



SIM7080 Series_LBS_Application Note

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About Document

Document Information

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1.00	Feb 26, 2020	Wenjie.lai	First Release

Related Documents

[1] SIM7080 Series AT Command Manual V1.02

This document applies to the following products:

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SIM7070G/SIM7070E	CAT-M/NB/EGPRS	24*24*2.4	N/A
SIM7070G-NG	NB/EGPRS	24*24*2.4	N/A
SIM7090G	CAT-M/NB	14.8*12.8*2.0	N/A

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1 Purpose of this document

Based on module AT command manual, this document will introduce LBS application process.

Developers could understand and develop application quickly and efficiently based on this document.

2 Introduction

LBS (Location Based Service), which acquires the location information (geographic coordinates, or geodetic coordinates) of the mobile terminal user through the telecom mobile operator's radio communication network (such as GPRS network, CDMA network) or external positioning method (such as GPS). A value-added service that provides users with corresponding services under the support of the information system (English abbreviation: GIS, Geographic Information System) platform.

The location-based service refers to a value-added service that provides the corresponding service to the user through the radio communication network or external positioning mode of the telecommunication mobile operator to obtain the location information of the mobile terminal user and the GIS platform.

It includes two meanings: first, to determine the geographic location of the mobile device or user; second, to provide various types of information services related to the location. It refers to various types of service systems related to positioning, referred to as "location services". Therefore, LBS is to use the Internet or wireless network to complete positioning and service functions between fixed users or mobile users.

3 LBS sample

3.1 PDN Auto-activation

AT Command	Response	Description
AT+CPIN?	+CPIN:READY OK	Check SIM card status
AT+CSQ	+CSQ: 20,0 OK	Check RF signal
AT+CGATT?	+CGATT: 1	Check PS service. 1 indicates PS has attached.

	OK	
AT+COPS?	+COPS: 0,0,"CHN-CT",9	Query Network information, operator and network mode 9, NB-IOT network
	OK	
AT+CGNAPN	+CGNAPN: 1,"ctnb"	Query CAT-M or NB-IOT network after the successful registration of APN
	OK	
AT+CNCFG=0,1,"ctnb"	OK	Configure PDP 0 th , network type ipv4/v6, APN is "ctnb"
AT+CNACT=0,1	OK	Activate network, Activate 0 th PDP.
	+APP PDP: 0,ACTIVE	

3.2 Get location

AT Command	Response	Description
AT+CLBSCFG=0,3	+CLBSCFG: 0,3,"lbs-simcom.com:3002"	Get LBS server's address
	OK	
AT+CLBS=1,0	+CLBS: 0,121.359544,31.220071,550	Get current longitude, latitude and Precision
	OK	
AT+CLBS=4,0	+CLBS: 0,121.359544,31.220071,550,2019/05/09,08:01:07	Get current longitude, latitude, Precision and date time
	OK	

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