

Technology Operation Text Parts

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Immediate Positioning Platform Protocol

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1 Scope

This document specifies the external interface of the Web server.

This document is applicable to the development and development of web pages and mobile clients.

2 Terminology, definitions and acronyms

2.1 Terms, definitions

2.2 Abbreviations

The following abbreviations have been used in this document:

Abbreviations	English full name	Chinese full name
HTTP	hypertext transport protocol	Hypertext Transfer Protocol
JSON	JavaScript Object Notation	JavaScript Object Notes

3 Overview of the Agreement

this communication interface is developed
based on HTTP1.1+JSON protocol. Default
token attached to all non-registration
requests

4 Interface

4.1 Users

4.1.1 Login

		Type	Value	Description
URL		String	user/login.do	
Request parameters	name	String	Required	Login
	password	String	Required	Login password
	timeZoneSecond	Integer	Selection Fill	UTC relative time milliseconds (Default x3600 8 East 8)
	lang	String	Selection Fill	National language code (default simplified Chinese) zh_CN zh_HK zh_HK
Response parameters		JSON	{ret: 1 0, data: User data }	
Exception				No

4.1.2 Access to user information

		Type	Value	Description
URL		String	user/getByUserId.do	
Request parameters	token	String	Required	token
	userId	Long	Selection Fill	id of users

Response parameters		JSON	{ret: 1 0, data: User data }	
Exception				No

4.1.3 Get the Vehicle Status Statistics

		Type	Value	Description
URL		String	user/getCarStatusCount.do	
Request parameters	token	String	Required	token
	includeSubFlag	Boolean	Selection Fill	Does the default false include sub-users
Response parameters		JSON	{ret: 1 0, data: User data }	{data': {'allCount': 1, name': 'S05-840570','s notActiveCount': 1,'s offlineCount': 0,'s onlineCount': 0,'s userId': 102537,'s userName': '860014142840570','s userType': 5},'ret': 1}'s
Exception				No

4.1.4 According to id parent

		Type	Value	Description
URL		String	user/getByParentIdPage.do	
Request parameters	parentId	Long	Selection Fill	Father id (default current user)
	pageNO	Integer	Selection Fill	Number of pages requested (default first page)
	rowCount	Integer	Selection Fill	Number of displays per page (default 20)
Response parameters		JSON	{ret: 1 0, data: User data }	
Exception				No

4.1.5 Based on id parent

		Type	Value	Description
URL		String	user/exportByParentId.do	
Request parameters	parentId	Long	Selection Fill	Father id (default current user)
Response parameters		Documents	Excel documents	
Exception				No

4.1.6 New users

		Type	Value	Description
URL		String	user/add.do	
	token	String	Required	token
	parentId	Long	Required	id Father
	userType	Integer	Required	User type
Request parameters	userName	String	Required	Login name
	password	String	Required	Password
	name	String	Required	Account name
	linkMan	String	Selection Fill	Contact
	linkPhone	String	Selection Fill	Contact number
	email	String	Selection Fill	Mailbox
	address	String	Selection Fill	Address
	rechargeURL	String	Selection Fill	Recharge address
	remark	String	Selection Fill	Remarks
	subAlarm	Boolean	Selection Fill	Receiving Lower Vehicle Alarm
	major	Boolean	Selection Fill	Professional users
Response parameters		JSON	{ret: 1 0}	
Exception				No

4.1.7 Update user information

		Type	Value	Description
URL		String	user/update.do	
Request parameters	token	String	Required	token
	userId	Long	Required	id of users
	userType	Integer	Required	User type
	name	String	Required	Account name
	linkMan	String	Selection Fill	Contact
	linkPhone	String	Selection Fill	Contact number
	email	String	Selection Fill	Mailbox
	address	String	Selection Fill	Address
	rechargeURL	String	Selection Fill	Recharge address
	remark	String	Selection Fill	Remarks
	subAlarm	Boolean	Selection Fill	Receiving Lower Vehicle Alarm
Response parameters		JSON	{ret: 1 0}	
Exception				No

4.1.8 Delete users

		Type	Value	Description
URL		String	user/del.do	
	userId	Long	Required	id of users

Response parameters		JSON	{ret: 1 0}	
Exception				No

4.1.9 User modified password

		Type	Value	Description
URL		String	user/updatePsw.do	
Request parameters	oldPassword	String	Required	Old password
	newPassword	String	Required	New password
Response parameters		JSON	{ret: 1 0}	
Exception				No

4.1.10 Rese User Passwor

		Type	Value	Description
URL		String	user/resetPsw.do	
Request parameters	type	Integer	Required	User type
	id	Long	Required	id of users
	password	String	Required	New password
Response parameters		JSON	{ret: 1 0}	
Exception				No

4.1.11 Access to the current user's superior agent information

		Type	Value	Description
URL		String	user/getParentUserInfo.do	
Request parameters				
Response parameters		JSON	{ret: 1 0, User information }	
Exception				No

4.1.12 Transfer users

		Type	Value	Description
URL		String	user/tranUser.do	
Request parameters	userId	Long	Required	id of users
	targetUserId	Long	Required	Allocation of target user id
Response parameters		JSON	{ret: 1 0}	

Exception				No
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4.1.13 Batch transfer users

		Type	Value	Description
URL		String	user/tranUserBatch.do	
Request parameters	userIds	String	Required	user id (separated by multiple commas)
	targetUserId	Long	Required	Allocation of target user id
Response parameters		JSON	{ret: 1 0}	
Exception				No

4.2 Vehicles

4.2.1 Enquiries about vehicle id

		Type	Value	Description
URL		String	car/getByCarId.do	
Request parameters	carId	Long	Required	id of vehicles
Response parameters		JSON	{ret: 1 0, data: Vehicle data }	
Exception				No

4.2.2 Enquiries on vehicle id and status data

		Type	Value	Description
URL		String	car/getCarAndStatus.do	
Request parameters	carId	Long	Required	id of vehicles
	mapType	Integer	Selection Fill	Map type (default 1)1: Baidu coordinate system 2: Google coordinates
Response parameters		JSON	{ret: 1 0, data: vehicle and status data}	
Exception				No

4.2.3 Enquiry of Vehicle Information by IMEI

		Type	Value	Description
URL		String	car/getByImei.do	
Request parameters	imei	String	Required	imei

Response parameter s		JSON	{ret: 1 0, data: Vehicle data }	
Exception				No

4.2.4 Enquire vehicle information id users

		Type	Value	Description
URL		String	car/getByUserId.do	
Request parameter s	userId	Long	Selection Fill	User id (does not fill in query current user)
Response parameter s		JSON	{ret: 1 0, data: Vehicle data }	
Exception				No

4.2.5 Enquire vehicle information id users

		Type	Value	Description
URL		String	car/getByUserId.do	
Request parameter s	userId	Long	Selection Fill	User id (does not fill in query current user)
Response parameter s		JSON	{ret: 1 0, data: Vehicle data }	
Exception				No

4.2.6 paging queries id users

		Type	Value	Description
URL		String	car/getByUserIdPage.do	
Request parameter s	userId	Long	Selection Fill	User id (default current user)
	pageNO	Integer	Selection Fill	Number of pages requested (default first page)
	rowCount	Integer	Selection Fill	Number of displays per page (default 20)
Response parameter s		JSON	{ret: 1 0, data: Vehicle data }	
Exception				No

4.2.7 Export based on user id

		Type	Value	Description
URL		String	car/getByUserIdExport.do	

Request parameters	userId	Long	Selection Fill	User id (default current user)
Response parameters		JSON	Excel documents	
Exception				No

4.2.8 Modification of vehicle information

		Type	Value	Description
URL		String	car/update.do	
Request parameters	carId	Long	Required	id of vehicles
	machineName	String	Selection Fill	Name of equipment
	carNO	String	Selection Fill	License plate
	carType	Integer	Selection Fill	Type of vehicle
	serviceTime	String	Selection Fill	Service hours
	simNO	String	Selection Fill	Sim card
	driverName	String	Selection Fill	Name of owner
	driverTel	String	Selection Fill	Owner's cell phone
	email	String	Selection Fill	Mailbox
	address	String	Selection Fill	Address
	remark	String	Selection Fill	Remarks
	fuelConsumption	Integer	Selection Fill	100 km fuel consumption
	carAlarmSwitches Str	type	JSONStr in arrays	Required
		isOpen		Required
				Type of vehicle alarm switch
				Open

		value		Required	Validity
Response parameters			JSON	{ret: 1 0}	
Exception					No

4.2.9 Bulk transfer vehicles

		Type	Value	Description
URL	Request parameters	String	carManager/transferBatch.do	
Request parameters	targetUserId	Long	Required	Target Agent id
	carIds	String	Required	Device id(separated by multiple commas)
Response parameters		JSON	{ret: 1 0}	

4.2.10 Reset Password

		Type	Value	Description
URL	Request parameters	String	car/resetPsw.do	
Request parameters	carId	Long	Required	id of vehicles
Response parameters		JSON	{ret: 1 0}	Reset to 123456

4.3 Location

4.3.1 Query history track

		Type	Value	Description
URL		String	position/queryHistory.do	
Request parameters	carId	Long	Required	id of vehicles
	mapType	Integer	Selection Fill	Map type
	startTime	String	Required	UTC start time (yyyy - MM dd HH: mm: ss)
	endTime	String	Required	Closing UTC (yyyy - MM dd HH: mm: ss)
	filter	Boolean	Selection Fill	Filtering
Response parameters		JSON	{ret: 1 0, data: Location data }	
Exception				No

4.3.2 Historical trajectory derivation

		Type	Value	Description
URL		String	position/queryHistoryExport.do	
Request parameters	carId	Long	Required	id of vehicles
	startTime	String	Required	UTC start time (yyyy - MM dd HH: mm: ss)
	endTime	String	Required	Closing UTC (yyyy - MM dd HH: mm: ss)
	filter	Boolean	Selection Fill	Filtering
	interval	Long	Selection Fill	Unit: seconds
Response parameters		JSON	Excel documents	
Exception				No

4.4 Electronic fence

4.4.1 Adds

		Type	Value	Description
URL		String	carFence/add.do	
Request parameters	type	Integer	Required	Type of fence
	name	String	Required	Name of fence
	points	String	Required	Latitude and longitude points
	radius	Integer	Selection Fill	Rad radius
	inSwitch	Boolean	Selection Fill	Enter alarm
	outSwitch	Boolean	Selection Fill	Outbound alarm
	mapType	Integer	Selection Fill	Map type (default 1)1: Baidu coordinate system 2: Google coordinates
	fenceType	Integer	Selection Fill	Fence type, default binding type fence
Response parameters	pushSubFlag	Boolean	Selection Fill	Alarm messages push child users
		JSON	{data": {"carFenceId": 5},"ret": 1}"	
Exception				No

4.4.2 Editor

		Type	Value	Description
URL		String	carFence/update.do	
	carFenceId	Integer	Required	id of the fence

Request parameter s	type	Integer	Selection Fill	Type of fence 0: round 1: polygon
	name	String	Selection Fill	Name of fence
	points	String	Selection Fill	Latitude and longitude points
	radius	Integer	Selection Fill	Rad radius
	inSwitch	Boolean	Selection Fill	Enter alarm
	outSwitch	Boolean	Selection Fill	Outbound alarm
	mapType	Integer	Selection Fill	Map type (default 1)1: Baidu coordinate system 2: Google coordinates
	fenceType	Integer	Selection Fill	Fence type, default binding type fence 16
	pushSubFlag	Boolean	Selection Fill	Alarm messages push child users
Response parameter s		JSON	{ret: 1 0}	
Exception				No

4.4.3 Based on user queries

		Type	Value	Description
URL		String	carFence/getByUserId. do	
Request parameter s	mapType	Integer	Selection Fill	Map type (default 1)1: Baidu coordinate system 2: Google coordinates
Response parameter s		JSON	{ret: 1 0, data: Fence data }	
Exception				No

4.4.4 Enquiries id the fence

		Type	Value	Description
URL		String	carFence/getByCarFenceId.do	
Request parameter s	carFenceId	Integer	Required	Electronic fence id
Response parameter s		JSON	{ret: 1 0, data: Fence data }	
Exception				No

4.4.5 Delete

		Type	Value	Description
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URL		String	carFence/del.do	
Request parameters	carFenceId	Integer	Required	id of the fence
Response parameters		JSON	{ret: 1 0}	
Exception				No

4.4.6 Page query

		Type	Value	Description
URL		String	carFence/getByUserId Page.do	
Request parameters	pageNO	Integer	Selection Fill	Number of pages requested (default first page)
	rowCount	Integer	Selection Fill	Number of displays per page (default 20)
	mapType	Integer	Selection Fill	Map type (default 1)1: Baidu coordinate system 2: Google coordinates
	carId	Long	Selection Fill	id of vehicles
Response parameters		JSON	{ret: 1 0, data: Fence data }	
Exception				No

4.5 Electronic fence binding

4.5.1 Batch binding vehicles

		Type	Value	Description
URL		String	carFenceBound/bound Batch.do	
Request parameters	carFenceId	Integer	Required	id of the fence
	carIds	String	Required	id of vehicles Multiple comma separated
Response parameters		JSON	{ret: 1 0}	
Exception				No

4.5.2 Bulk binding of electronic fencing

		Type	Value	Description
URL		String	carFenceBound/bound BatchFence.do	
Request parameters	carId	Long	Required	id of vehicles
	carFenceIds	String	Required	Electronic fence id Multiple comma separated

Response parameter s		JSON	{ret: 1 0}	
Exception				No

4.5.3 Bulk Unbound Vehicle

		Type	Value	Description
URL		String	carFenceBound/unBoundBatch.do	
Request parameter s	carFenceId	Integer	Required	id of the fence
	carIds	String	Required	Multiple comma separated
Response parameter s		JSON	{ret: 1 0}	
Exception				No

4.5.4 Bulk unbinding of electronic fencing

		Type	Value	Description
URL		String	carFenceBound/unBoundBatchFence.do	
Request parameter s	carId	Long	Required	id of vehicles
	carFenceIds	String	Required	Fences separated id multiple commas
Response parameter s		JSON	{ret: 1 0}	
Exception				No

4.5.5 Page query

		Type	Value	Description
URL		String	carFenceBound/queryPage.do	
Request parameter s	carFenceId	Integer	Required	id of the fence
	userId	Long	Selection Fill	Target user id
	bound	Boolean	Selection Fill	Binding (default binding)
	pageNO	Integer	Selection Fill	Number of pages requested (default first page)
	rowCount	Integer	Selection Fill	Number of displays per page (default 20)
Response parameter s		JSON	{ret: 1 0, data: Vehicle data }	20
Exception				No

4.5.6 Paging Search for Electronic Fence Binding Vehicles

		Type	Value	Description
URL		String	carFenceBound/queryCarPage.do	
Request parameters	carFenceId	Integer	Required	id of the fence
	pageNO	Integer	Selection Fill	Number of pages requested (default first page)
	rowCount	Integer	Selection Fill	Number of displays per page (default 20)
Response parameters		JSON	{ret: 1 0,	
			data: Vehicle data }	
Exception				No

4.5.7 Page Search for Vehicle Binding Electronic Fence

		Type	Value	Description
URL		String	carFenceBound/queryCarFencePage.do	
Request parameters	carId	Long	Required	id of vehicles
	mapType	Integer	Selection Fill	Map type (default 1)1: Baidu coordinate system 2: Google coordinates
	pageNO	Integer	Selection Fill	Number of pages requested (default first page)
	rowCount	Integer	Selection Fill	Number of displays per page (default 20)
Response parameters		JSON	{ret: 1 0, data: Fence data }	
Exception				No

4.5.8 Check whether the vehicle is bound

		Type	Value	Description
URL		String	carFenceBound/getCarGroupAndStatus.do	
Request parameters	targetUserId	Long	Selection Fill	Expand user id (default current user)
	groupId	Integer	Selection Fill	packet id (not passed to default packet)
	mapType	Integer	Required	Source type 0: Original longitude and latitude 1: Baidu longitude and latitude 2: Google longitude and latitude (Gaude, Tencent, search)
	carFenceId	Integer	Required	Electronic fence id

Response parameter s		JSON	{ret: 1 0, data: { groups, vehicles and patterns State Structure Data}}	
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4.5.9 Check whether the electronic fence is bound

		Type	Value	Description
URL		String	carFenceBound/getBy UserIdAndCarId.do	
Request parameter s	mapType	Integer	Required	Source type 0: Original longitude and latitude 1: Baidu longitude and latitude 2: Google longitude and latitude (Gaude, Tencent, search)
	carId	Long	Required	id of vehicles
Response parameter s		JSON	{ret: 1 0, data: { Electronic Fence List}}	

4.5.10 Search the vehicle for license plate number or device name (with binding or not)

		Type	Value	Description
URL		String	carFenceBound/search	
			CarWithStatus.do	
Request parameter s	targetUserI d	Long	Required	id of target users
	name	String	Required	Name of equipment or license plate
	recursion	Boolean	Required	Whether or not an intruder
	mapType	Integer	Selection Fill	Map type (default 1)1: Baidu coordinate system 2: Google coordinates
	carFenceId	Integer	Required	Electronic fence id
Response parameter s		JSON	{ret: 1 0, data: vehicle and status data}	

4.6 Tree structure

4.6.1 Gets the user tree structure

		Type	Value	Description
URL		String	structure/getChildStruc do	

				0: Original longitude and latitude 1: Baidu longitude and latitude 2: Valley Song latitude and longitude (Gaude, Tencent, search search)
Response parameters		JSON	{ret: 1 0, data: { groups, vehicles and patterns State Structure Data}}	

4.6.4 Search vehicle for license plate number or device name (new status)

		Type	Value	Description
URL		String	search/searchCarWithStatus.do	
Request parameters	targetUserId	Long	Required	id of target users
	name	String	Required	Name of equipment or license plate
	recursion	Boolean	Required	Whether or not an intruder
	mapType	Integer	Selection Fill	Map type (default 1)1: Baidu coordinate system 2: Google coordinates
Response parameters		JSON	{ret: 1 0, data: vehicle and status data}	

4.6.5 Search for vehicles by IMEI or device name

		Type	Value	Description
URL		String	search/searchByNameOrImei.do	
Request parameters	name	String	Required	Equipment name or IMEI
Response parameters		JSON	{ret: 1 0, data: Vehicles }	

4.6.6 Obtain parent id based on vehicle id

		Type	Value	Description
URL		String	search/getCarParentId.do	
Request parameters	carId	Long	Required	id of vehicles

Response		JSON	{ret: 1 0, data: parent id column Table}	26
parameters				

4.6.7 Obtain parent user id based on user id

		Type	Value	Description
URL		String	search/getUserParentId.do	
Request parameters	targetUserId	Long	Required	id of users
Response parameters		JSON	{ret: 1 0, data: parent id column Table}	

4.6.8 Gets a parent user list based on user id

		Type	Value	Description
URL		String	structure/getParentUserTree.do	
Request parameters	targetUserId	Long	Required	id of users
Response parameters		JSON	{ret: 1 0, data: user column Table}	Data includes current users

4.7 Search

4.7.1 Search users or vehicles

		Type	Value	Description
URL		String	search/queryUserOrCar.do	
Request parameters	condition	String	Required	Query conditions
Response parameters		JSON	{ret: 1 0, data: Name List}	

4.7.2 Search users or vehicles by type

		Type	Value	Description
URL		String	search/queryUserOrCarByType.do	
Request parameters	condition	String	Required	Query conditions

Response parameter s		JSON	{ret: 1 0, data: Name List}	
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4.7.3 According to device name or IMEI search

		Type	Value	Description
URL		String	search/queryByMachineNameOrImei.do	
Request parameter s	condition	String	Required	Query conditions
Response parameter s		JSON	{ret: 1 0, data: Vehicle List}	

4.7.4 Depending on the device name or IMEI search page

		Type	Value	Description
URL		String	search/queryByMachineNameOrImeiPage.do	
Request parameter s	condition	String	Required	Query conditions
	pageNO	Integer	Selection Fill	Number of pages requested (default first page)
	rowCount	Integer	Selection Fill	Number of displays per 28 page (default 20)
Response parameter s		JSON	{ret: 1 0, total total: , data: Vehicle List}	

4.7.5 According to agent

		Type	Value	Description
URL		String	search/queryByUserNameOrName.do	
Request parameter s	condition	String	Required	Query conditions
Response parameter s		JSON	{ret: 1 0, data: User List}	

4.7.6 Page by Agent Enquiry

		Type	Value	Description
URL		String	search/queryByUserNameOrNamePage.do	
Request parameter s	condition	String	Required	Query conditions
	pageNO	Integer	Selection Fill	Number of pages requested (default first page)
	rowCount	Integer	Selection Fill	Number of displays per page (default 20)

Response parameter s		JSON	{ret: 1 0, total total: , data: User List}	
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4.7.7 According to the IMEI number after several searches (only one returned)

		Type	Value	Description
URL		String	search/queryTop1ByImei.do	
Request parameter s	condition	String	Required	Query conditions
Response parameter s		JSON	{ret: 1 0, data: User List}	

4.7.8 Batch search based on IMEI number

		Type	Value	Description
URL		String	search/queryByImeiBatch.do	
Request parameter s	imeis	String	Required	Imei number (separated by multiple commas)
Response parameter s		JSON	{ret: 1 0, data: User List}	

4.8 Vehicle status

4.8.1 Acquisition of vehicle status according to vehicle id

		Type	Value	Description
URL		String	carStatus/getByCarIds.do	
Request parameter s	carIds	String	Required	vehicles id (separated by multiple commas)
	mapType	Integer	Selection Fill	Map type (default 1)1: Baidu coordinate system 2: Google coordinates
Response parameter s		JSON	{ret: 1 0, data: Number of vehicles in status Reported time:	30

			server time}	
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4.8.2 Acquisition of vehicle status according to user id

		Type	Value	Description
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URL		String	carStatus/getByUserId.do	
Request parameters	targetUserId	Long	Required	id of users
	mapType	Integer	Selection Fill	Map type (default 1)1: Baidu coordinate system 2: Google coordinates
Response parameters		JSON	{ret: 1 0,	
			data: Number of vehicles in status Reported time: server time}	

4.8.3 Acquisition of vehicle status by grouping id

		Type	Value	Description
URL		String	carStatus/getByGroupId.do	
Request parameters	groupId	Integer	Selection Fill	packet id (not passed to default packet)
	mapType	Integer	Selection Fill	Map type (default 1)1: Baidu coordinate system 2: Google coordinates
Response parameters		JSON	{ret: 1 0, data: Number of vehicles in status Reported time: server time}	

4.9 User Vehicle Alarm Message

4.9.1 Query User Alarm

		Type	Value	Description
URL	Request parameters	String	carAlarm/getNotReadByUser.do	
Request parameters	focus	Boolean	Selection Fill	Concerns (default false)
	alarmTypes	String	Selection Fill	Alarm types id (separated by multiple commas)
	targetUserId	Long	Selection Fill	Target user id (for user type Is 5 individual users do not need to pass)
Response parameters		JSON	{ret: 1 0, data: Alarm List }	

4.9.2 Group statistical alarm data

		Type	Value	Description
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URL		String	carAlarm/staByAlarmType.do	
Request parameters				
Response parameters		JSON	{ret: 1 0, data: Alarm Type Data System Total}	
Exception				No

4.9.3 Query User Alarm

		Type	Value	Description
URL	Request parameters	String	carAlarm/getNotReadByUserPage.do	
Request parameters	focus	Boolean	Selection Fill	Concerns (default false)
	alarmTypes	String	Selection Fill	Alarm types id (separated by multiple commas)
	rowCount	Integer	Selection Fill	Number of pages requested (default first page)
	pageNO	Integer	Selection Fill	Number of displays per page (default 20)
Response parameters		JSON	{ret: 1 0, data: Alarm List }	

4.9.4 Based on vehicle idenquiries

		Type	Value	Description
URL	Request parameters	String	carAlarm/getNotReadByUserCarId.do	
Request parameters	carId	Long	Required	id of vehicles
Response parameters		JSON	{ret: 1 0, data: Alarm List }	

4.9.5 Marked as read

		Type	Value	Description
URL	Request parameters	String	carAlarm/updateRead.do	
Request parameters	alarmId	String	Required	Alarm id (-1 marked all read)
Response parameters		JSON	{ret: 1 0}	

4.9.6 Marked as a non-new message

		Type	Value	Description
URL	Request parameters	String	carAlarm/updateOld.do	
Request parameters	alarmIds	String	Required	Alarm id (separated by multiple commas)
Response parameters		JSON	{ret: 1 0}	

4.10 Vehicle Information Page Statistics

4.10.1 Due Equipment Statistics

		Type	Value	Description
URL	Request parameters	String	car/queryExpireCarPage.do	
Request parameters	userId	Long	Selection Fill	id of users
	recursion	Boolean	Selection Fill	Is it recursive
	type	Integer	Selection Fill	Type: 0: platform time 1: user time
	serviceState	Integer	Selection Fill	Expired status: 0: not expired 1: expired
	startTime	Integer	Selection Fill	Start seconds
	endTime	Integer	Selection Fill	End seconds
	rowCount	Integer	Selection Fill	Number of pages requested (default first page)
	pageNO	Integer	Selection Fill	Number of displays per page (default 20)
Response parameters		JSON	{ret: 1 0, data: Vehicle statistics }	

4.10.2 Expired Equipment Statistics Export

		Type	Value	Description
URL	Request parameters	String	car/queryExpireCarExport.do	
Request parameters	userId	Long	Selection Fill	id of users
	recursion	Boolean	Selection Fill	Is it recursive
	type	Integer	Selection Fill	Type: 0: platform time
				1: user time
	serviceState	Integer	Selection Fill	Expired status: 0: not expired 1: expired
	startTime	Integer	Selection Fill	Start seconds
	endTime	Integer	Selection Fill	End seconds

Response parameters		JSON	Excel documents	
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4.10.3 Offline Equipment Statistics

		Type	Value	Description
URL	Request parameters	String	car/queryOfflineCarPage.do	
Request parameters	userId	Long	Selection Fill	id of users
	recursion	Boolean	Selection Fill	Is it recursive
	startTime	Integer	Required	Start seconds
	endTime	Integer	Required	End seconds
	rowCount	Integer	Selection Fill	Number of pages requested (default first page)
	pageNO	Integer	Selection Fill	Number of displays per page (default 20)
Response parameters		JSON	{ret: 1 0, data: Vehicle statistics }	

4.10.4 Static equipment statistics

		Type	Value	Description
URL	Request parameters	String	car/queryStopCarPage.do	
Request parameters	userId	Long	Selection Fill	id of users
	recursion	Boolean	Selection Fill	Is it recursive
	startTime	Integer	Required	Start seconds
	endTime	Integer	Required	End seconds
	rowCount	Integer	Selection Fill	Number of pages requested (default first page)
	pageNO	Integer	Selection Fill	Number of displays per page (default 20)
Response parameters		JSON	{ret: 1 0, data: Vehicle statistics }	

4.10.5 Statistics on unused equipment

		Type	Value	Description
URL	Request parameters	String	car/getNotUseByUserIdsPage.do	
Request parameters	userId	Long	Selection Fill	id of users
	recursion	Boolean	Selection Fill	Is it recursive
	rowCount	Integer	Selection Fill	Number of pages requested (default first page)
s	pageNO	Integer	Selection Fill	Number of displays per page (default 20)
Response parameters		JSON	{ret: 1 0, data: Vehicle Information }	

4.11 Alarm statistics

4.11.1 Alarm Overview (by Equipment Group)

		Type	Value	Description
URL	Request parameters	String	alarmSta/queryGroupByCar.do	
Request parameters	userId	Long	Selection Fill	Target Agent id (not current user)
	startTime	String	Required	Beginning time (UTC time) (yyyy - MM-dd HH: mm: ss)
	endTime	String	Required	End time (UTC time) (yyyy - MM-dd HH: mm: ss)
	rowCount	Integer	Selection Fill	Number of pages requested (default first page)
	pageNO	Integer	Selection Fill	Number of displays per page (default 20)
Response parameters		JSON	{ret: 1 0, data: by equipment grouping Information}	Back time is UTC time, show You need to convert to local time

4.11.2 Alarm Overview (by Equipment Group Statistics) Export

		Type	Value	Description
URL	Request parameters	String	alarmSta/queryGroupByCarExport.do	
Request parameters	userId	Long	Selection Fill	Target Agent id (not current user)
	startTime	String	Required	Beginning time (UTC time) (yyyy - MM-dd HH: mm: ss)
	endTime	String	Required	End time (UTC time) (yyyy - MM-dd HH: mm: ss)
Response parameters			Excel documents	

4.11.3 Alarm statistics (by talent group)

		Type	Value	Description
URL	Request parameters	String	alarmSta/queryGroupByDay.do	
Request parameters	carId	Long	Required	id of vehicles
	startTime	String	Required	Beginning time (UTC time) (yyyy - MM-dd HH: mm: ss)
	endTime	String	Required	End time (UTC time) (yyyy - MM-dd HH: mm: ss)
Response parameters		JSON	{ret: 1 0, data: by Talent Group Information}	

4.11.4 Alarm statistics (by talent group) derived

		Type	Value	Description
URL	Request parameters	String	alarmSta/queryGroupByDayExport.do	
	carId	Long	Required	id of vehicles
Request parameters	startTime	String	Required	Beginning time (UTC time) (yyyy - MM-dd HH: mm: ss)
	endTime	String	Required	End time (UTC time) (yyyy - MM-dd HH: mm: ss)
Response parameters			Excel documents	

4.11.5 Alarm Details

		Type	Value	Description
URL	Request parameters	String	alarmSta/queryDetail.do	
Request parameters	carId	Long	Required	id of vehicles
	alarmTypes	String	Selection Fill	Alarm type (separated by multiple commas)
	startTime	String	Required	Beginning time (UTC time) (yyyy - MM-dd HH: mm: ss)
	endTime	String	Required	End time (UTC time) (yyyy - MM-dd HH: mm: ss)
	rowCount	Integer	Selection Fill	Number of pages requested (default first page)
	pageNO	Integer	Selection Fill	Number of displays per page (default 20)
Response parameters		JSON	{ret: 1 0, data: Alarm details }	Back time is UTC time, when displayed need to be converted to local time Inter-agency

4.11.6 Alarm Details Export

		Type	Value	Description
URL	Request parameters	String	alarmSta/queryDetailExport.do	
Request parameters	carId	Long	Required	id of vehicles
	alarmTypes	String	Selection Fill	Alarm type (separated by multiple commas)
	startTime	String	Required	Beginning time (UTC time) (yyyy - MM-dd HH: mm: ss)
	endTime	String	Required	End time (UTC time) (yyyy - MM-dd HH: mm: ss)
Response parameters			Excel documents	

4.12 Operational statistics

4.12.1 Statistical overview

		Type	Value	Description
URL	Request parameters	String	position/getStaOverview.do	
Request parameters	userId	Long	Selection Fill	Target Agent id (not current user)
	startTime	String	Required	Beginning time (UTC time) (yyyy - MM-dd HH: mm: ss)
	endTime	String	Required	End time (UTC time) (yyyy - MM-dd HH: mm: ss)
	rowCount	Integer	Selection Fill	Number of pages requested (default first page)
	pageNO	Integer	Selection Fill	Number of displays per page (default 20)
Response parameters		JSON	{ret: 1 0, data: statistical overview }	

4.12.2 Statistical overview export

		Type	Value	Description
URL	Request parameters	String	position/getStaOverviewExport.do	
Request parameters	userId	Long	Selection Fill	Target Agent id (not current user)
	startTime	String	Required	Beginning time (UTC time) (yyyy - MM-dd HH: mm: ss)
	endTime	String	Required	End time (UTC time) (yyyy - MM-dd HH: mm: ss)
Response parameters		JSON	Excel documents	

4.12.3 Mileage Details (by talent group)

		Type	Value	Description
URL	Request parameters	String	position/mileageStaByDay.do	
Request parameters	carId	Long	Selection Fill	id of vehicles
	startTime	String	Required	Beginning time (UTC time) (yyyy - MM-dd HH: mm: ss)
	endTime	String	Required	End time (UTC time) (yyyy - MM-dd HH: mm: ss)
Response parameters		JSON	{ret: 1 0, data: by talent group}	

4.12.4 mileage details (by talent group) derived

		Type	Value	Description
URL	Request parameters	String	position/mileageStaByDayExport.do	

Request parameters	carId	Long	Selection Fill	id of vehicles
	startTime	String	Required	Beginning time (UTC time) (yyyy - MM-dd HH: mm: ss)
	endTime	String	Required	End time (UTC time) (yyyy - MM-dd HH: mm: ss)
Response parameters		JSON	Excel documents	

4.12.5 Parking Details

		Type	Value	Description
URL	Request parameters	String	position/getStopDetail.do	
Request parameters	carId	Long	Selection Fill	id of vehicles
	startTime	String	Required	Beginning time (UTC time) (yyyy - MM-dd HH: mm: ss)
	endTime	String	Required	End time (UTC time) (yyyy - MM-dd HH: mm: ss)
	acc	Boolean	Selection Fill	Acc status
	rowCount	Integer	Selection Fill	Number of pages requested (default first page)
	pageNO	Integer	Selection Fill	Number of displays per page (default 20) 42
Response parameters		JSON	{ret: 1 0, data: Parking Details}	Back time is UTC time, when displayed need to be converted to local time Inter-agency

4.12.6 Parking Details Export

		Type	Value	Description
URL	Request parameters	String	position/getStopDetailExport.do	
Request parameters	carId	Long	Selection Fill	id of vehicles
	startTime	String	Required	Beginning time (UTC time) (yyyy - MM-dd HH: mm: ss)
	endTime	String	Required	End time (UTC time) (yyyy - MM-dd HH: mm: ss)
	acc	Boolean	Selection Fill	Acc status
Response parameters		JSON	Excel documents	

4.12.7 Speeding details

		Type	Value	Description
URL	Request parameters	String	position/getOverSpeedDetail.do	
	carId	Long	Selection Fill	id of vehicles
	startTime	String	Required	Beginning time (UTC time) (yyyy - MM-dd HH: mm: ss)

Request parameters	endTime	String	Required	End time (UTC time) (yyyy - MM-dd HH: mm: ss)
	rowCount	Integer	Selection Fill	Number of pages requested (default first page)
	pageNO	Integer	Selection Fill	Number of displays per page (default 20)
Response parameters		JSON	{ret: 1 0, data: overspeed details}	Back time is UTC time, when displayed need to be converted to local time Inter-agency

4.12.8 Speeding details export

		Type	Value	Description
URL	Request parameters	String	position/getOverSpeedDetailExport.do	
Request parameters	carId	Long	Selection Fill	id of vehicles
	startTime	String	Required	Beginning time (UTC time) (yyyy - MM-dd HH: mm: ss)
	endTime	String	Required	End time (UTC time) (yyyy - MM-dd HH: mm: ss)
Response parameters		JSON	Excel documents	

4.12.9 Acc overview

		Type	Value	Description
URL	Request parameters	String	accSta/queryGroupByCar.do	
Request parameters	userId	Long	Selection Fill	Target Agent id (not current user)
	startTime	String	Required	Beginning time (UTC time) (yyyy - MM-dd HH: mm: ss)
	endTime	String	Required	End time (UTC time) (yyyy - MM-dd HH: mm: ss)
	rowCount	Integer	Selection Fill	Number of pages requested (default first page)
	pageNO	Integer	Selection Fill	Number of displays per page (default 20)
Response parameters		JSON	{ret: 1 0, data: by equipment grouping Information}	Back time is UTC time, when displayed need to be converted to local time Inter-agency

4.12.10 Acc overview export

		Type	Value	Description
URL	Request parameters	String	accSta/queryGroupByCarExport.do	
	userId	Long	Selection Fill	Target Agent id (not current user)

Request parameters	startTime	String	Required	Beginning time (UTC time) (yyyy - MM-dd HH: mm: ss)
	endTime	String	Required	End time (UTC time) (yyyy - MM-dd HH: mm: ss)
Response parameters		JSON	Excel documents	

4.12.11 Acc statistics

		Type	Value	Description
URL	Request parameters	String	accSta/queryDetail.do	
Request parameters	carId	Long	Required	id of vehicles
	state	Integer	Selection Fill	Acc status (1: on ;0: off)
	startTime	String	Required	Beginning time (UTC time) (yyyy - MM-dd HH: mm: ss)
	endTime	String	Required	End time (UTC time) (yyyy - MM-dd HH: mm: ss)
	rowCount	Integer	Selection Fill	Number of pages requested (default first page)
	pageNO	Integer	Selection Fill	Number of displays per page (default 20)
Response parameters		JSON	{ret: 1 0, data: Acc details }	Back time is UTC time, when displayed need to be converted to local time Inter-agency

4.12.12 Acc Statistics Export

		Type	Value	Description
URL	Request parameters	String	accSta/queryDetailExport.do	
Request parameters	carId	Long	Required	id of vehicles
	state	Integer	Selection Fill	Acc status (1: on ;0: off)
	startTime	String	Required	Beginning time (UTC time) (yyyy - MM-dd HH: mm: ss)
	endTime	String	Required	End time (UTC time) (yyyy - MM-dd HH: mm: ss)
Response parameters		JSON	Excel documents	

4.12.13 Travel Statistics

		Type	Value	Description
URL	Request parameters	String	position/distanceSta.do	
Request parameters	carId	Long	Required	id of vehicles
	startTime	String	Required	Beginning time (UTC time)
				(yyyy - MM-dd HH: mm: ss)

	endTime	String	Required	End time (UTC time) (yyyy - MM-dd HH: mm: ss)
	rowCount	Integer	Selection Fill	Number of pages requested (default first page)
	pageNO	Integer	Selection Fill	Number of displays per page (default 20)
Response parameter s		JSON	{ret: 1 0, data: Details of itinerary }	Back time is UTC time, show You need to convert to local time

4.12.14 Travel Statistics Export

		Type	Value	Description
URL	Request parameters	String	position/distanceStaExport.do	
Request parameter s	carId	Long	Required	id of vehicles
	startTime	String	Required	Beginning time (UTC time) (yyyy - MM-dd HH: mm: ss)
	endTime	String	Required	End time (UTC time) (yyyy - MM-dd HH: mm: ss)
Response parameter s		JSON	Excel documents	

4.13 User Vehicle Alarm Screening Switch

4.13.1 Alarm switch according to user id query

		Type	Value	Description
URL		String	userCarAlarmSwitch/getByUserId.do	
Request parameter s	userId	Long	Selection Fill	id of users
Response parameter s		JSON	{ret: 1 0, data: User vehicle alarm Customs }	

4.13.2 Check all alarm switches id users

		Type	Value	Description
URL		String	userCarAlarmSwitch/getAllByUserId.do	
Request parameter s	userId	Long	Selection Fill	id of users
	lang	String	Selection Fill	Language cn : Simplified Chinese hk : Traditiona l Chinese en :

				English fr: French ar: Arabic vi: Vietnamese
Response parameter s		JSON	{ret: 1 0, data: User vehicle alarm Customs }	

4.13.3 Add or update switches

		Type	Value	Description
URL		String	userCarAlarmSwitch/addOrUpdate.do	APP end use
Request parameter s	type	Integer	Required	Alarm type
	isOpen	Boolean	Required	Open
Response parameter s		JSON	{ret: 1 0}	

4.13.4 Batch add or update switches

		Type	Value	Description
URL		String	userCarAlarmSwitch/addOrUpdateBatch.do	Use of web pages
Request parameter s	userId	Long	Selection Fill	id of users
	openTypes	String	Selection Fill	Open alarm type (multiple comma separated)
	closeTypes	String	Selection Fill	Close alarm type (multiple commas (iii))
Response parameter s		JSON	{ret: 1 0}	
Exception				No

5 Annex

5.1 Enumeration definitions

5.1.1 User type

0	Administrator
1	Agent
2	General users
3	Logistics users
4	Rental users
5	Vehicle users

6	Wind control users
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5.1.2 Latitude and longitude type

0	Original longitude and latitude
1	Baidu longitude and latitude
2	Google Gaud Tencent longitude and latitude

5.1.3 Location

0	No location
1	Satellite positioning
2	Beidou Positioning
3	Base station location
4	WIFI positioning

5.1.4 Vehicle alarm switch definition

0	Main switch
1	Overspeed alarm
2	Electronic fence
3	ACC fire
4	ACC stall

5.1.5 Vehicle alarm type definition

1	Vibration alarm
2	Power off alarm
3	Low Power Alarm
4	SOS SOS
5	Speeding alarm
6	Fence alarm (platform determination)
7	Displacement alarm
8	Low Power Alarm
9	Out area alarm (terminal)
10	Detach alarm
11	Light Alarm
12	Magnetic induction alarm
13	Anti-disassembly alarm
14	Bluetooth alarm
15	Signal Shield Alarm
16	False base station alarm
17	Shortlist alarm (platform judgment)
18	Shortlist alarm (terminal determination)
19	Fence alarm (terminal determination)
20	Door open alarm
21	Fatigue driving
22	Alarm at 2
23	Out of two alarm
24	Timeout Warning for Two Charge

25	Terminal Off-line Alarm
26	Shortlisted Alert (Wind Control)
27	Fence alarm (wind control)
28	Electronic fence alarm (platform, terminal and wind control)
29	Out of the electronic fence alarm (platform, terminal and wind control)
30	Oil alert
31	ACC alarm
32	ACC off alarm

5.1.6 Vehicle icon definition

1	Water droplets
2	Truck, pickup
3	Cars
4	Bus
5	Truck, cargo
6	Motorcycle
7	Ships
8	Mixer
9	Train
10	Taxi
11	Agricultural machinery
12	People

5.1.7 Device type definition

1	S15
2	S05
3	S06
4	SW06
5	S001
6	S08
7	S09
8	GT06
9	S08V
10	S01
11	S01T
12	S116
13	S119
14	TR06
15	GT06n
16	S101
17	S101T
18	S06T revised to S06U
19	S112U

20	S112B
21	SA4
22	SA5
23	S208
24	S10
25	S101E
26	S709
27	S102
28	S102T
29	S288
30	S18
31	S03
32	S08S
33	S06E
34	S20
35	S100
36	S003
37	S003T
38	S701
39	S005
40	S11
41	T2A
42	S06L
43	S13
44	GT800

5.1.8 Device Status Definition

0	Established
1	No protection
2	Sleep
3	Power cut
4	Sports
5	ACC features
6	Door open
7	Throttle break
8	Switch
9	Motor lock
10	Overflow voltage
11	Removal status

5.1.9 Extension field key definitions

v	Voltage (millivolt)
power	Percentage of electricity
t	Temperature (degrees Celsius)
ob	Percentage of remaining oil in main tank
ov	Residual capacity volume of main tank (l)

obl	Percentage of remaining oil in sub-tank
ov2	Residual capacity volume (l)
s	State 0: ACC clearance 1: ACC speed 0 2: ACC speed is not 0
st	State time (GMT)

5.2 Business model

5.2.1 Users

userId	id of users
parentId	id Father
userType	User type
userName	Login
password	Password
joinTime	Time to join
updateTime	Update time
name	Account name
linkMan	Contact
linkPhone	Telephone contact
email	Mailbox
address	Address
imageURL	Image Address
rechargeURL	Recharge link
remark	Remarks
allCount	All equipment
underCount	Inventory equipment
onlineCount	Online equipment
notActiveCount	Number of inactive
subAlarm	Acceptance of subordinate alarms
major	Professional users

5.2.2 Vehicles

carId	id of vehicles
userId	id of users
machineType	Type of equipment
carType	Type of vehicle
imei	imei
carNO	License plate
password	Password
simNO	Sim card
imsi	imsi
iccid	iccid
joinTime	Add time
activeTime	Activation time
updateTime	Update time

serviceTime	Service hours
platformTime	Platform time
saleTime	Sales time
serviceState	Service status
driverTel	Owner's cell phone
driverName	Name of owner
email	Mailbox
address	Address
machineName	Name of equipment
shortPhone	Short
remark	Remarks
fuelConsumption	100 km fuel consumption
carAlarmSwitches	Vehicle alarm switch (JSONString array)

5.2.3 Location

carId	id of vehicles
imei	IMEI
dataDt	Final interaction time
pointDt	Location time
pointType	Location type
lon	Longitude
lonc	Longitude after calibration
lat	Latitude
latc	Post-calibration latitude
altitude	Altitude
speed	Speed
dir	Direction
status	State
alarm	Alarm
exData	Extension field
remark	Remarks
stopTime	Time of rest (seconds)
signalMile	Two positioning distances
mileage	Cumulative mileage
isStop	Is it a parking spot

5.2.4 Type of equipment

machineTypeId	Equipment type id
machineTypeName	Device type name
wireless	Is it wireless
remark	Remarks

5.2.5 Electronic fence

geoid	Primary key
name	Name of electronic fence
carId	id of vehicles

type	Type (0: circle ;1: polygon)
radius	Radius (m)
points	Longitude, latitude and longitude separated by commas (iii)
exData	Extension field
inSwitch	Enter alarm
outSwitch	Outbound alarm

5.2.6 Tree structure user data

userId	id of users
parentId	id Father
userType	User type
name	User name
hasChild	Is there a child node
underNum	Number of vehicles directly under
totalNum	Number of recurrent vehicles

5.2.7 Vehicle sections

carGroupId	id of Vehicles
userId	id of users
name	Group name
carCount	Number of vehicles in clusters

5.2.8 Vehicle tree data

carId	id of vehicles
userId	id of users
carGroupId	id of Vehicles
carNO	License plate
machineName	Name of equipment
machineType	Type of equipment
carType	Type of vehicle
serviceTime	Service hours
serviceState	Service status
wireless	Is it a wireless device
focus	Concerns
boundFence	Binding of electronic fence

5.2.9 Vehicle Final Status Data

carId	id of vehicles
online	Is it online
pointTime	Positioning time (UTC)
heartTime	Heart rate (UTC)
staticTime	Static time (UTC)
pointType	Location
lon	Longitude

lat	Latitude
lone	Longitude after calibration
latc	Latitude after calibration
speed	Speed
dir	Direction
status	State
alarm	Alarm
isStop	Is there a parking spot
stopTime	Stop time (seconds)

5.2.10 Vehicle alarm switch

carId	id of vehicles
type	Alarm type (see 5.1.5 above for definition)
isOpen	Open
value	Value

5.2.11 User Vehicle Alarm Switch

type	Alarm type (see 5.1.6 above for definition)
name	Alarm international name
isOpen	Open
emailOpen	Mail push enabled

5.2.12 Vehicle alarm

alarmId	Alarm id
userType	User type
userId	id of users
carId	id of vehicles
machineName	Name of equipment
alarmType	Alarm type
alarmTime	Alarm time
pointTime	Location time
speed	Speed
dir	Direction
pointType	Location
lon	Longitude
lat	Latitude
isNew	Is it new
remark	Remarks

5.2.13 Electronic fence

carFenceId	Primary key
userId	id of users
type	Type (0: circle ;1: polygon)
name	Name of name

radius	Radius (m)
inSwitch	Incoming alarm
outSwitch	Warning
points	Longitude, latitude and longitude separated by commas (iii)
remark	Remarks
carNum	Number of vehicles bound
boundCar	Binds the specified vehicle
fenceType	Fence permission control: fence type default 0 is only used for vehicle binding; 1 Effective for all equipment (including sub-account equipment) managed under the account
pushSubFlag	Inform users and equipment at lower levels

5.2.14 A cc details

imei	imei
pointDt	Location time
state	Acc status (1: on ;0: off)
time	Duration of stay (seconds)
lon	Longitude
lat	Latitude
remark	Remarks

5.2.15 Vehicle statistics

carId	id of vehicles
imei	imei
userId	id of users
machineName	Name of equipment
userName	Name of Agent
simNO	Sim card
machineType	Type of equipment
platformTime	Platform time
serviceTime	User time
serviceState	Service status
dataDt	Time

5.2.16 Travel Statistics

carId	id of vehicles
startTime	Start time
type	Closing time
endTime	mileage
mileage	Begin longitude
startLon	Beginning of latitude
startLat	End of longitude
endLon	End of latitude

5.2.17 Statistical overview data

carId	id of vehicles
machineName	Name of equipment
mileage	Mileage (m)
stopCount	Number of stops
overSpeedCount	Speeding frequency
fuelConsumptionSum	Gross fuel consumption (L)

5.3 Error code definition

5.3.1 Platform Error Code

-101	Busy system
-102	Unauthorized operation
-103	Functional limitations
-104	Number of vehicles in groups exceeding the limit
-105	Busy business
-106	Entry error
-1001	token please
-1002	token error
-2001	Longitude can not be empty
-2002	Latitude can not be empty
-2003	Radius can not be empty
-2004	Start time is not empty
-2005	End time can not be empty
-2007	The pre-conversion longitude and latitude type can not be empty
-2008	The converted latitude and longitude type can not be empty
-2009	Search criteria can not be empty
-2010	Please upload files
-10001	Login name can not be empty
-10002	Password can not be empty
-10003	Wrong account or password
-10004	User id not empty
-10005	The user name already exists
-10006	Users do not exist
-10007	User type can not be empty
-10008	Customer name can not be empty
-10009	Father id not empty
-10010	Old passwords are not empty
-10011	New password can not be empty
-10012	Old password error
-10013	Insufficient number of cards
-10014	No coupon information
-10015	Coupon type can not be empty

-10016	Quantity can not be empty
-10017	Delete failed, delete subuser first
-10018	Insufficient number of import points
-10019	Cell phone number illegal
-10020	Please upload the head image
-10021	Image id not empty
-10022	The picture doesn't exist
-10023	Delete failed, please delete your vehicle
-10024	Do not repeat sales
-10025	Modified vehicle information can not be empty
-20001	id vehicles can not be empty
-20002	No vehicles
-20003	Imei can't be empty
-20004	Device name can not be empty
-20005	User service date can not be empty
-20006	IMEI number must be 15 digits
-20007	Device type can not be empty
-20008	IMEI already exists
-20009	Platform service dates can not be empty
-20010	No location data
-20011	Time span anomalies
-30001	Client type can not be empty
-30002	Client id not empty
-30003	APP push switch can not be empty
-40001	Type of electronic fence can not be empty
-40002	longitude and latitude can not be empty
-40003	Electronic fence already in place
-40004	No electronic fence
-40005	Electronic fence id not empty
-50001	Group id not empty
-50002	Group names can not be empty
-50003	No grouping
-60001	Vehicle alarm type can not be empty
-60002	The alarm switch can not be empty
-60003	Alarm switch value can not be empty
-70001	Remote control type can not be empty
-70002	Remote control parameter names can not be empty
-70003	Remote control values can not be empty
-70004	Remote control pipeline number can not be empty
-70005	Remote control failure
-80001	Alarm id not empty
-90001	Equipment type serial number can not be empty
-90002	The device type corresponding to the serial number already exists

-90003	No device type corresponding to serial number
-90004	Device type name can not be empty
-90005	Type remarks can not be empty
-100001	Feedback id not empty
-100002	Contact information can not be empty
-100003	The title can not be empty
-100004	Feedback content can not be empty
-100005	Remarks not empty
-100006	State can not be empty
-100007	Platform types can not be empty
-110001	Voice id not empty
-120001	Sharing serial numbers can not be empty
-120002	No data sharing
-120003	Share expired
-120004	Share name can not be empty
-120005	Language is not empty
-120006	Timezone can not be empty
-120007	Effective time can not be empty
-130001	Attention has been given to the vehicle
-140001	Multi-car electronic fence id not empty
-140002	The name of multi-car electronic fence can not be empty
-140003	Binding data already exists
-150001	id can not be empty
-150002	The name of the point of two can not be empty
-150003	The two-point type can not be empty
-160001	GeoKeyId can't be empty
-160002	Name can not be empty
-160003	GeoKey can't be empty
-160004	key not available
-160005	Client type can not be empty
-160006	Platform code can not be empty
-160007	Inventory can not be empty
-160008	The quota period can not be empty
-160009	Key ownership platform can not be empty
-160010	Can not be customized for empty
-170001	The full tank can not be empty
-170002	Maximum resistance can not be empty
-170003	The minimum resistance can not be empty
-170004	No empty box standard
-180001	Location grouping id not empty
-180002	Location group name can not be empty
-180003	Packet sorting can not be empty
-180004	No location grouping
-190001	Location id not empty

-190002	Location name can not be empty
-190003	Location sorting can not be empty
-190004	No location
-200001	Virtual user id not empty
-200002	Virtual user name can not be empty
-200003	Virtual user password can not be empty
-200004	Function can not be empty
-200005	User name already exists
-200006	Users do not exist
-200007	Non-virtual accounts
-210001	Message id can not be empty