1	AccessGranted	Access to user was granted.
23	AccessDenied	Access to user was denied.

45	DoorOpened	The door was opened.
6	DoorClosed	The door was closed.
7	DoorHeldOpen	The door was left open longer than specified in Held open time setting.
8	DoorForcedOpen	The the door was opened without a valid access event or operator command.
	TamperedOn	Controller's enclosure was opened.
	TamperedOff	Controller's enclosure was closed.

Values of EventType enumerator		
Code	Name	Description
9	AcFailure	AC power failed.
10	AcNormal	AC power was restored.
11	BatteryFailure	Battery below critical level or disconnected.
12	BatteryNormal	Battery is working properly. Exit button pressed.
13	ExitButtonPressed	Exit button released.
14	ExitButtonReleased	Connection to the controller was restored.
15	ControllerOnline	No connection to the controller could be made.
16	ControllerOffline	Controller service failed to upload user information to the controller.
17	FailedToUploadUser	Card information was not converted to binary format (HID specific)
18	FailedToConvertCardInfo	Reader information was not converted to binary format (HID specific)
19	FailedToConvertReader	Controller database is full. Controller is locked.
20	ControllerFull	Controller is unlocked.
21	ControllerLocked	System was unable to load configuration to this controller.
22	ControllerUnlocked	Input in alarm state.
23	UnableToLoadConfiguration	Input in normal state.
24	InputOn	Access was granted and duress alarm raised.
25	InputOff	Door forced open alarm was cleared. Door was
26	AccessGrantedDuress	locked by operator.
27	ClearForcedAlarm	Door was unlocked by operator.

28	ReaderLocked	Access was granted by the operator.
29	ReaderUnlocked	SMS notification was sent.
30	GrantAccess	SMS notification was not sent.
31	SmsSent	Operator control command failed.
32	SmsFailed	Controller was turned on.
33	OperatorCommandFailed	Network cable disconnected from controller.
34	ControllerPowerUp	Network cable was connected to controller.
35	NetworkOffline	Door forced-open alarm was cleared by an operator.
36	NetworkOnline	Reader was returned from locked to its normal operation mode.
37	DoorForcedOpenCleared	Reader was returned from unlocked to its normal operation mode.
38	ReaderLockedCleared	Output was activated.
39	ReaderUnlockedCleared	Output was deactivated.
40	OutputOn	Violation of anti-passback rules.
41	OutputOff	
42	AntiPassbackViolation	

Values of OutputState enumerator		
Code	Name	Description
0	Off	Output is deactivated
1	On	Output is activated.

Values of ReaderMode enumerator		
Code	Name	Description
1	CardOnly	User must present his card to gain access.
23	CardOrPin	User must either present his card or enter his PIN code to gain access.
45	CardAndPin	User must present his card and enter his PIN code to gain access.
67	PinOnly	User must enter his PIN code to gain access.
89	FingerprintOnly	User must show his fingerprint to gain access.

	CardOrFingerprint	User must either present his card or show his fingerprint to gain access.
10	FingerprintAndPin	User must present his card and show his fingerprint to gain access.
	FingerprintOrPin	User must either show his fingerprint or enter his PIN code to gain access.
	FingerprintOrCardAndPin	User must either show his fingerprint, or present his card and enter his PIN code to gain access.
	FingerprintAndCardAndPin	User must show his fingerprint, card and enter his PIN code to gain access.

Values of ReaderStatus flag enumerator

Code	Name	Description
0	Unknown	Reader status is unknown.
12	Online	Reader is online.
48	Locked	Reader is locked (does not allow to pass).
16	Unlocked	Reader is unlocked (anyone can pass).
	Tampered	Readers case is opened (tamper alarm active).
	OverridePending	Readers mode is set but Simple ID Service has not yet completed upload.

Values of ReaderType enumerator

Code	Name	Description
1	Reader	Card and/or PIN and/or biometric reader.
2	ExitButton	Push-to-exit button, not an identification device.

Values of ResponseResult enumerator

Code	Name	Description
0	Success	Operation was completed successfully.
12	OperationNotFound	Unrecognized command was used.

34	NeedToReLogin	Application re-log in is required before the operation can be executed.
	AccessDenied	Access was denied for this application. Operation failed to complete.
	Failure	

Values of TAType enumerator		
Code	Name	Description
0	Simple	Use simple (access) schedules for T&A calculation.
1	Advanced	Use advanced (yearly) schedules for T&A calculation. License required.

Values of TNARedReaderType enumerator		
Code	Name	Description
0	None	Reader is not used for T&A events.
1	ClockIn	Reader is used as a clock-in reader of T&A events.
2	ClockOut	Reader is used as a clock-out reader of T&A events.

2.3. Dynamic data structures

Values of AccessLevel class		
Name	Type	Description
BuiltIn	Boolean	Specifies if the access level was created by the SimpleID (built-in). Such access levels cannot be modified by operators. FALSE if it was created by an operator.
Code	Integer	If the access level is built-in, then this will be 0 for "nowhere", or 1 for "everywhere" access level.
ID	Integer	Access level ID number in the SimpleID database. The name of the access level.
Name	String	The list of permissions for the current access level.

Permissions	AccessLevelPermission[]	
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Values of AccessLevelPermission class		
Name	Type	Description
AccessLevelID	Integer	The ID of the access level, which is the parent of this permission.
DoorID	Integer	The ID of the door object.
DoorName	String	The name of the door object.
ID	Integer	The ID of this permission.
Reader	Reader	The Reader object.
ReaderID	Integer	The ID of the Reader object
ScheduleID	Integer	ID of the schedule assigned to this permission.
ScheduleName	String	Name of the schedule assigned to this permission.

Values of Biometric class		
Name	Type	Description
Fingerprint1IsDuress	Boolean	If TRUE, then using this fingerprint will trigger the duress alarm.
Fingerprint2IsDuress	Boolean	If TRUE, then using this fingerprint will trigger the duress alarm.
FingerprintTemplate1	Binary	User's finger #1 first scanned template (used by the reader).
FingerprintTemplate2	Binary	User's finger #1 second scanned template (used by the reader).
FingerprintTemplate3	Binary	User's finger #2 first scanned template (used by the reader).
FingerprintTemplate4	Binary	User's finger #2 second scanned template (used by the reader).
ID	Integer	The ID of this biometric information object.
UserIdentificationID Integer	Integer	The ID of users identification object which this biometric info belongs to.

Values of Card class		
Name	Type	Description
CardFormat	CardFormat	The card format object of the card.
CardFormatID	Integer	The ID of the card format object.
Code	Integer	The number of the card in hexadecimal format, including facility code and parity.
FirstName	String	The first name of the user.
ID	Integer	The Card ID number in the TerraID database
LastName	String	The last name of the user.
UserID	Integer	The ID of the user, which this card is issued to.
UserIdentificationID	Integer	The ID of the user identification.

Values of CardFormat class		
Name	Type	Description
AssignedCardsCount	Integer	Number of active and issued cards with this format.
AutoIncrementCardCode	Boolean	If TRUE DefaultCardCode will be increased by 1 after creating new card.
Bits	Integer	The number of bits of card format.
DefaultCardCode	Integer	Card number, which will be filled in automatically when adding a new card to the system.
DefaultFacilityCode	Integer	Facility code, which will be filled in automatically when adding a new card to the system.
Enabled	Boolean	If TRUE this card format can be used in the system.
ID	Integer	Internal card format ID number in the SimpleID database.

IsConvertToDecimalEnabled	Boolean	If TRUE then card numbers of this format will be shown in decimal in monitoring and reports. If FALSE card numbers will be shown as HEX code.
IsStandard	Boolean	If TRUE, then card format was created by the system and cannot be changed.
Mask	String	The meaning of each bit in card format.
Name	String	The name of the format.

Values of Controller class		
Name	Type	Description
AdditionalParameters	String	If controller needs additional parameters, enter them in this variable.
BatteryStateID	BatteryState	Indicates the battery state of the controller.
CommandsPendingCount	Integer	Number of commands in the upload queue.
ConfigurationID	Integer	The system configuration ID of the controller. Indicates which system this controller belongs to. Also the the version of configuration uploaded by the system.
ControllerModeID	ControllerMode	Indicates controller mode.
ControllerStateID	ControllerState	Indicates controller state.
ControllerStateName	String	State name of the controller.
ControllerTypeID	ControllerType	Indicates controller type.
ControllerTypeName	String	Type name of the controller.
ControllerUploadStateID	ControllerUploadState	Indicates controller operation upload state.
ControllerUploadStateName	String	Upload state name of the controller.
DefaultGateway	String	Gateway IP address, which the controller uses to access controllers from other IP subnets.

FirmwareDate	DateTime	Release date of the controllers firmware.
FirmwareVersion	String	Version of the controllers firmware.
HereIAmInterval	Integer	Interval in seconds, when controller should send connection keep-alive packets to the host device.
Hostname	String	Network identification name of the controller.
ID	Integer	Controller ID number in the TerraID database
IPAddress	String	IP address of the controller.
IsTamperAlarmEnabled	Boolean	If TRUE, the controller reports tamper alarm to the host device.
LastConfigurationID	Integer	System configuration ID of previous data upload.
LastStateCheck	DateTime	Date and time of the last state check of the controller.
MAC	Integer	MAC address of the controller.
MaxPanels	Integer	The maximum number of supported panels.
MaxReaders	Integer	The maximum number of supported readers.
Password	Integer	Password used for signing into the controller.
Port	String	Port number which is used for communication.
RouterIPAddress	Integer	The IP address of the router.
RouterPort	Integer	The port number which is used on the router.
StateChangeDate	DateTime	Date and time when the state of the controller changed.
SubnetMask	Integer	Subnet mask of the controllers IP address.
TotalCount	Integer	Total count of all operations (uploaded + pending).

UploadedCount	Integer	Number of uploaded operations.
UseDHCP	Boolean	If TRUE, controller gets assigned a dynamic IP address by the router.
Username	String	Username for signing into the controller.
UseRouter	Boolean	Boolean If TRUE, then the controller is connecting from behind a router.
UseSecureIO	Boolean	If TRUE, then the controller has SecureIO connected and is using its inputs/outputs (Suprema specific).

4. Методы извлечения данных

GetDoorList

GetDoorListResponse GetDoorList(GetDoorListParams @params);

GetDoorListParams class		
Parameter	Type	Description
Count	Integer	Maximum number of records to be included in the result (0 to disable).
nameFilter	String	If not empty, names of resulting list will be filtered by entered value.
startIndex	Integer	If not zero (0) then the first startIndex entries will be skipped.

GetDoorListResponse class		
Parameter	Type	Description
Count	Integer	The overall number of entries matching the <i>nameFilter</i> .
Exception	Exception	Exception message if something went wrong, or NULL otherwise.
List	Door[]	The resulting List of doors.
OverallResult	ResponseResult	The result of the method with an error or success message index.

Example:

```

ApiClient client = new ApiClient("WSHttpBinding_IApiClient"); //
Use the 'client' variable to call operations on the service.
GetDoorListParams prms = new GetDoorListParams(); //
Assign the parameter values to the 'prms' variable //
...
GetDoorListResponse result = client.GetDoorList(prms); //
Perform operations with the result of your query //
...
// Always close the client.
client.Close();
    
```


5. Методы добавления данных

AddUserAccessLevel

AddUserAccessLevelResponse AddUserAccessLevel(AddUserAccessLevelParams @params);

AddUserAccessLevelParams class		
Parameter	Type	Description
AccessLevelID	Integer	ID of the access level to be assigned.
UserID	Integer	ID of the user to which the access level will be assigned.

AddUserAccessLevelResponse class		
Parameter	Type	Description
Exception	Exception	Exception message if something went wrong, or NULL otherwise.
OverallResult	ResponseResult	The result of the method with an error or success message index.

Example:

```

ApiClient client = new ApiServiceClient("WSHttpBinding_IAPIService"); //
Use the 'client' variable to call operations on the service.
AddUserAccessLevelParams prms = new AddUserAccessLevelParams(); //
Assign the parameter values to the 'prms' variable //
...
AddUserAccessLevelResponse result = client.AddUserAccessLevel(prms); //
Perform operations with the result of your query //
...
// Always close the client..
client.Close();
    
```

6. Методы изменения данных

SaveEvent

SaveEventResponse SaveEvent(SaveEventParams @params);

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02 сентября 2013

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SaveEventParams class		
Parameter	Type	Description
Details	Event	Event information to be added into the database.

SaveEventResponse class		
Parameter	Type	Description
Exception	Exception	Exception message if something went wrong, or NULL otherwise.
OverallResult	ResponseResult	The result of the method with an error or success message index.

Example:

```

ApiServiceClient client = new ApiServiceClient("WSHttpBinding_IApiService"); //
Use the 'client' variable to call operations on the service.
SaveEventParams prms = new SaveEventParams(); //
Assign the parameter values to the 'prms' variable //
...
SaveEventResponse result = client.SaveEvent(prms); //
Perform operations with the result of your query //
...
// Always close the client..
client.Close();
    
```

SaveUser

SaveUserResponse SaveUser(SaveUserParams @params);

SaveUserParams class		
Parameter	Type	Description
Details	User	User information to be added to the database.

SaveUserResponse class		
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Parameter	Type	Description
Exception	Exception	Exception message if something went wrong, or NULL
		otherwise.
OverallResult	ResponseResult	The result of the method with an error or success message index.

Example:

```
ApiServiceClient client = new ApiServiceClient("WSHttpBinding_IApiService"); //
Use the 'client' variable to call operations on the service.
SaveUserParams prms = new SaveUserParams(); //
Assign the parameter values to the 'prms' variable //
...
SaveUserResponse result = client.SaveUser(prms); //
Perform operations with the result of your query //
...
// Always close the client..
client.Close();
```

7. Методы удаления данных

DeleteDepartment

DeleteDepartment DeleteDepartment(DeleteDepartmentParams @params);

DeleteDepartmentParams class		
Parameter	Type	Description
AdditionalIDs	Integer[]	Other departments IDs to be deleted.
ID	Integer	ID of the department to be deleted.

DeleteDepartmentResponse class		
Parameter	Type	Description
Exception	Exception	Exception message if something went wrong, or NULL otherwise.
OverallResult	ResponseResult	The result of the method with an error or success message index.

Example:

```

ApiServiceClient client = new ApiServiceClient("WSHttpBinding_IApiService"); //
Use the 'client' variable to call operations on the service.
DeleteDepartmentParams prms = new DeleteDepartmentParams(); //
Assign the parameter values to the 'prms' variable //
...
DeleteDepartmentResponse result = client.DeleteDepartment(prms); //
Perform operations with the result of your query //
...
// Always close the client..
client.Close();
    
```