Alibaba Cloud IoT Platform

Pricing

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Generic conventions

Table -1: Style conventions

Style	Description	Example
	This warning information indicates a situation that will cause major system changes, faults, physical injuries, and other adverse results.	 **Danger:** Resetting will result in the loss of user configuration data.
	This warning information indicates a situation that may cause major system changes, faults, physical injuries, and other adverse results.	 **Warning:** Restarting will cause business interruption. About 10 minutes are required to restore business.
	This indicates warning information, supplementary instructions, and other content that the user must understand.	 **Notice:** Take the necessary precautions to save exported data containing sensitive information.
	This indicates supplemental instructio ns, best practices, tips, and other content that is good to know for the user.	 **Note:** You can use **Ctrl** + **A** to select all files.
>	Multi-level menu cascade.	**Settings** > **Network** > **Set network type**
Bold	It is used for buttons, menus, page names, and other UI elements.	Click **OK**.
`Courier font`	It is used for commands.	Run the `cd /d C:/windows` command to enter the Windows system folder.
`Italics`	It is used for parameters and variables.	`bae log list --instanceid` *`Instance_ID`*
[] or [a|b]	It indicates that it is a optional value, and only one item can be selected.	`ipconfig` *`[-all|-t]`*
{} or {a|b}	It indicates that it is a required value, and only one item can be selected.	`swich` *`{stand | slave}`*

Contents

1 IoT Platform billing policy

IoT Platform is provided in two editions: IoT Platform Basic and IoT Platform Pro. For IoT Platform Basic, you only pay for your message usage (counts). For IoT Platform Pro, you pay for your message usage (counts) and device management. The billing method for both editions is Pay-As-You-Go, which means you pay only for what you use with no minimum fees.

Billing table

Billable items for IoT Platform Basic and IoT Platform Pro are listed in the following table. For the billable interfaces, see the appendix in this documentation.

Item	Description	IoT Platform Basic	IoT Platform Pro
Message communication fee (Device)	Messages sent from devices by calling the Pub operation.	√	√
	Requests sent from devices used to call the RPC interface.	√	√
	Responses sent from devices used to reply to the Revert-RPC service.	√	√
	Messages received by devices by calling the Sub operation.	√	√
	Messages sent and received by calling TSL model related interfaces.	-	√
Message communication fee (Server)	Messages sent from the server by calling the Pub or PubBroadcast operation.	√	√
	Responses that the server sends to devices.	√	√
	Messages sent from the server by calling the Revert-RPC interface.	√	√
	Messages sent from the server by calling sub-device related interfaces.	√	√
	Messages sent from the server by calling device shadow related interfaces.	√	-
	Messages sent from the server by calling TSL model related interfaces.	-	√

Item	Description	IoT Platform Basic	IoT Platform Pro
Device management fee	Fees are charged for your device management You only pay for devices which are active on that day (living devices). That is, you only pay the device management fee for devices which have performed message communication on the day.	-	√
Free tier message categories	• Connect • Connect Ack • Disconnect • PingReq • PingResp • Publish Ack • Subscribe • Subscribe Ack • Unsubscribe • Unsubscribe Ack • The messages forwarded by Rules Engine **Note:** Messages sent by the rules engine are free of charge. You only pay for fees associated with using associated cloud services if you transfer data to these services.	√	√

Billing methods for message communication

Billable units

- Billing is calculated according to your message usage (counts). See the preceding table to check the billable message categories.
- The first 1 million (1,000,000) messages (sent and received) each month are offered as a free quota. The billing cycle starts from the first day of every month at 00:00:00 Beijing Time (UTC+8). Unused messages from the free quota do not carry over to the next month.

Message counts

- One billable message count equals a maximum of 512 bytes.

- Messages that exceed 512 bytes will be counted as two or more new messages.
- To calculate the billable message count, divide message size in bytes by 512, and round any resulting value to the next largest integer.

Pricing unit

- USD 0.8 per 1,000,000 messages

Billing cycles

- Pay by day. Message counts (sent or received) are calculated daily.
- The value of the payment amount is rounded to two decimal places.

Billing methods for device management

Billable units

- Billing is calculated according to your living device amount on the day. That is, you only pay for the device management fee for devices which have performed message communication on the day.
- Every Alibaba Cloud account has a free quota of ten living devices each day. If the number of living devices is over ten, the additional devices will be charged for.

Pricing unit

- USD 0.003 per living device per day

Billing cycles

- Pay by day. The living device amount is calculated daily.
- The value of the payment amount is rounded to two decimal places.

Note:
The above content is for your reference only. The actual fee is subject to the price when you purchase the service.

Appendix: Billable interfaces

Interface		IoT Platform Basic	IoT Platform Pro
Billable interfaces for device			
MQTT Publish	IOT_CMP_OTA_Start	√	√

Interface		IoT Platform Basic	IoT Platform Pro
	IOT_CMP_OTA_Get_Config	√	√
	IOT_CMP_OTA_Request_Image	√	√
	IOT_CMP_Send	√	√
	IOT_MQTT_Publish	√	√
	IOT_OTA_ReportVersion	√	√
	IOT_OTA_RequestImage	√	√
	IOT_OTA_ReportProgress	√	√
	IOT_OTA_GetConfig	√	√
	IOT_Shadow_Construct	√	√
	IOT_Shadow_RegisterAttribute	√	√
	IOT_Shadow_Push	√	√
	IOT_Shadow_Push_Async	√	√
	IOT_Shadow_Pull	√	√
	IOT_Subdevice_Register	√	√
	IOT_Subdevice_Unregister	√	√
	IOT_Subdevice_Login	√	√
	IOT_Subdevice_Logout	√	√
	IOT_Gateway_Get_TOPO	√	√
	IOT_Gateway_Get_Config	√	√
	IOT_Gateway_Publish_Found_List	√	√
	IOT_Gateway_Publish	√	√
	IOT_Gateway_RRPC_Response	√	√
	linkkit_answer_service	-	√
	linkkit_invoke_raw_service	-	√
	linkkit_trigger_event	-	√
	linkkit_invoke_fota_service	-	√
	linkkit_invoke_cota_get_config	-	√
	linkkit_invoke_cota_service	-	√

Interface		IoT Platform Basic	IoT Platform Pro
CoAP Send	IOT_CoAP_SendMessage	√	√
HTTP Send	IOT_HTTP_SendMessage	√	√
These interfaces are free to call, but you may be charged for received messages.	IOT_CMP_Register	√	√
	IOT_MQTT_Subscribe	√	√
	IOT_Gateway_Subscribe	√	√
	IOT_Gateway_RRPC_Register	√	√
Billable interfaces for server			
Pub		√	√
PubBroadcast		√	√
RRpc		√	√
DeleteDevice When you delete a sub-device, a message of /sys/{productKey}/{deviceName}/thing/delete is triggered.		√	√
DisableThing When you disable a sub-device, a message of /sys/{productKey}/{deviceName}/thing/disable is triggered.		√	√
EnableThing When you enable a sub-device, a message of /sys/{productKey}/{deviceName}/thing/enable is triggered.		√	√
NotifyAddThingTopo When you notify a gateway to add a topological relationship, a message of /sys/{productKey}/{deviceName}/thing/topo/add/notify is triggered.		√	√
UpdateDeviceShadow		√	-
InvokeThingService When you run a specified service on a device, a message like /sys/{productKey}/{deviceName}/thing/service/{tsl.service.identifier} is sent.		-	√
InvokeThingsService When you run a specified service on multiple devices, messages like /sys/{productKey}/{deviceName}/thing/service/{tsl.service.identifier} are sent.		-	√

Interface	IoT Platform Basic	IoT Platform Pro
SetDeviceProperty When you set properties for a specified device, a message of /sys/{productKey}/{deviceName}/thing/service/property/set are triggered.	-	√
SetDevicesProperty When you set properties for multiple devices, messages of /sys/{productKey}/{deviceName}/thing/service/property/set are triggered.	-	√

2 Pricing examples

Case 1: IoT Platform Basic

Your device sends one 0.4 KB message every second to IoT Platform. IoT Platform then delivers this message to five other devices and one application. In this case, five devices and one application will receive this message. For this scenario, we assume one month equals 30 days.

Your fees are calculated as follows:

0.4 KB < 0.5 KB, so each 0.4 KB message is counted as one message.

Messages sent per month: 1 message/second * 60 seconds/minute * 60 minutes/hour * 24 hours/day * 30 days = 2,592,000 messages.

Messages received per month: 6 messages/second * 60 seconds/minute * 60 minutes/hour * 24 hours/day * 30 days = 15,552,000 messages.

Total messages: 2,592,000 + 15,552,000 = 18,144,000 messages.

The first 1,000,000 messages of each month are free. Therefore, the actual chargeable message count is calculated as follows: 18,144,000 - 1,000,000 =17,144,000.

The fee is USD 0.8 per 1,000,000 messages, and the total fee is calculated as (USD 0.8/1,000,000) * 17,144,000 = USD 13.72.

Case 2: IoT Platform Basic

Your device sends one 0.6 KB message every second to IoT Platform. IoT Platform then stores this message to Table Store. For this scenario, we assume one month equals 30 days.

Your fees are calculated as follows:

0.5 KB *2 > 0.6 KB >0.5 KB, so each 0.6 KB message is counted as two messages.

Messages sent per month: 2 messages/second * 60 seconds/minute * 60 minutes/hour * 24 hours/day * 30 days = 5,184,000 messages.

After you enable the Table Store service, fees are charged for using Table Store. If you use the rules engine to forward messages to Table Store, IoT Platform does not charge for data transfer to Table Store.

The first 1,000,000 messages of each month are free. Therefore, the actual chargeable message count is calculated as follows: 5,184,000 - 1,000,000 = 4,184,000.

The fee is USD 0.8 per 1,000,000 messages, and the total fee is calculated as (USD 0.8/1,000,000) * 4,184,000 = USD 3.35.

Case 3: IoT Platform Basic

Your application device sends one 0.5 KB message every minute to IoT Platform. IoT Platform then delivers this message to 10 other devices. In this case, 10 devices will receive this message and then the message will be stored to Table Store.

Your fees are calculated as follows:

The message is 0.5 KB. Therefore, each message is counted as one message.

Messages sent per month: 1 message/minute * 60 minutes/hour * 24 hours/day * 30 days = 86,400 messages.

Messages received per month: 10 messages/minute * 60 minutes/hour * 24 hours/day * 30 days = 432,000 messages.

After you enable the Table Store service, fees are charged for using Table Store. If you use the rules engine to forward messages to Table Store, IoT Platform does not charge for data transfer to Table Store.

Total messages: 43,200 + 432,000 = 475,200 messages.

No fees apply, because the total message count (sent and received) does not exceed the free monthly message quota of 1,000,000.

Case 4: IoT Platform Basic

The server sends one 0.6 KB request every minute to IoT Platform by calling the Revert-RPC interface. IoT Platform then delivers the request to your device. Your device accepts the request and replies one 0.4 KB response to IoT Platform. IoT Platform then delivers the response to the server.

The fees are calculated as follows:

0.5 KB *2 > 0.6 KB >0.5 KB, so each 0.6 KB message is counted as two messages.

Each response message, which is 0.4 KB, is counted as one message.

Messages sent per month:

- Server (Requests): 2 messages/minute * 60 minutes/hour * 24 hours/day * 30 days = 86,400 messages.

- Device (Responses): 1 message/minute * 60 minutes/hour * 24 hours/day * 30 days = 43,200 messages.

Total messages: 86,400 + 43,200 = 129,600 messages.

No fees apply, because the total message count (sent and received) does not exceed the free monthly message quota of 1,000,000.

Case 5: IoT Platform Pro

Billing items of IoT Platform Pro include message (sent and received) fee and device management fee.

Your device sends one 0.4 KB message every second to IoT Platform. IoT Platform then delivers this message to five other devices and one application. In this case, five devices and one application will receive this message. For this scenario, we assume one month equals 30 days.

Billing items:

- Message communication fee

  0.4 KB < 0.5 KB, so each 0.4 KB message is counted as one message.

  Messages sent per month: 1 message/second * 60 seconds/minute * 60 minutes/hour * 24 hours/day * 30 days = 2,592,000 messages.

  Messages received per month: 6 messages/second * 60 seconds/minute * 60 minutes/hour * 24 hours/day * 30 days = 15,552,000 messages.

  Total messages: 2,592,000 + 15,552,000 = 18,144,000 messages.

  The first 1,000,000 messages of each month are free. Therefore, the actual chargeable message count is calculated as follows: 18,144,000 - 1,000,000 =17,144,000.

  The fee is USD 0.8 per 1,000,000 messages, and the total fee is calculated as (USD 0.8/1,000,000) * 17,144,000 = USD 13.72.

- Device management fee

  The amount of living device is six (one device sends messages and five devices receive messages) . Because every Alibaba Cloud account has a free quota of ten living devices each day, no device management fee is charged.

The total fee is calculated as USD 13.72 + USD 0 = USD 13.72.

Case 6: IoT Platform Pro

Your device sends one 0.4 KB message every second to IoT Platform. IoT Platform then delivers this message to 20 other devices. For this scenario, we assume one month equals 30 days.

Billing items:

- Message communication fee

  0.4 KB < 0.5 KB, so each 0.4 KB message is counted as one message.

  Messages sent per month: 1 message/second * 60 seconds/minute * 60 minutes/hour * 24 hours/day * 30 days = 2,592,000 messages.

  Messages received per month: 20 messages/second * 60 seconds/minute * 60 minutes/hour * 24 hours/day * 30 days =51,840,000 messages.

  Total messages: 2,592,000 + 51,840,000 = 54,432,000 messages.

  The first 1,000,000 messages of each month are free. Therefore, the actual chargeable message count is calculated as follows: 54,432,000 - 1,000,000 = 53,432,000 messages.

  The fee is USD 0.8 per 1,000,000 messages, and the total message fee is calculated as (USD 0.8/1,000,000) * 53,432,000 = USD 42.75.

- Device management fee

  The amount of living device is 21 (one device sends messages and 20 devices receive messages) . Because every Alibaba Cloud account has a free quota of ten living devices each day, the amount of devices to be charged for device management fee is: 21 - 10 = 11 devices.

  The device management fee is USD 0.003 for each living device per day.

  The total device management fee for a month is calculated as: 11 devices * USD 0.003 * 30 days = USD 0.99.

The total fee for a month is: USD 42.75 + USD 0.99 = USD 43.74.