

Intelligent Lock Report Message Description

1. Log in

Parameter Declaration

Name	Type	Description	Example Values
data	String	Data content	
-gpsUploadInterval	String	GPS upload time interval	100
-version	String	version number	v1.0
-deviceMode	String	Device operating mode 0: The trip is over 1: Trip activation	0
-lockGpsResModel	Object	GPS information	
--terminalStatusList	List<String>	Device status, refer to the enumeration description TerminalStatusEnum (terminal status)	["lockOpen" , " lockCut"]
--warningMessageList	List<String>	Alarm status, refer to the enumeration description AlarmEventEnum (alarm status)	[" lowVoltageAlarm " , " unpack"]
--gpsTime	LocalDateTime	GPS upload time	1731929151000

--gps	MapPoint	GPS position	{"lng":"116.3880791", "lat":"39.9506359"}
--gpsValid	Boolean	Whether GPS location is valid	true
--speed	String	velocity	0
--voltage	String	quantity of electricity	50
--satelliteNum	String	Number of satellites	3
--satelliteSignalValueList	List<String>	The satellite signal value, with an array length equal to the number of satellites	[32,23,42]
--lockStatus	String	Lock state, seal/unseal	unseal
--direction	String	Direction, degrees 0-360 degrees	0
lockCode	String	Lock number	CMNV0290215422

Message Example

```
{
  "data": {
    "gpsUploadInterval": "21",
    "version": "v1.0",
    "deviceMode": "0",
    "lockGpsResModel": {
      "terminalStatusList": [ "lockOpen" ," lockCut" ],
      "warningMessageList": [ "lowVoltageAlarm" ," unpack" ],
      "gpsTime": 1731929151000,
      "gps": {
        "lng":"116.3880791",
        "lat":"39.9506359"
      },
      "gpsValid": true,
      "speed": "0",
      "voltage": "50",
      "satelliteNum": "3",
      "satelliteSignalValueList": [32,23,43],
      "lockStatus": "unseal",
      "direction": "0"
    }
  }
}
```

```
    },  
    "lockCode": "CMNV0290215422"  
}
```

2. Keep Lock Awake

Parameter Declaration

Name	Type	Description	Example Values
data	String	Data content	
-networkValue	String	Satellite signal values	22
-voltage	String	quantity of electricity	50
lockCode	String	Lock number	CNMV0023659798

Message Example

```
{  
  "data": {  
    "networkValue": "22",  
    "voltage": "50"  
  },  
  "lockCode": "CNMV0011112222"  
}
```

3. GPS Protocol

Parameter Declaration

Name	Type	Description	Example Values
data	String	Operation log primary key ID	20241017001
-type	String	Type (gps/blind)	gps

-gpsTime	LocalDateTime	positioning time	1731929151000
-gps	MapPoint	elements of a fix	{"lng": "116.3880791", "lat": "-39.9506359"} }
-speed	String	velocity	100
-direction		Direction, degrees 0-360 degrees	180
-gpsValid	Boolean	Whether GPS location is valid	true
-terminalStatus	List<TerminalStatusEnum>	Terminal state	["lockOpen" , " lockCut"]
-warningMessage	List<AlarmEventEnum>	alarm status	["lowVoltageAlarm" ," unpack"]
-voltage	String	Percentage of power	50
-lockStatus	LockStatusEnum	Lock state	seal
-lac	String	Community number	The reserved field is not available
-ci	String	base station ID	The reserved field is not available
-satelliteNum	String	Number of satellites	1
-satelliteSignalValueList	List<String>	Values of satellite signals	["32"]
-networkValue	String	Network signal value	22
lockCode	String	Lock number	CNMV0023659798

Message Example

{

```

"data": {
  "type": "gps" ,
  "gpsTime": "1731929151000",
  "speed": "10",
  "direction": "0",
  "terminalStatus": [ "lockOpen" ," lockCut" ],
  "warningMessage": [ "lowVoltageAlarm" ," unpack" ],
  "voltagePercentage": "50",
  "lockStatus": "seal",
  "lac": "",
  "ci": "",
  "satelliteNum": "1",
  "satelliteSignalValueList": [ "32" ],
  "networkValue": "22"
},
"lockCode":
"CMNV0290215422" }

```

4、NFC Information

Parameter Declaration

Name	Type	Description	Example Values
data	String	Data content	
-universalNfcList	List<NfcInfoObj>	Collection of NFC information objects	
lockCode	String	Lock number	CNMV0023659798

NfcInfoObj			
name	type	description	Example values
cardNo	String	NFC card number	0A1C2C3D
sealCard	Boolean	NFC card type,	false

		false-unsealed card	
--	--	---------------------	--

Message Example

```
{
  "data": {
    "universalNfcList": [
      {
        "cardNo": "0A1B2C3D",
        "sealCard": false
      },
      {
        "cardNo": "0A1B2C3E",
        "sealCard": false
      }
    ]
  },
  "lockCode": "CNMV0011112222" }
```

5. Enumerative Explanation

DirectionSignEnum (direction sign)		
name	encoding	description
NORTH_EAST	northEast	北纬东经(0)
NORTH_WEST	northWest	北纬西经(1)
SOUTH_EAST	southEast	南纬东经(2)
SOUTH_WEST	southWest	南纬西经(3)

AntennaStatusEnum (antenna status)		
name	code	description
NORMAL	normal	The antenna is normal
OPEN	open	The antenna is open
SHORT_CIRCUIT	shortCircuit	Antenna short circuit
UNSUITABLE	unsuitable	Not the right antenna

LocateStatusEnum (Location status)		
name	code	description
INVALID	locateInvalidly	The location is invalid
LOCATE_2D	2d	2D positioning
LOCATE_3D	3d	3D positioning

TerminalStatusEnum (terminal status)		
name	encoding	description
S1_0	loseContactWithPlatform	No contact with the Centre
S1_1	noGPRS	There is no GPRS network
S1_5	networkSignWeak	The network signal is weak
S2_0	smsWay	SMS only
S2_1	pinEncryption	PIN and code encryption are required
S2_2	gpsCutDown	GPS is off
S2_3	static	The device is stationary
S2_4	lockOpen	Lock rod is open
S2_5	lockCut	The lock rod is cut
S2_6	unpack	Open the shell

AlarmEventEnum (Alarm status)		
name	code	description
A0_0	robbery1	Robbery and police
A0_1	robbery2	False alarm
A0_2	lockOpenAlarm	The lock rod opens and alarms
A0_3	lowVoltageAlarm	Low voltage alarm
A0_4	unpackAlarm	Shell alarm
A0_5	lockCutAlarm	Lock rod cut alarm
A0_7	lockEMachineAlarm	Lock the motor closed
A1_1	exceedSpeedAlarm	Speed alarm
A1_2	gpsAntennaBrokenAlarm	GPS antenna fault alarm
A1_3	gpsReceiverBrokenAlarm	GPS receiver malfunction

LockStatusEnum (lock status)		
name	code	description
SEAL_4	seal	Seal
SEAL_5	seal	Seal it
UNSEAL	unseal	de-archive