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THE TELCO GLOBAL API ALLIANCE

Device Communication Function Mgmt

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Use Cases

Reason :

This API allows enterprise customers to manage the communication function of IoT cards, including close and open voice, sms, data services.

Mature Fields

Energy Industry

Transportation

New Potential Valued Fields

Smart City

intelligent agriculture

When virtual operators are controlling their SIM card business, they can use this API function to block voice, data, and text messages in real-time. The API can block voice, data, and text messages in real-time when the virtual operator determines that the SIM card is in a risky scenario. For example, when the device is in an abnormal scenario, such as being infected with a Trojan horse, it conducts large-scale upload and download of data or mass sending of text messages or mass dialing of voice calls in an abnormal manner, the virtual operator judges it as an abnormal risk scenario and blocks real-time voice, data, and text messaging through an API.

Statement of operations

API Integration

The Device Communication Function Mgmt API is registered to the public service application of China Telecom's API gateway.

Customer applies for APPKEY and APPSECRET of the gateway API, then calls the Device Communication Function Mgmt API via HTTP/HTTPS to perform device communication function management.

Revenue Model

Provides a tiered pricing scheme based on the number of interface calls.

Current Scale

Currently, China Telecom's IoT card status change API is about 20 million times/day.

The API definition proposal

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API Name	Device Communication Function Mgmt API
Description	This API allows enterprise customers to manage the communication function of IoT cards, including close and open voice, sms, data services.
Input Parameters	• device(Device): The developer can choose to provide the below specified device identifiers: ipv4Address, ipv6Address, phoneNumber,networkAccessIdentifier.
	• busiType(string): Type of service to be managed, such as data, voice or sms
	• action(string): such as open, close
Return Results	• code(string): Returns the result identifier • message(string): return result description • result (object): card specific type service status