

Transcribing

Interface

Documents-V3

1. Real-time transcription interface

Interface Address:

```
ws(wss)://[ip]:[port]/tuling/ast/v3
```

1.1, Request Parameter Example

```
{
  "header": {
    "traceId": "traceId123456" "appId": "123456",
    "bizId": "39769795890",
    "status": 0
  },
  "payload": {
    "audio": {
      "audio": "JiuY3iK9AAB..." //Audio
    }
    "text": {
      "Text": "Zhang San is      //Hot word setting example, not required. The current dev version does not
Do not set hot word parameters, otherwise the engine will be
abnormal; only Chinese and English official versions support hot
word
    }
  }
}
```

Parameter description:

Parameter name	Type	M u s t p a s s o n	Explain
header	Object	Yes	Used to upload service-related parameters
header.traceId	String	Yes	Log tracking Id
header.appId	String	No	Application System Id
header.bizId	String	Yes	(Required) Business Id
header.status	int	Yes	Streaming interface request status, optional values are: 0, 1, 2. The first request value is 0, the intermediate request value is 1, and the last request value is 2;
parameter	Object	Yes	Service parameters for atomic AI capability services
parameter.engine	Map	No	Engine passthrough parameter, currently supported: wdec_param_LanguageType Choice; value range: 0-Chinese-English mixed mode, 1-Chinese-English mixed mode, 2-pure Chinese, 3-pure English; small language transcription engine is 0 by default, and Chinese-English transcription engine is 1 by default;
payload	Object	Yes	Data segment, carrying the requested data
payload.audio.audio	String	Yes	Audio data input after base64 encoding
payload.text.text	String	No	Used to upload text type hot words. = = Only supported by Chinese-English transcription engine = =

1.2 Data transmission

1. The audio buffer byte array is generally submitted as 4096 bytes. In principle, the total size should not exceed 16KB. It is recommended to submit at least 40ms of voice. It is recommended to stream in a 1:1 manner, sending 1280 bytes of data every 40 ms

2. The client should not be actively closed in the normal processing state.

1.3, return results

```
{
  "header": {
    "code": 0,
    "message":
    "success", "sid": "AST_MKMZO0WX2
    SLZ4",
    "traceId": "traceId123456" "status": 1
  },
  "payload": {
    "result": {...} // Recognition result
  }
}
```

Sample recognition result:

```
{
  "segId": 0,
  "bg": 490,
  "ed": 1010,
  "ls": false,
  "nos": "and
```

```
"sn":1,
"lic_status":"0"
"ws":[
  {
    "bg":17,
    "cw":[{"
      "rl":0,
      "sc":"0.00",
      "W": "Hello",
      "WB": 17,
      "we":"0.00",
      "wc":56,
      "wp":"n"
    }
  ],
  {
    "bg":57,
    "cw":[
      {
        "rl":0,
        "sc":"0.00",
        "W": "brother",
        "WB": 57,
        "wc":"0.00",
        "we":84,
        "wp":"n"
      }
    ]
  }
]
```

Field description

Name	Type	Explain
header	Object	The service returns the relevant parameter
header.code	Int	Error code, 0 identification success
header.message	String	Descriptive information
header.sid	String	Unique identification for each session
header.traceId	String	Log tracking Id
payload	Object	Data segment, used to carry the data of the response
payload.result	Object	Transcribe the result
payload.result.segId	Int	Segment ID
payload.result.bg	Int	Start time, must be in ms when the result is sentence
payload.result.ed	Int	End time, must be in ms when the result is sentence
payload.result.ls	Bool	Last result flag, true or false
payload.result.pgs	String	When wpgs is enabled, there will be this field. When the value is "APD", it indicates the final result. When the value is "RPL", it indicates the intermediate result
payload.result.sn	Int	Required when the result sequence number result is sentence
payload.result.ws	ResultItem[]	Specific transcribed text
payload.result.ws.bg	int	Word start time (unit: 10ms)
payload.result.ws.cw	ResultWordItem[]	Word recognition result
payload.result.lic_status	String	Engine authorization status, 0 for normal [only returned in pgs = APD field]

1.4 Error code

Type	Error Code	Description	Description	Scope of influence	Whether it can heal itself	Whether to feedback in the result code of transcribing web socket	
Service error code	0	success	Success			Will	
	1012	audiodata is null	The audio is empty: the audio field of the payload is not carried.	Affects one session but not the next session	Self-healing with non-empty audio request	Will	
	1	Unknownerror	Unknown error, when a piece of audio has no recognition result	Affects one session but not the next session	Self-healing with the right request	Will	
	1010	timeout	Connection timeout caused by abnormal network connection between the client and the server;	Affects one session and may affect the next session	After the network is normal, it can be self-healing, and the network status should be alarmed.	Will	
	10118	serverinterrupt	Service interruption	Affects one session but not the next session	The next normal session is self-healing	It won't be reported.Error code not used	
Engine error code	0	SUCCESS	Success				During the startup process, the log is printed, and during the session, an exception is caught.Transparent to the web socket interface.
	10002	SREC_ERROR_NOT_INIT	Not initialized	Service is not available	It cannot be self-healing, and the interface needs to be called externally	Print the log without feedback in the interface	

					nally accor ding to norm al logic		
	10003	SREC_ERROR_ALREADY_START	Start srec instance repeatedly	Affe cts one sessi on but not the next sessi on	The next norm al sessi on is self- heali ng	Interface feedback	
Type	Error Code	Description	Description	Scop e of influ ence	Whe ther it can heal itself	Whether to feedback in transcribing web socket result code	
	10004	SREC_ERROR_NOT_START	Srec is not started	Affe cts one sessi on but not the next sessi on	The next norm al sessi on is self- heali ng	Interface feedback	
	10008	SREC_ERROR_RESOURCE_NOT_EXIST	Resource does not exist	Affe cts one sessi on but not the next sessi on	The next norm al sessi on is self- heali ng	Interface feedback	
	10011	SREC_ERROR_INVALID_PARA	Invalid parameter	Affe cts one sessi on but not the next sessi on	Self- heali ng using legal para mete rs	Interface feedback	
	10012	SREC_ERROR_INVALID_PARA_VALUE	Parameter value error	Affe cts one sessi on but not the next sessi on	Self- heali ng using legal para mete rs	Interface feedback	
	10013	SREC_ERROR_NULL_HANDLE	Pointer/handl e is null	Affe cts one sessi on but not the next sessi on	Self- heali ng using legal para mete rs	Interface feedback	

	10018	SREC_ERROR_NO_ENOUGH_BUFFER	Insufficient allocated cache capacity	Affects one session but not the next session	The next normal session is self-healing	Interface feedback	
	10021	SREC_ERROR_DONNT_SUPPORT	Unsupported state or srec parameter type for audio frame	Affects one session but not the next session	Self-healing using legal audio frames and legal parameters	Interface feedback	

Type	Error Code	Description	Description	Scope of influence	Whether it can heal itself	Whether to feedback in the result code of transcribing web socket	
	10022	SREC_ERROR_LOAD_LIBRARY	Failed to load dynamic library of dependent component	Service is not available	Not self-healing, requires external check for library existence	Startup phase, log printing.	
	14001	WVAD_ERROR_ALREADY_INIT	Repeat initialization of VAD	No impact, normal operation of the system		Interface feedback	
	14002	WVAD_ERROR_NOT_INIT	Not initialized	Service is not available	It cannot be self-healing, and the interface needs to be called externally according to normal logic	Startup phase, log printing.	
	14003	WVAD_ERROR_ALREADY_START	Repeat activation	No impact, normal operation of the system		Interface feedback	
	14004	WVAD_ERROR_NOT_START	Instance is not started	Affects one session but not the next session	Next route calls START normally. The session started normally	Interface feedback	
	14005	WVAD_ERROR_RESOURCE_NOT_EXIST	Model resource does not exist	Service is not available	Not self-healing, need to check whether the engine package is complete	Startup phase, log printing.	

	14009	WVAD_ERROR_INVALID_PARA	Invalid parameter	Affects one session but not the next session	Self-healing using legal parameters	Interface feedback	
	14010	WVAD_ERROR_INVALID_PARA_VALUE	Invalid parameter value	Affects one session but not the next session	Self-healing using legal parameters	Interface feedback	
Type	Error Code	Description	Description	Scope of influence	Whether it can heal itself	Whether to feedback in the result code of transcribing web socket	
	14011	WVAD_ERROR_NULL_HANDLE	The pointer/handle is null	Affects one session but not the next session	Self-healing using legal parameters	Interface feedback	
	14013	WVAD_ERROR_BUF_NOT_ENOUGH	Insufficient allocated cache capacity	Affects one session but not the next session	The next normal session is self-healing	Interface feedback	
	14014	WVAD_ERROR_AUDIO_ENOUGH	Instance completed or timed out while VAD was writing audio data	Affects one session but not the next session	The next normal session is self-healing	Interface feedback	
	14015	WVAD_ERROR_NO_VALID_AUDIO	No valid VAD detected, invalid data	Affects one session but not the next session	The next valid data can heal itself.	Interface feedback	
	14017	WVAD_ERROR_DONNT_SUPPORT	VAD parameter type is not supported	Affects one session but not the next session	Self-healing using legal parameters	Interface feedback	
	24001	WREC_ERROR_ALREADY_INIT	The wrec is initialized repeatedly	No impact, normal operation of the system		Interface feedback	

	24002	WREC_ERROR_NOT_INIT	Wrec is not initialized	Service is not available	It cannot be self-healing and needs to be initialized externally according to the normal logic call	Startup phase, log printing.	
	24003	WREC_ERROR_ALREADY_START	Repeated startup of wrec instance	No impact, normal operation of the system		Interface feedback	
Type	Error Code	Description	Description	Scope of influence	Whether it can heal itself	Whether to feedback in transcribing web socket result code	
	24004	WREC_ERROR_NOT_START	Not started	Affects one session but not the next session	Next route calls START normally. The session started normally.	Interface feedback	
	24005	WREC_ERROR_RESOURCE_NOT_EXIST	Resource does not exist	Service is not available	Not self-healing, need to check whether the engine package is complete	Startup phase, log printing.	
	24009	WREC_ERROR_INVALID_PARA	Invalid parameter	Affects one session but not the next session	Self-healing using legal parameters	Interface feedback	
	24010	WREC_ERROR_INVALID_PARA_VALUE	Parameter value error	Affects one session but not the next session	Self-healing using legal parameters	Interface feedback	

	24011	WREC_ERROR_NULL_HANDLE	The pointer/handle is null	Affects one session but not the next session	Self-healing using legal parameters	Interface feedback	
	24019	WREC_ERROR_DONNT_SUPPORT	Unsupported for feature data type or wrec parameter type	Affects one session but not the next session	Self-healing using legal parameters	Interface feedback	
	24020	WREC_ERROR_LOAD_LIBRARY	Failed to load library	Service is not available	Not self-healing, requires external check for library existence	Startup phase, log printing.	

Type	Error Code	Description	Description	Scope of influence	Whether it can heal itself	Whether to feedback in the result code of transcribing web socket	
	809910		The dongle extension license expires [the 60-day countdown is over, and the running service will not work properly]	No sessions are affected before expiration; all sessions are affected after expiration	It is necessary to check whether the cloud lock service is normal and whether the authorization is expired.	Interface code feedback; if this error code occurs, transfer the end If there is no payload field, there is no lic _ status error code	
	809905		No dongle authorization [Service startup error, no dongle JSON file]	Engine unavailable, service unavailable, all sessions affected	Self-healing with the correct dongle JSON file	Startup phase, log printing.	
	801905		Engine authorization channel number error [concurrent channel number exceeds authorized concurrent channel number when the engine is started]	Sessions that exceed the number of authorized channels fail	Self-healing with the correct number of concurrent paths	Interface code feedback; if this error code occurs, transfer the end If there is no payload field, there is no lic _ status error code	
Dongle lic _ status error code	0		Normal			Interface lic _ status feedback	
	809909		Dongle authorization expires [60-day countdown is triggered and running services operate normally]	No sessions are affected before expiration; all sessions are affected after expiration	It is necessary to check whether the cloud lock service is normal and whether the authorization is expired.	Interface lic _ status feedback	
	809912		The dongle has no extended authorization [the 60-day countdown will be triggered when the cloud lock service is abnormal for the running service]	No sessions are affected before expiration; all sessions are affected after	It is necessary to check whether the cloud lock service is normal and	Interface lic _ status feedback	

				expir ation	whet her the auth oriza tion is expir ed.		
--	--	--	--	----------------	---	--	--

2. Configuration information query interface

2.1 Interface address

GET:http://ip:port/tuling/ast/v3/config

2.2 Returns the result

```
{
  "engineversion":"UnknownVersion",
  "engineconfigurationfilepath":"/iflytek/res/ast_ed.default.ini","engineconcurrency/numberofinstances":
  "10",
  "patch、hotWordsenabledstatus": false,
  "languageinformation":"chin","resourceList":[
    "[HMM_16K_e76fabd9-45cf-4fe5-a3a3-5b787f0ca1e2]
    id=101
    type=HMM_16K
    path=/iflytek/res/conformerred_encrypt.onnx"
  ],
  "[EDDICT_00af5386-08ca-43db-a3d7-69b8e29ef1ea]
```

3 Log level dynamic update setting interface

3.1 Log level query

3.1.1 Interface address

```
GET:http://ip:port/tuling/ast/v3/level
```

3.1.2 An example of a request

3.1.3 Returns the result

```
{
  "header":{
    "code":
    0,"message":"success"
  },
  "payload":{
    "hisee.engine.ast":
    {
      "standardLevel":"INFO",
      "declaringClass":"org.apache.logging.log4j.Level"
    },
    "com.iflytek.ast.sdk":
    {
      "standardLevel":"INFO",
      "declaringClass":"org.apache.logging.log4j.Level"
    },
    "com.iflytek.tuling.ast":
    {
      "standardLevel":"INFO",
      "declaringClass":"org.apache.logging.log4j.Level"
    },
    "com.iflytek.turing":
    {
      "standardLevel":"ERROR",
      "declaringClass":"org.apache.logging.log4j.Level"
    }
  }
}
```

3.2 Log level modification

3.2.1 Interface address

POST: http://ip:port/tuling/ast/v3/setLevel

3.2.2 Request parameters

Parameter name	Parameter type	Explain
level	String	Log level, level: DEBUG, TRACE, INFO, WARN ERROR

4. Service status interface

4.1 Interface address

GEThttp://{IP: PORT}/actuator/skynet-pandora-status

4.2 Request

sample None

4.3 Returns the result

```
{
  "skynet.pandora.instance":
    {"TalkHandlerManager": {
      "leftSize":0,
      "lastIndex":0
    },
    "TalkHandlerWrapper":
      {"leftSize":0,
      "lastIndex":0
    },
    "TalkServiceObserver":
      {"leftSize":0,
      "lastIndex":0
    },
    "SessionContext":
      {"leftSize":0,
      "lastIndex":0
    },
    "SessionContext4ws":
      {"leftSize":0,
      "lastIndex":0
    }
  },
  "skynet.pandora.param": {"enabled":
    true,"defaultHandlerSize":
    192,"bizIdKey":"bizId",
    "metricNamePrefix":"skynet.pandora","thread":{
      "corePoolSize":96,
      "maximumPoolSize":1024.
```

```

        "keepAliveTime":
            "PT1M", "timeout": "PT1M"
    },
    "grpc": {
        "port": 25311, "signAuthEnabled":
            false, "byteDataType": "ByteArray", "max
            InboundDataSizeM": 5
    },
    "ws": {
        "maxIdleTimeout":
            "PT0S", "maxInboundDataSizeM": 1,
        "maxTextDataSizeM": 1,
        "maxBinaryDataSizeM": 1
    },
    "smoke": {
        "enabled": false
    }
},
"skynet.pandora.kinds": { "func": {
    "enabled":
        true, "endpoint": {
            "itrans-func": { "enabled":
                true, "handlerSize": 192,
                "handleTimeout": "PT10S"
            }
        },
    "kind": "func"
}
},
"skynet.pandora.status": [
    {
        "endpointParam":
            { "id": "name=itrans-
func;handler=ItransPandoraHandler4Func;path=/turing/itrans/v3/func; protocol=HTTP"
,
            "name": "itrans-func",
            "path": "/turing/itrans/v3/func", "protocol":
                "HTTP", "handlerType":
                    "com.iflytek.turing.itrans.pandora.ItransPandoraHandler4Func", "serviceEndpoint": null,
            "endpointProperties": { "enabled":
                true, "handlerSize":
                    192, "handleTimeout": "PT10S"
            }
        },
        "total": 192,
        "done": 0,
        "doing": 0,
        "free": 192,
        "freeHandler": 192,
        "preUsed": 0,
        "sessionList": []
    }
}

```



```
]
}
```

Returned result field description: < reference value >

Parameter name	Type	Explain
skynet.pandora.instance	object	Number of Pandora service framework instances
skynet.pandora.param	object	Pandora service framework parameter
skynet.pandora.param.enabled	boolean	Rack service switch
skynet.pandora.param.defaultHandlerSize	int	Default number of processor instances
skynet.pandora.param.bizIdKey	String	bzID
skynet.pandora.param.metricNamePrefix	String	Indicator name prefix
skynet.pandora.param.thread	object	Thread pool
skynet.pandora.param.thread.corePoolSize	int	Number of core threads
skynet.pandora.param.thread.maximumPoolSize	int	Maximum number of threads
skynet.pandora.param.thread.keepAliveTime	String	Idle thread lifetime
skynet.pandora.param.thread.timeout	String	Timeout period
skynet.pandora.param.grpc	object	Grpc function, off by default
skynet.pandora.param.grpc.port	int	Grpc port, closed not open
skynet.pandora.param.grpc.signAuthEnabled	boolean	Certification
skynet.pandora.param.grpc.byteDataType	String	Data type
skynet.pandora.param.grpc.maxInboundDataSizeM	int	The maximum length of data allowed to be accepted at a time
skynet.pandora.param.ws		
skynet.pandora.param.ws.maxIdleTimeout	String	Timeout period
skynet.pandora.param.ws.maxInboundDataSizeM	int	Maximum size of data allowed to be accepted at a time
skynet.pandora.param.ws.maxTextDataSizeM	int	Maximum Text Data Size
skynet.pandora.param.ws.maxBinaryDataSizeM	int	Maximum binary data size
skynet.pandora.param.smoke.enabled	boolean	Smoke function
skynet.pandora.kinds	object	

skynet.pandora.kinds.func.enabled	boolean	The HTTP function switch
skynet.pandora.kinds.func.endpoint	object	
Parameter name	Type	Explain
skynet.pandora.kinds.func.endpoint.itrans-func	object	Translation Service Information Endpoint
skynet.pandora.kinds.func.endpoint.itrans-func.enbaled	boolean	Translation service switch
skynet.pandora.kinds.func.endpoint.itrans-func.handlerSize	int	Number of Translation Service Processor instances
skynet.pandora.kinds.func.endpoint.itrans-func.handleTimeout	String	Processing timeout
skynet.pandora.kinds.func.kind	String	Child node name
skynet.pandora.status	object	Service status
skynet.pandora.status.endpointParam	object	Endpoint parameters
skynet.pandora.status.endpointParam.id	String	id
skynet.pandora.status.endpointParam.name	String	Endpoint name
skynet.pandora.status.endpointParam.path	String	Endpoint access path
skynet.pandora.status.endpointParam.protocol	String	Endpoint protocol
skynet.pandora.status.endpointParam.handlerType	String	Endpoint handler type
skynet.pandora.status.endpointParam.serviceEndpoint	String	
skynet.pandora.status.endpointParam.endpointProperties	object	Endpoint configuration information
skynet.pandora.status.endpointParam.endpointProperties.enabled	boolean	End Point Switch
skynet.pandora.status.endpointParam.endpointProperties.handlerSize	int	The number of endpoint processor instances
skynet.pandora.status.endpointParam.endpointProperties.handleTimeout	String	Timeout period
skynet.pandora.status.total	int	Total number of processor instances
skynet.pandora.status.done	int	Number of tasks completed
skynet.pandora.status.doing	int	Number of executing processor
skynet.pandora.status.free	int	Number of idle processors
skynet.pandora.status.freeHandler	int	Number of idle processors

skynet.pandora.status.preUsed	int	Number of pre-use
skynet.pandora.status.sessionList	array	A list of sessions

5. Resource monitoring interface

5.1 Interface address

```
GEThttp://{IP: PORT}/turing/v3/monitor?pid=xxxx
```

5.2 Request parameters

Field	Format	Whether it is necessary	Explain
pid	string	No	If it is not passed, the current service PID is obtained by default

5.3 Returns the result

◆ GPU:

```
{
  "code":
  0,"message":"success","data":
  {
    "timestamp":"2024-01-17 17:22:06.673",
    "graphicsType":"GPU","cpu":{
      "cpuNum":32,
      "totalRate":31960,
      "waitRate": 0,
      "userRate": 1.22,
      "freeRate": 97.87,
      "cpuModel": "Intel(R)Xeon(R)CPUE5-2667
                                v4@3.20GHz
                                2

physical CPU package(s)
16 physical CPU core(s)
32 logicalCPU(s)
Identifier:Intel64Family6Model79Stepping1
ProcessorID:F1060400FFFBEBBF
Microarchitecture:Broadwell(Serv er)"
    },
    "memory":{
      "memory":503,
      "used":412,
      "free":91,
      "unit":"GB"
    },
    "graphicsInfo": {"graphicsType":
      "GPU","driverVersion":"418.67",
      "cudaVersion":"10.1",
      "indexes":
      1,"currentUsed":{
        "14614":[
          {
            "pid":"14614",
            "deviceId":0,
            "totalMemory":7611,
            "usedMemory":2849,
            "usedRate":37.43
```

```

        "name": "TeslaP4", "deviceId": 0,
        "uuid": "GPU-a5fed105-cd73-b56f-ac0b-04cc5512a896", "totalMemory": 7611,
        "usedMemory": 4548,
        "freeMemory": 3063,
        "usageRate": 59.76, "processInfoList": [
            {
                "pid": "14614",
                "processName": "java", "usedMemory": 2849
            },
            {
                "pid": "31612",
                "processName": "java", "usedMemory": 1689
            }
        ]
    },
    "remarks": null
},
"disk": [
    {
        "dirName": "/", "fileSystem": "rootfs", "total": 110,
        "used": 99,
        "free": 11, "mount": "/",
        "volume": "rootfs",
        "unit": "GB"
    },
    {
        "dirName": "/",
        "fileSystem": "xfs", "total": 110,
        "used": 99,
        "free": 11, "mount": "/",
        "volume": "/dev/sda2", "unit": "GB"
    }
]
}

```

◆ NPU

```

{
    "code": 0, "message": "success", "data": {
        "timestamp": "2024-03-15 09:26:42.598",
        "graphicsType": "NPU", "cpu": {

```

```

        "cpuNum":256,
        "totalRate":265830.0,
        "sysRate":0.33,
        "waitRate":0.0,
        "userRate":0.12,
        "freeRate":99.55,
        "cpuModel":"

4physicalCPUpackage(s)

256physicalCPUcore(s)

256 logical CPU(s)

Identifier: aarch64 Family 8 Model 0xd01Steppingr1p0

ProcessorID:10D01F4800000000

Microarchitecture:unknown"
    },
    "memory":{
        "memory":2045.0,
        "used":477.0,
        "free":1568.0,
        "unit":"GB"
    },
    "graphicsInfo":
        {"graphicsType":"NPU",
        "driverVersion":"23.0.rc3.3",
        "version":"6.4.0.6.220",
        "indexes":
        8,"currentUsed":{
            "52548":[]
        },
        "details":[
            {
                "name":"IT21HMDC_Bin6","deviceId
                ":0,
                "uuid":"102375498764",
                "totalMemory":65536,
                "usedMemory":64881,
                "freeMemory":655,
                "usageRate":
                0.99,"processInfoList":[
                    {
                        "pid":"156577",
                        "processName":
                        "java","usedMemory":3380
                    },
                    {
                        "pid":"214101",
                        "processName":
                        "java","usedMemory":57443
                    }
                ]
            }
        ]
    },
    {

```

```
"name": "IT21HMDC_Bin6", "deviceId": 1,
"uuid": "102375498807",
"totalMemory": 65536,
"usedMemory": 61604,
"freeMemory": 3932,
"usageRate": 0.94, "processInfoList": [
  {
    "pid": "214101",
```



```

        "processName":"java","usedMemory":57429
      }
    ]
  },
  "remarks":null
},
"disk":[
  {
    "dirName":"/",
    "fileSystem":"xfs",
    "total":444.0,
    "used":332.0,
    "free":112.0,
    "mount":
    "/", "volume":"/dev/sda3", "unit":
    "GB"
  },
  {
    "dirName":"/dev/sda2", "fileSystem":
    "xfs",
    "total":0.0,
    "used":0.0,
    "free":0.0,
    "mount":
    "/boot", "volume":"/dev/sda2", "unit":
    "GB"
  }
]

```

- ◆ Field description:

Field	Explain	Remark
code	Status Code	0, indicating success
message	Invoke message	
data	Message body	
data.timestamp	Timestamp	yyyy-MM-ddHH:mm:ss.sss
data.graphicsType	Graphics card type: GPU, NPU, NONE	
data.cpu	The CPU information	
data.cpu.cpuNum	Number of CPU cores	
data.cpu.totalRate	Total CPU usage	
data.cpu.sysRate	The CPU system utilization	
data.cpu.waitRate	Current CPU idle wait ratio	
data.cpu.userRate	Current user usage of CPU	
data.cpu.freeRate	The CPU idle rate	
data.cpu.cpuModel	Overview of the CPU	
data.memory	Memory information	
data.memory.memory	Total server memory	
data.memory.used	Use memory	
data.memory.free	Free Memory	
data.memory.unit	A unit of memory computation	
data.graphicsInfo	Video card information	
data.graphicsInfo.graphicsType	Graphics card type: GPU, NPU, NONE	
data.graphicsInfo.driverVersion	Video card driver version	
data.graphicsInfo.cudaVersion	The CUDA version	
data.graphicsInfo.indexes	Number of cards	
data.graphicsInfo.currentUsed	Current process usage information	Xtracting the information of the corresponding process according to the parameter PID
data.graphicsInfo.currentUsed.pid	PID of the current process	
data.graphicsInfo.currentUsed.deviceId	Card number of the current process	

data.graphicsInfo.currentUsed.totalMemory	Total video memory of current video card	
Field	Explain	Remark
data.graphicsInfo.currentUsed.usedMemory	Current process uses video memory	
data.graphicsInfo.currentUsed.usedate	Current process usage	
data.graphicsInfo.details	Video card details	
data.graphicsInfo.details.name	Name of the video card	
data.graphicsInfo.details.deviceId	Current video card number	
data.graphicsInfo.details.uuid	uuid	
data.graphicsInfo.details.totalMemory	Total video memory of current video card	
data.graphicsInfo.details.usedMemory	The current video card always uses video memory. (All processes under the current video card use and)	
data.graphicsInfo.details.freeMemory	The current video card does not use video memory	
data.graphicsInfo.details.usageRate	Current video card usage	
data.graphicsInfo.details.processInfoList	Process information under the current video card	
data.graphicsInfo.details.processInfoList.pid	PID of the current process	
data.graphicsInfo.details.processInfoList.processName	Process name	
data.graphicsInfo.details.processInfoList.usedMemory	The process uses video memory	
data.graphicsInfo.remarks	Comment information	
data.disk	Disk information	
data.disk.dirName	Disk name	
data.disk.fileSystem	File system	
data.disk.total	Total disk size	
data.disk.used	Disk usage size	
data.disk.free	Disk Free Size	
data.disk.mount	Drive letter	
data.disk.volume		
data.disk.unit	Party Committee	

◆ Error code:

Field	Error Code	Error message
UN_KNOWN_ERROR	1000	Unknown exception
GET_CPU_ERROR	1001	Get the GPU exception
GPU_IS_NULL	1002	Failed to get GPU information
PROCESS_ID_IS_NULL	1003	Process ID is null
PROCESS_NOT_EXIST	1004	Process does not exist
RUNTIME_EXEC_ERROR	1005	Exception in cmd execution
NPU_INDEXES_ERROR	1006	Obtain NPUID exception
EXEC_RESULT_PARSE_ERROR	1007	The result of parsing cmd command is abnormal

6. Frame preset interface

This interface is a preset interface of iFLYTEK service framework, which is not open to the public, but needs to be exposed in order to meet the safety red line requirements.

/skynet/pandora/v3	IFLYTEK frame preset interface, function off
/skynet/pandora/v3/session	IFLYTEK frame preset interface, function off
/skynet/pandora/v3/session/{sessionId}	IFLYTEK frame preset interface, function off
/skynet/security	IFLYTEK frame preset interface, function off
/skynet/security/publicKey	IFLYTEK frame preset interface, function off
/skynet/security/decrypt	IFLYTEK frame preset interface, function off
/skynet/security/encrypt	IFLYTEK frame preset interface, function off
/skynet/security/login	IFLYTEK frame preset interface, function off
/skynet/security/logout	IFLYTEK frame preset interface, function off
/skynet/security/token	IFLYTEK frame preset interface, function off
/skynet/security/check	IFLYTEK frame preset interface, function off
/skynet/security/refresh	IFLYTEK frame preset interface, function off
/skynet/login	IFLYTEK frame preset interface, function off

7. Description

For all the above interfaces, the validity of the parameters is guaranteed by the incoming party, and the transcription service does not perform verification and protection.