

口语评测（新版）

开发者指南



腾讯云

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[getAuthorization 接口说明](#)

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开发者指南

请求参数说明

概述

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文本当以 API 为准，SDK 如存在差异，可以参考对应 SDK 文档描述。

文档索引	涉及请求参数
音素标注	TextMode
服务模式	SeqId, IsEnd, WorkMode, IsAsync, IsQuery
评测模式介绍	EvalMode, ServerType
评估文本介绍	RefText
主题词和关键词	Keyword
音频上传格式	VoiceFileType, UserVoiceData
语音输入模式介绍	WorkMode, UserVoiceData, SeqId, IsEnd, SessionId, SentenceInfoEnabled
苛刻指数介绍	ScoreCoeff
业务应用 ID 介绍	SoeAppId
音频存储路径	COSBucketURL, VoiceFileType, SessionId

音素标注

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注音参数配置

腾讯云智聆口语评测（新版）支持音素与拼音级别的注音参数配置。

- **适用场景：**英语音素评测、中文音标评测、地名、人名、生僻词、多音字、专有名词、自造词等 out-of-vocabulary (OOV) words 的评测。
- **使用方法：**使用自行配置音素时需要将 `text_mode` 参数设置为1。传入 RefText 文本时需要上传 JSON String，可参考 [发音块](#) 规则，按照音素映射表内的对应关系配置 RefText 文本。

调用文本

ⓘ 说明

- **已登录词：**在音素模式下可以不上传指定发音。
- **未登录词：**系统会根据相关规则和模型自动生成音标进行评测，但该音标可能不够准确。
- **文本中频繁出现的 oov 单词：**可以通过 [在线咨询](#) 提交给产品团队，我们将通过产品迭代对字典进行更新。

音素映射智聆口语评测音素映射如下：

智聆音素	国际音标	IPA88	IPA88 (UK)	KK
ih	ɪ	ɪ	[ɪ]	ɪ
ah	ə	ə	[ə]	ə
ao	ɒ	ɒ	[ɒ]	ɒ
uh	ʊ	ʊ	[ʊ]	ʊ
ah	ʌ	ʌ	[ʌ]	ʌ
eh	e	e	[e]	ɛ
ae	æ	æ	[æ]	æ
iy	i	i:	[i:]	i
er	ɜ	ɜ:	[ɜ:]	ɜ
er	ɚ	-	-	-

ao	ɔ	ɔ:	[ɔ:]	ɔ
uw	u	u:	[u:]	u
aa	ɑ	ɑ:	[ɑ:]	ɑ
ey	eɪ	eɪ	[eɪ]	e
ay	aɪ	aɪ	[aɪ]	aɪ
oy	ɔɪ	ɔɪ	[ɔɪ]	ɔɪ
aw	aʊ	aʊ	[aʊ]	aʊ
ow	əʊ	əʊ/oʊ	[əʊ]	o
ih,r	ɪə	ɪə	[ɪə]	ɪr
eh,r	ɛə	eə	[eə]	ɛr
uh,r	ʊə	ʊə	[ʊə]	ʊr
p	p	p	-	p
b	b	b	-	b
t	t	t	-	t
d	d	d	-	d
k	k	k	-	k
g	g	g	-	g
f	f	f	-	f
v	v	v	-	v
th	θ	θ	-	θ
dh	ð	ð	-	ð
s	s	s	-	s
z	z	z	-	z
sh	ʃ	ʃ	-	ʃ
zh	ʒ	ʒ	-	ʒ

ch	tʃ	tʃ	-	tʃ
jh	dʒ	dʒ	-	dʒ
hh	h	h	-	h
m	m	m	-	m
n	n	n	-	n
ng	ŋ	ŋ	-	ŋ
l	l	l	-	l
r	r	r	-	r
y	j	j	-	j
w	w	w	-	w

ⓘ 说明

音素表无法查找到对应内容，可以根据多个音标进行评测。例如辅音 tr，可以使用 t 和 r 两个来进行评测。

常见单词对应国际音标

需要获取国际音标或者音素对应国际音标出现一对多的情况。可以参考该 [文件](#) 进行映射。

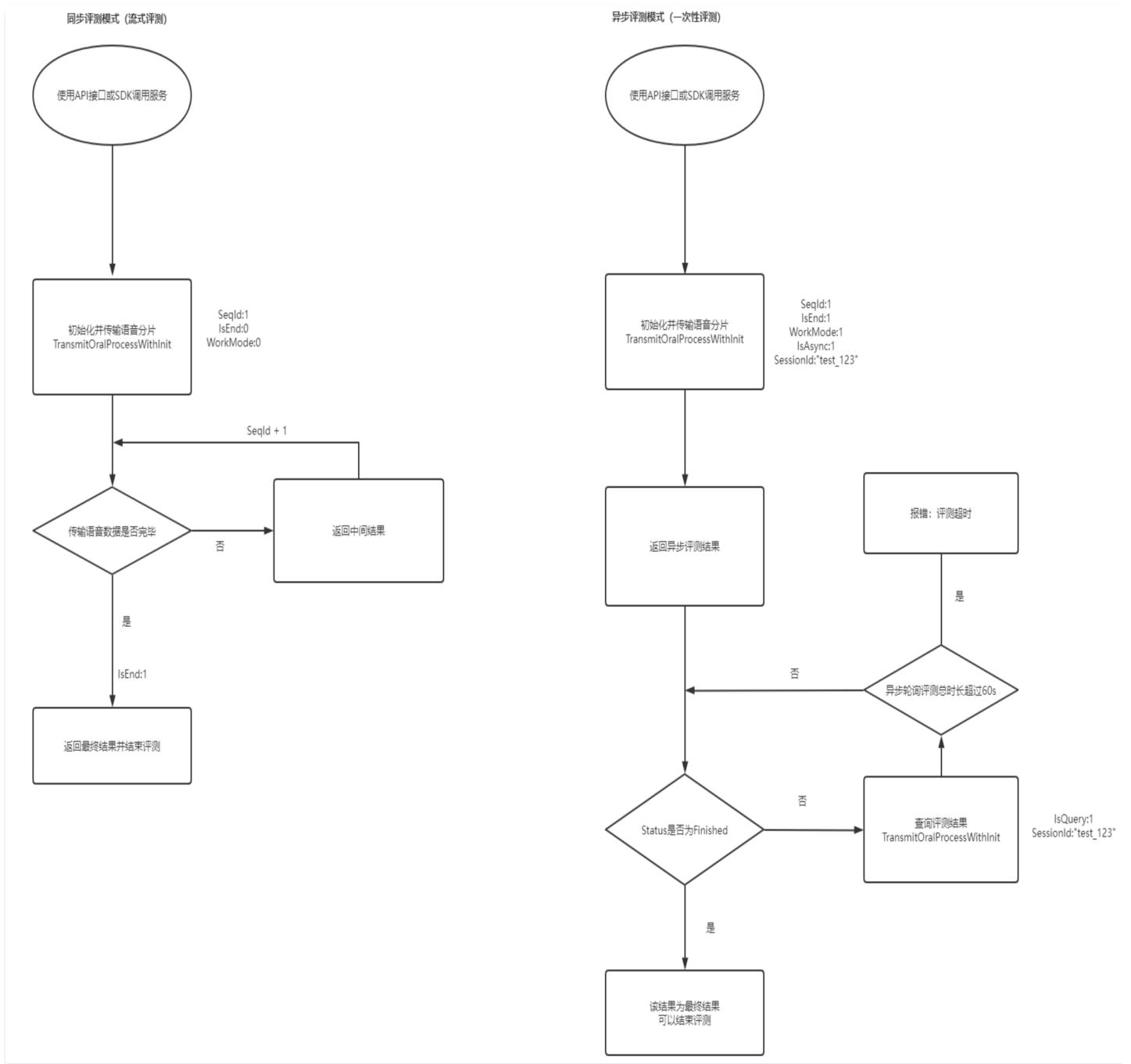
服务模式

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后台服务评测音频耗时与音频时长和音频发音内容相关性越大，音频越长则评测时间越久，音频发音内容越多则评测时间越久。针对音频时长的场景，我们提供了不同的服务模式。

- **同步评测模式**：同步上传评测数据，可以实时获取中间结果（支持实时评测的模式，详情请参见 [评测模式介绍](#)）。最终会在传输最后一个语音分片请求返回中获取评测结果。适合客户端 SDK 进行录制的时候，实时渲染页面的场景。
- **异步评测模式**：音频数据传输完毕后，将不再返回评测结果。可以通过轮询后台服务获取评测结果。适合本地音频文件进行评测，通过轮询查询评测进度。

详情请参见 [语音输入模式介绍](#)，流程图参考下图：



评测模式介绍

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评测模式详细说明

腾讯云智聆口语评测（新版）目前支持8种英文和8种中文评测模式，每种模式的评测维度和参数限制如下表所示：

评估语言	评测模式	功能支持	文本和音频长度限制	评测维度	使用场景
英文	单词	重音检测 原始单词 音素到字母映射 音素到国际音标转换 指定发音 指定国际音标	1个单词 ≤60秒	1. 单词发音的精准度、流利度、时间。 2. 音素的精准度、重音、时间。	对单词和音标进行评测，适用于线上教学，翻译跟读。
	句子	原始单词 实时评测 音素到字母映射 音素到国际音标转换 指定发音 指定国际音标	≤30个单词 ≤60秒	1. 句子发音的精准度、流利度、完整度。 2. 单词发音的精准度、流利度、时间。 3. 音素的精准度、时间。	对词组和句子进行评测，适用于线上教学，翻译跟读。
	段落	原始单词 实时评测 多组文本 主题词和关键词	≤120个单词 ≤300秒	1. 段落发音的精准度、流利度、完整度。 2. 单词发音的精准度、流利度、时间。	对文章进行评测，适用于线上教学，翻译跟读。
	自由说	实时评测 标点符号	字数不限 ≤300秒	1. 句子发音的精准度、流利度。 2. 单词发音的精准度、流利度。	适用于不在意说话内容，在意发音准确，吐词清晰的场景。例如：面试。

<p>单词纠错</p>	<p>重音检测 标准音素 音素到字母映射 音素到国际音标转换 指定发音 指定国际音标</p>	<p>1个单词 ≤60秒</p>	<ol style="list-style-type: none"> 1. 单词标准音标的音素序列。 2. 用户真实发音的音素序列。 3. 音素精准度、音素序列完整度、时间。 	<p>对单词进行评测，展示音素差异，适用于线上教学，翻译跟读。</p>
<p>情景</p>	<p>原始单词 多组分支 单词数组 主题词和关键词 负向关键词 关键词组</p>	<p>每个分支 ≤30个单词 ≤60秒</p>	<ol style="list-style-type: none"> 1. 有正向主题词：完整度代表切题度，输出与答案最大匹配句子发音的精准度，流利度，完整度。 2. 无正向主题词：输出与答案最大匹配句子发音的精准度，流利度，完整度。 3. 有负向主题词：命中后返回精准度分，总分为0，无单词发音结果。 4. 单词发音的精准度，流利度，时间。 	<p>适用于需要多选一，答案正确，错误，无关的场景。例如：问答题，故事复述，看图说话。</p>
<p>句子多分支</p>	<p>多组文本 音素到字母映射 音素到国际音标转换</p>	<p>每个分支 ≤30个单词 ≤60秒</p>	<ol style="list-style-type: none"> 1. 输出与参考文本最大匹配句子发音的精准度、流利度、完整度。 2. 单词发音的精准度、流利度、时间。 3. 音素的精准度、时间。 	<p>适用于需要多选一的场景。例如：选择题。</p>

	<p>单词实时</p>	<p>实时评测 多组文本 音素到字母映射 音素到国际音标转换 指定发音 指定国际音标</p>	<p>每个分支1个 单词 ≤60秒</p>	<ol style="list-style-type: none"> 1. 单词发音的精准度、流利度、时间。 2. 音素的精准度、时间。 3. 用户发音相对预设参考文本的完整度。 	<p>适用于无序评测多个单词场景。例如：英语消除游戏。</p>
中文	<p>单词</p>	<p>指定发音</p>	<p>1个汉字 ≤60秒</p>	<ol style="list-style-type: none"> 1. 单词发音的精准度、流利度、时间。 2. 音素的精准度、重音、时间。 	<p>对汉字进行评测，适用于线上教学，翻译跟读。</p>
	<p>句子</p>	<p>实时评测 指定发音</p>	<p>≤30个汉字 ≤60秒</p>	<ol style="list-style-type: none"> 1. 句子发音的精准度、流利度、完整度。 2. 单词发音的精准度、流利度、时间。 3. 音素的精准度、时间。 	<p>对词语和句子进行评测，适用于线上教学，翻译跟读。</p>
	<p>段落</p>	<p>实时评测 多组文本 主题词和关键词 指定发音</p>	<p>≤120个汉字 ≤300秒</p>	<ol style="list-style-type: none"> 1. 段落发音的精准度、流利度、完整度。 2. 单词发音的精准度、流利度、时间。 	<p>对文章进行评测，适用于线上教学，翻译跟读。</p>
	<p>自由说</p>	<p>实时评测 标点符号</p>	<p>字数不限 ≤300秒</p>	<ol style="list-style-type: none"> 1. 句子发音的精准度、流利度。 2. 单词发音的精准度、流利度。 	<p>适用于不在意说话内容，在意发音准确，吐词清晰的场景。例如：面试，普通话考试。</p>

<p>情景</p>	<p>多组分支 单词数组 主题词和关键词 负向关键词 关键词组</p>	<p>每个分支 ≤30个汉字 ≤60秒</p>	<ol style="list-style-type: none"> 1. 有正向主题词：完整度代表切题度，输出与答案最大匹配句子发音的精准度，流利度，完整度。 2. 无正向主题词：输出与答案最大匹配句子发音的精准度，流利度，完整度。 3. 有负向主题词：命中后返回精准度分，总分为0，无单词发音结果。 4. 单词发音的精准度，流利度，时间。 	<p>适用于需要多选一，答案正确，错误，无关的场景。例如：问答题，故事复述，看图说话。</p>
<p>句子多分支</p>	<p>多组文本 指定发音</p>	<p>每个分支 ≤30个汉字 ≤60秒</p>	<ol style="list-style-type: none"> 1. 输出与参考文本最大匹配句子发音的精准度、流利度、完整度。 2. 单词发音的精准度、流利度、时间。 3. 音素的精准度、时间。 	<p>适用于需要多选一的场景。例如：选择题。</p>
<p>单词实时</p>	<p>实时评测 多组文本 指定发音</p>	<p>每个分支1个 汉字 ≤60秒</p>	<ol style="list-style-type: none"> 1. 单词发音的精准度、流利度、时间。 2. 音素的精准度、时间。 3. 用户发音相对预设参考文本的完整度。 	<p>适用于无序评测多个单词场景。例如：汉字消除游戏。</p>

	<p>拼音</p>	<p>声调评测 指定发音</p>	<p>≤30个拼音 声调检测≤4 个拼音 ≤60秒</p>	<ol style="list-style-type: none"> 1. 拼音序列发音的精准度、流利度、完整度。 2. 拼音发音的精准度、流利度、时间。 3. 音素的精准度、时间。 	<p>对拼音进行评测，适用于线上教学，翻译跟读。</p>
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评估文本介绍

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RefText 文本录入说明

RefText 转换标准

单词类型	组成元素	内部转换	示例
普通单词	a-z,0-9的组合	不转换	apple
单词缩写	包含一个"'"的单词	不转换	it's
常见组合词	由"-"连接的两个单词	对常见组合词不转换；对OOV组合词，单词模式不转换，其他模式拆分为两个单词	bye-bye
整数	数字序列	0 - 99 转换为对应单词，其他转换为数字序列	23→twenty three 123→one two three
浮点数	包含一个"."的数字序列	分别将整数和小数部分转换为数字序列，小数点转换为"point"	1.23→one point two three
数字组合词	包含"- "的数字序列	去除"- "转换为纯数字序列	86-130→eight six one three zero
序数词	1st - 99th	转换为对应的单词	1st→first
时间	小时+":"+分钟	按照英语顺序读法转换	09:00→nine o'clock 09:05→nine o five 09:40→nine forty

RefText 文本过滤规则

1. 我们支持 GBK 编码集内的所有文本，并对下述符号进行了过滤（即 RefText 中可以出现下述符号，且不会影响评测结果）：

~ ' = + " 々 ° ~] & \ - ° " ` ! [' [= ' " * 『 ' #] % || [¥ : " < - - []] # * } (" "

>+ [‘ “ . ^ . & … \$ % :] ? < >) (() ~ _ — — \$ " ; ° - < / \ . ？ ！ ， ； : ? ! , ; . } } 《 》

注意:

个别评测模式下，上述符号可能会影响评测结果。当出现冲突时，以上方表格“评测文本要求”一列中的描述为准。

- 2. 不支持当前评测模式以外的语言（如日、韩语等），不支持填写开发语言（如前端语言）。
- 3. {} 仅在可支持语法格式中使用，不能单独使用。
- 4. | 仅在可支持模式中生效。

评测文本组成

评测文本组成主要是由 **命令块 + 评测文本 + 发音块** 组成。**命令块**可在部分模式实现附加模块开关。**发音块**可在部分模式实现指定发音。**分割符**可在部分模式实现分割多组文本评测。

除了特定语法格式和转换标准之外的其他字符，标点符号均会被过滤。评测文本均不区分大小写。

类型	语法格式	说明	支持模式	示例
发音描述块	单词/汉字 {::pron{p1, p2..}, {p3,p4..}..}	指定发音，定义单词发音。需要将国际音标通过音素映射表转换为智聆音素。	英文：单词，单词实时，单词 素诊断，句 模式。 中文：单词，单词实时，单词 素诊断，句 ，句子多分子，段落，情景，拼音模式。	happy{::pron{hh,ae, p,iy}} every 山{::pron{shan1}} 水
	单词 {::ipapron {p1,p2..}, {p3,p4..}..}	指定国际音标，定义单词发音。发音单元为IPA。	英文：单词，单词实时，单词 素诊断，句 模式。	orange{::ipapron{'ɔ,r ,ɪ,n,dʒ}}
	{"wordList": [{"word": "单词/汉字", "pron": [[p1,p2], [p3,p4]]}]}	音素结构，定义单词发音。	英文：单词、单词实时、单词 素诊断、句 模式。 中文：单词，单词实时，单词 素诊断，句 ，句子多分子，段落，情景，拼音模式。	{"wordList": [{"word": "spout", "pron": [{"s", "p", "ao", "t"}]}], {"wordlist": [{"word": "钢", "pron": [{"gang1"}]}, {"word": "儿"}]}
命令描述	{::cmd{F_IPA=true}}	开启 素到国际 标转换功能	英文：单词，单词实时，单词 素诊断，	{::cmd{F_IPA=true}} orange

块	+ 单词		句 ， 句子多分支模式。	
	<code>::cmd{F_P2L=true}}</code> + 单词	开启 素到字 映射功能	英文：单词，单词实时，单词 素诊断，句 ， 句子多分支模式。	<code>::cmd{F_P2L=true}}</code> hello
	<code>::cmd{F_TDET=true}}</code> + 汉字/拼音	开启声调检测功能	中文：句子，拼音模式。	<code>::cmd{F_TDET=true}}</code> shui1 <code>::cmd{F_TDET=true}}</code> 水
	<code>::cmd{F_PUNC=true}}</code>	开启加标点功能	英文：自由说。 中文：自由说。	<code>::cmd{F_PUNC=true}}</code>
分隔符	单词/汉字 单词/汉字	将文本用 划分为多组文本。多组文本关系为或	英文：段落，情景，句子多分支，单词实时。 中文：段落，情景，句子多分支，单词实时。	by bus by intercity train
候选单词数组	@@ <code>::words{a},{b}...</code>	定义对多组相似文本的简写形式	英文：情景模式。 中文：情景模式。	by @@ <code>::words{bus},{intercity train}}</code>
重音检测	有重音的单词	检测是否为重音	英文：单词，单词纠错。	orange
原始单词	阿拉伯数字	将通过转换标准为单词的数字，显示为原始数字	英文：单词，句子，段落，情景模式。	7

⚠ 注意：

- 发音描述块只能选择其中一种进行使用。
- 当音素到字母映射与音素到国际音标转换或发音描述块一起使用时，音素到字母映射功能可能会失效。
- 默认返回智聆音素。即使指定国际音标，也需要开启 素到国际 标转换功能，才会返回国际音标。

拼音评测说明

1. 采用数字拼音的标注方式，拼音标注时用1、2、3、4标识一声、二声、三声、四声，目前不支持轻声。例如 shān 使用 shan1 表示。

2. 拼音之间用空格区分, 例如: sh an1 shan1 算作3个拼音。
3. 支持声母、韵母+音调、声母+韵母+音调。韵母 ü 用 v 代替。
4. ü 需要使用 v 代替。当 l, n 与 üe 拼读, 需要使用 u, 例如: nue1。

主题词和关键词

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主题词和关键词

Keyword 说明

Keyword 是由不同的主题词组，主题词组成。仅在段落模式，情景评测模式生效。其他评测模式填写该字段不影响评测结果。

请求参数说明

Keyword 文本格式

类型	语法格式	说明	支持模式	示例
普通文本	无	主题词	英文：段落，情景模式 中文：段落，情景模式	bus
分隔符		于划分不同主题词	英文：段落，情景模式 中文：段落，情景模式	bus bike
分隔符	#	于划分不同主题词组	英文：情景模式 中文：情景模式	bus # bike
命令块	<code>:::cmd{F_UKEY=true}</code>	于指定负向主题词	英文：情景模式 中文：情景模式	<code>:::cmd{F_UKEY=true}</code> bike

返回结果说明

参数名称	类型	说明
Keyword Tag	Integer	主题词命中标志，0表示默认，1表示当前词时主题词且命中。
RefTextId	Integer	匹配候选文本的序号。在句子多分支，情景评测，段落模式下且有分隔符 有效，默认0为第一分支，取值范围 $[0, +\infty]$ 。若返回-1表示不符合有效条件，此时无意义。null 表示无效。
KeyWor	Array of	主题词命中标志列表。0表示未命中，1表示命中。null 表示无效。只会返回一

dHits	Float	组主题词组里面的主题词命中情况。
UnKeyWordHits	Array of Float	负向主题词命中标志列表。0表示未命中，1表示命中。null 表示无效。
PronCompletion	Float	仅在情景评测模式下表示切题度，取值为-1或1。-1表示有主题词为命中，1表示所有主题词都命中。当PronCompletion为1时，SuggestedScore为正常取值。当PronCompletion为-1时，SuggestedScore可以按需取值。

请求示例

请求参数参考，格式为 json。

```
{
  "SeqId": 1,
  "IsEnd": 1,
  "VoiceFileType": 3,
  "VoiceEncodeType": 1,
  "UserVoiceData": "UklGRka1CQBxQVZFZm10zOjQzAABJU0ZUDgAAAE*",
  "SessionId": "820993ae-fcfb-11ec-91fc-acde48001122",
  "RefText": "i go to school by bus. | i go to school by
train.",
  "WorkMode": 0,
  "EvalMode": 5,
  "Keyword": "bus |{:cmd{F_UKEY=true}}train",
  "SentenceInfoEnabled": 1,
  "ScoreCoeff": 1
}
```

返回结果参考，格式为 json。

```
{
  "Response": {
    "SuggestedScore": 97.67763,
    "PronAccuracy": 97.67763,
    "PronFluency": 0.88551015,
    "PronCompletion": 1, #所有关键词都命中，切题度才会为1
    "RequestId": "ec1a0ff8-909c-4b07-b8f4-739d4ffad504",
    "Words": [
      {
        "MemBeginTime": 650,
        "MemEndTime": 1140,
```

```
"PronAccuracy": 96.12227,
"PronFluency": 0.7536842,
"ReferenceWord": "i_0",
"Word": "i",
"MatchTag": 0,
"KeywordTag": 0,
"PhoneInfos": []
},
...
{
  "MemBeginTime": 2760,
  "MemEndTime": 3390,
  "PronAccuracy": 96.96368,
  "PronFluency": 0.84625196,
  "ReferenceWord": "bus_5",
  "Word": "bus",
  "MatchTag": 0,
  "KeywordTag": 1, # 命中关键词bus
  "PhoneInfos": []
}
],
"SessionId": "fa5bcbe8-59c0-11ed-8b5b-acde48001122",
"AudioUrl": "",
"SentenceInfoSet": [],
>Status": "Finished",
"RefTextId": 0, # 命中第一个分支
"KeyWordHits": [
  1
], # 命中第一个关键词
"UnKeyWordHits": []
}
}
```

音频上传格式

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音频文件规范

腾讯云智聆口语评测（新版）在流式或非流式评测下都需要开发者按以下格式上传音频数据：

⚠ 注意：

- 需要满足音频属性，如有不一致，可能导致评估不准确或失败。
- 比特率的控制模式推荐使用 CBR，固定码率。

音频文件格式	音频压缩格式	采样率 (sample rate)	声道 (channels)	位深 (bit depth)	比特率 (bit rate)
pcm	pcm	16kHz	单声道	16bit	256kbps以上
wav					
mp3	MP3			-	32kbps以上
speex	speex			-	24kbps以上

音频格式转换

使用第三方转码工具 [ffmpeg](#) 进行转码，安装 ffmpeg，在命令行进行转码操作。常用命令如下：

wav 转 mp3

```
ffmpeg -i "input.mp4" -vn -acodec libmp3lame -ar 16k -ac 1 -b:a 48k "output.mp3" -y
```

mp4 转 mp3

```
ffmpeg -i "input.mp4" -vn -acodec libmp3lame -ar 16k -ac 1 -b:a 48k "output.mp3" -y
```

mp3/pcm 转 wav

```
ffmpeg -i "input.mp3" -acodec pcm_s16le -ar 16k -ac 1 "output.wav" -y
```

wav 转 pcm

```
ffmpeg -i "input.wav" -f s16le -ar 16k -ac 1 "output.pcm" -y
```

参数描述

参数	说明
ffmpeg	ffmpeg 命令
-i input.wav	-i 输入音频文件名
-vn	关闭视频流。用于视频转音频
-acodec libmp3lame	设置音频 codec 为 libmp3lame。将文件转换为 mp3 格式。
-acodec pcm_s16le	设置音频 codec 为 pcm_s16le。将文件转换为 wav 格式，位深16bit。
-f s16le	设置文件格式为 s16le (pcm 小端)。
-ar 16k	设置采样率为16k (hz)
-ac 1	设置音频通道数为1 (单声道)
-b:a 48k	设置比特率为48k (kb/s)
output.mp3	输出转码后的音频文件
-y	输出文件存在时，无需询问，直接覆盖输出文件。

音频信息获取

使用第三方转码工具 [FFmpeg](#) 进行转码，安装 ffmpeg 后，在命令行进行音频信息获取操作。常用命令如下：

```
ffprobe -i 'out.wav' -v quiet -of json -show_format -show_streams
```

参数	说明
ffprobe	ffmpeg 命令。ffprobe 包含在 ffmpeg 中
-i input.wav	-i 输入音频文件名
-v quiet	设置日志级别为 quiet

-of json	设置输出打印格式为 json
-show_format	设置显示输入多媒体流的容器格式信息
-show_streams	设置显示输入多媒体流中每一个流的信息

请求示例

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一次性评测

使用中文单词模式做演示。适合初次接入，使用较短文件来进行评测。

单词模式只支持单词（[缩写](#)，[组合词](#)）/单字。

请求参数

UserVoiceData 需要使用音频数据的 base64 格式。音频数据转成 base64。格式要求参考 [音频上传格式](#)。

```
UserVoiceData =  
"UklGRka1CQBxQVZFZm10IBAAAAAABAEEAgD4AAAB9AAACABAATElTVDQAAABJTkZPSUNSRBE  
AAAAyMDIxLTA3LTAxIDEzOjQzAABJU0ZUDgAAAE*"
```

SessionId 是音频的唯一标识，为了避免重复，推荐使用 uuid 作为唯一标识。

```
SessionId = "820993ae-fcfb-11ec-91fc-acde48001122"
```

EvalMode 是评测模式，参考 [评测模式介绍](#)。

```
EvalMode = 0
```

其他参数信息可以参考 [智聆口语评测（新版）相关接口](#)。

```
SeqId = 1  
IsEnd = 1  
VoiceFileType = 3  
VoiceEncodeType = 1  
RefText = "我"  
WorkMode = 1  
ScoreCoeff = 1.0  
ServerType = 1
```

返回结果

所有评测模式都需要关注的字段。

```
SuggestedScore: 作为总分使用
```

PronAccuracy: 准确度
 PronFluency: 流利度
 PronCompletion: 完整度
 Phone: 音素
 DetectedStress: 用户是否重音
 Stress: 是否应该重音
 MatchTag: 当前词匹配情况。评分为0情况下观察是否漏读，错读。

流式评测

使用英文句子演示流式评测。由于一次性评测评测不了过长的音频数据，所以需要流式评测，将音频数据分片传输。

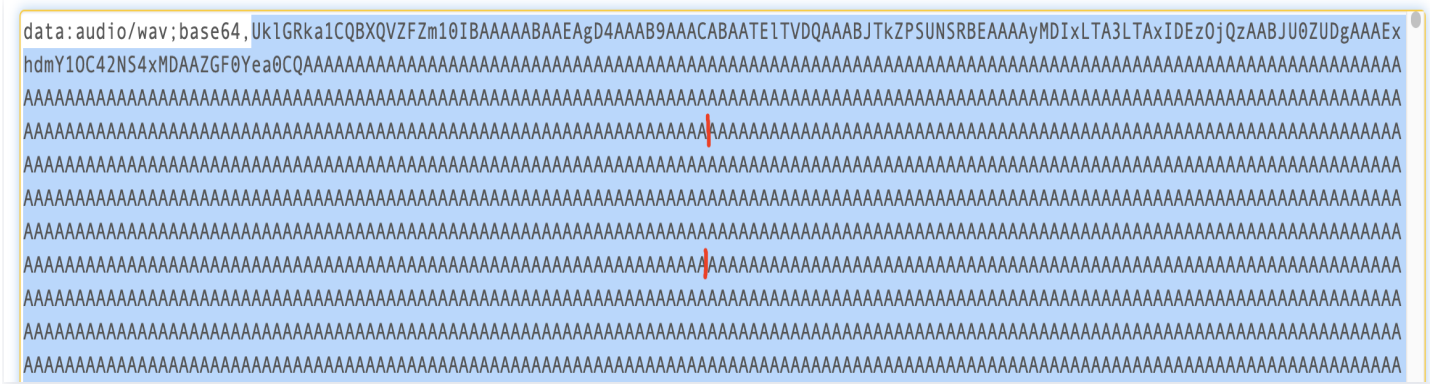
句子模式可以支持30单词/单字以下的文本。

请求参数

流式评测情况下 SeqId 从1开始依次累加（index+1），IsEnd 在尾包的时为1，其他时候为0。

UserVoiceData 需要音频 base64 的数据，会根据 SeqId 顺序拼接成完整的音频。使用流式评测需要将 WorkMode 设置为0。

流式分片评测可以根据我们 SDK 的方法实现，或者百度搜索大文件分片传输，如图所示（将音频分成三个分片）：



```
SeqId = 1
IsEnd = 0
WorkMode = 0
UserVoiceData =
"UklGRka1CQBxQVZFZm10IBAAAABAAEAgD4AAAB9AAACABAATE1TVDQAAABJTkZPSU*"

```

```
SeqId = 2
IsEnd = 0
WorkMode = 0

```

```
UserVoiceData = "AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA*"
```

```
SeqId = 3  
IsEnd = 1  
WorkMode = 0  
UserVoiceData = "AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA*"
```

句子模式支持实时，可以通过设置 `SentenceInfoEnabled=1`，获取实时中间结果。

```
SentenceInfoEnabled = 1
```

其他参数信息可以参考 [智聆口语评测（新版）相关接口](#) 或上方参数描述。

```
VoiceFileType = 3  
VoiceEncodeType = 1  
SessionId = "820993ae-fcfb-11ec-91fc-acde48001122"  
RefText = "i have a car"  
EvalMode = 1  
ScoreCoeff = 1.0  
ServerType = 0  
TextMode = 0
```

返回结果

实时评测需要关注参数。

```
SentenceInfo: 可以返回评测中间结果  
Status: 中间结果为Evaluating，最终结果为Finished
```

指定单词发音

使用英文句子模式演示指定单词发音。

当需要使用音标评测或文本中出现不常见人名，地名，返回结果 `MatchTag: 4`（不在字典）的时候，需要指定单词发音，否则会按照我们词库生成发音或报错。

请求参数

使用指定发音需要设置 `TextMode = 1`。使用 `Wordlist` 的结构来表示音素结构。音素结构 `Word` 需要填写指定的单词，`Pron` 需要填写智聆音素（可以参考音素映射表）。没有 `Pron` 则不指定发音，`Pron` 为空或非智聆音素会报错。


```
RefText = "{\"wordlist\": [{\"word\": \"english\"}, {\"word\": \"tencent\"}, {\"pron\": [[\"t\", \"ah\", \"n\", \"s\", \"ah\", \"n\", \"t\"]]}, {\"word\": \"smart oral evaluation\"}]}"
TextMode = 1
```

音标评测

不指定音标的情况下一般发字母音或报错，所以对音标进行评测。

请求参数

文本参考

Word 需要填入国际音标，Pron 需要填入智聆音素，例如国际音标 e，对应智聆音素 eh。详情参考 [音素映射表](#)。

```
RefText = "{\"wordlist\": [{\"word\": \"e\", \"pron\": [[\"eh\"]]}]}"
TextMode = 1
```

Word 无法直接传入部分音标，所以需要替换处理。例如 æ，可以使用 ae。

文本参考

```
RefText = "{\"wordlist\": [{\"word\": \"ae\", \"pron\": [[\"ae\"]]}]}"
TextMode = 1
```

多音词评测

当一个单词有是多音词且发音都算正确时，可以使用多音词评测。

请求参数

文本参考

```
RefText = "{\"wordlist\": [{\"word\": \"bikeOrabout\", \"pron\": [[\"b\", \"ay\", \"k\"], [\"ah\", \"b\", \"ao\", \"t\"]]}]}"
TextMode = 1
```

其他参数信息可以参考 [智聆口语评测（新版）相关接口](#) 或上方参数描述。

```
SeqId = 1
IsEnd = 1
VoiceFileType = 3
VoiceEncodeType = 1
```

```
UserVoiceData =
"UklGRka1CQBxQVZFZm10IBAAAAAABAEEAgD4AAAB9AAACABAATElTVDQAAABJTkZP*"
SessionId = "820993ae-fcfb-11ec-91fc-acde48001122"
WorkMode = 0
EvalMode = 1
ScoreCoeff = 1.0
ServerType = 0
```

指定汉字发音

使用中文段落模式演示指定汉字发音。

请求参数

指定汉字发音和指定单词发音类似，都是属于指定发音。Word 填入需要指定的汉字，Pron 填入拼音。

```
RefText = "{ \"wordlist\": [{ \"word\": \"靠山吃山，靠水吃水。仪\" }, { \"word\": \"陇\", \"pron\": [ [ \"long2\" ] ] }, { \"word\": \"是山区，有山林竹木，有山货药材，一定要根据山区特点，多搞副业，广开财路。除了粮食，还要抓好棉花、油料生产。多养猪，多喂鸡鸭牛羊，把改善老百姓的生活作为大事来抓。还要动员老百姓在田边地角、河坡路旁多种树，比如桑树、果树、茶树、白蜡树等。要搞好发展规划，定目标要切合实际，不要搞一刀切、瞎指挥。办事要老老实实，统计的数字要真实，遇事多和群众商量。\" } ] }"
TextMode = 1
```

其他参数信息可以参考 [API 文档](#) 或上方参数描述。

```
SeqId = 1
IsEnd = 1
VoiceFileType = 3
VoiceEncodeType = 1
UserVoiceData =
"UklGRka1CQBxQVZFZm10IBAAAAAABAEEAgD4AAAB9AAACABAATElTVDQAAABJTkZP*"
SessionId = "820993ae-fcfb-11ec-91fc-acde48001122"
WorkMode = 0
EvalMode = 2
ScoreCoeff = 1.0
ServerType = 1
```

异步轮询

使用中文自由说模式演示结果查询。

请求参数

自由说模块可以不填写参考文本，根据用户阅读的内容来进行打分。

```
SeqId = 1
IsEnd = 1
VoiceFileType = 3
VoiceEncodeType = 1
UserVoiceData =
"UklGRka1CQBxQVZFZm10IBAAAAABAEEAgD4AAAB9AAACABAATElTVdQAAABJTkZP*"
SessionId = "a61eb16c-fd04-11ec-9898-acde48001122"
RefText = ""
WorkMode = 1
EvalMode = 3
ScoreCoeff = 1.0
ServerType = 1
IsAsync = 1
```

在请求结束之后，一般会返回评测结果。如果需要再次对结果查询（10分钟内），可以设置 `IsQuery = 1`，使用对应 `SessionId` 查询相应的结果。如果不存在会报错：结果缓存已过期。

```
IsQuery = 1
SessionId = "a61eb16c-fd04-11ec-9898-acde48001122"
```

其他参数信息可以参考 [智聆口语评测（新版）相关接口](#) 或上方参数描述。

```
SeqId = 1
IsEnd = 1
VoiceFileType = 3
VoiceEncodeType = 1
UserVoiceData
="UklGRka1CQBxQVZFZm10IBAAAAABAEEAgD4AAAB9AAACABAATElTVdQAAABJTkZP*"
RefText = ""
WorkMode = 1
EvalMode = 3
ScoreCoeff = 1.0
ServerType = 1
```

音素到字母映射

使用英文单词纠错模式做演示。

请求参数

音素纠错模式可以返回用户发音内容和文本标准内容，标明客户读错的具体内容。RefText 与单词模式一致。

```
RefText = "hello"  
EvalMode = 4
```

音素到字母的映射 RefText 需要使用`::cmd{F_P2L=true}`+单词 开启音素到字母映射。

```
RefText = "::cmd{F_P2L=true}hello"  
EvalMode = 4
```

其他参数信息可以参考 [智聆口语评测（新版）相关接口](#) 或上方参数描述。

```
SeqId = 1  
IsEnd = 1  
VoiceFileType = 3  
VoiceEncodeType = 1  
UserVoiceData =  
"UklGRka1CQBxQVZFZm10IBAAAAAABAEEAgD4AAAB9AAACABAATElTVDQAAABJTkZP*"  
SessionId = "820993ae-fcfb-11ec-91fc-acde48001122"  
WorkMode = 1  
ScoreCoeff = 1.0  
ServerType = 0
```

返回结果

音素纠错模式需要关注字段。

```
Phone: 音频对应音素  
ReferencePhone: 文本对应标准音素
```

映射需要关注参数。

```
Phone: 当前音素  
ReferenceLetter: 当前音素对应字母
```

中文句子多分支模式

需要使用单选题的场景。

请求参数

RefText 使用 | 来划分不同的句子，| 表示或。

```
RefText = "苹果|香蕉|菠萝"  
EvalMode = 6
```

其他参数信息可以参考 [智聆口语评测（新版）相关接口](#) 或上方参数描述。

```
SeqId = 1  
IsEnd = 1  
VoiceFileType = 3  
VoiceEncodeType = 1  
UserVoiceData =  
"UklGRka1CQBQVZFZm10IBAAAAAABAEEAgD4AAAB9AAACABAATElTVDQAAABJTkZP*"  
SessionId = "820993ae-fcfb-11ec-91fc-acde48001122"  
WorkMode = 1  
ScoreCoeff = 1.0  
ServerType = 1
```

单词实时模式

使用单词实时模式，可以中间就拿到单词的评测结果。

请求参数

RefText 使用 | 来划分不同的单词，| 表示或。

```
RefText = "apple | bagworm | first"  
EvalMode = 7
```

单词实时模式如果需要普通文本和指定发音混合评测，需要使用 单词+{::pron{智聆音素}} 来进行指定发音。

```
RefText = "apple | bagworm | first | happy{::pron{hh,ae,p,iy}}"  
EvalMode = 7  
TextMode = 0
```

其他参数信息可以参考 [智聆口语评测（新版）相关接口](#) 或上方参数描述。

```
SeqId = 1  
IsEnd = 0  
VoiceFileType = 3  
VoiceEncodeType = 1
```

```
UserVoiceData =  
"UklGRka1CQBXQVZFZm10IBAAAAAABAEEAgD4AAAB9AAACABAATElTVDQAAABJTkZP*"  
SessionId = "820993ae-fcfb-11ec-91fc-acde48001122"  
WorkMode = 0  
ScoreCoeff = 1.0  
ServerType = 0
```

```
SeqId = 2  
IsEnd = 0  
VoiceFileType = 3  
VoiceEncodeType = 1  
UserVoiceData = "AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA*"  
SessionId = "820993ae-fcfb-11ec-91fc-acde48001122"  
WorkMode = 0  
ScoreCoeff = 1.0  
ServerType = 0
```

```
SeqId = 3  
IsEnd = 1  
VoiceFileType = 3  
VoiceEncodeType = 1  
UserVoiceData = "AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA*"  
SessionId = "820993ae-fcfb-11ec-91fc-acde48001122"  
WorkMode = 0  
ScoreCoeff = 1.0  
ServerType = 0
```

拼音模式

请求参数

拼音模式需要使用中文模式，RefText 使用1,2,3,4，表示声调。

```
RefText = "sh an1"  
EvalMode = 8  
ServerType = 1
```

声调检测

请求参数

RefText需要使用 `{::cmd{F_TDET=true}}` + 拼音 开启声调检测。

```
RefText = "{::cmd{F_TDET=true}}sh an1"  
EvalMode = 8  
ServerType = 1
```

其他参数信息可以参考 [智聆口语评测（新版）相关接口](#) 或上方参数描述。

```
SeqId = 1  
IsEnd = 1  
VoiceFileType = 3  
VoiceEncodeType = 1  
UserVoiceData =  
"UklGRka1CQBxQVZFZm10IBAAAAABAAEAgD4AAAB9AAACABAATElTVDQAAABJTkZP*"  
SessionId = "820993ae-fcfb-11ec-91fc-acde48001122"  
WorkMode = 1  
ScoreCoeff = 1.0
```

返回结果

声调评测需要关注参数。

```
word: 原始评测文本  
ReferenceWord: 标准发音  
phone: 真实发音音素  
ReferencePhone: 标准发音音素，可依此判断声调是否正确。
```

中英文混合评测

中文评测下可以支持一些简单的英文，也可以通过音素结构来指定发音。

```
RefText = "我有一座house"  
ServerType = 1
```

其他参数信息可以参考 [智聆口语评测（新版）相关接口](#) 或上方参数描述。

```
SeqId = 1  
IsEnd = 1  
VoiceFileType = 3  
VoiceEncodeType = 1
```

```
UserVoiceData =  
"UklGRka1CQBXQVZFZm10IBAAAAAABAEEAgD4AAAB9AAACABAATElTVDQAAABJTkZP*"  
SessionId = "820993ae-fcfb-11ec-91fc-acde48001122"  
WorkMode = 0  
EvalMode = 1  
ScoreCoeff = 1.0
```

业务应用

为了区分不同的业务，需要使用不同的业务应用 ID 来区分。例如同一家公司，不同的产品，不同的应用平台，不同地域划分。

需要在 [应用管理控制台](#) 新建应用，新建应用内容根据需要填写。

系统设置

帮助文档

应用管理 资源管理

新建应用

应用列表

应用名称	SOEAPPID	应用平台	应用简介	创建时间	操作
soe_	soe_	WebAPI			编辑 删除
默认应用	default	尚未设置			编辑

请求参数

在请求参数填入对应 SoeAppId。

```
SoeAppId = "soe_100xxxxx"
```

其他参数信息可以参考 [智聆口语评测（新版）相关接口](#) 或上方参数描述。

```
SeqId = 1  
IsEnd = 1  
VoiceFileType = 3  
VoiceEncodeType = 1
```



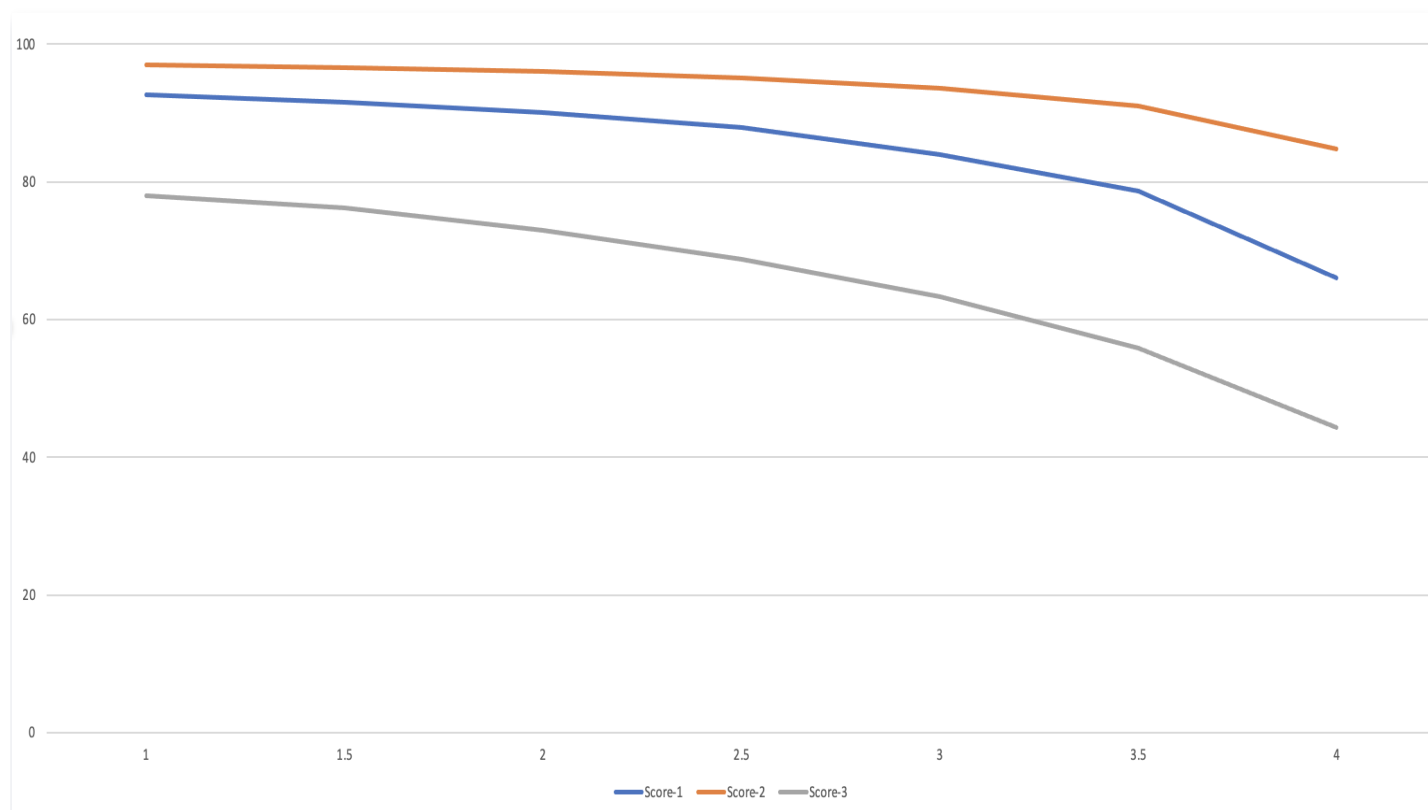
```
UserVoiceData =  
"UklGRka1CQBXQVZFZm10IBAAAAABAAEAgD4AAAB9AAACABAATElTVDQAAABJTkZP*"  
SessionId = "a61eb16c-fd04-11ec-9898-acde48001122"  
RefText = "hello"  
WorkMode = 1  
EvalMode = 0  
ScoreCoeff = 1.0  
ServerType = 0
```

苛刻度

设置不同的苛刻度，对应不同年龄段。

影响范围

取三段不同的数据，苛刻度在1.0 - 4.0之间的变化曲线如下所示：



按需设置

具体需要设置值，可以根据反馈情况，收集音频数据进行打分对比，调整为更符合的苛刻度。

```
ScoreCoeff = 1.0
```

其他参数信息可以参考 [智聆口语评测（新版）相关接口](#) 或上方参数描述。

```
SeqId = 1
IsEnd = 1
VoiceFileType = 3
VoiceEncodeType = 1
UserVoiceData =
"Uk1GRka1CQBxQVZFZm10IBAAAAABAEEAgD4AAAB9AAACABAATE1TVDQAAABJTkZP*"
SessionId = "a61eb16c-fd04-11ec-9898-acde48001122"
RefText = "hello"
WorkMode = 1
EvalMode = 0
ServerType = 0
```

语音输入模式介绍

最近更新时间：2024-06-26 17:38:52

一次性评测

一次性评测，是一次性将音频数据上传进行评测。一般用于较短文件的评测。

请求参数

主要请求参数说明：

参数名称	类型	描述
WorkMode	Integer	语音输入模式。1：一次性评测
UserVoiceData	String	当前语音数据
SeqId	Integer	流式数据包的序号。1：初始化序号
IsEnd	Integer	是否传输完毕标志。1：传输完毕开始评估

请求示例

```
{
  "WorkMode": 1,
  "UserVoiceData": "UklGRka1CQBxQVZFZ*****",
  "SeqId": 1,
  "IsEnd": 1,
  "RefText": "hello",
  "VoiceFileType": 3,
  "VoiceEncodeType": 1,
  "SessionId": "d0cecf7a-6bca-11ed-bdb0-acde48001122",
  "EvalMode": 0,
  "ScoreCoeff": 1.0
}
```

返回结果

正确返回结果

```
{
  "Response": {
    "SuggestedScore": 9.398723,
  }
}
```

```
"PronAccuracy":9.398723,
"PronFluency":0.8396871,
"PronCompletion":1,
"RequestId":"3b520d02-bc6a-4b3a-8396-fd4ecb0d63a8",
"Words":[
  {
    "MemBeginTime":1030,
    "MemEndTime":2040,
    "PronAccuracy":9.398723,
    "PronFluency":0.8396871,
    "ReferenceWord":"hello_0",
    "Word":"hello",
    "MatchTag":0,
    "KeywordTag":0,
    "PhoneInfos":[
      {
        "MemBeginTime":1030,
        "MemEndTime":1570,
        "PronAccuracy":19.79675,
        "DetectedStress":false,
        "Phone":"hh",
        "ReferencePhone":"","",
        "ReferenceLetter":"","",
        "Stress":false,
        "MatchTag":0
      },
      {
        "MemBeginTime":1570,
        "MemEndTime":1660,
        "PronAccuracy":0.24008001,
        "DetectedStress":false,
        "Phone":"ah",
        "ReferencePhone":"","",
        "ReferenceLetter":"","",
        "Stress":false,
        "MatchTag":0
      },
      {
        "MemBeginTime":1660,
        "MemEndTime":1810,
        "PronAccuracy":0.015921298,
        "DetectedStress":true,
        "Phone":"l",
```

```
        "ReferencePhone": "",
        "ReferenceLetter": "",
        "Stress": true,
        "MatchTag": 0
    },
    {
        "MemBeginTime": 1810,
        "MemEndTime": 2040,
        "PronAccuracy": 17.542141,
        "DetectedStress": false,
        "Phone": "ow",
        "ReferencePhone": "",
        "ReferenceLetter": "",
        "Stress": false,
        "MatchTag": 0
    }
]
},
"SessionId": "d0cecf7a-6bca-11ed-bdb0-acde48001122",
"AudioUrl": "",
>Status": "Finished"
}
```

错误返回结果

```
{
  "Response": {
    "RequestId": "8053e8ce-06d4-4100-9f10-4103cc53ab78",
    "Error": {
      "Code": "FailedOperation.ServiceTimeout",
      "Message": "评测超时，请通过轮询查询评测结果，后续请使用分片传输或减少  
单次传输音频时长。"
    }
  }
}
```

如果返回评测超时可以通过轮询查询，或者使用流式评测进行分片传输。

轮询查询

请求参数

参数名称	类型	描述
IsQuery	Integer	查询标识。1: 查询
SessionId	String	语音段唯一标识。

请求示例

评测超时后再次请求接口获取结果。此时只需要设置的SessionId和IsQuery，其他必填参数需要满足类型，即可查询。SessionId需要请求过评测接口才可以进行查询。

```
{
  "IsQuery":1,
  "SessionId":"d0cecf7a-6bca-11ed-bdb0-acde48001122",
  "WorkMode":1,
  "UserVoiceData":"","
  "SeqId":1,
  "IsEnd":1,
  "RefText":"","
  "VoiceFileType":3,
  "VoiceEncodeType":1,
  "EvalMode":0,
  "ScoreCoeff":1.0
}
```

返回结果

主要返回参数

参数名称	类型	描述
Status	String	评估 session 状态。Finished: 评估完成

返回示例

需要等到 Status 为 Finished，评估才完成。否则是还在评估中，可以重复发送请求来获取。

```
{
  "Response":{
    "SuggestedScore":9.398723,
    "PronAccuracy":9.398723,
    "PronFluency":0.8396871,
    "PronCompletion":1,
    "RequestId":"3b520d02-bc6a-4b3a-8396-fd4ecb0d63a8",
    "Words":[
```

```
{
  "MemBeginTime":1030,
  "MemEndTime":2040,
  "PronAccuracy":9.398723,
  "PronFluency":0.8396871,
  "ReferenceWord":"hello_0",
  "Word":"hello",
  "MatchTag":0,
  "KeywordTag":0,
  "PhoneInfos":[
    {
      "MemBeginTime":1030,
      "MemEndTime":1570,
      "PronAccuracy":19.79675,
      "DetectedStress":false,
      "Phone":"hh",
      "ReferencePhone":"","",
      "ReferenceLetter":"","",
      "Stress":false,
      "MatchTag":0
    },
    {
      "MemBeginTime":1570,
      "MemEndTime":1660,
      "PronAccuracy":0.24008001,
      "DetectedStress":false,
      "Phone":"ah",
      "ReferencePhone":"","",
      "ReferenceLetter":"","",
      "Stress":false,
      "MatchTag":0
    },
    {
      "MemBeginTime":1660,
      "MemEndTime":1810,
      "PronAccuracy":0.015921298,
      "DetectedStress":true,
      "Phone":"l",
      "ReferencePhone":"","",
      "ReferenceLetter":"","",
      "Stress":true,
      "MatchTag":0
    },
  ],
}
```

```
{
  "MemBeginTime":1810,
  "MemEndTime":2040,
  "PronAccuracy":17.542141,
  "DetectedStress":false,
  "Phone":"ow",
  "ReferencePhone":"","
  "ReferenceLetter":"","
  "Stress":false,
  "MatchTag":0
}
],
"SessionId":"d0cecf7a-6bca-11ed-bdb0-acde48001122",
"AudioUrl":"","
>Status":"Finished"
}
```

流式评测

需要实时评测或者出现评测超时的问题，可以使用流式评测来解决。

请求参数

主要请求参数

参数名称	类型	描述
WorkMode	Integer	语音输入模式。0：流式评测
UserVoiceData	String	当前语音数据
SeqId	Integer	流式数据包的序号。1：初始化序号，从1开始一次累加
IsEnd	Integer	是否传输完毕标志。1：传输完毕开始评估。0：传输中
SentenceInfoEnabled	Integer	输出断句中间结果标识。1：输出

请求示例

将同一个音频分成三份

分片序号1 请求

```
{
  "WorkMode":0,

  "UserVoiceData":"Uk1GRka1CQBxQVZFZm10IBAAAAABAAEAgD4AAAB9AAACABAATElTVDQ
AAABJTkZPSU*",
  "SeqId":1,
  "IsEnd":0,
  "RefText":"by bus",
  "VoiceFileType":3,
  "VoiceEncodeType":1,
  "SessionId":"85552f20-6bcb-11ed-a4c1-acde48001122",
  "EvalMode":1,
  "ScoreCoeff":1.0
}
```

分片序号2 请求

```
{
  "WorkMode":0,
  "UserVoiceData":"AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA*",
  "SeqId":2,
  "IsEnd":0,
  "RefText":"by bus",
  "VoiceFileType":3,
  "VoiceEncodeType":1,
  "SessionId":"85552f20-6bcb-11ed-a4c1-acde48001122",
  "EvalMode":1,
  "ScoreCoeff":1.0
}
```

最后分片序号请求

```
{
  "WorkMode":1,
  "UserVoiceData":"AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA*",
  "SeqId":3,
  "IsEnd":1,
  "RefText":"by bus",
```

```
"VoiceFileType":3,
"VoiceEncodeType":1,
"SessionId":"85552f20-6bcb-11ed-a4c1-acde48001122",
"EvalMode":1,
"ScoreCoeff":1.0
}
```

返回结果

主要返回结果

参数名称	类型	描述
Status	String	评估 session 状态。Finished: 评估完成; Evaluating: 评估中

返回示例

每一次请求都会有响应的结果。只有当 Status 为 Finished 的时候才会最终结果。

中间结果1

```
{
  "Response":{
    "SuggestedScore":0,
    "PronAccuracy":0,
    "PronFluency":-1,
    "PronCompletion":0,
    "RequestId":"8c82a721-3163-496b-87a2-9e247159d20f",
    "Words":[
    ],
    "SessionId":"bb0e64c6-6bd3-11ed-9db2-acde48001122",
    "AudioUrl":"","
    "SentenceInfoSet":[
      {
        "SuggestedScore":0,
        "PronAccuracy":0,
        "PronFluency":-1,
        "PronCompletion":0,
        "Words":[
        ],
        "SentenceId":-1,
        "RefTextId":-1,

```

```

        "KeyWordHits": [
            ],
        "UnKeyWordHits": [
            ]
        }
    ],
    "Status": "Evaluating",
    "RefTextId": -1,
    "KeyWordHits": [
        ],
    "UnKeyWordHits": [
        ]
    ]
}
}

```

中间结果2

```

{
  "Response": {
    "SuggestedScore": 87.23038440298167,
    "PronAccuracy": 98.13418,
    "PronFluency": 0.88928545,
    "PronCompletion": 0.6666667,
    "RequestId": "6841d14b-1e26-400d-9cfb-7a26914eb67a",
    "Words": [
      {
        "MemBeginTime": 1140,
        "MemEndTime": 1630,
        "PronAccuracy": 96.12227,
        "PronFluency": 0.7536842,
        "ReferenceWord": "i_0",
        "Word": "i",
        "MatchTag": 0,
        "KeywordTag": 0,
        "PhoneInfos": [
          {
            "MemBeginTime": 1140,
            "MemEndTime": 1630,

```

```
        "PronAccuracy":96.12227,
        "DetectedStress":false,
        "Phone":"ay",
        "ReferencePhone":"","
        "ReferenceLetter":"","
        "Stress":false,
        "MatchTag":0
    }
]
},
{
    "MemBeginTime":1660,
    "MemEndTime":1920,
    "PronAccuracy":97.68817,
    "PronFluency":0.9448819,
    "ReferenceWord":"go_1",
    "Word":"go",
    "MatchTag":0,
    "KeywordTag":0,
    "PhoneInfos":[
        {
            "MemBeginTime":1660,
            "MemEndTime":1780,
            "PronAccuracy":98.64847,
            "DetectedStress":false,
            "Phone":"g",
            "ReferencePhone":"","
            "ReferenceLetter":"","
            "Stress":false,
            "MatchTag":0
        },
        {
            "MemBeginTime":1780,
            "MemEndTime":1920,
            "PronAccuracy":96.72788,
            "DetectedStress":false,
            "Phone":"ow",
            "ReferencePhone":"","
            "ReferenceLetter":"","
            "Stress":false,
            "MatchTag":0
        }
    ]
}
```

```
},
{
  "MemBeginTime":1920,
  "MemEndTime":2180,
  "PronAccuracy":98.834595,
  "PronFluency":0.94608915,
  "ReferenceWord":"to_2",
  "Word":"to",
  "MatchTag":0,
  "KeywordTag":0,
  "PhoneInfos":[
    {
      "MemBeginTime":1920,
      "MemEndTime":2020,
      "PronAccuracy":98.613686,
      "DetectedStress":false,
      "Phone":"t",
      "ReferencePhone":"","
      "ReferenceLetter":"","
      "Stress":false,
      "MatchTag":0
    },
    {
      "MemBeginTime":2020,
      "MemEndTime":2180,
      "PronAccuracy":99.05552,
      "DetectedStress":false,
      "Phone":"uw",
      "ReferencePhone":"","
      "ReferenceLetter":"","
      "Stress":false,
      "MatchTag":0
    }
  ]
},
{
  "MemBeginTime":2180,
  "MemEndTime":2820,
  "PronAccuracy":98.50996,
  "PronFluency":0.91248643,
  "ReferenceWord":"school_3",
  "Word":"school",
  "MatchTag":0,
```

```
"KeywordTag":0,
"PhoneInfos":[
  {
    "MemBeginTime":2180,
    "MemEndTime":2380,
    "PronAccuracy":98.58907,
    "DetectedStress":false,
    "Phone":"s",
    "ReferencePhone":"","
    "ReferenceLetter":"","
    "Stress":false,
    "MatchTag":0
  },
  {
    "MemBeginTime":2380,
    "MemEndTime":2500,
    "PronAccuracy":98.77323,
    "DetectedStress":false,
    "Phone":"k",
    "ReferencePhone":"","
    "ReferenceLetter":"","
    "Stress":false,
    "MatchTag":0
  },
  {
    "MemBeginTime":2500,
    "MemEndTime":2570,
    "PronAccuracy":98.623055,
    "DetectedStress":false,
    "Phone":"uw",
    "ReferencePhone":"","
    "ReferenceLetter":"","
    "Stress":false,
    "MatchTag":0
  },
  {
    "MemBeginTime":2570,
    "MemEndTime":2820,
    "PronAccuracy":98.05444,
    "DetectedStress":false,
    "Phone":"l",
    "ReferencePhone":"","
    "ReferenceLetter":"","
```

```
        "Stress":false,
        "MatchTag":0
    }
]
},
"SessionId":"bb0e64c6-6bd3-11ed-9db2-acde48001122",
"AudioUrl":"","
"SentenceInfoSet":[
    {
        "SuggestedScore":0,
        "PronAccuracy":98.13418,
        "PronFluency":0.88928545,
        "PronCompletion":0.6666667,
        "Words":[
            {
                "MemBeginTime":1140,
                "MemEndTime":1630,
                "PronAccuracy":96.12227,
                "PronFluency":0.7536842,
                "ReferenceWord":"i_0",
                "Word":"i",
                "MatchTag":0,
                "KeywordTag":0,
                "PhoneInfos":[
                    {
                        "MemBeginTime":1140,
                        "MemEndTime":1630,
                        "PronAccuracy":96.12227,
                        "DetectedStress":false,
                        "Phone":"ay",
                        "ReferencePhone":"","
                        "ReferenceLetter":"","
                        "Stress":false,
                        "MatchTag":0
                    }
                ]
            }
        ],
        {
            "MemBeginTime":1660,
            "MemEndTime":1920,
            "PronAccuracy":97.68817,
            "PronFluency":0.9448819,
```

```
"ReferenceWord": "go_1",
"Word": "go",
"MatchTag": 0,
"KeywordTag": 0,
"PhoneInfos": [
  {
    "MemBeginTime": 1660,
    "MemEndTime": 1780,
    "PronAccuracy": 98.64847,
    "DetectedStress": false,
    "Phone": "g",
    "ReferencePhone": "",
    "ReferenceLetter": "",
    "Stress": false,
    "MatchTag": 0
  },
  {
    "MemBeginTime": 1780,
    "MemEndTime": 1920,
    "PronAccuracy": 96.72788,
    "DetectedStress": false,
    "Phone": "ow",
    "ReferencePhone": "",
    "ReferenceLetter": "",
    "Stress": false,
    "MatchTag": 0
  }
]
},
{
  "MemBeginTime": 1920,
  "MemEndTime": 2180,
  "PronAccuracy": 98.834595,
  "PronFluency": 0.94608915,
  "ReferenceWord": "to_2",
  "Word": "to",
  "MatchTag": 0,
  "KeywordTag": 0,
  "PhoneInfos": [
    {
      "MemBeginTime": 1920,
      "MemEndTime": 2020,
      "PronAccuracy": 98.613686,
```



```
        "DetectedStress":false,
        "Phone":"t",
        "ReferencePhone":"","
        "ReferenceLetter":"","
        "Stress":false,
        "MatchTag":0
    },
    {
        "MemBeginTime":2020,
        "MemEndTime":2180,
        "PronAccuracy":99.05552,
        "DetectedStress":false,
        "Phone":"uw",
        "ReferencePhone":"","
        "ReferenceLetter":"","
        "Stress":false,
        "MatchTag":0
    }
]
},
{
    "MemBeginTime":2180,
    "MemEndTime":2820,
    "PronAccuracy":98.50996,
    "PronFluency":0.91248643,
    "ReferenceWord":"school_3",
    "Word":"school",
    "MatchTag":0,
    "KeywordTag":0,
    "PhoneInfos":[
        {
            "MemBeginTime":2180,
            "MemEndTime":2380,
            "PronAccuracy":98.58907,
            "DetectedStress":false,
            "Phone":"s",
            "ReferencePhone":"","
            "ReferenceLetter":"","
            "Stress":false,
            "MatchTag":0
        },
        {
            "MemBeginTime":2380,
```

```
        "MemEndTime":2500,
        "PronAccuracy":98.77323,
        "DetectedStress":false,
        "Phone":"k",
        "ReferencePhone":"","
        "ReferenceLetter":"","
        "Stress":false,
        "MatchTag":0
    },
    {
        "MemBeginTime":2500,
        "MemEndTime":2570,
        "PronAccuracy":98.623055,
        "DetectedStress":false,
        "Phone":"uw",
        "ReferencePhone":"","
        "ReferenceLetter":"","
        "Stress":false,
        "MatchTag":0
    },
    {
        "MemBeginTime":2570,
        "MemEndTime":2820,
        "PronAccuracy":98.05444,
        "DetectedStress":false,
        "Phone":"l",
        "ReferencePhone":"","
        "ReferenceLetter":"","
        "Stress":false,
        "MatchTag":0
    }
]
}
],
"SentenceId":-1,
"RefTextId":-1,
"KeyWordHits":[
],
"UnKeyWordHits":[
]
}
```

```

    ],
    "Status": "Evaluating",
    "RefTextId": -1,
    "KeyWordHits": [

    ],
    "UnKeyWordHits": [

    ]
}
}

```

最终结果

```

{
  "Response": {
    "SuggestedScore": 87.23038440298167,
    "PronAccuracy": 98.13418,
    "PronFluency": 0.88928545,
    "PronCompletion": 0.6666667,
    "RequestId": "6841d14b-1e26-400d-9cfb-7a26914eb67a",
    "Words": [
      {
        "MemBeginTime": 1140,
        "MemEndTime": 1630,
        "PronAccuracy": 96.12227,
        "PronFluency": 0.7536842,
        "ReferenceWord": "i_0",
        "Word": "i",
        "MatchTag": 0,
        "KeywordTag": 0,
        "PhoneInfos": [
          {
            "MemBeginTime": 1140,
            "MemEndTime": 1630,
            "PronAccuracy": 96.12227,
            "DetectedStress": false,
            "Phone": "ay",
            "ReferencePhone": "",
            "ReferenceLetter": "",
            "Stress": false,
            "MatchTag": 0
          }
        ]
      }
    ]
  }
}

```

```
    }
  ]
},
{
  "MemBeginTime":1660,
  "MemEndTime":1920,
  "PronAccuracy":97.68817,
  "PronFluency":0.9448819,
  "ReferenceWord":"go_1",
  "Word":"go",
  "MatchTag":0,
  "KeywordTag":0,
  "PhoneInfos":[
    {
      "MemBeginTime":1660,
      "MemEndTime":1780,
      "PronAccuracy":98.64847,
      "DetectedStress":false,
      "Phone":"g",
      "ReferencePhone":"","
      "ReferenceLetter":"","
      "Stress":false,
      "MatchTag":0
    },
    {
      "MemBeginTime":1780,
      "MemEndTime":1920,
      "PronAccuracy":96.72788,
      "DetectedStress":false,
      "Phone":"ow",
      "ReferencePhone":"","
      "ReferenceLetter":"","
      "Stress":false,
      "MatchTag":0
    }
  ]
},
{
  "MemBeginTime":1920,
  "MemEndTime":2180,
  "PronAccuracy":98.834595,
  "PronFluency":0.94608915,
  "ReferenceWord":"to_2",
```

```
"Word": "to",
"MatchTag": 0,
"KeywordTag": 0,
"PhoneInfos": [
  {
    "MemBeginTime": 1920,
    "MemEndTime": 2020,
    "PronAccuracy": 98.613686,
    "DetectedStress": false,
    "Phone": "t",
    "ReferencePhone": "",
    "ReferenceLetter": "",
    "Stress": false,
    "MatchTag": 0
  },
  {
    "MemBeginTime": 2020,
    "MemEndTime": 2180,
    "PronAccuracy": 99.05552,
    "DetectedStress": false,
    "Phone": "uw",
    "ReferencePhone": "",
    "ReferenceLetter": "",
    "Stress": false,
    "MatchTag": 0
  }
]
},
{
  "MemBeginTime": 2180,
  "MemEndTime": 2820,
  "PronAccuracy": 98.50996,
  "PronFluency": 0.91248643,
  "ReferenceWord": "school_3",
  "Word": "school",
  "MatchTag": 0,
  "KeywordTag": 0,
  "PhoneInfos": [
    {
      "MemBeginTime": 2180,
      "MemEndTime": 2380,
      "PronAccuracy": 98.58907,
      "DetectedStress": false,
```

```
    "Phone": "s",
    "ReferencePhone": "",
    "ReferenceLetter": "",
    "Stress": false,
    "MatchTag": 0
  },
  {
    "MemBeginTime": 2380,
    "MemEndTime": 2500,
    "PronAccuracy": 98.77323,
    "DetectedStress": false,
    "Phone": "k",
    "ReferencePhone": "",
    "ReferenceLetter": "",
    "Stress": false,
    "MatchTag": 0
  },
  {
    "MemBeginTime": 2500,
    "MemEndTime": 2570,
    "PronAccuracy": 98.623055,
    "DetectedStress": false,
    "Phone": "uw",
    "ReferencePhone": "",
    "ReferenceLetter": "",
    "Stress": false,
    "MatchTag": 0
  },
  {
    "MemBeginTime": 2570,
    "MemEndTime": 2820,
    "PronAccuracy": 98.05444,
    "DetectedStress": false,
    "Phone": "l",
    "ReferencePhone": "",
    "ReferenceLetter": "",
    "Stress": false,
    "MatchTag": 0
  }
]
}
],
"SessionId": "bb0e64c6-6bd3-11ed-9db2-acde48001122",
```

```
    "AudioUrl": "",
    "Status": "Evaluating",
    "RefTextId": -1,
    "KeyWordHits": [

    ],
    "UnKeyWordHits": [

    ]
  }
}
```

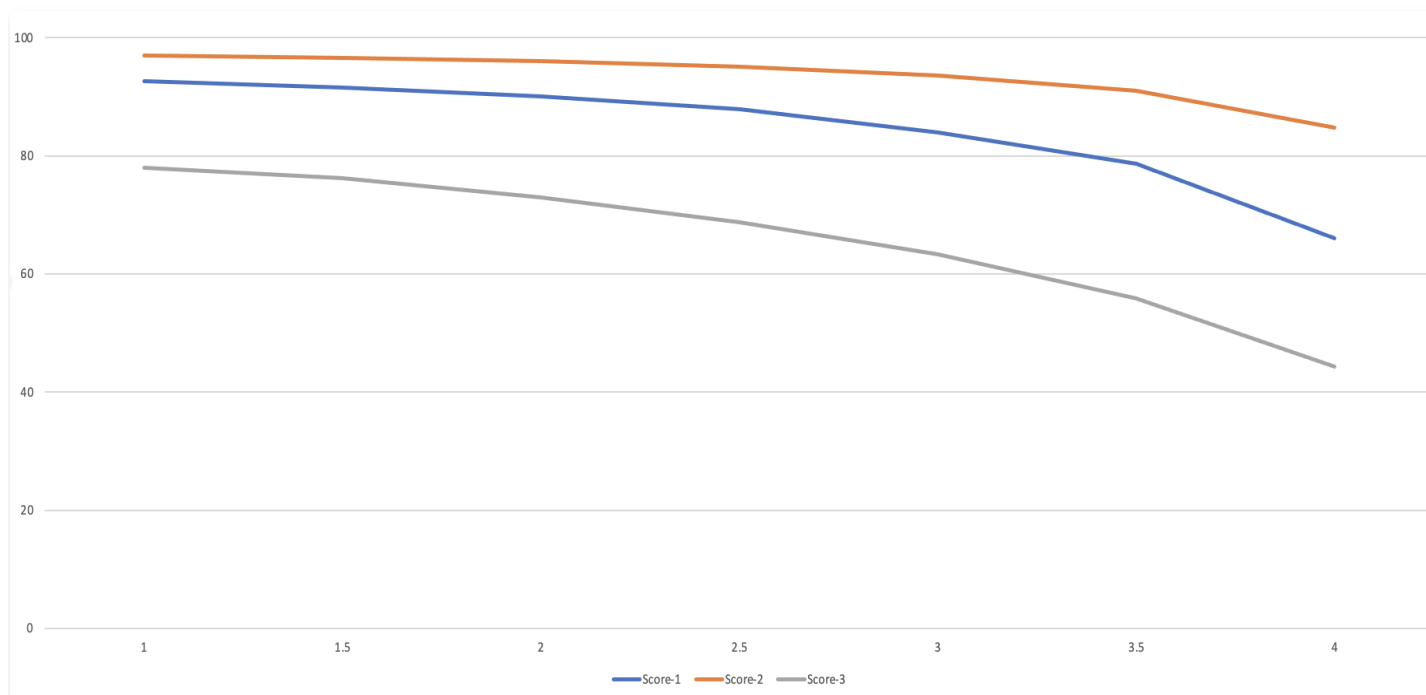
苛刻指数介绍

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设置不同的苛刻度，对应不同年龄段。

影响范围

取三段不同的数据，苛刻度在1.0 - 4.0之间的变化曲线如下所示：



按需设值

具体需要设置值，可以根据反馈情况，收集音频数据进行打分对比，调整为更符合的苛刻度。

请求参数

参数名称	类型	描述
scorecoeff	float	苛刻度指数

请求示例

```
{
  "ScoreCoeff": 1.2,
  "WorkMode": 1,
  "UserVoiceData": "UklGRka1CQBxQVZFZm10IBAAAAABAAEAgD4AAAB9AAACABAATElTVDQ"
```



```
AAABJTkZPSUNSRBEAAAAYMDIxLTA3LTAxIDEzOjQzAABJU0ZUDgAAAE*",  
  "SeqId":1,  
  "IsEnd":1,  
  "RefText":"hello",  
  "VoiceFileType":3,  
  "VoiceEncodeType":1,  
  "SessionId":"test_213254",  
  "EvalMode":0,  
}
```

业务应用 ID 介绍

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为了区分不同的业务，需要使用不同的业务应用 ID 来区分。例如同一家公司，不同的产品，不同的应用平台，不同地域划分。需要在 [应用管理控制台](#) 新建应用，新建应用内容根据需要填写。不填写为 default。

系统设置

[帮助文档](#)

应用管理

[资源管理](#)[新建应用](#)

应用列表

应用名称	SOEAPPID	应用平台	应用简介	创建时间	操作
soe_	soe_	WebAPI			编辑 删除
默认应用	default	尚未设置			编辑

请求参数

参数名称	类型	描述
SoeAppId	String	业务应用 ID

请求示例

```
{
  "SoeAppId": "soe_xxx",
  "WorkMode": 1,
  "UserVoiceData": "Uk1GRka1CQBxQVZFZm10IBAAAAABAEEAgD4AAAB9AAACABAATE1TVDQAAABJTkZPSUNSRBEAAAyMDIxLTA3LTAxIDEzOjQzAABJU0ZUDgAAAE*",
  "SeqId": 1,
  "IsEnd": 1,
  "RefText": "hello",
  "VoiceFileType": 3,
  "VoiceEncodeType": 1,
```

```
"sessionId": "test_213254",  
"evalMode": 0,  
"scoreCoeff": 1.0  
}
```

音频存储路径

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使用场景

使用智聆口语评测（新版）服务后，期望将用户音频上传至对象存储桶内，便于后续跨端播放、分析等操作。

⚠ 注意：

本产品仅将音频数据存储到当前账号的对象存储桶内，实际存储与下载产生的费用由 [对象存储（Clous Object Storage）](#) 收取，详见 [计费概述](#)。

对象存储配置

1. 进入 [对象存储控制台](#) 开通服务。如果未注册账号可以参考对象存储 [控制台快速入门](#)。
2. 单击导航栏左侧 [存储桶列表](#)，进入存储桶列表页面，选择 [创建存储桶](#)。
3. 在弹出的创建存储桶对话框中，配置如下信息。具体说明请参见 [创建存储桶](#)。

创建存储桶

1 基本信息 > 2 高级可选配置 > 3 确认配置

所属地域

存储桶与相同地域的其他腾讯云服务内网互通；**创建后地域无法修改**，请您谨慎选择。

名称 *

还能输入 8 个字符，支持小写字母、数字和 -；**创建后名称无法修改**。

访问权限 私有读写 公有读私有写 **高风险** 公有读写 **高风险**

身份验证后，可对对象进行访问操作；您可通过 [设置访问权限](#) 给用户授权

请求域名

创建完成后，您可以使用该域名对存储桶进行访问

4. 创建存储桶后，可在存储桶列表界面选择 [配置管理](#)。

examplebucket-12	指定用户	广州（中国）（ap-guangzhou）	2022-07-19 18:18:44	监控 配置管理 更多
examplebucket-ci-12	指定用户	广州（中国）（ap-guangzhou）	2022-08-15 16:39:42	监控 配置管理 更多

5. 在存储桶的配置管理页面，进入**概览 > 域名信息**中可以获取到**访问域名**。

域名信息

访问域名	ap-guangzhou.myqcloud.com	使用访问域名进行内网访问
自定义CDN加速域名	0条	
自定义源站域名	0条	
全球加速域名	未开启	
静态网站域名	未开启	

注：COS 的访问域名使用了智能 DNS 解析，如果您在腾讯云内部署了服务用于访问 COS，则同地域范围内访问将会自动被指向到内网地址。跨地域暂不支持内网访问，默认将会解析到外网地址。有关内网与外网访问的相关信息，详情请参见 [创建请求概述](#) 文档。

6. 在左侧导航栏中，选择**文件列表**，进入文件列表页面，然后单击**创建文件夹**。

[上传文件](#) [创建文件夹](#) [文件碎片](#) [清空存储桶](#) [更多操作](#)

请输入前缀进行搜索，只支持搜索当前虚拟目录下的对象 [刷新](#) 共 4 个文件

7. 在弹出的窗口中，输入文件夹名称，单击**确定**即可。文件夹可用于区分不同类型的文件。

新建文件夹

文件夹名 * [?](#)

[确定](#) [取消](#)

智聆口语评测（New Age）配置

1, 需要在访问管理控制台，同意 [服务授权](#)，才可以将音频数据存储到cos桶里面。

2, 在请求参数中设置 **COSBucketURL**，可以使用**访问域名**，将直接存储到存储桶根目录。如果需要存储到对应文件夹中，可以使用**访问域名 + 文件夹名**。路径格式为 **`\${bucket-name}-\${appid}.cos.\${region}.myqcloud.com/\${folder}**，例：

`https://xxx-xxxxxx.cos.ap-guangzhou.myqcloud.com/doc`。如果文件夹名不存在，将会在智聆口语评测成功调用后，创建文件夹。

音频存储路径获取

1. 通过在调用智聆口语评测时设置 **COSBucketURL**，音频数据将存储到对应存储桶中。文件名输出格式为 **`${appid}_${session-id}.mp3/wav/spx/pcm`**，输出格式所需数据将从输入参数中获取，文件后缀名根据 **VoiceFileType** 的值进行判断。
2. 在对应存储桶的文件列表中，单击**详情**，进入**对象详情**页面。



3. 在**基本信息**中可以查看**对象地址**，对象地址格式为 **`${bucket-name}-${appid}.cos.${region}.myqcloud.com/${folder}/${appid}_${session-id}.mp3/wav/spx/pcm`**。也可通过自定义域名等方式获取对象地址。



返回结果说明

概述

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文档索引	涉及字段
评测维度	SuggestedScore, PronAccuracy, PronFluency, PronCompletion, MatchTag, Word, ReferenceWord
主题词和关键词	KeywordTag, RefTextId, KeyWordHits, UnKeyWordHits, PronCompletion
重音检测	Stress, DetectedStress
参考音素	Phone, ReferencePhone
音素到字母映射	Phone, ReferenceLetter

评测维度

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建议评分

建议评分，取值范围[0,100]，评分方式为建议评分 = 精准度 (PronAccuracy) × 完整度 (PronCompletion) × (2 - 完整度 (PronCompletion))，如若评分策略不符合请参考 Words 数组中的详细分数自定义评分逻辑。

评测模式	建议评分
句子模式 段落模式 句子多分支模式	精准度 (PronAccuracy) × 完整度 (PronCompletion) × (2 - 完整度 (PronCompletion))
单词评测模式 单词纠错模式 拼音模式	取精准度评分即可
自由说评测 情景评测模式	可能需要根据返回结果进一步计算。若无相关需求，自由说模式可以取精准度；情景评测模式当切题度 (PronCompletion) 为1时，取精准度。当切题度 (PronCompletion) 为-1时，评分为0
单词实时评测	取中间结果 (SentenceInfo) 的精准度

精准度

发音精准度 (PronAccuracy) 的评判标准是在参照了标准发音以及语音库同种发音对比的前提下，综合参照元音字母以及组合在不同音节中的不同读法、辅音以及成音节的读音、单词重音、句子重音等不同的发音指标，给出发音精准度的得分。总精准度是所有**匹配单词**的平均值。

流利度

发音流利度指标是根据发音是否通顺给出基础进行打分，并考虑发音变化中连读、失去爆破、弱读、同化的表达，综合参照语调和节奏中意群与停顿、语调、节奏的发音情况，给出流利度的得分。总流利度是所有**匹配单词**的平均值。

完整度

发音完整度指标是根据发音识别文本与上传 RefText 文本的对比，是所有**匹配单词**占RefText 文本长度的比值。

匹配情况

MatchTag 表示当前音频数据的词和当前文本词的匹配情况。0：匹配单词、1：新增单词、2：缺少单词、3：错读的词、4：未录入单词。

当前词与参考词

智聆口语评测进行评测的时候会对文本进行处理，参考 [评估文本介绍](#)，处理后会按照当前词（Word）来进行评测，原始文本可以参考（ReferenceWord）。

评测示例

请求参数

```
{
  "RefText": "1st, wakey i go to school by bus", # 评估文本
  "EvalMode": 1,
  "ServerType": 0, # 英文
  "WorkMode": 1,

  "UserVoiceData": "UklGRka1CQBXQVZFZm10IBAAAAABAAEAgD4AAAB9AAACABAATElTVDQ
AAABJTkZPSUNSRBEAAAAYMDIxLTA3LTAxIDEzOjQzAABJU0ZUDgAAAE*",
  "SeqId": 1,
  "IsEnd": 1,
  "VoiceFileType": 3,
  "VoiceEncodeType": 1,
  "SessionId": "63b5-1669258119839-39805",
  "ScoreCoeff": 1.0
}
```

返回结果

```
{
  "SuggestedScore": 55.60814442127508,
  "PronAccuracy": 60.55109,
  "PronFluency": 0.6258079,
  "PronCompletion": 0.71428573,
  "RequestId": "6b200550-1b6d-4b2e-b7dc-5d36987ce674",
  "Words": [
    {
      "MemBeginTime": 1180,
      "MemEndTime": 2160,
    }
  ]
}
```

```
"PronAccuracy":-1,
"PronFluency":0,
"ReferenceWord":"*",
"Word":"*",
"MatchTag":1,
"KeywordTag":0,
"PhoneInfos":[

]
},
{
  "MemBeginTime":2350,
  "MemEndTime":3000,
  "PronAccuracy":68.41866,
  "PronFluency":0.9145138,
  "ReferenceWord":"1st_0",
  "Word":"first",
  "MatchTag":0,
  "KeywordTag":0,
  "PhoneInfos":Array[4]
},
{
  "MemBeginTime":3200,
  "MemEndTime":3830,
  "PronAccuracy":28.755983,
  "PronFluency":0.926236,
  "ReferenceWord":"wakey_2",
  "Word":"wakey",
  "MatchTag":4,
  "KeywordTag":0,
  "PhoneInfos":Array[5]
},
{
  "MemBeginTime":4340,
  "MemEndTime":4740,
  "PronAccuracy":10.808663,
  "PronFluency":0.80941176,
  "ReferenceWord":"i_3",
  "Word":"i",
  "MatchTag":0,
  "KeywordTag":0,
  "PhoneInfos":Array[1]
},
```

```
{
  "MemBeginTime":4740,
  "MemEndTime":5460,
  "PronAccuracy":46.60009,
  "PronFluency":0.7008089,
  "ReferenceWord":"go_4",
  "Word":"go",
  "MatchTag":0,
  "KeywordTag":0,
  "PhoneInfos":Array[2]
},
{
  "MemBeginTime":5460,
  "MemEndTime":5780,
  "PronAccuracy":94.1383,
  "PronFluency":0.91764176,
  "ReferenceWord":"to_5",
  "Word":"to",
  "MatchTag":0,
  "KeywordTag":0,
  "PhoneInfos":Array[2]
},
{
  "MemBeginTime":5780,
  "MemEndTime":6550,
  "PronAccuracy":95.0449,
  "PronFluency":0.8820709,
  "ReferenceWord":"school_6",
  "Word":"school",
  "MatchTag":0,
  "KeywordTag":0,
  "PhoneInfos":Array[4]
},
{
  "MemBeginTime":6550,
  "MemEndTime":6550,
  "PronAccuracy":-1,
  "PronFluency":0,
  "ReferenceWord":"by_7",
  "Word":"by",
  "MatchTag":2,
  "KeywordTag":0,
  "PhoneInfos":[
```

```
    ]
  },
  {
    "MemBeginTime":6550,
    "MemEndTime":6550,
    "PronAccuracy":-1,
    "PronFluency":0,
    "ReferenceWord":"bus_8",
    "Word":"bus",
    "MatchTag":2,
    "KeywordTag":0,
    "PhoneInfos":[

    ]
  }
],
"SessionId":"63b5-1669258119839-39805",
>Status:"Finished",
}
```

返回结果解析

音频发音内容为 hello first wakey i want to school。

- **hello**: 由于评估文本中未存在这个单词，所以不会进行评测，此时 MatchTag 为1，Word为*。
- **first**: 对应原文本 1st，此时 MatchTag 为0。评估的当前词 Word 为 first，评估文本参考词 ReferenceWord 为 1st_0。表示 1st 的下标为 0。
- **wakey**: 此时 MatchTa 为4，由于该单词不属于常见词，所以我们暂未录入。一般情况下会尝试进行发音评测，如果不符合可以通过 [音素标注](#)。此时 Word 为 wakey，ReferenceWord 为 wakey_2。一般情况下标点符号不参与评测，但是会站位，所以此时表示wakey的下标为2，而不是1。
- **i want to school**: 与评估文本 i go to school 有出入，但是此时 MatchTag 为0。评分偏低情况下，可以认为是错读的情况。
- **by bus**: 此时 MatchTag 为2，由于未读该内容所以缺少单词。

总精准度只会计算当前词 MatchTag 为0的精准度的平均值。

完整度也只会计算当前词 MatchTag 为0的完整度。评估文本中虽然有8个单词，但是由于 wakey 是不在字典里面，MatchTag 为4。所以实际只有7个单词，MatchTag 为0的有5个单词，所以最终完整度为5/7。

英文评测模式

单词评测模式

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评测模式描述

- 评测要求：支持单词，组合词评测。音频时长最长60秒。
- 评测维度：支持返回单词精准度，流利度；支持返回音素精准度。
- 评测功能：支持重音检测，原始单词，音素到字母映射，音素到国际音标转换，指定发音，指定国际音标。

请求参数

主要请求参数说明：

参数名称	类型	描述
RefText	String	被评估文本。支持单词，组合词，缩写
EvalMode	Integer	评估模式。0：单词评测模式
ServerType	Integer	评估语言。0：英文

请求示例

```
{
  "RefText": "Chinese",
  "EvalMode": 0,
  "ServerType": 0,
  "WorkMode": 1,
  "UserVoiceData": "UklGRka1CQBxQVZFZm10IBAAAAABAAQzAABJU0ZUDgAAAE*",
  "SeqId": 1,
  "IsEnd": 1,
  "VoiceFileType": 3,
  "VoiceEncodeType": 1,
  "SessionId": "8fde-1668677271201-87656",
  "ScoreCoeff": 1.0
}
```

返回结果

主要返回结果说明：

参数名称	类型	描述
SuggestedScore	Integer	建议评分
PronAccuracy	Integer	整体精准度
PronFluency	Integer	整体流利度
Words.PronAccuracy	Integer	单词精准度
Words.PronFluency	Integer	单词流利度
Words.PhoneInfos.PronAccuracy	Integer	音素精准度
Words.PhoneInfos.Stress	Boolean	当前评估文本对应音素是否为重音
Words.PhoneInfos.DetectedStress	Boolean	当前音频数据对应音素是否为重音

返回示例

```
{
  "SuggestedScore":96.90857,
  "PronAccuracy":96.90857,
  "PronFluency":0.8866854,
  "PronCompletion":1,
  "RequestId":"7f1b9ea1-afc2-43fe-8c8d-497de18d86e4",
  "Words":[
    {
      "MemBeginTime":880,
      "MemEndTime":1660,
      "PronAccuracy":96.90857,
      "PronFluency":0.8866854,
      "ReferenceWord":"chinese_0",
      "Word":"chinese",
      "MatchTag":0,
      "KeywordTag":0,
      "PhoneInfos":[
        {
          "MemBeginTime":880,
          "MemEndTime":1060,
          "PronAccuracy":97.13047,
          "DetectedStress":false,
```

```
    "Phone": "ch",
    "ReferencePhone": "",
    "ReferenceLetter": "",
    "Stress": false,
    "MatchTag": 0
  },
  {
    "MemBeginTime": 1060,
    "MemEndTime": 1230,
    "PronAccuracy": 97.7727,
    "DetectedStress": false,
    "Phone": "ay",
    "ReferencePhone": "",
    "ReferenceLetter": "",
    "Stress": false,
    "MatchTag": 0
  },
  {
    "MemBeginTime": 1230,
    "MemEndTime": 1320,
    "PronAccuracy": 98.01649,
    "DetectedStress": true,
    "Phone": "n",
    "ReferencePhone": "",
    "ReferenceLetter": "",
    "Stress": true,
    "MatchTag": 0
  },
  {
    "MemBeginTime": 1320,
    "MemEndTime": 1460,
    "PronAccuracy": 97.92693,
    "DetectedStress": false,
    "Phone": "iy",
    "ReferencePhone": "",
    "ReferenceLetter": "",
    "Stress": false,
    "MatchTag": 0
  },
  {
    "MemBeginTime": 1460,
    "MemEndTime": 1660,
    "PronAccuracy": 93.69628,
```

```
        "DetectedStress":false,  
        "Phone":"z",  
        "ReferencePhone":"","  
        "ReferenceLetter":"","  
        "Stress":false,  
        "MatchTag":0  
      }  
    ]  
  }  
],  
  "SessionId":"8fde-1668677271201-87656",  
  "Status":"Finished",  
}
```

原始单词

数字类型使用英文评测会转换为对应英文单词，可在对应返回字段获取原始数字以及单词下标。

请求参数

主要请求参数说明：

参数名称	类型	描述
RefText	String	被评估文本
EvalMode	Integer	评估模式。0：单词评测模式
ServerType	Integer	评估语言。0：英文

请求示例

```
{  
  "RefText": "1",  
  "EvalMode": 0,  
  "ServerType": 0,  
  "WorkMode": 1,  
  
  "UserVoiceData": "Uk1GRka1CQBXQVZFZMIDIxLTA3LTAxIDEzOjQzAABJU0ZUDgAAAE*",  
  "SeqId": 1,  
  "IsEnd": 1,  
  "VoiceFileType": 3,  
  "VoiceEncodeType": 1,  
  "SessionId": "f152-1668742248341-99106",  
}
```



```
"ScoreCoeff":1.0
}
```

返回结果

主要返回结果说明：

参数名称	类型	描述
Words.Word	String	当前词
Words.ReferenceWord	String	原始单词

返回示例

```
{
  "SuggestedScore":94.499275,
  "PronAccuracy":94.499275,
  "PronFluency":0.9046501,
  "PronCompletion":1,
  "RequestId":"46ecfe3f-17c9-4ef5-9be6-78c510de8d1e",
  "Words":[
    {
      "MemBeginTime":1020,
      "MemEndTime":1500,
      "PronAccuracy":94.499275,
      "PronFluency":0.9046501,
      "ReferenceWord":"1_0",
      "Word":"one",
      "MatchTag":0,
      "KeywordTag":0,
      "PhoneInfos":[
        {
          "MemBeginTime":1020,
          "MemEndTime":1110,
          "PronAccuracy":91.930374,
          "DetectedStress":false,
          "Phone":"hh",
          "ReferencePhone":"","",
          "ReferenceLetter":"","",
          "Stress":false,
          "MatchTag":0
        },
        {

```

```
      "MemBeginTime":1110,
      "MemEndTime":1290,
      "PronAccuracy":95.30409,
      "DetectedStress":false,
      "Phone":"w",
      "ReferencePhone":"","
      "ReferenceLetter":"","
      "Stress":false,
      "MatchTag":0
    },
    {
      "MemBeginTime":1290,
      "MemEndTime":1430,
      "PronAccuracy":96.1299,
      "DetectedStress":false,
      "Phone":"ah",
      "ReferencePhone":"","
      "ReferenceLetter":"","
      "Stress":false,
      "MatchTag":0
    },
    {
      "MemBeginTime":1430,
      "MemEndTime":1500,
      "PronAccuracy":94.63274,
      "DetectedStress":false,
      "Phone":"n",
      "ReferencePhone":"","
      "ReferenceLetter":"","
      "Stress":false,
      "MatchTag":0
    }
  ]
}
],
"SessionId":"f152-1668742248341-99106",
"SentenceInfoSet":Array[1],
"Status":"Finished",
}
```

音素到字母映射

通过该功能，可以对音素映射字母进行标记。音素到字母映射结构：`::cmd{F_P2L=true}` + 评估文本。

请求参数

主要请求参数说明：

参数名称	类型	描述
RefText	String	被评估文本。
EvalMode	Integer	评估模式。0：单词评测模式
ServerType	Integer	评估语言。0：英文

请求示例

```
{
  "RefText": "{::cmd{F_P2L=true}} pig",
  "EvalMode": 0,
  "ServerType": 0,
  "WorkMode": 1,

  "UserVoiceData": "Uk1GRka1CQBxQVZFZm10IBAAAAABAATA3LTAxIDEzOjQzAABJU0ZUDg
AAAE*",
  "SeqId": 1,
  "IsEnd": 1,
  "VoiceFileType": 3,
  "VoiceEncodeType": 1,
  "SessionId": "fbe89fc2-63ed-11ed-9f56-acde48001122",
  "ScoreCoeff": 1.0
}
```

返回结果

主要返回结果说明：

参数名称	类型	描述
Words.Word	String	当前单词
Words.PhoneInfos.Phone	String	当前单词的音素
Words.PhoneInfos.ReferenceLetter	String	当前单词的音素映射的字母

返回示例

```
{
  "PronAccuracy":3.0562108,
  "PronFluency":0.74622995,
  "PronCompletion":1,
  "Words":[
    {
      "MemBeginTime":50,
      "MemEndTime":830,
      "PronAccuracy":3.0562108,
      "PronFluency":0.74622995,
      "Word":"pig",
      "MatchTag":0,
      "PhoneInfos":[
        {
          "MemBeginTime":50,
          "MemEndTime":250,
          "PronAccuracy":4.958462,
          "DetectedStress":false,
          "Phone":"p",
          "Stress":false,
          "ReferencePhone":"",
          "MatchTag":0,
          "ReferenceLetter":"p_0"
        },
        {
          "MemBeginTime":250,
          "MemEndTime":720,
          "PronAccuracy":0.17926057,
          "DetectedStress":false,
          "Phone":"ih",
          "Stress":false,
          "ReferencePhone":"",
          "MatchTag":0,
          "ReferenceLetter":"i_1"
        },
        {
          "MemBeginTime":720,
          "MemEndTime":830,
          "PronAccuracy":4.0309095,
          "DetectedStress":false,
          "Phone":"g",
          "Stress":false,
```

```
        "ReferencePhone": "",
        "MatchTag": 0,
        "ReferenceLetter": "g_2"
    }
],
"ReferenceWord": "pig_0",
}
],
"SessionId": "fbe89fc2-63ed-11ed-9f56-acde48001122",
"Status": "Finished",
"SuggestedScore": 3.0562108,
"RequestId": "3cbfb134-9630-4029-8a4a-bf57c2a761d5"
}
```

音素到国际音标转换

返回音素默认为智聆音素，使用 `{::cmd{F_IPA=true}}` + 单词 开启 音素到国际 音标转换功能。

请求参数

主要请求参数说明：

参数名称	类型	描述
RefText	String	被评估文本。
EvalMode	Integer	评估模式。0：单词评测模式
ServerType	Integer	评估语言。0：英文

请求示例

```
{
  "RefText": "{::cmd{F_IPA=true}}happy",
  "EvalMode": 0,
  "ServerType": 0,
  "WorkMode": 1,
  "UserVoiceData": "Uk1GRka1CQBXQVZFZm10IBAAAAABAAE*",
  "SeqId": 1,
  "IsEnd": 1,
  "VoiceFileType": 3,
  "VoiceEncodeType": 1,
  "SessionId": "ca0cb65e-694d-11ed-b467-acde48001122",
  "ScoreCoeff": 1.0
}
```

```
}
```

返回结果

返回结果说明：

参数名称	类型	描述
Words.PhoneInfos.Phone	Integer	当前音节

返回示例

```
{
  "PronAccuracy": 96.829666,
  "PronFluency": 0.82233715,
  "PronCompletion": 1,
  "Words": [
    {
      "MemBeginTime": 0,
      "MemEndTime": 790,
      "PronAccuracy": 96.829666,
      "PronFluency": 0.82233715,
      "Word": "happy",
      "MatchTag": 0,
      "PhoneInfos": [
        {
          "MemBeginTime": 0,
          "MemEndTime": 200,
          "PronAccuracy": 94.31433,
          "DetectedStress": true,
          "Phone": "'h",
          "Stress": true,
          "ReferencePhone": "",
          "MatchTag": 0,
          "ReferenceLetter": ""
        },
        {
          "MemBeginTime": 200,
          "MemEndTime": 390,
          "PronAccuracy": 95.81154,
          "DetectedStress": false,
          "Phone": "æ",
          "Stress": false,
```

```
    "ReferencePhone": "",
    "MatchTag": 0,
    "ReferenceLetter": ""
  },
  {
    "MemBeginTime": 390,
    "MemEndTime": 620,
    "PronAccuracy": 98.16035,
    "DetectedStress": false,
    "Phone": "p",
    "Stress": false,
    "ReferencePhone": "",
    "MatchTag": 0,
    "ReferenceLetter": ""
  },
  {
    "MemBeginTime": 620,
    "MemEndTime": 790,
    "PronAccuracy": 99.03245,
    "DetectedStress": false,
    "Phone": "i",
    "Stress": false,
    "ReferencePhone": "",
    "MatchTag": 0,
    "ReferenceLetter": ""
  }
],
"ReferenceWord": "happy_0",
"KeywordTag": 0,
"Tone": {
  "Valid": false,
  "RefTone": -1,
  "HypothesisTone": -1
}
},
"SessionId": "7eb8c1a2-2b8a-11ee-b529-acde48001122",
"AudioUrl": "",
"SentenceInfoSet": [],
"Status": "Finished",
"SuggestedScore": 96.829666,
"RefTextId": -1,
"KeyWordHits": [],
```

```
"UnKeywordHits": [],  
"RequestId": "476b812e-487c-4709-b0d9-ec3b745c9eb0"  
}
```

指定发音

使用 `单词{::pron{p1,p2..},{p3,p4..}..}` 指定发音，需要将国际音标通过音素映射表转换为智聆音素，参考 [音素映射表 -- 智聆音素](#)。

请求参数

主要请求参数说明：

参数名称	类型	描述
RefText	String	被评估文本。
EvalMode	Integer	评估模式。0：单词评测模式
ServerType	Integer	评估语言。0：英文

请求示例

音标

```
{  
  "RefText": "au{::pron{aw}}",  
  "EvalMode": 0,  
  "ServerType": 0,  
  "WorkMode": 1,  
  "UserVoiceData": "UklGRka1CQBxQVZFZm10IBAAAAABAAE*",  
  "SeqId": 1,  
  "IsEnd": 1,  
  "VoiceFileType": 3,  
  "VoiceEncodeType": 1,  
  "SessionId": "ca0cb65e-694d-11ed-b467-acde48001122",  
  "ScoreCoeff": 1.0  
}
```

单词

```
{  
  "RefText": "happy{::pron{hh,ae,p,iy}}",  
}
```



```
"EvalMode": 0,
"ServerType": 0,
"WorkMode": 1,
"UserVoiceData": "UklGRka1CQBxQVZFZm10IBAAAAABAAE*",
"SeqId": 1,
"IsEnd": 1,
"VoiceFileType": 3,
"VoiceEncodeType": 1,
"SessionId": "ca0cb65e-694d-11ed-b467-acde48001122",
"ScoreCoeff": 1.0
}
```

多音词

```
{
  "RefText": "use{::pron{y,uw,z},{y,uw,s}}",
  "EvalMode": 0,
  "ServerType": 0,
  "WorkMode": 1,
  "UserVoiceData": "UklGRka1CQBxQVZFZm10IBAAAAABAAE*",
  "SeqId": 1,
  "IsEnd": 1,
  "VoiceFileType": 3,
  "VoiceEncodeType": 1,
  "SessionId": "ca0cb65e-694d-11ed-b467-acde48001122",
  "ScoreCoeff": 1.0
}
```

返回结果

主要返回结果说明：

参数名称	类型	描述
SuggestedScore	Integer	建议评分
PronAccuracy	Integer	整体精准度
PronFluency	Integer	整体流利度
Words.PronAccuracy	Integer	单词精准度
Words.PronFluency	Integer	单词流利度

Words.PhoneInfos.PronAccuracy	Integer	音素精准度
-------------------------------	---------	-------

返回示例

```
{
  "PronAccuracy": 96.829666,
  "PronFluency": 0.82233715,
  "PronCompletion": 1,
  "Words": [
    {
      "MemBeginTime": 0,
      "MemEndTime": 790,
      "PronAccuracy": 96.829666,
      "PronFluency": 0.82233715,
      "Word": "happy",
      "MatchTag": 0,
      "PhoneInfos": [
        {
          "MemBeginTime": 0,
          "MemEndTime": 200,
          "PronAccuracy": 94.31433,
          "DetectedStress": true,
          "Phone": "hh",
          "Stress": true,
          "ReferencePhone": "",
          "MatchTag": 0,
          "ReferenceLetter": ""
        },
        {
          "MemBeginTime": 200,
          "MemEndTime": 390,
          "PronAccuracy": 95.81155,
          "DetectedStress": false,
          "Phone": "ae",
          "Stress": false,
          "ReferencePhone": "",
          "MatchTag": 0,
          "ReferenceLetter": ""
        },
        {
          "MemBeginTime": 390,
          "MemEndTime": 620,
```

```
    "PronAccuracy": 98.16035,
    "DetectedStress": false,
    "Phone": "p",
    "Stress": false,
    "ReferencePhone": "",
    "MatchTag": 0,
    "ReferenceLetter": ""
  },
  {
    "MemBeginTime": 620,
    "MemEndTime": 790,
    "PronAccuracy": 99.03245,
    "DetectedStress": false,
    "Phone": "iy",
    "Stress": false,
    "ReferencePhone": "",
    "MatchTag": 0,
    "ReferenceLetter": ""
  }
],
"ReferenceWord": "happy_0",
"KeywordTag": 0,
"Tone": {
  "Valid": false,
  "RefTone": -1,
  "HypothesisTone": -1
}
}
],
"SessionId": "7a8acce4-2b97-11ee-9efe-acde48001122",
"AudioUrl": "",
"SentenceInfoSet": [],
"Status": "Finished",
"SuggestedScore": 96.829666,
"RefTextId": -1,
"KeyWordHits": [],
"UnKeyWordHits": [],
"RequestId": "5614ab6d-c757-4557-a604-1a50eaca73e9"
}
```

指定国际音标

使用 `单词{::ipapron{p1,p2..},{p3,p4..}..}` 指定国际音标参考，[音素映射表 -- 国际音标](#)。指定国际音标并不会返回国际音标，如需返回国际音标需要添加 [音素到国际音标转换](#)。

请求参数

主要请求参数说明：

参数名称	类型	描述
RefText	String	被评估文本。
EvalMode	Integer	评估模式。0：单词评测模式
ServerType	Integer	评估语言。0：英文

请求示例

音标

```
{
  "RefText": "au{::ipapron{aʊ}}",
  "EvalMode": 0,
  "ServerType": 0,
  "WorkMode": 1,
  "UserVoiceData": "Uk1GRka1CQBxQVZFZm10IBAAAAABAAE*",
  "SeqId": 1,
  "IsEnd": 1,
  "VoiceFileType": 3,
  "VoiceEncodeType": 1,
  "SessionId": "ca0cb65e-694d-11ed-b467-acde48001122",
  "ScoreCoeff": 1.0
}
```

单词

```
{
  "RefText": "happy{::ipapron{'h,æ,p,i}}",
  "EvalMode": 0,
  "ServerType": 0,
  "WorkMode": 1,
  "UserVoiceData": "Uk1GRka1CQBxQVZFZm10IBAAAAABAAE*",
  "SeqId": 1,
  "IsEnd": 1,
}
```

```
"VoiceFileType":3,
"VoiceEncodeType":1,
"SessionId":"ca0cb65e-694d-11ed-b467-acde48001122",
"ScoreCoeff":1.0
}
```

多音词

```
{
  "RefText": "use{::ipapron{j,u,z},{j,u,s}}",
  "EvalMode": 0,
  "ServerType":0,
  "WorkMode":1,
  "UserVoiceData":"Uk1GRka1CQBxQVZFZm10IBAAAAABAAE*",
  "SeqId":1,
  "IsEnd":1,
  "VoiceFileType":3,
  "VoiceEncodeType":1,
  "SessionId":"ca0cb65e-694d-11ed-b467-acde48001122",
  "ScoreCoeff":1.0
}
```

国际音标指定+转换

```
{
  "RefText": "{::cmd{F_IPA=true}}happy{::ipapron{'h,æ,p,i}}",
  "EvalMode": 0,
  "ServerType":0,
  "WorkMode":1,
  "UserVoiceData":"Uk1GRka1CQBxQVZFZm10IBAAAAABAAE*",
  "SeqId":1,
  "IsEnd":1,
  "VoiceFileType":3,
  "VoiceEncodeType":1,
  "SessionId":"ca0cb65e-694d-11ed-b467-acde48001122",
  "ScoreCoeff":1.0
}
```

返回结果

主要返回结果说明：

参数名称	类型	描述
SuggestedScore	Integer	建议评分
PronAccuracy	Integer	整体精准度
PronFluency	Integer	整体流利度
Words.PronAccuracy	Integer	单词精准度
Words.PronFluency	Integer	单词流利度
Words.PhoneInfos.PronAccuracy	Integer	音素精准度

返回示例

```
{
  "PronAccuracy": 96.829666,
  "PronFluency": 0.82233715,
  "PronCompletion": 1,
  "Words": [
    {
      "MemBeginTime": 0,
      "MemEndTime": 790,
      "PronAccuracy": 96.829666,
      "PronFluency": 0.82233715,
      "Word": "happy",
      "MatchTag": 0,
      "PhoneInfos": [
        {
          "MemBeginTime": 0,
          "MemEndTime": 200,
          "PronAccuracy": 94.31433,
          "DetectedStress": true,
          "Phone": "hh",
          "Stress": true,
          "ReferencePhone": "",
          "MatchTag": 0,
          "ReferenceLetter": ""
        },
        {
          "MemBeginTime": 200,
          "MemEndTime": 390,
```

```
    "PronAccuracy": 95.81155,
    "DetectedStress": false,
    "Phone": "ae",
    "Stress": false,
    "ReferencePhone": "",
    "MatchTag": 0,
    "ReferenceLetter": ""
  },
  {
    "MemBeginTime": 390,
    "MemEndTime": 620,
    "PronAccuracy": 98.16035,
    "DetectedStress": false,
    "Phone": "p",
    "Stress": false,
    "ReferencePhone": "",
    "MatchTag": 0,
    "ReferenceLetter": ""
  },
  {
    "MemBeginTime": 620,
    "MemEndTime": 790,
    "PronAccuracy": 99.03245,
    "DetectedStress": false,
    "Phone": "iy",
    "Stress": false,
    "ReferencePhone": "",
    "MatchTag": 0,
    "ReferenceLetter": ""
  }
],
"ReferenceWord": "happy_0",
"KeywordTag": 0,
"Tone": {
  "Valid": false,
  "RefTone": -1,
  "HypothesisTone": -1
}
}
],
"SessionId": "7a8acce4-2b97-11ee-9efe-acde48001122",
"AudioUrl": "",
"SentenceInfoSet": [],
```

```
"Status": "Finished",  
"SuggestedScore": 96.829666,  
"RefTextId": -1,  
"KeywordHits": [],  
"UnKeywordHits": [],  
"RequestId": "5614ab6d-c757-4557-a604-1a50eaca73e9"  
}
```


句子评测模式

最近更新时间：2024-06-26 17:38:52

评测模式描述

- 评测要求：支持不超过30个单词的句子或词组。音频数据最长60秒。
- 评测维度：支持返回单词精准度，流利度，完整度；支持返回音素精准度。
- 评测功能：支持实时评测，原始单词，音素到字母映射，音素到国际音标转换，指定发音，指定国际音标。

请求参数

主要请求参数说明：

参数名称	类型	描述
RefText	String	被评估文本。不超过30个单词
EvalMode	Integer	评估模式。1：句子评测模式
ServerType	Integer	评估语言。0：英文

请求示例

```
{
  "RefText": "i go to school by bus",
  "EvalMode": 1,
  "ServerType": 0
  "WorkMode": 1,
  "UserVoiceData": "UklGRka1CQBxQVZFZm10IBAAAAABAAEAgD4E*",
  "SeqId": 1,
  "IsEnd": 1,
  "VoiceFileType": 3,
  "VoiceEncodeType": 1,
  "SessionId": "80a8-1668679925557-88941",
  "ScoreCoeff": 1.0
}
```

返回结果

主要返回结果说明：

参数名称	类型	描述
------	----	----

SuggestedScore	Integer	建议评分
PronAccuracy	Integer	整体精准度
PronFluency	Integer	整体流利度
PronCompletion	Integer	整体完整度
Words.PronAccuracy	Integer	单词精准度
Words.PronFluency	Integer	单词流利度
Words.MatchTag	Integer	当前词的音频与文本的匹配情况
Words.PhoneInfos.PronAccuracy	Integer	音素精准度
Words.PhoneInfos.MatchTag	Integer	当前音素的音频与文本的匹配情况

返回示例

```

{
  "SuggestedScore":85.46866,
  "PronAccuracy":85.46866,
  "PronFluency":0.8396638,
  "PronCompletion":1,
  "RequestId":"a84a8fa0-a135-4e9d-bfc7-b7b8303f72c0",
  "Words":[
    {
      "MemBeginTime":560,
      "MemEndTime":1660,
      "PronAccuracy":29.396612,
      "PronFluency":0.37597525,
      "ReferenceWord":"i_0",
      "Word":"i",
      "MatchTag":0,
      "KeywordTag":0,
      "PhoneInfos":[
        {
          "MemBeginTime":560,
          "MemEndTime":1660,
          "PronAccuracy":29.396612,
          "DetectedStress":false,
          "Phone":"ay",
          "ReferencePhone":"","
        }
      ]
    }
  ]
}
    
```

```
        "ReferenceLetter": "",
        "Stress": false,
        "MatchTag": 0
    }
]
},
{
    "MemBeginTime": 1660,
    "MemEndTime": 1940,
    "PronAccuracy": 79.25038,
    "PronFluency": 0.92748463,
    "ReferenceWord": "go_1",
    "Word": "go",
    "MatchTag": 0,
    "KeywordTag": 0,
    "PhoneInfos": [
        {
            "MemBeginTime": 1660,
            "MemEndTime": 1820,
            "PronAccuracy": 65.971436,
            "DetectedStress": false,
            "Phone": "g",
            "ReferencePhone": "",
            "ReferenceLetter": "",
            "Stress": false,
            "MatchTag": 0
        },
        {
            "MemBeginTime": 1820,
            "MemEndTime": 1940,
            "PronAccuracy": 92.52933,
            "DetectedStress": false,
            "Phone": "ow",
            "ReferencePhone": "",
            "ReferenceLetter": "",
            "Stress": false,
            "MatchTag": 0
        }
    ]
},
{
    "MemBeginTime": 1940,
    "MemEndTime": 2140,
```

```
"PronAccuracy":94.95551,
"PronFluency":0.9735521,
"ReferenceWord":"to_2",
"Word":"to",
"MatchTag":0,
"KeywordTag":0,
"PhoneInfos":[
  {
    "MemBeginTime":1940,
    "MemEndTime":2000,
    "PronAccuracy":93.925064,
    "DetectedStress":false,
    "Phone":"t",
    "ReferencePhone":"","
    "ReferenceLetter":"","
    "Stress":false,
    "MatchTag":0
  },
  {
    "MemBeginTime":2000,
    "MemEndTime":2140,
    "PronAccuracy":95.98597,
    "DetectedStress":false,
    "Phone":"uw",
    "ReferencePhone":"","
    "ReferenceLetter":"","
    "Stress":false,
    "MatchTag":0
  }
],
{
  "MemBeginTime":2140,
  "MemEndTime":2560,
  "PronAccuracy":87.42966,
  "PronFluency":0.9683521,
  "ReferenceWord":"school_3",
  "Word":"school",
  "MatchTag":0,
  "KeywordTag":0,
  "PhoneInfos":[
    {
      "MemBeginTime":2140,
```

```
        "MemEndTime":2220,
        "PronAccuracy":94.75633,
        "DetectedStress":false,
        "Phone":"s",
        "ReferencePhone":"","
        "ReferenceLetter":"","
        "Stress":false,
        "MatchTag":0
    },
    {
        "MemBeginTime":2220,
        "MemEndTime":2280,
        "PronAccuracy":87.9695,
        "DetectedStress":false,
        "Phone":"k",
        "ReferencePhone":"","
        "ReferenceLetter":"","
        "Stress":false,
        "MatchTag":0
    },
    {
        "MemBeginTime":2280,
        "MemEndTime":2450,
        "PronAccuracy":93.41138,
        "DetectedStress":false,
        "Phone":"uw",
        "ReferencePhone":"","
        "ReferenceLetter":"","
        "Stress":false,
        "MatchTag":0
    },
    {
        "MemBeginTime":2450,
        "MemEndTime":2560,
        "PronAccuracy":73.581436,
        "DetectedStress":false,
        "Phone":"l",
        "ReferencePhone":"","
        "ReferenceLetter":"","
        "Stress":false,
        "MatchTag":0
    }
]
```

```
},
{
  "MemBeginTime":2560,
  "MemEndTime":2820,
  "PronAccuracy":93.77257,
  "PronFluency":0.9479799,
  "ReferenceWord":"by_4",
  "Word":"by",
  "MatchTag":0,
  "KeywordTag":0,
  "PhoneInfos":[
    {
      "MemBeginTime":2560,
      "MemEndTime":2660,
      "PronAccuracy":93.292046,
      "DetectedStress":false,
      "Phone":"b",
      "ReferencePhone":"","
      "ReferenceLetter":"","
      "Stress":false,
      "MatchTag":0
    },
    {
      "MemBeginTime":2660,
      "MemEndTime":2820,
      "PronAccuracy":94.25308,
      "DetectedStress":false,
      "Phone":"ay",
      "ReferencePhone":"","
      "ReferenceLetter":"","
      "Stress":false,
      "MatchTag":0
    }
  ]
},
{
  "MemBeginTime":2820,
  "MemEndTime":3450,
  "PronAccuracy":93.82966,
  "PronFluency":0.8446388,
  "ReferenceWord":"bus_5",
  "Word":"bus",
  "MatchTag":0,
```

```
"KeywordTag":0,
"PhoneInfos":[
  {
    "MemBeginTime":2820,
    "MemEndTime":2920,
    "PronAccuracy":94.56925,
    "DetectedStress":false,
    "Phone":"b",
    "ReferencePhone":"",
    "ReferenceLetter":"",
    "Stress":false,
    "MatchTag":0
  },
  {
    "MemBeginTime":2920,
    "MemEndTime":3160,
    "PronAccuracy":92.03713,
    "DetectedStress":false,
    "Phone":"ah",
    "ReferencePhone":"",
    "ReferenceLetter":"",
    "Stress":false,
    "MatchTag":0
  },
  {
    "MemBeginTime":3160,
    "MemEndTime":3450,
    "PronAccuracy":94.8826,
    "DetectedStress":false,
    "Phone":"s",
    "ReferencePhone":"",
    "ReferenceLetter":"",
    "Stress":false,
    "MatchTag":0
  }
]
},
"SessionId":"80a8-1668679925557-88941",
"Status":"Finished",
}
```

实时评测

主要作用是获取实时中间结果，实时展示评测内容。评测结果以最终结果为准。实现方式可参考[语音输入模式 -- 流式评测](#)。

请求参数

主要请求参数说明：

参数名称	类型	描述
RefText	String	被评估文本。不超过30个单词
EvalMode	Integer	评估模式。1：句子评测模式
ServerType	Integer	评估语言。0：英文
WorkMode	Integer	语音输入模式。0：流式分片
SentenceInfoEnabled	Integer	输出断句中间结果标识。1：输出

请求示例

```
{
  "RefText": "i go to school by bus",
  "EvalMode": 1,
  "ServerType": 0,
  "WorkMode": 0,
  "SentenceInfoEnabled": 1,
  "UserVoiceData": "UklGRka1CQBXQVZFZm10IBAAAAABAAEAgD4E*",
  "SeqId": 1,
  "IsEnd": 0,
  "VoiceFileType": 3,
  "VoiceEncodeType": 1,
  "SessionId": "149d-1668680787162-42162",
  "ScoreCoeff": 1.0
}
```

返回结果

主要返回结果说明：

参数名称	类型	描述
SentenceInfoSet.Words.PronAccuracy	Integer	单词精准度

SentenceInfoSet.Words.PronFluency	Integer	单词流利度
SentenceInfoSet.Words.MatchTag	Integer	当前词的音频与文本的匹配情况
SentenceInfoSet.Words.PhoneInfos.PronAccuracy	Integer	音素精准度
SentenceInfoSet.Words.PhoneInfos.MatchTag	Integer	当前音素的音频与文本的匹配情况

返回示例

```
{
  "SuggestedScore":67.55367000000001,
  "PronAccuracy":90.07156,
  "PronFluency":0.9250185,
  "PronCompletion":0.5,
  "RequestId":"23dbccea-221e-4a6b-89e1-c7a32116b6d9",
  "Words":Array[4],
  "SessionId":"149d-1668680787162-42162",
  "AudioUrl":"","
  "SentenceInfoSet":[
    {
      "SuggestedScore":0,
      "PronAccuracy":90.07156,
      "PronFluency":0.9250185,
      "PronCompletion":0.5,
      "Words":[
        {
          "MemBeginTime":1160,
          "MemEndTime":1630,
          "PronAccuracy":-1,
          "PronFluency":0,
          "ReferenceWord":"i_0",
          "Word":"i",
          "MatchTag":3,
          "KeywordTag":0,
          "PhoneInfos":[]
        }
      ]
    },
    {
```

```
"MemBeginTime":1660,
"MemEndTime":1940,
"PronAccuracy":86.5491,
"PronFluency":0.93788886,
"ReferenceWord":"go_1",
"Word":"go",
"MatchTag":0,
"KeywordTag":0,
"PhoneInfos":[
  {
    "MemBeginTime":1660,
    "MemEndTime":1780,
    "PronAccuracy":82.975586,
    "DetectedStress":false,
    "Phone":"g",
    "ReferencePhone":"","
    "ReferenceLetter":"","
    "Stress":false,
    "MatchTag":0
  },
  {
    "MemBeginTime":1780,
    "MemEndTime":1940,
    "PronAccuracy":90.12263,
    "DetectedStress":false,
    "Phone":"ow",
    "ReferencePhone":"","
    "ReferenceLetter":"","
    "Stress":false,
    "MatchTag":0
  }
]
},
{
  "MemBeginTime":1940,
  "MemEndTime":2180,
  "PronAccuracy":94.715225,
  "PronFluency":0.95381117,
  "ReferenceWord":"to_2",
  "Word":"to",
  "MatchTag":0,
  "KeywordTag":0,
  "PhoneInfos":[
```

```
{
  "MemBeginTime":1940,
  "MemEndTime":2040,
  "PronAccuracy":94.71371,
  "DetectedStress":false,
  "Phone":"t",
  "ReferencePhone":"","
  "ReferenceLetter":"","
  "Stress":false,
  "MatchTag":0
},
{
  "MemBeginTime":2040,
  "MemEndTime":2180,
  "PronAccuracy":94.71675,
  "DetectedStress":false,
  "Phone":"uw",
  "ReferencePhone":"","
  "ReferenceLetter":"","
  "Stress":false,
  "MatchTag":0
}
],
{
  "MemBeginTime":2180,
  "MemEndTime":2940,
  "PronAccuracy":89.51096,
  "PronFluency":0.8833554,
  "ReferenceWord":"school_3",
  "Word":"school",
  "MatchTag":0,
  "KeywordTag":0,
  "PhoneInfos":[
    {
      "MemBeginTime":2180,
      "MemEndTime":2380,
      "PronAccuracy":84.01998,
      "DetectedStress":false,
      "Phone":"s",
      "ReferencePhone":"","
      "ReferenceLetter":"","
      "Stress":false,
```

```
        "MatchTag":0
      },
      {
        "MemBeginTime":2380,
        "MemEndTime":2540,
        "PronAccuracy":93.178246,
        "DetectedStress":false,
        "Phone":"k",
        "ReferencePhone":"","
        "ReferenceLetter":"","
        "Stress":false,
        "MatchTag":0
      },
      {
        "MemBeginTime":2540,
        "MemEndTime":2640,
        "PronAccuracy":91.90856,
        "DetectedStress":false,
        "Phone":"uw",
        "ReferencePhone":"","
        "ReferenceLetter":"","
        "Stress":false,
        "MatchTag":0
      },
      {
        "MemBeginTime":2640,
        "MemEndTime":2940,
        "PronAccuracy":88.93709,
        "DetectedStress":false,
        "Phone":"l",
        "ReferencePhone":"","
        "ReferenceLetter":"","
        "Stress":false,
        "MatchTag":0
      }
    ]
  }
],
  "SentenceId":-1,
}
],
  "Status":"Evaluating",
}
```

原始单词

数字类型使用英文评测会转换为对应英文单词，可在对应返回字段获取原始数字以及单词下标。

请求参数

主要请求参数说明：

参数名称	类型	描述
RefText	String	被评估文本。不超过30个单词
EvalMode	Integer	评估模式。1：句子评测模式
ServerType	Integer	评估语言。0：英文

请求示例

```
{
  "RefText": "61",
  "EvalMode": 1,
  "ServerType": 0,
  "WorkMode": 1,
  "UserVoiceData": "Uk1GRka1CQBxQVZFZm10IBAAAAABAAEAgD4E*",
  "SeqId": 1,
  "IsEnd": 1,
  "VoiceFileType": 3,
  "VoiceEncodeType": 1,
  "SessionId": "71bb-1668741570005-00022",
  "ScoreCoeff": 1.0
}
```

返回结果

主要返回结果说明：

参数名称	类型	描述
Words.ReferenceWord	String	当前词原始文本

返回示例

```
{
```

```
"SuggestedScore":41.461930499999994,
"PronAccuracy":55.282574,
"PronFluency":0.93814015,
"PronCompletion":0.5,
"RequestId":"5b4f61c1-6866-4193-af39-7b8e71822240",
"Words":[
  {
    "MemBeginTime":910,
    "MemEndTime":1670,
    "PronAccuracy":55.282574,
    "PronFluency":0.93814015,
    "ReferenceWord":"61_0",
    "Word":"sixty",
    "MatchTag":0,
    "KeywordTag":0,
    "PhoneInfos":[]
  },
  {
    "MemBeginTime":1670,
    "MemEndTime":2250,
    "PronAccuracy":-1,
    "PronFluency":-1,
    "ReferenceWord":"61_0",
    "Word":"one",
    "MatchTag":3,
    "KeywordTag":0,
    "PhoneInfos":[]
  }
],
"SessionId":"71bb-1668741570005-00022",
"Status":"Finished",
}
```

音素到字母映射

通过该功能，可以对音素映射字母进行标记。音素到字母映射结构：`{::cmd{F_P2L=true}}` + 评估文本。

请求参数

主要请求参数说明：

参数名称	类型	描述
RefText	String	被评估文本。
EvalMode	Integer	评估模式。1: 句子评测模式
ServerType	Integer	评估语言。0: 英文

请求示例

```
{
  "RefText": "{::cmd{F_P2L=true}}I would like to eat an orange",
  "EvalMode": 1,
  "ServerType": 0,
  "WorkMode": 1,

  "UserVoiceData": "Uk1GRka1CQBxQVZFZm10IBAAAAAABAEEAgD4AIxLTA3LTAxIDEzOjQzA
ABJU0ZUDgAAAE*",
  "SeqId": 1,
  "IsEnd": 1,
  "VoiceFileType": 3,
  "VoiceEncodeType": 1,
  "SessionId": "fbe89fc2-63ed-11ed-9f56-acde48001122",
  "ScoreCoeff": 1.0
}
```

返回结果

主要返回结果说明：

参数名称	类型	描述
Words.Word	String	当前单词
Words.PhoneInfos.Phone	String	当前单词的音素
Words.PhoneInfos.ReferenceLetter	String	当前单词的音素映射的字母

返回示例

```
{
  "PronAccuracy": 68.37508,
  "PronFluency": 0.9331392,
```

```
"PronCompletion": 1,
"Words": [
  {
    "MemBeginTime": 170,
    "MemEndTime": 370,
    "PronAccuracy": 93.85412,
    "PronFluency": 0.9332508,
    "Word": "i",
    "MatchTag": 0,
    "PhoneInfos": [
      {
        "MemBeginTime": 170,
        "MemEndTime": 370,
        "PronAccuracy": 93.85412,
        "DetectedStress": false,
        "Phone": "ay",
        "Stress": false,
        "ReferencePhone": "",
        "MatchTag": 0,
        "ReferenceLetter": "i_0"
      }
    ],
    "ReferenceWord": "i_0",
    "KeywordTag": 0,
    "Tone": {
      "Valid": false,
      "RefTone": -1,
      "HypothesisTone": -1
    }
  },
  {
    "MemBeginTime": 370,
    "MemEndTime": 590,
    "PronAccuracy": 26.118675,
    "PronFluency": 0.9730186,
    "Word": "would",
    "MatchTag": 0,
    "PhoneInfos": [
      {
        "MemBeginTime": 370,
        "MemEndTime": 460,
        "PronAccuracy": 54.993282,
        "DetectedStress": false,
```



```
    "Phone": "w",
    "Stress": false,
    "ReferencePhone": "",
    "MatchTag": 0,
    "ReferenceLetter": "w_0"
  },
  {
    "MemBeginTime": 460,
    "MemEndTime": 510,
    "PronAccuracy": 14.068562,
    "DetectedStress": false,
    "Phone": "uh",
    "Stress": false,
    "ReferencePhone": "",
    "MatchTag": 0,
    "ReferenceLetter": "oul_1"
  },
  {
    "MemBeginTime": 510,
    "MemEndTime": 590,
    "PronAccuracy": 9.294175,
    "DetectedStress": false,
    "Phone": "d",
    "Stress": false,
    "ReferencePhone": "",
    "MatchTag": 0,
    "ReferenceLetter": "d_4"
  }
],
"ReferenceWord": "would_1",
"KeywordTag": 0,
"Tone": {
  "Valid": false,
  "RefTone": -1,
  "HypothesisTone": -1
}
},
{
  "MemBeginTime": 590,
  "MemEndTime": 940,
  "PronAccuracy": 74.74005,
  "PronFluency": 0.9638893,
  "Word": "like",
```

```
"MatchTag": 0,
"PhoneInfos": [
  {
    "MemBeginTime": 590,
    "MemEndTime": 690,
    "PronAccuracy": 47.80338,
    "DetectedStress": false,
    "Phone": "l",
    "Stress": false,
    "ReferencePhone": "",
    "MatchTag": 0,
    "ReferenceLetter": "l_0"
  },
  {
    "MemBeginTime": 690,
    "MemEndTime": 830,
    "PronAccuracy": 94.85252,
    "DetectedStress": false,
    "Phone": "ay",
    "Stress": false,
    "ReferencePhone": "",
    "MatchTag": 0,
    "ReferenceLetter": "i_1"
  },
  {
    "MemBeginTime": 830,
    "MemEndTime": 940,
    "PronAccuracy": 81.56426,
    "DetectedStress": false,
    "Phone": "k",
    "Stress": false,
    "ReferencePhone": "",
    "MatchTag": 0,
    "ReferenceLetter": "ke_2"
  }
],
"ReferenceWord": "like_2",
"KeywordTag": 0,
"Tone": {
  "Valid": false,
  "RefTone": -1,
  "HypothesisTone": -1
}
```

```
},
{
  "MemBeginTime": 940,
  "MemEndTime": 1130,
  "PronAccuracy": 50.105522,
  "PronFluency": 0.9484146,
  "Word": "to",
  "MatchTag": 0,
  "PhoneInfos": [
    {
      "MemBeginTime": 940,
      "MemEndTime": 990,
      "PronAccuracy": 71.745056,
      "DetectedStress": false,
      "Phone": "t",
      "Stress": false,
      "ReferencePhone": "",
      "MatchTag": 0,
      "ReferenceLetter": "t_0"
    },
    {
      "MemBeginTime": 990,
      "MemEndTime": 1130,
      "PronAccuracy": 28.465998,
      "DetectedStress": false,
      "Phone": "ah",
      "Stress": false,
      "ReferencePhone": "",
      "MatchTag": 0,
      "ReferenceLetter": "o_1"
    }
  ],
  "ReferenceWord": "to_3",
  "KeywordTag": 0,
  "Tone": {
    "Valid": false,
    "RefTone": -1,
    "HypothesisTone": -1
  }
},
{
  "MemBeginTime": 1130,
  "MemEndTime": 1570,
```

```
"PronAccuracy": 96.52777,
"PronFluency": 0.85671043,
"Word": "eat",
"MatchTag": 0,
"PhoneInfos": [
  {
    "MemBeginTime": 1130,
    "MemEndTime": 1420,
    "PronAccuracy": 95.48253,
    "DetectedStress": false,
    "Phone": "iy",
    "Stress": false,
    "ReferencePhone": "",
    "MatchTag": 0,
    "ReferenceLetter": "ea_0"
  },
  {
    "MemBeginTime": 1420,
    "MemEndTime": 1570,
    "PronAccuracy": 97.57301,
    "DetectedStress": false,
    "Phone": "t",
    "Stress": false,
    "ReferencePhone": "",
    "MatchTag": 0,
    "ReferenceLetter": "t_2"
  }
],
"ReferenceWord": "eat_4",
"KeywordTag": 0,
"Tone": {
  "Valid": false,
  "RefTone": -1,
  "HypothesisTone": -1
}
},
{
  "MemBeginTime": 1570,
  "MemEndTime": 1870,
  "PronAccuracy": 52.039986,
  "PronFluency": 0.9176507,
  "Word": "an",
  "MatchTag": 0,
```

```
"PhoneInfos": [  
  {  
    "MemBeginTime": 1570,  
    "MemEndTime": 1690,  
    "PronAccuracy": 96.504974,  
    "DetectedStress": false,  
    "Phone": "ae",  
    "Stress": false,  
    "ReferencePhone": "",  
    "MatchTag": 0,  
    "ReferenceLetter": "a_0"  
  },  
  {  
    "MemBeginTime": 1690,  
    "MemEndTime": 1870,  
    "PronAccuracy": 7.575003,  
    "DetectedStress": false,  
    "Phone": "n",  
    "Stress": false,  
    "ReferencePhone": "",  
    "MatchTag": 0,  
    "ReferenceLetter": "n_1"  
  }  
],  
"ReferenceWord": "an_5",  
"KeywordTag": 0,  
"Tone": {  
  "Valid": false,  
  "RefTone": -1,  
  "HypothesisTone": -1  
}  
},  
{  
  "MemBeginTime": 1870,  
  "MemEndTime": 2480,  
  "PronAccuracy": 87.394875,  
  "PronFluency": 0.9390403,  
  "Word": "orange",  
  "MatchTag": 0,  
  "PhoneInfos": [  
    {  
      "MemBeginTime": 1870,  
      "MemEndTime": 2010,
```

```
"PronAccuracy": 67.70299,  
"DetectedStress": false,  
"Phone": "ao",  
"Stress": false,  
"ReferencePhone": "",  
"MatchTag": 0,  
"ReferenceLetter": ""  
},  
{  
  "MemBeginTime": 2010,  
  "MemEndTime": 2070,  
  "PronAccuracy": 95.01617,  
  "DetectedStress": false,  
  "Phone": "r",  
  "Stress": false,  
  "ReferencePhone": "",  
  "MatchTag": 0,  
  "ReferenceLetter": ""  
},  
{  
  "MemBeginTime": 2070,  
  "MemEndTime": 2150,  
  "PronAccuracy": 97.92182,  
  "DetectedStress": false,  
  "Phone": "ah",  
  "Stress": false,  
  "ReferencePhone": "",  
  "MatchTag": 0,  
  "ReferenceLetter": ""  
},  
{  
  "MemBeginTime": 2150,  
  "MemEndTime": 2310,  
  "PronAccuracy": 79.219315,  
  "DetectedStress": false,  
  "Phone": "n",  
  "Stress": false,  
  "ReferencePhone": "",  
  "MatchTag": 0,  
  "ReferenceLetter": ""  
},  
{  
  "MemBeginTime": 2310,
```

```
    "MemEndTime": 2480,
    "PronAccuracy": 97.11408,
    "DetectedStress": false,
    "Phone": "jh",
    "Stress": false,
    "ReferencePhone": "",
    "MatchTag": 0,
    "ReferenceLetter": ""
  }
],
"ReferenceWord": "orange_6",
"KeywordTag": 0,
"Tone": {
  "Valid": false,
  "RefTone": -1,
  "HypothesisTone": -1
}
}
],
"SessionId": "d40fc484-2c20-11ee-adca-acde48001122",
"AudioUrl": "",
"SentenceInfoSet": [],
"Status": "Finished",
"SuggestedScore": 68.37508,
"RefTextId": -1,
"KeyWordHits": [],
"UnKeyWordHits": [],
"RequestId": "8969a5fe-9a1d-4121-8fca-c9436207309d"
}
```

音素到国际音标转换

返回音素默认为智聆音素，使用 `{::cmd{F_IPA=true}}` + 单词 开启 音素到国际 音标转换功能。

请求参数

主要请求参数说明：

参数名称	类型	描述
RefText	String	被评估文本。
EvalMode	Integer	评估模式。1：句子评测模式

ServerType	Integer	评估语言。0: 英文
------------	---------	------------

请求示例

```
{
  "RefText": "{::cmd{F_IPA=true}}I would like to eat an orange",
  "EvalMode": 1,
  "ServerType": 0,
  "WorkMode": 1,
  "UserVoiceData": "Uk1GRka1CQBxQVZFZm10IBAAAAAABAAE*",
  "SeqId": 1,
  "IsEnd": 1,
  "VoiceFileType": 3,
  "VoiceEncodeType": 1,
  "SessionId": "ca0cb65e-694d-11ed-b467-acde48001122",
  "ScoreCoeff": 1.0
}
```

返回结果

返回结果说明:

参数名称	类型	描述
Words.PhoneInfos.Phone	Integer	当前音节

返回示例

```
{
  "PronAccuracy": 68.37508,
  "PronFluency": 0.9331392,
  "PronCompletion": 1,
  "Words": [
    {
      "MemBeginTime": 170,
      "MemEndTime": 370,
      "PronAccuracy": 93.85412,
      "PronFluency": 0.9332508,
      "Word": "i",
      "MatchTag": 0,
      "PhoneInfos": [
        {
          "MemBeginTime": 170,
```



```
    "MemEndTime": 370,
    "PronAccuracy": 93.85412,
    "DetectedStress": false,
    "Phone": "aɪ",
    "Stress": false,
    "ReferencePhone": "",
    "MatchTag": 0,
    "ReferenceLetter": ""
  }
],
"ReferenceWord": "i_0",
"KeywordTag": 0,
"Tone": {
  "Valid": false,
  "RefTone": -1,
  "HypothesisTone": -1
},
{
  "MemBeginTime": 370,
  "MemEndTime": 590,
  "PronAccuracy": 26.118675,
  "PronFluency": 0.9730186,
  "Word": "would",
  "MatchTag": 0,
  "PhoneInfos": [
    {
      "MemBeginTime": 370,
      "MemEndTime": 460,
      "PronAccuracy": 54.993282,
      "DetectedStress": false,
      "Phone": "w",
      "Stress": false,
      "ReferencePhone": "",
      "MatchTag": 0,
      "ReferenceLetter": ""
    },
    {
      "MemBeginTime": 460,
      "MemEndTime": 510,
      "PronAccuracy": 14.068562,
      "DetectedStress": false,
      "Phone": "ɔ",
```

```
    "Stress": false,
    "ReferencePhone": "",
    "MatchTag": 0,
    "ReferenceLetter": ""
  },
  {
    "MemBeginTime": 510,
    "MemEndTime": 590,
    "PronAccuracy": 9.294175,
    "DetectedStress": false,
    "Phone": "d",
    "Stress": false,
    "ReferencePhone": "",
    "MatchTag": 0,
    "ReferenceLetter": ""
  }
],
"ReferenceWord": "would_1",
"KeywordTag": 0,
"Tone": {
  "Valid": false,
  "RefTone": -1,
  "HypothesisTone": -1
}
},
{
  "MemBeginTime": 590,
  "MemEndTime": 940,
  "PronAccuracy": 74.74005,
  "PronFluency": 0.9638893,
  "Word": "like",
  "MatchTag": 0,
  "PhoneInfos": [
    {
      "MemBeginTime": 590,
      "MemEndTime": 690,
      "PronAccuracy": 47.80338,
      "DetectedStress": false,
      "Phone": "l",
      "Stress": false,
      "ReferencePhone": "",
      "MatchTag": 0,
      "ReferenceLetter": ""
    }
  ]
}
```

```
    },
    {
      "MemBeginTime": 690,
      "MemEndTime": 830,
      "PronAccuracy": 94.85252,
      "DetectedStress": false,
      "Phone": "aɪ",
      "Stress": false,
      "ReferencePhone": "",
      "MatchTag": 0,
      "ReferenceLetter": ""
    },
    {
      "MemBeginTime": 830,
      "MemEndTime": 940,
      "PronAccuracy": 81.56426,
      "DetectedStress": false,
      "Phone": "k",
      "Stress": false,
      "ReferencePhone": "",
      "MatchTag": 0,
      "ReferenceLetter": ""
    }
  ],
  "ReferenceWord": "like_2",
  "KeywordTag": 0,
  "Tone": {
    "Valid": false,
    "RefTone": -1,
    "HypothesisTone": -1
  }
},
{
  "MemBeginTime": 940,
  "MemEndTime": 1130,
  "PronAccuracy": 50.105522,
  "PronFluency": 0.9484146,
  "Word": "to",
  "MatchTag": 0,
  "PhoneInfos": [
    {
      "MemBeginTime": 940,
      "MemEndTime": 990,
```

```
    "PronAccuracy": 71.745056,
    "DetectedStress": false,
    "Phone": "t",
    "Stress": false,
    "ReferencePhone": "",
    "MatchTag": 0,
    "ReferenceLetter": ""
  },
  {
    "MemBeginTime": 990,
    "MemEndTime": 1130,
    "PronAccuracy": 28.465998,
    "DetectedStress": false,
    "Phone": "ə",
    "Stress": false,
    "ReferencePhone": "",
    "MatchTag": 0,
    "ReferenceLetter": ""
  }
],
"ReferenceWord": "to_3",
"KeywordTag": 0,
"Tone": {
  "Valid": false,
  "RefTone": -1,
  "HypothesisTone": -1
}
},
{
  "MemBeginTime": 1130,
  "MemEndTime": 1570,
  "PronAccuracy": 96.52777,
  "PronFluency": 0.85671043,
  "Word": "eat",
  "MatchTag": 0,
  "PhoneInfos": [
    {
      "MemBeginTime": 1130,
      "MemEndTime": 1420,
      "PronAccuracy": 95.48253,
      "DetectedStress": false,
      "Phone": "i",
      "Stress": false,
```

```
    "ReferencePhone": "",
    "MatchTag": 0,
    "ReferenceLetter": ""
  },
  {
    "MemBeginTime": 1420,
    "MemEndTime": 1570,
    "PronAccuracy": 97.57301,
    "DetectedStress": false,
    "Phone": "t",
    "Stress": false,
    "ReferencePhone": "",
    "MatchTag": 0,
    "ReferenceLetter": ""
  }
],
"ReferenceWord": "eat_4",
"KeywordTag": 0,
"Tone": {
  "Valid": false,
  "RefTone": -1,
  "HypothesisTone": -1
}
},
{
  "MemBeginTime": 1570,
  "MemEndTime": 1870,
  "PronAccuracy": 52.039986,
  "PronFluency": 0.9176507,
  "Word": "an",
  "MatchTag": 0,
  "PhoneInfos": [
    {
      "MemBeginTime": 1570,
      "MemEndTime": 1690,
      "PronAccuracy": 96.504974,
      "DetectedStress": false,
      "Phone": "æ",
      "Stress": false,
      "ReferencePhone": "",
      "MatchTag": 0,
      "ReferenceLetter": ""
    }
  ],

```

```
{
  "MemBeginTime": 1690,
  "MemEndTime": 1870,
  "PronAccuracy": 7.575003,
  "DetectedStress": false,
  "Phone": "n",
  "Stress": false,
  "ReferencePhone": "",
  "MatchTag": 0,
  "ReferenceLetter": ""
},
{
  "ReferenceWord": "an_5",
  "KeywordTag": 0,
  "Tone": {
    "Valid": false,
    "RefTone": -1,
    "HypothesisTone": -1
  }
},
{
  "MemBeginTime": 1870,
  "MemEndTime": 2480,
  "PronAccuracy": 87.394875,
  "PronFluency": 0.9390403,
  "Word": "orange",
  "MatchTag": 0,
  "PhoneInfos": [
    {
      "MemBeginTime": 1870,
      "MemEndTime": 2010,
      "PronAccuracy": 67.70299,
      "DetectedStress": false,
      "Phone": "ɔ",
      "Stress": false,
      "ReferencePhone": "",
      "MatchTag": 0,
      "ReferenceLetter": ""
    },
    {
      "MemBeginTime": 2010,
      "MemEndTime": 2070,
      "PronAccuracy": 95.01617,
```

```
"DetectedStress": false,
"Phone": "r",
"Stress": false,
"ReferencePhone": "",
"MatchTag": 0,
"ReferenceLetter": ""
},
{
  "MemBeginTime": 2070,
  "MemEndTime": 2150,
  "PronAccuracy": 97.92182,
  "DetectedStress": false,
  "Phone": "ʌ",
  "Stress": false,
  "ReferencePhone": "",
  "MatchTag": 0,
  "ReferenceLetter": ""
},
{
  "MemBeginTime": 2150,
  "MemEndTime": 2310,
  "PronAccuracy": 79.219315,
  "DetectedStress": false,
  "Phone": "n",
  "Stress": false,
  "ReferencePhone": "",
  "MatchTag": 0,
  "ReferenceLetter": ""
},
{
  "MemBeginTime": 2310,
  "MemEndTime": 2480,
  "PronAccuracy": 97.11408,
  "DetectedStress": false,
  "Phone": "dʒ",
  "Stress": false,
  "ReferencePhone": "",
  "MatchTag": 0,
  "ReferenceLetter": ""
}
],
"ReferenceWord": "orange_6",
"KeywordTag": 0,
```

```
"Tone": {
  "Valid": false,
  "RefTone": -1,
  "HypothesisTone": -1
}
},
"SessionId": "5381d9d4-2c24-11ee-96eb-acde48001122",
"AudioUrl": "",
"SentenceInfoSet": [],
"Status": "Finished",
"SuggestedScore": 68.37508,
"RefTextId": -1,
"KeywordHits": [],
"UnKeywordHits": [],
"RequestId": "9a233506-dbf4-4176-bf45-a2fcfa75639a"
}
```

指定发音

使用 `单词{::pron{p1,p2..},{p3,p4..}..}` 指定发音，需要将国际音标通过音素映射表转换为智聆音素，参考 [音素映射表 -- 智聆音素](#)。

请求参数

主要请求参数说明：

参数名称	类型	描述
RefText	String	被评估文本
EvalMode	Integer	评估模式。1: 句子评测模式
ServerType	Integer	评估语言。0: 英文

请求示例

```
{
  "RefText": "I would{::pron{w,uh,d}} like to eat{::pron{iy,t}} an
orange",
  "EvalMode": 1,
  "ServerType": 0,
  "WorkMode": 1,
  "UserVoiceData": "Uk1GRka1CQBxQVZFZm10IBAAAAAABAEE*",
}
```



```
"SeqId":1,
"IsEnd":1,
"VoiceFileType":3,
"VoiceEncodeType":1,
"SessionId":"ca0cb65e-694d-11ed-b467-acde48001122",
"ScoreCoeff":1.0
}
```

返回结果

主要返回结果说明：

参数名称	类型	描述
SuggestedScore	Integer	建议评分
PronAccuracy	Integer	整体精准度
PronFluency	Integer	整体流利度
Words.PronAccuracy	Integer	单词精准度
Words.PronFluency	Integer	单词流利度
Words.PhoneInfos.PronAccuracy	Integer	音素精准度

返回示例

```
{
  "PronAccuracy": 65.87381,
  "PronFluency": 0.9260058,
  "PronCompletion": 1,
  "Words": [
    {
      "MemBeginTime": 100,
      "MemEndTime": 370,
      "PronAccuracy": 91.7678,
      "PronFluency": 0.8899071,
      "Word": "i",
      "MatchTag": 0,
      "PhoneInfos": [
        {
          "MemBeginTime": 100,
```

```
    "MemEndTime": 370,
    "PronAccuracy": 91.7678,
    "DetectedStress": false,
    "Phone": "ay",
    "Stress": false,
    "ReferencePhone": "",
    "MatchTag": 0,
    "ReferenceLetter": ""
  }
],
"ReferenceWord": "i_0",
"KeywordTag": 0,
"Tone": {
  "Valid": false,
  "RefTone": -1,
  "HypothesisTone": -1
}
},
{
  "MemBeginTime": 370,
  "MemEndTime": 590,
  "PronAccuracy": 26.118675,
  "PronFluency": 0.9730186,
  "Word": "would",
  "MatchTag": 0,
  "PhoneInfos": [
    {
      "MemBeginTime": 370,
      "MemEndTime": 460,
      "PronAccuracy": 54.993282,
      "DetectedStress": false,
      "Phone": "w",
      "Stress": false,
      "ReferencePhone": "",
      "MatchTag": 0,
      "ReferenceLetter": ""
    },
    {
      "MemBeginTime": 460,
      "MemEndTime": 510,
      "PronAccuracy": 14.068562,
      "DetectedStress": false,
      "Phone": "uh",
```

```
    "Stress": false,
    "ReferencePhone": "",
    "MatchTag": 0,
    "ReferenceLetter": ""
  },
  {
    "MemBeginTime": 510,
    "MemEndTime": 590,
    "PronAccuracy": 9.294175,
    "DetectedStress": false,
    "Phone": "d",
    "Stress": false,
    "ReferencePhone": "",
    "MatchTag": 0,
    "ReferenceLetter": ""
  }
],
"ReferenceWord": "would_1",
"KeywordTag": 0,
"Tone": {
  "Valid": false,
  "RefTone": -1,
  "HypothesisTone": -1
}
},
{
  "MemBeginTime": 590,
  "MemEndTime": 940,
  "PronAccuracy": 74.74005,
  "PronFluency": 0.9638893,
  "Word": "like",
  "MatchTag": 0,
  "PhoneInfos": [
    {
      "MemBeginTime": 590,
      "MemEndTime": 690,
      "PronAccuracy": 47.80338,
      "DetectedStress": false,
      "Phone": "l",
      "Stress": false,
      "ReferencePhone": "",
      "MatchTag": 0,
      "ReferenceLetter": ""
    }
  ]
}
```

```
},
{
  "MemBeginTime": 690,
  "MemEndTime": 830,
  "PronAccuracy": 94.85252,
  "DetectedStress": false,
  "Phone": "ay",
  "Stress": false,
  "ReferencePhone": "",
  "MatchTag": 0,
  "ReferenceLetter": ""
},
{
  "MemBeginTime": 830,
  "MemEndTime": 940,
  "PronAccuracy": 81.56426,
  "DetectedStress": false,
  "Phone": "k",
  "Stress": false,
  "ReferencePhone": "",
  "MatchTag": 0,
  "ReferenceLetter": ""
}
],
"ReferenceWord": "like_2",
"KeywordTag": 0,
"Tone": {
  "Valid": false,
  "RefTone": -1,
  "HypothesisTone": -1
}
},
{
  "MemBeginTime": 940,
  "MemEndTime": 1130,
  "PronAccuracy": 50.105522,
  "PronFluency": 0.9484146,
  "Word": "to",
  "MatchTag": 0,
  "PhoneInfos": [
    {
      "MemBeginTime": 940,
      "MemEndTime": 990,
```

```
    "PronAccuracy": 71.745056,
    "DetectedStress": false,
    "Phone": "t",
    "Stress": false,
    "ReferencePhone": "",
    "MatchTag": 0,
    "ReferenceLetter": ""
  },
  {
    "MemBeginTime": 990,
    "MemEndTime": 1130,
    "PronAccuracy": 28.465998,
    "DetectedStress": false,
    "Phone": "ah",
    "Stress": false,
    "ReferencePhone": "",
    "MatchTag": 0,
    "ReferenceLetter": ""
  }
],
"ReferenceWord": "to_3",
"KeywordTag": 0,
"Tone": {
  "Valid": false,
  "RefTone": -1,
  "HypothesisTone": -1
},
{
  "MemBeginTime": 1130,
  "MemEndTime": 1570,
  "PronAccuracy": 96.52777,
  "PronFluency": 0.85671043,
  "Word": "eat",
  "MatchTag": 0,
  "PhoneInfos": [
    {
      "MemBeginTime": 1130,
      "MemEndTime": 1420,
      "PronAccuracy": 95.48253,
      "DetectedStress": false,
      "Phone": "iy",
      "Stress": false,
```

```
    "ReferencePhone": "",
    "MatchTag": 0,
    "ReferenceLetter": ""
  },
  {
    "MemBeginTime": 1420,
    "MemEndTime": 1570,
    "PronAccuracy": 97.57301,
    "DetectedStress": false,
    "Phone": "t",
    "Stress": false,
    "ReferencePhone": "",
    "MatchTag": 0,
    "ReferenceLetter": ""
  }
],
"ReferenceWord": "eat_4",
"KeywordTag": 0,
"Tone": {
  "Valid": false,
  "RefTone": -1,
  "HypothesisTone": -1
}
},
{
  "MemBeginTime": 1570,
  "MemEndTime": 1870,
  "PronAccuracy": 52.039986,
  "PronFluency": 0.9176507,
  "Word": "an",
  "MatchTag": 0,
  "PhoneInfos": [
    {
      "MemBeginTime": 1570,
      "MemEndTime": 1690,
      "PronAccuracy": 96.504974,
      "DetectedStress": false,
      "Phone": "ae",
      "Stress": false,
      "ReferencePhone": "",
      "MatchTag": 0,
      "ReferenceLetter": ""
    }
  ],
}
```

```
{
  "MemBeginTime": 1690,
  "MemEndTime": 1870,
  "PronAccuracy": 7.575003,
  "DetectedStress": false,
  "Phone": "n",
  "Stress": false,
  "ReferencePhone": "",
  "MatchTag": 0,
  "ReferenceLetter": ""
}
],
"ReferenceWord": "an_5",
"KeywordTag": 0,
"Tone": {
  "Valid": false,
  "RefTone": -1,
  "HypothesisTone": -1
}
},
{
  "MemBeginTime": 1870,
  "MemEndTime": 2510,
  "PronAccuracy": 78.807625,
  "PronFluency": 0.93245,
  "Word": "orange",
  "MatchTag": 0,
  "PhoneInfos": [
    {
      "MemBeginTime": 1870,
      "MemEndTime": 2010,
      "PronAccuracy": 67.70299,
      "DetectedStress": false,
      "Phone": "ao",
      "Stress": false,
      "ReferencePhone": "",
      "MatchTag": 0,
      "ReferenceLetter": ""
    },
    {
      "MemBeginTime": 2010,
      "MemEndTime": 2070,
      "PronAccuracy": 77.530304,
```

```
"DetectedStress": false,
"Phone": "r",
"Stress": false,
"ReferencePhone": "",
"MatchTag": 0,
"ReferenceLetter": ""
},
{
  "MemBeginTime": 2070,
  "MemEndTime": 2160,
  "PronAccuracy": 88.563896,
  "DetectedStress": false,
  "Phone": "ih",
  "Stress": false,
  "ReferencePhone": "",
  "MatchTag": 0,
  "ReferenceLetter": ""
},
{
  "MemBeginTime": 2160,
  "MemEndTime": 2310,
  "PronAccuracy": 63.245743,
  "DetectedStress": false,
  "Phone": "n",
  "Stress": false,
  "ReferencePhone": "",
  "MatchTag": 0,
  "ReferenceLetter": ""
},
{
  "MemBeginTime": 2310,
  "MemEndTime": 2510,
  "PronAccuracy": 96.99516,
  "DetectedStress": false,
  "Phone": "jh",
  "Stress": false,
  "ReferencePhone": "",
  "MatchTag": 0,
  "ReferenceLetter": ""
}
],
"ReferenceWord": "orange_6",
"KeywordTag": 0,
```



```

    "Tone": {
      "Valid": false,
      "RefTone": -1,
      "HypothesisTone": -1
    }
  },
  ],
  "SessionId": "02e31d98-2b99-11ee-a107-acde48001122",
  "AudioUrl": "",
  "SentenceInfoSet": [],
  "Status": "Finished",
  "SuggestedScore": 65.87381,
  "RefTextId": -1,
  "KeywordHits": [],
  "UnKeywordHits": [],
  "RequestId": "eb75588b-3429-46e4-a247-4a6ca7702a27"
}

```

指定国际音标

使用 `单词{::ipapron{p1,p2..},{p3,p4..}}` 指定国际音标，参考 [音素映射表 -- 国际音标](#)。指定国际音标返回结果依旧为智聆音素，需要使用 [音素到国际音标转换](#) 功能，才会显示国际音标。

请求参数

主要请求参数说明

参数名称	类型	描述
RefText	String	被评估文本。
EvalMode	Integer	评估模式。1: 句子评测模式
ServerType	Integer	评估语言。0: 英文

请求示例

```

{
  "RefText": "I would{::ipapron{w,ɔ,d}} like to eat{::ipapron{i,t}} an orange",
  "EvalMode": 1,
  "ServerType": 0,
  "WorkMode": 1,
  "UserVoiceData": "Uk1GRka1CQBxQVZFZm10IBAAAAAABAAE*",
}

```

```
"SeqId":1,
"IsEnd":1,
"VoiceFileType":3,
"VoiceEncodeType":1,
"SessionId":"ca0cb65e-694d-11ed-b467-acde48001122",
"ScoreCoeff":1.0
}
```

返回结果

主要返回结果说明

参数名称	类型	描述
SuggestedScore	Integer	建议评分
PronAccuracy	Integer	整体精准度
PronFluency	Integer	整体流利度
Words.PronAccuracy	Integer	单词精准度
Words.PronFluency	Integer	单词流利度
Words.PhoneInfos.PronAccuracy	Integer	音素精准度

返回示例

```
{
  "PronAccuracy": 65.87381,
  "PronFluency": 0.9260058,
  "PronCompletion": 1,
  "Words": [
    {
      "MemBeginTime": 100,
      "MemEndTime": 370,
      "PronAccuracy": 91.7678,
      "PronFluency": 0.8899071,
      "Word": "i",
      "MatchTag": 0,
      "PhoneInfos": [
        {
          "MemBeginTime": 100,
```

```
    "MemEndTime": 370,
    "PronAccuracy": 91.7678,
    "DetectedStress": false,
    "Phone": "ay",
    "Stress": false,
    "ReferencePhone": "",
    "MatchTag": 0,
    "ReferenceLetter": ""
  }
],
"ReferenceWord": "i_0",
"KeywordTag": 0,
"Tone": {
  "Valid": false,
  "RefTone": -1,
  "HypothesisTone": -1
}
},
{
  "MemBeginTime": 370,
  "MemEndTime": 590,
  "PronAccuracy": 26.118675,
  "PronFluency": 0.9730186,
  "Word": "would",
  "MatchTag": 0,
  "PhoneInfos": [
    {
      "MemBeginTime": 370,
      "MemEndTime": 460,
      "PronAccuracy": 54.993282,
      "DetectedStress": false,
      "Phone": "w",
      "Stress": false,
      "ReferencePhone": "",
      "MatchTag": 0,
      "ReferenceLetter": ""
    },
    {
      "MemBeginTime": 460,
      "MemEndTime": 510,
      "PronAccuracy": 14.068562,
      "DetectedStress": false,
      "Phone": "uh",
```

```

        "Stress": false,
        "ReferencePhone": "",
        "MatchTag": 0,
        "ReferenceLetter": ""
    },
    {
        "MemBeginTime": 510,
        "MemEndTime": 590,
        "PronAccuracy": 9.294175,
        "DetectedStress": false,
        "Phone": "d",
        "Stress": false,
        "ReferencePhone": "",
        "MatchTag": 0,
        "ReferenceLetter": ""
    }
],
"ReferenceWord": "would_1",
"KeywordTag": 0,
"Tone": {
    "Valid": false,
    "RefTone": -1,
    "HypothesisTone": -1
}
},
{
    "MemBeginTime": 590,
    "MemEndTime": 940,
    "PronAccuracy": 74.74005,
    "PronFluency": 0.9638893,
    "Word": "like",
    "MatchTag": 0,
    "PhoneInfos": [
        {
            "MemBeginTime": 590,
            "MemEndTime": 690,
            "PronAccuracy": 47.80338,
            "DetectedStress": false,
            "Phone": "l",
            "Stress": false,
            "ReferencePhone": "",
            "MatchTag": 0,
            "ReferenceLetter": ""
        }
    ]
}

```

```
},
{
  "MemBeginTime": 690,
  "MemEndTime": 830,
  "PronAccuracy": 94.85252,
  "DetectedStress": false,
  "Phone": "ay",
  "Stress": false,
  "ReferencePhone": "",
  "MatchTag": 0,
  "ReferenceLetter": ""
},
{
  "MemBeginTime": 830,
  "MemEndTime": 940,
  "PronAccuracy": 81.56426,
  "DetectedStress": false,
  "Phone": "k",
  "Stress": false,
  "ReferencePhone": "",
  "MatchTag": 0,
  "ReferenceLetter": ""
}
],
"ReferenceWord": "like_2",
"KeywordTag": 0,
"Tone": {
  "Valid": false,
  "RefTone": -1,
  "HypothesisTone": -1
}
},
{
  "MemBeginTime": 940,
  "MemEndTime": 1130,
  "PronAccuracy": 50.105522,
  "PronFluency": 0.9484146,
  "Word": "to",
  "MatchTag": 0,
  "PhoneInfos": [
    {
      "MemBeginTime": 940,
      "MemEndTime": 990,
```

```
    "PronAccuracy": 71.745056,
    "DetectedStress": false,
    "Phone": "t",
    "Stress": false,
    "ReferencePhone": "",
    "MatchTag": 0,
    "ReferenceLetter": ""
  },
  {
    "MemBeginTime": 990,
    "MemEndTime": 1130,
    "PronAccuracy": 28.465998,
    "DetectedStress": false,
    "Phone": "ah",
    "Stress": false,
    "ReferencePhone": "",
    "MatchTag": 0,
    "ReferenceLetter": ""
  }
],
"ReferenceWord": "to_3",
"KeywordTag": 0,
"Tone": {
  "Valid": false,
  "RefTone": -1,
  "HypothesisTone": -1
}
},
{
  "MemBeginTime": 1130,
  "MemEndTime": 1570,
  "PronAccuracy": 96.52777,
  "PronFluency": 0.85671043,
  "Word": "eat",
  "MatchTag": 0,
  "PhoneInfos": [
    {
      "MemBeginTime": 1130,
      "MemEndTime": 1420,
      "PronAccuracy": 95.48253,
      "DetectedStress": false,
      "Phone": "iy",
      "Stress": false,
```

```
    "ReferencePhone": "",
    "MatchTag": 0,
    "ReferenceLetter": ""
  },
  {
    "MemBeginTime": 1420,
    "MemEndTime": 1570,
    "PronAccuracy": 97.57301,
    "DetectedStress": false,
    "Phone": "t",
    "Stress": false,
    "ReferencePhone": "",
    "MatchTag": 0,
    "ReferenceLetter": ""
  }
],
"ReferenceWord": "eat_4",
"KeywordTag": 0,
"Tone": {
  "Valid": false,
  "RefTone": -1,
  "HypothesisTone": -1
}
},
{
  "MemBeginTime": 1570,
  "MemEndTime": 1870,
  "PronAccuracy": 52.039986,
  "PronFluency": 0.9176507,
  "Word": "an",
  "MatchTag": 0,
  "PhoneInfos": [
    {
      "MemBeginTime": 1570,
      "MemEndTime": 1690,
      "PronAccuracy": 96.504974,
      "DetectedStress": false,
      "Phone": "ae",
      "Stress": false,
      "ReferencePhone": "",
      "MatchTag": 0,
      "ReferenceLetter": ""
    }
  ],
}
```

```
{
  "MemBeginTime": 1690,
  "MemEndTime": 1870,
  "PronAccuracy": 7.575003,
  "DetectedStress": false,
  "Phone": "n",
  "Stress": false,
  "ReferencePhone": "",
  "MatchTag": 0,
  "ReferenceLetter": ""
}
],
"ReferenceWord": "an_5",
"KeywordTag": 0,
"Tone": {
  "Valid": false,
  "RefTone": -1,
  "HypothesisTone": -1
}
},
{
  "MemBeginTime": 1870,
  "MemEndTime": 2510,
  "PronAccuracy": 78.807625,
  "PronFluency": 0.93245,
  "Word": "orange",
  "MatchTag": 0,
  "PhoneInfos": [
    {
      "MemBeginTime": 1870,
      "MemEndTime": 2010,
      "PronAccuracy": 67.70299,
      "DetectedStress": false,
      "Phone": "ao",
      "Stress": false,
      "ReferencePhone": "",
      "MatchTag": 0,
      "ReferenceLetter": ""
    },
    {
      "MemBeginTime": 2010,
      "MemEndTime": 2070,
      "PronAccuracy": 77.530304,
```



```
"DetectedStress": false,
"Phone": "r",
"Stress": false,
"ReferencePhone": "",
"MatchTag": 0,
"ReferenceLetter": ""
},
{
  "MemBeginTime": 2070,
  "MemEndTime": 2160,
  "PronAccuracy": 88.563896,
  "DetectedStress": false,
  "Phone": "ih",
  "Stress": false,
  "ReferencePhone": "",
  "MatchTag": 0,
  "ReferenceLetter": ""
},
{
  "MemBeginTime": 2160,
  "MemEndTime": 2310,
  "PronAccuracy": 63.245743,
  "DetectedStress": false,
  "Phone": "n",
  "Stress": false,
  "ReferencePhone": "",
  "MatchTag": 0,
  "ReferenceLetter": ""
},
{
  "MemBeginTime": 2310,
  "MemEndTime": 2510,
  "PronAccuracy": 96.99516,
  "DetectedStress": false,
  "Phone": "jh",
  "Stress": false,
  "ReferencePhone": "",
  "MatchTag": 0,
  "ReferenceLetter": ""
}
],
"ReferenceWord": "orange_6",
"KeywordTag": 0,
```

```
    "Tone": {
      "Valid": false,
      "RefTone": -1,
      "HypothesisTone": -1
    }
  },
  "SessionId": "02e31d98-2b99-11ee-a107-acde48001122",
  "AudioUrl": "",
  "SentenceInfoSet": [],
  "Status": "Finished",
  "SuggestedScore": 65.87381,
  "RefTextId": -1,
  "KeywordHits": [],
  "UnKeywordHits": [],
  "RequestId": "eb75588b-3429-46e4-a247-4a6ca7702a27"
}
```

段落评测模式

最近更新时间：2024-06-26 17:38:52

评测模式描述

- 评测要求：支持不超过120个单词或者汉字，300秒音频时长。
- 评测维度：支持返回单词精准度，流利度，完整度。
- 评测功能：支持实时评测，原始单词，多组文本，主题词和关键词。

请求参数

主要请求参数说明：

参数名称	类型	描述
RefText	String	被评估文本。不超过120个单词
EvalMode	Integer	评估模式。2：段落评测模式
ServerType	Integer	评估语言。0：英文

请求示例

```
{
  "RefText": "i go to school by bus",
  "EvalMode": 2,
  "ServerType": 0,
  "WorkMode": 1,
  "UserVoiceData": "UklGRka1CQBxQVZFZm10IBAAAAABAAEAgD4E*",
  "SeqId": 1,
  "IsEnd": 1,
  "VoiceFileType": 3,
  "VoiceEncodeType": 1,
  "SessionId": "9624-1668742474510-72461",
  "ScoreCoeff": 1.0
}
```

返回结果

主要返回结果说明：

参数名称	类型	描述
SuggestedScore	Integer	建议评分
PronAccuracy	Integer	整体精准度
PronFluency	Integer	整体流利度
PronCompletion	Integer	整体完整度
Words.PronAccuracy	Integer	单词精准度
Words.PronFluency	Integer	单词流利度
Words.MatchTag	Integer	当前词的音频与文本的匹配情况

返回示例

```
{
  "SuggestedScore":55.01958715326735,
  "PronAccuracy":61.897034,
  "PronFluency":0.7652744,
  "PronCompletion":0.6666667,
  "RequestId":"718134cd-ea66-4564-bc0b-2b5f79db1479",
  "Words":[
    {
      "MemBeginTime":1160,
      "MemEndTime":2330,
      "PronAccuracy":89.132675,
      "PronFluency":0.33263165,
      "ReferenceWord":"i_0",
      "Word":"i",
      "MatchTag":0,
      "KeywordTag":0,
      "PhoneInfos":[]
    }
  ],
  {
    "MemBeginTime":2400,
    "MemEndTime":2460,
    "PronAccuracy":0.017944,
    "PronFluency":1,
    "ReferenceWord":"go_1",
    "Word":"go",
```

```
    "MatchTag":0,
    "KeywordTag":0,
    "PhoneInfos":[

]
},
{
    "MemBeginTime":3150,
    "MemEndTime":3180,
    "PronAccuracy":-1,
    "PronFluency":-1,
    "ReferenceWord":"*",
    "Word":"*",
    "MatchTag":1,
    "KeywordTag":0,
    "PhoneInfos":[

]
},
{
    "MemBeginTime":3320,
    "MemEndTime":3970,
    "PronAccuracy":-1,
    "PronFluency":-1,
    "ReferenceWord":"to_2",
    "Word":"to",
    "MatchTag":3,
    "KeywordTag":0,
    "PhoneInfos":[

]
},
{
    "MemBeginTime":5090,
    "MemEndTime":5710,
    "PronAccuracy":-1,
    "PronFluency":-1,
    "ReferenceWord":"*",
    "Word":"*",
    "MatchTag":1,
    "KeywordTag":0,
    "PhoneInfos":[
```

```
]
},
{
  "MemBeginTime":6030,
  "MemEndTime":6950,
  "PronAccuracy":67.58584,
  "PronFluency":0.855894,
  "ReferenceWord":"school_3",
  "Word":"school",
  "MatchTag":0,
  "KeywordTag":0,
  "PhoneInfos":[

]
},
{
  "MemBeginTime":7380,
  "MemEndTime":7890,
  "PronAccuracy":82.411026,
  "PronFluency":0.8578096,
  "ReferenceWord":"by_4",
  "Word":"by",
  "MatchTag":0,
  "KeywordTag":0,
  "PhoneInfos":[

]
},
{
  "MemBeginTime":8070,
  "MemEndTime":8900,
  "PronAccuracy":70.337685,
  "PronFluency":0.780037,
  "ReferenceWord":"bus_5",
  "Word":"bus",
  "MatchTag":0,
  "KeywordTag":0,
  "PhoneInfos":[

]
}
],
"SessionId":"9624-1668742474510-72461",
```

```
"Status": "Finished",
}
```

实时评测

主要作用是获取实时中间结果，实时展示评测内容。评测结果以最终结果为准。实现方式可参考 [语音输入模式 -- 流式评测](#)。

请求参数

主要请求参数说明：

参数名称	类型	描述
RefText	String	被评估文本。不超过120个单词。
EvalMode	Integer	评估模式。2：段落评测模式
ServerType	Integer	评估语言。0：英文
WorkMode	Integer	语音输入模式。0：流式分片
SentenceInfoEnabled	Integer	输出断句中间结果标识。1：输出

请求示例

```
{
  "RefText": "i go to school by bus",
  "EvalMode": 2,
  "ServerType": 0,
  "WorkMode": 0,
  "SentenceInfoEnabled": 1,
  "UserVoiceData": "UklGRka1CQBxQVZFZm10IBAAAAAABAEEAgD4E*",
  "SeqId": 1,
  "IsEnd": 0,
  "VoiceFileType": 3,
  "VoiceEncodeType": 1,
  "SessionId": "c089bc5e-66f4-11ed-b1c7-acde48001122",
  "ScoreCoeff": 1.0
}
```

返回结果

主要返回结果说明：

参数名称	类型	描述
SentenceInfoSet.Words.PronAccuracy	Integer	单词精准度
SentenceInfoSet.Words.PronFluency	Integer	单词流利度
SentenceInfoSet.Words.MatchTag	Integer	当前词的音频与文本的匹配情况

返回示例

```

{
  "PronAccuracy": -1,
  "PronFluency": -1,
  "PronCompletion": 0.5,
  "Words": Array[3],
  "SessionId": "c089bc5e-66f4-11ed-b1c7-acde48001122",
  "AudioUrl": "",
  "SentenceInfoSet": [
    {
      "SentenceId": 0,
      "Words": [
        {
          "MemBeginTime": 1090,
          "MemEndTime": 1580,
          "PronAccuracy": 96.12227,
          "PronFluency": 0.7536842,
          "Word": "i",
          "MatchTag": 0,
          "PhoneInfos": [
          ],
          "ReferenceWord": "i_0",
          "KeywordTag": 0
        },
        {
          "MemBeginTime": 1610,
          "MemEndTime": 1870,
          "PronAccuracy": 97.68817,
          "PronFluency": 0.9448819,
          "Word": "go",
          "MatchTag": 0,
        }
      ]
    }
  ]
}
    
```



```
        "PhoneInfos": [
            ],
            "ReferenceWord": "go_1",
            "KeywordTag": 0
        },
        {
            "MemBeginTime": 1870,
            "MemEndTime": 2130,
            "PronAccuracy": 98.834595,
            "PronFluency": 0.94608915,
            "Word": "to",
            "MatchTag": 0,
            "PhoneInfos": [
                ],
                "ReferenceWord": "to_2",
                "KeywordTag": 0
            }
        ],
        "PronAccuracy": -1,
        "PronFluency": -1,
        "PronCompletion": 0.5,
        "SuggestedScore": 0,
        "RefTextId": -1,
        "KeyWordHits": [
            ],
            "UnKeyWordHits": [
                ]
        ]
    },
    "Status": "Evaluating",
    "SuggestedScore": -0.75,
    "RequestId": "175f2113-91cf-4965-a6ae-ce91ab124722"
}
```

原始单词

数字类型使用英文评测会转换为对应英文单词，可在对应返回字段获取原始数字以及单词下标。

请求参数

主要请求参数说明：

参数名称	类型	描述
RefText	String	被评估文本。不超过30个单词
EvalMode	Integer	评估模式。2：段落评测模式
ServerType	Integer	评估语言。0：英文

请求示例

```
{
  "RefText": "61",
  "EvalMode": 2,
  "ServerType": 0,
  "WorkMode": 1,
  "UserVoiceData": "Uk1GRka1CQBXQVZFZm10IBAAAAABAAEAgD4E*",
  "SeqId": 1,
  "IsEnd": 1,
  "VoiceFileType": 3,
  "VoiceEncodeType": 1,
  "SessionId": "4fcf-1668743785475-74099",
  "ScoreCoeff": 1.0
}
```

返回结果

主要返回结果说明：

参数名称	类型	描述
Words.ReferenceWord	String	原始单词

返回示例

```
{
  "SuggestedScore": 48.603752,
  "PronAccuracy": 48.603752,
  "PronFluency": 0.92909586,
  "PronCompletion": 1,
  "RequestId": "35c4ba32-7490-4372-9c74-e9c097683846",
}
```

```
"Words": [
  {
    "MemBeginTime": 910,
    "MemEndTime": 1950,
    "PronAccuracy": 51.212902,
    "PronFluency": 0.89337784,
    "ReferenceWord": "61_0",
    "Word": "sixty",
    "MatchTag": 0,
    "KeywordTag": 0,
    "PhoneInfos": [

    ]
  },
  {
    "MemBeginTime": 1950,
    "MemEndTime": 2290,
    "PronAccuracy": 45.9946,
    "PronFluency": 0.9648139,
    "ReferenceWord": "61_0",
    "Word": "one",
    "MatchTag": 0,
    "KeywordTag": 0,
    "PhoneInfos": [

    ]
  }
],
"SessionId": "4fcf-1668743785475-74099",
"AudioUrl": "",
"SentenceInfoSet": Array[1],
"Status": "Finished",
"RefTextId": 0,
"KeyWordHits": [

],
"UnKeyWordHits": [

],
"blob": {
}
}
```

主题词和关键词

使用|划分多组文本，每组不超过120个单词。当预设多组文本，没有实时结果。

请求参数

主要请求参数说明：

参数名称	类型	描述
RefText	String	被评估文本
Keyword	String	主题词和关键词。使用 划分不同的关键词
EvalMode	Integer	评估模式。2：段落评测模式
ServerType	Integer	评估语言。0：英文

请求示例

```
{
  "EvalMode": 2,
  "RefText": "i go to school by bus | i go to school by train | i go
to school by car",
  "Keyword": "bus | train | car",
  "UserVoiceData": "UklGRka1CQBxQVZFZm10IBAAAAABAAEAgD4E*",
  "SeqId": 1,
  "IsEnd": 1,
  "VoiceFileType": 3,
  "VoiceEncodeType": 1,
  "SessionId": "a74c17fe-66f5-11ed-885b-acde48001122",
  "ScoreCoeff": 1.0
}
```

返回结果

主要返回结果说明：

参数名称	类型	描述
------	----	----

Words.KeywordTag	String	主题词命中标志
RefTextId	Integer	匹配候选文本的序号
KeyWordHits	Array of Float	主题词命中标志

返回示例

```

{
  "PronAccuracy":96.39211,
  "PronFluency":0.8702884,
  "PronCompletion":1,
  "Words":[
    {
      "MemBeginTime":1190,
      "MemEndTime":1870,
      "PronAccuracy":92.89984,
      "PronFluency":0.6360371,
      "Word":"i",
      "MatchTag":0,
      "PhoneInfos":[

      ],
      "ReferenceWord":"i_0",
      "KeywordTag":0
    },
    {
      "MemBeginTime":1900,
      "MemEndTime":2190,
      "PronAccuracy":98.48607,
      "PronFluency":0.9317913,
      "Word":"go",
      "MatchTag":0,
      "PhoneInfos":[

      ],
      "ReferenceWord":"go_1",
      "KeywordTag":0
    },
    {
      "MemBeginTime":2190,
      "MemEndTime":2470,

```

```
"PronAccuracy":98.90927,
"PronFluency":0.9357265,
"Word":"to",
"MatchTag":0,
"PhoneInfos":[
],
"ReferenceWord":"to_2",
"KeywordTag":0
},
{
  "MemBeginTime":2470,
  "MemEndTime":3030,
  "PronAccuracy":95.359535,
  "PronFluency":0.9408119,
  "Word":"school",
  "MatchTag":0,
  "PhoneInfos":[
],
  "ReferenceWord":"school_3",
  "KeywordTag":0
},
{
  "MemBeginTime":3030,
  "MemEndTime":3370,
  "PronAccuracy":96.6288,
  "PronFluency":0.9061842,
  "Word":"by",
  "MatchTag":0,
  "PhoneInfos":[
],
  "ReferenceWord":"by_4",
  "KeywordTag":0
},
{
  "MemBeginTime":3370,
  "MemEndTime":4070,
  "PronAccuracy":96.06916,
  "PronFluency":0.87117964,
  "Word":"train",
  "MatchTag":0,
```

```
    "PhoneInfos": [
      ],
      "ReferenceWord": "train_5",
      "KeywordTag": 1
    }
  ],
  "SessionId": "a74c17fe-66f5-11ed-885b-acde48001122",
  "Status": "Finished",
  "SuggestedScore": 96.39211,
  "RefTextId": 1,
  "KeyWordHits": [
    0,
    1,
    0
  ],
  "RequestId": "48b6c972-7991-4dae-bf11-f741e49f721c"
}
```

自由说评测模式

最近更新时间：2024-06-26 17:38:52

评测模式描述

- 评测要求：支持不设置文本，直接识别音频内容，最大300秒音频时长。
- 评测维度：支持返回单词精准度，流利度。
- 评测功能：支持实时评测，标点符号。

请求参数

主要请求参数说明

参数名称	类型	描述
RefText	String	被评估文本
EvalMode	Integer	评估模式。3：自由说模式
ServerType	Integer	评估语言。0：英文

请求示例

```
{
  "RefText": "",
  "EvalMode": 3,
  "ServerType": 0,
  "WorkMode": 1,
  "UserVoiceData": "Uk1GRka1CQBXQVZFZm10IBAAAAABAAEAgD4E*",
  "SeqId": 1,
  "IsEnd": 1,
  "VoiceFileType": 3,
  "VoiceEncodeType": 1,
  "SessionId": "42e3-1668752883308-05239",
  "ScoreCoeff": 1.0
}
```

返回结果

主要返回结果说明

参数名称	类型	描述
------	----	----

SuggestedScore	Integer	建议评分
PronAccuracy	Integer	整体精准度
PronFluency	Integer	整体流利度
Words.PronAccuracy	Integer	单词精准度
Words.PronFluency	Integer	单词流利度

返回示例

```
{
  "SuggestedScore":74.029915,
  "PronAccuracy":74.029915,
  "PronFluency":0.82859397,
  "PronCompletion":-1,
  "RequestId":"d4685f40-2120-47d9-8c24-36ce664fe7c6",
  "Words":[
    {
      "MemBeginTime":-1,
      "MemEndTime":-1,
      "PronAccuracy":48.901062,
      "PronFluency":0.57411766,
      "ReferenceWord":"",
      "Word":"i",
      "MatchTag":0,
      "KeywordTag":0,
      "PhoneInfos":[

    ]
  },
  {
    "MemBeginTime":-1,
    "MemEndTime":-1,
    "PronAccuracy":87.44434,
    "PronFluency":0.9160723,
    "ReferenceWord":"",
    "Word":"have",
    "MatchTag":0,
    "KeywordTag":0,
    "PhoneInfos":[
```

```
    ]
  },
  {
    "MemBeginTime":-1,
    "MemEndTime":-1,
    "PronAccuracy":68.30478,
    "PronFluency":0.9327054,
    "ReferenceWord":"","
    "Word":"a",
    "MatchTag":0,
    "KeywordTag":0,
    "PhoneInfos":[

  ]
},
{
  "MemBeginTime":-1,
  "MemEndTime":-1,
  "PronAccuracy":91.469475,
  "PronFluency":0.89148045,
  "ReferenceWord":"","
  "Word":"dream",
  "MatchTag":0,
  "KeywordTag":0,
  "PhoneInfos":[

  ]
}
],
"SessionId":"42e3-1668752883308-05239",
"Status":"Finished"
}
```

实时评测

主要作用是获取实时中间结果，实时展示评测内容。评测结果以最终结果为准。实现方式可参考[语音输入模式 > 流式评测](#)。

请求参数

主要请求参数说明

参数名称	类型	描述
------	----	----

RefText	String	被评估文本
EvalMode	Integer	评估模式。3: 自由说评测
ServerType	Integer	评估语言。0: 英文
WorkMode	Integer	语音输入模式。0: 流式分片
SentenceInfoEnabled	Integer	输出断句中间结果标识。1: 输出

请求示例

```
{
  "RefText": "",
  "EvalMode": 3,
  "ServerType": 0,
  "WorkMode": 0,
  "SentenceInfoEnabled": 1,
  "UserVoiceData": "Uk1GRka1CQBXQVZFZm10IBAAAAABAAEAgD4E*",
  "SeqId": 1,
  "IsEnd": 0,
  "VoiceFileType": 3,
  "VoiceEncodeType": 1,
  "SessionId": "e0750a98-670b-11ed-b54d-acde48001122",
  "ScoreCoeff": 1.0
}
```

返回结果

主要返回结果说明

参数名称	类型	描述
SentenceInfoSet.Words.PronAccuracy	Integer	单词精准度
SentenceInfoSet.Words.PronFluency	Integer	单词流利度

返回示例

```
{
```

```
"PronAccuracy": 96.569855,
"PronFluency": -1,
"PronCompletion": -1,
"Words": "",
"SessionId": "e0750a98-670b-11ed-b54d-acde48001122",
"AudioUrl": "",
"SentenceInfoSet": [
  {
    "SentenceId": 0,
    "Words": [
      {
        "MemBeginTime": -1,
        "MemEndTime": -1,
        "PronAccuracy": 92.89983,
        "PronFluency": 0.6360371,
        "Word": "i",
        "MatchTag": 0,
        "PhoneInfos": [],
        "ReferenceWord": "",
        "KeywordTag": 0
      },
      {
        "MemBeginTime": -1,
        "MemEndTime": -1,
        "PronAccuracy": 98.48607,
        "PronFluency": 0.9317913,
        "Word": "go",
        "MatchTag": 0,
        "PhoneInfos": [],
        "ReferenceWord": "",
        "KeywordTag": 0
      },
      {
        "MemBeginTime": -1,
        "MemEndTime": -1,
        "PronAccuracy": 98.90927,
        "PronFluency": 0.9357265,
        "Word": "to",
        "MatchTag": 0,
        "PhoneInfos": [],
        "ReferenceWord": "",
        "KeywordTag": 0
      }
    ]
  }
],
```

```
{
  "MemBeginTime": -1,
  "MemEndTime": -1,
  "PronAccuracy": 95.359535,
  "PronFluency": 0.9408119,
  "Word": "school",
  "MatchTag": 0,
  "PhoneInfos": [],
  "ReferenceWord": "",
  "KeywordTag": 0
},
{
  "PronAccuracy": 96.569855,
  "PronFluency": -1,
  "PronCompletion": -1,
  "SuggestedScore": 0
},
{
  "Status": "Evaluating",
  "SuggestedScore": 96.569855,
  "RequestId": "bcc31f9b-2da2-48ac-a2d8-a91a16b43763"
}
```

标点符号

使用命令块 `{::cmd{F_PUNC=true}}` 开启标点符号，可以在最终返回结果中输出标点符号。

请求参数

主要请求参数说明

参数名称	类型	描述
RefText	String	被评估文本。使用命令块 <code>{::cmd{F_PUNC=true}}</code> 开启标点符号
EvalMode	Integer	评估模式。3: 自由说模式
ServerType	Integer	评估语言。0: 英文

请求示例

```
{
  "RefText": "{::cmd{F_PUNC=true}}",
  "EvalMode": 3,
```

```
"ServerType": 0,
"WorkMode": 0,
"SentenceInfoEnabled": 1,
"UserVoiceData": "UklGRka1CQBXQVZFZm10IBAAAAABAAEAgD4E*",
"SeqId": 1,
"IsEnd": 0,
"VoiceFileType": 3,
"VoiceEncodeType": 1,
"SessionId": "e0750a98-670b-11ed-b54d-acde48001122",
"ScoreCoeff": 1.0
}
```

返回结果

主要返回结果说明

参数名称	类型	描述
MatchTag	Integer	当前词与输入语句的匹配情况。5：标点符号
Words.Word	String	当前词。当 MatchTag：5时，输出内容为标点符号

返回示例

```
{
  "PronAccuracy": 84.03009,
  "PronFluency": 0.6950822,
  "PronCompletion": -1,
  "Words": [
    {
      "MemBeginTime": -1,
      "MemEndTime": -1,
      "PronAccuracy": 84.60914,
      "PronFluency": 0.92409897,
      "Word": "let's",
      "MatchTag": 0,
      "PhoneInfos": [
      ],
      "ReferenceWord": "",
      "KeywordTag": 0
    }
  ]
}
```

```
"MemBeginTime":-1,
"MemEndTime":-1,
"PronAccuracy":79.91626,
"PronFluency":0.8288893,
"Word":"say",
"MatchTag":0,
"PhoneInfos":[
],
"ReferenceWord":"",
"KeywordTag":0
},
{
"MemBeginTime":-1,
"MemEndTime":-1,
"PronAccuracy":87.56488,
"PronFluency":0.3322581,
"Word":"a",
"MatchTag":0,
"PhoneInfos":[
],
"ReferenceWord":"",
"KeywordTag":0
},
{
"MemBeginTime":-1,
"MemEndTime":-1,
"PronAccuracy":-1,
"PronFluency":-1,
"Word":".",
"MatchTag":5,
"PhoneInfos":[
],
"ReferenceWord":"",
"KeywordTag":0
}
],
"SessionId":"0d92c964-a827-11ed-979d-acde48001122",
"AudioUrl":"",
"SentenceInfoSet":"",
"Status":"Finished",
```

```
"SuggestedScore":84.03009,  
"RefTextId":-1,  
"KeywordHits":[  
  
],  
"UnKeywordHits":[  
  
],  
"RequestId":"5b85bd39-339d-4b57-8e8c-cd8ada05f5e7"  
}
```


单词纠错评测模式

最近更新时间：2024-06-26 17:38:52

评测模式描述

- 评测要求：支持单词，组合词评测。音频数据最长60秒。
- 评测维度：支持返回单词精准度，单词流利度；支持返回音素精准度。
- 评测功能：支持重音检测，标准音素，音素到字母映射，音素到国际音标转换，指定发音，指定国际音标。

请求参数

主要请求参数说明：

参数名称	类型	描述
RefText	String	被评估文本。支持单词，组合词，缩写
EvalMode	Integer	评估模式。4：单词纠错模式
ServerType	Integer	评估语言。0：英文

请求示例

```
{
  "RefText": "chinese",
  "EvalMode": 4,
  "WorkMode": 1,
  "UserVoiceData": "Uk1GRka1CQBXQVZFZm10IBAAAAABAAEAgD4E*",
  "SeqId": 1,
  "IsEnd": 1,
  "VoiceFileType": 3,
  "VoiceEncodeType": 1,
  "SessionId": "89baf4d6-670d-11ed-8365-acde48001122",
  "ScoreCoeff": 1.0
}
```

返回结果

主要返回结果说明：

参数名称	类型	描述
------	----	----

SuggestedScore	Integer	建议评分。一分制
PronAccuracy	Integer	整体精准度。一分制
PronFluency	Integer	整体流利度
Words.PronAccuracy	Integer	单词精准度。百分制
Words.PronFluency	Integer	单词流利度
Words.PhoneInfos.PronAccuracy	Integer	音素精准度
Words.PhoneInfos.Phone	String	当前音频数据对应音素
Words.PhoneInfos.ReferencePhone	String	当前评估文本对应音素
Words.PhoneInfos.Stress	Boolean	当前评估文本对应音素是否为重音
Words.PhoneInfos.DetectedStress	Boolean	当前音频数据对应音素是否为重音

返回示例

```

{
  "PronAccuracy":0.47182983,
  "PronFluency":0.888085,
  "PronCompletion":1,
  "Words":[
    {
      "MemBeginTime":1000,
      "MemEndTime":3010,
      "PronAccuracy":47.182983,
      "PronFluency":0.888085,
      "Word":"chinese",
      "MatchTag":0,
      "PhoneInfos":[
        {
          "MemBeginTime":1000,
          "MemEndTime":1030,
          "PronAccuracy":0.0012280411,

```

```
    "DetectedStress":false,
    "Phone":"ch",
    "Stress":false,
    "ReferencePhone":"ch",
    "MatchTag":0,
    "ReferenceLetter":""
  },
  {
    "MemBeginTime":1200,
    "MemEndTime":1590,
    "PronAccuracy":0.98199654,
    "DetectedStress":false,
    "Phone":"ay",
    "Stress":false,
    "ReferencePhone":"ay",
    "MatchTag":0,
    "ReferenceLetter":""
  },
  {
    "MemBeginTime":1620,
    "MemEndTime":1700,
    "PronAccuracy":0.97322184,
    "DetectedStress":false,
    "Phone":"n",
    "Stress":true,
    "ReferencePhone":"n",
    "MatchTag":0,
    "ReferenceLetter":""
  },
  {
    "MemBeginTime":1700,
    "MemEndTime":1860,
    "PronAccuracy":0.9924901,
    "DetectedStress":false,
    "Phone":"iy",
    "Stress":false,
    "ReferencePhone":"iy",
    "MatchTag":0,
    "ReferenceLetter":""
  },
  {
    "MemBeginTime":1860,
    "MemEndTime":1980,
```

```
    "PronAccuracy":0.95142627,
    "DetectedStress":false,
    "Phone":"d",
    "Stress":false,
    "ReferencePhone":"*",
    "MatchTag":1,
    "ReferenceLetter":""
  },
  {
    "MemBeginTime":1980,
    "MemEndTime":2310,
    "PronAccuracy":0.87193286,
    "DetectedStress":false,
    "Phone":"ah",
    "Stress":false,
    "ReferencePhone":"*",
    "MatchTag":1,
    "ReferenceLetter":""
  },
  {
    "MemBeginTime":2340,
    "MemEndTime":2500,
    "PronAccuracy":0.9722068,
    "DetectedStress":false,
    "Phone":"hh",
    "Stress":false,
    "ReferencePhone":"*",
    "MatchTag":1,
    "ReferenceLetter":""
  },
  {
    "MemBeginTime":2500,
    "MemEndTime":2600,
    "PronAccuracy":0.96199226,
    "DetectedStress":false,
    "Phone":"aa",
    "Stress":false,
    "ReferencePhone":"*",
    "MatchTag":1,
    "ReferenceLetter":""
  },
  {
    "MemBeginTime":2600,
```

```
        "MemEndTime":2680,
        "PronAccuracy":0.9480952,
        "DetectedStress":false,
        "Phone":"r",
        "Stress":false,
        "ReferencePhone":"*",
        "MatchTag":1,
        "ReferenceLetter":""
    },
    {
        "MemBeginTime":2680,
        "MemEndTime":3010,
        "PronAccuracy":0.9764986,
        "DetectedStress":false,
        "Phone":"t",
        "Stress":false,
        "ReferencePhone":"z",
        "MatchTag":3,
        "ReferenceLetter":""
    }
],
"ReferenceWord":"","
"KeywordTag":0
}
],
"SessionId":"89baf4d6-670d-11ed-8365-acde48001122",
"Status":"Finished",
"SuggestedScore":0.47182983,
"RequestId":"bfbb66bb-acd7-405d-8848-86f53182bf6f"
}
```

音素到字母的映射

通过该功能，可以对音素映射字母进行标记。音素到字母映射结构：`:::cmd{F_P2L=true}` + 评估文本。

请求参数

主要请求参数说明：

参数名称	类型	描述
RefText	String	被评估文本
EvalMode	Integer	评估模式。4：单词纠错模式

ServerType	Integer	评估语言。0: 英文
------------	---------	------------

请求示例

```

{
  "RefText": "{::cmd{F_P2L=true}} park",
  "EvalMode": 4,
  "WorkMode": 1,
  "UserVoiceData": "Uk1GRka1CQBxQVZFZm10IBAAAAABAAEAgD4E*",
  "SeqId": 1,
  "IsEnd": 1,
  "VoiceFileType": 3,
  "VoiceEncodeType": 1,
  "SessionId": "67387606-658a-11ed-bb15-acde48001122",
  "ScoreCoeff": 1.0
}
    
```

返回结果

主要返回结果:

参数名称	类型	描述
Words.Word	String	当前单词
Words.PhoneInfos.Phone	String	当前单词的音素
Words.PhoneInfos.Reference Letter	String	当前单词的音素映射的字母

返回示例

```

{
  "PronAccuracy": 0.1680843,
  "PronFluency": 0.88527,
  "PronCompletion": 1,
  "Words": [
    {
      "MemBeginTime": 1190,
      "MemEndTime": 2850,
      "PronAccuracy": 16.80843,
    }
  ]
}
    
```

```
"PronFluency": 0.88527,
"Word": "park",
"MatchTag": 0,
"PhoneInfos": [
  {
    "MemBeginTime": 1190,
    "MemEndTime": 1220,
    "PronAccuracy": 0.005181217,
    "DetectedStress": false,
    "Phone": "p",
    "Stress": false,
    "ReferencePhone": "p",
    "MatchTag": 0,
    "ReferenceLetter": "p_0"
  },
  {
    "MemBeginTime": 1250,
    "MemEndTime": 1600,
    "PronAccuracy": 0.8457455,
    "DetectedStress": false,
    "Phone": "aa",
    "Stress": false,
    "ReferencePhone": "aa",
    "MatchTag": 0,
    "ReferenceLetter": "a_1"
  },
  {
    "MemBeginTime": 1630,
    "MemEndTime": 1710,
    "PronAccuracy": 0.9573671,
    "DetectedStress": false,
    "Phone": "n",
    "Stress": false,
    "ReferencePhone": "*",
    "MatchTag": 1,
    "ReferenceLetter": ""
  },
  {
    "MemBeginTime": 1710,
    "MemEndTime": 1850,
    "PronAccuracy": 0.9909292,
    "DetectedStress": false,
    "Phone": "iy",
```

```
"Stress": false,
"ReferencePhone": "*",
"MatchTag": 1,
"ReferenceLetter": ""
},
{
  "MemBeginTime": 1850,
  "MemEndTime": 1970,
  "PronAccuracy": 0.9580225,
  "DetectedStress": false,
  "Phone": "d",
  "Stress": false,
  "ReferencePhone": "r",
  "MatchTag": 3,
  "ReferenceLetter": "r_2"
},
{
  "MemBeginTime": 1970,
  "MemEndTime": 2330,
  "PronAccuracy": 0.90209043,
  "DetectedStress": false,
  "Phone": "ah",
  "Stress": false,
  "ReferencePhone": "*",
  "MatchTag": 1,
  "ReferenceLetter": ""
},
{
  "MemBeginTime": 2360,
  "MemEndTime": 2530,
  "PronAccuracy": 0.9661365,
  "DetectedStress": false,
  "Phone": "hh",
  "Stress": false,
  "ReferencePhone": "*",
  "MatchTag": 1,
  "ReferenceLetter": ""
},
{
  "MemBeginTime": 2530,
  "MemEndTime": 2670,
  "PronAccuracy": 0.9358872,
  "DetectedStress": false,
```



```
    "Phone": "er",
    "Stress": false,
    "ReferencePhone": "*",
    "MatchTag": 1,
    "ReferenceLetter": ""
  },
  {
    "MemBeginTime": 2670,
    "MemEndTime": 2850,
    "PronAccuracy": 0.9748455,
    "DetectedStress": false,
    "Phone": "t",
    "Stress": false,
    "ReferencePhone": "k",
    "MatchTag": 3,
    "ReferenceLetter": "k_3"
  }
],
"ReferenceWord": "",
"KeywordTag": 0
}
],
"SessionId": "67387606-658a-11ed-bb15-acde48001122",
"Status": "Finished",
"SuggestedScore": 0.1680843,
"RequestId": "60a34e41-9e6b-482c-9934-0564748a8c33"
}
```

音素到国际音标转换

默认返回智聆音素，使用 `{::cmd{F_IPA=true}}` + 单词 开启 音素到国际 标转换功能。

请求参数

主要请求参数说明：

参数名称	类型	描述
RefText	String	被评估文本
EvalMode	Integer	评估模式。4：单词纠错评测模式
ServerType	Integer	评估语言。0：英文

请求示例

```
{
  "RefText": "{::cmd{F_IPA=true}}happy",
  "EvalMode": 4,
  "ServerType": 0,
  "WorkMode": 1,
  "UserVoiceData": "Uk1GRka1CQBXQVZFZm10IBAAAAABAAE*",
  "SeqId": 1,
  "IsEnd": 1,
  "VoiceFileType": 3,
  "VoiceEncodeType": 1,
  "SessionId": "ca0cb65e-694d-11ed-b467-acde48001122",
  "ScoreCoeff": 1.0
}
```

返回结果

返回结果说明:

参数名称	类型	描述
Words.PhoneInfos.Phone	Integer	当前音节

返回示例

```
{
  "PronAccuracy": 0.97201085,
  "PronFluency": 0.84378105,
  "PronCompletion": 1,
  "Words": [
    {
      "MemBeginTime": 170,
      "MemEndTime": 1150,
      "PronAccuracy": 97.20109,
      "PronFluency": 0.84378105,
      "Word": "happy",
      "MatchTag": 0,
      "PhoneInfos": [
        {
          "MemBeginTime": 170,
          "MemEndTime": 350,
          "PronAccuracy": 0.9581233,
          "DetectedStress": true,
          "Phone": "'h",
```

```
"Stress": true,
"ReferencePhone": "h",
"MatchTag": 0,
"ReferenceLetter": ""
},
{
"MemBeginTime": 350,
"MemEndTime": 510,
"PronAccuracy": 0.9581154,
"DetectedStress": false,
"Phone": "æ",
"Stress": false,
"ReferencePhone": "æ",
"MatchTag": 0,
"ReferenceLetter": ""
},
{
"MemBeginTime": 510,
"MemEndTime": 730,
"PronAccuracy": 0.98160344,
"DetectedStress": false,
"Phone": "p",
"Stress": false,
"ReferencePhone": "p",
"MatchTag": 0,
"ReferenceLetter": ""
},
{
"MemBeginTime": 730,
"MemEndTime": 1150,
"PronAccuracy": 0.9902012,
"DetectedStress": false,
"Phone": "i",
"Stress": false,
"ReferencePhone": "i",
"MatchTag": 0,
"ReferenceLetter": ""
}
],
"ReferenceWord": "",
"KeywordTag": 0,
"Tone": {
"Valid": false,
```

```
    "RefTone": -1,
    "HypothesisTone": -1
  }
},
"SessionId": "7f4677e0-2b8a-11ee-b529-acde48001122",
"AudioUrl": "",
"SentenceInfoSet": [],
"Status": "Finished",
"SuggestedScore": 0.97201085,
"RefTextId": -1,
"KeyWordHits": [],
"UnKeyWordHits": [],
"RequestId": "54da4ced-6d2b-4e24-9007-c182830d4d92"
}
```

指定发音

使用 `单词{::pron{p1,p2..},{p3,p4..}..}` 指定发音，需要将国际音标通过音素映射表转换为智聆音素，参考 [音素映射表 -- 智聆音素](#)。

请求参数

主要请求参数说明：

参数名称	类型	描述
RefText	String	被评估文本
EvalMode	Integer	评估模式。4：单词纠错评测模式
ServerType	Integer	评估语言。0：英文

请求示例

音标

```
{
  "RefText": "au{::pron{aw}}",
  "EvalMode": 4,
  "ServerType": 0,
  "WorkMode": 1,
  "UserVoiceData": "Uk1GRka1CQBxQVZFZm10IBAAAAABAAE*",
}
```

```
"SeqId":1,
"IsEnd":1,
"VoiceFileType":3,
"VoiceEncodeType":1,
"SessionId":"ca0cb65e-694d-11ed-b467-acde48001122",
"ScoreCoeff":1.0
}
```

单词

```
{
  "RefText": "happy{::pron{hh,ae,p,iy}}",
  "EvalMode": 4,
  "ServerType":0,
  "WorkMode":1,
  "UserVoiceData":"UklGRka1CQBxQVZFZm10IBAAAAABAAE*",
  "SeqId":1,
  "IsEnd":1,
  "VoiceFileType":3,
  "VoiceEncodeType":1,
  "SessionId":"ca0cb65e-694d-11ed-b467-acde48001122",
  "ScoreCoeff":1.0
}
```

多音词

```
{
  "RefText": "use{::pron{y,uw,z},{y,uw,s}}",
  "EvalMode": 4,
  "ServerType":0,
  "WorkMode":1,
  "UserVoiceData":"UklGRka1CQBxQVZFZm10IBAAAAABAAE*",
  "SeqId":1,
  "IsEnd":1,
  "VoiceFileType":3,
  "VoiceEncodeType":1,
  "SessionId":"ca0cb65e-694d-11ed-b467-acde48001122",
  "ScoreCoeff":1.0
}
```

返回结果

主要返回结果说明：

参数名称	类型	描述
SuggestedScore	Integer	建议评分
PronAccuracy	Integer	整体精准度
PronFluency	Integer	整体流利度
Words.PronAccuracy	Integer	单词精准度
Words.PronFluency	Integer	单词流利度
Words.PhoneInfos.PronAccuracy	Integer	音素精准度

返回示例

```
{
  "PronAccuracy": 0.9720109,
  "PronFluency": 0.84378105,
  "PronCompletion": 1,
  "Words": [
    {
      "MemBeginTime": 170,
      "MemEndTime": 1150,
      "PronAccuracy": 97.20109,
      "PronFluency": 0.84378105,
      "Word": "happy",
      "MatchTag": 0,
      "PhoneInfos": [
        {
          "MemBeginTime": 170,
          "MemEndTime": 350,
          "PronAccuracy": 0.95812345,
          "DetectedStress": true,
          "Phone": "hh",
          "Stress": true,
          "ReferencePhone": "hh",
          "MatchTag": 0,
          "ReferenceLetter": ""
        },
        {
          "MemBeginTime": 350,
```

```
    "MemEndTime": 510,
    "PronAccuracy": 0.95811546,
    "DetectedStress": false,
    "Phone": "ae",
    "Stress": false,
    "ReferencePhone": "ae",
    "MatchTag": 0,
    "ReferenceLetter": ""
  },
  {
    "MemBeginTime": 510,
    "MemEndTime": 730,
    "PronAccuracy": 0.98160344,
    "DetectedStress": false,
    "Phone": "p",
    "Stress": false,
    "ReferencePhone": "p",
    "MatchTag": 0,
    "ReferenceLetter": ""
  },
  {
    "MemBeginTime": 730,
    "MemEndTime": 1150,
    "PronAccuracy": 0.99020123,
    "DetectedStress": false,
    "Phone": "iy",
    "Stress": false,
    "ReferencePhone": "iy",
    "MatchTag": 0,
    "ReferenceLetter": ""
  }
],
"ReferenceWord": "",
"KeywordTag": 0,
"Tone": {
  "Valid": false,
  "RefTone": -1,
  "HypothesisTone": -1
}
},
"SessionId": "7d8825cc-2b97-11ee-9efe-acde48001122",
"AudioUrl": "",
```

```
"SentenceInfoSet": [],
"Status": "Finished",
"SuggestedScore": 0.9720109,
"RefTextId": -1,
"KeywordHits": [],
"UnKeywordHits": [],
"RequestId": "01b3ccb7-fabe-4ee4-b293-7499ac49ea24"
}
```

指定国际音标

使用 `单词{::ipapron{p1,p2..},{p3,p4..}..}` 指定国际音标参考，[音素映射表 -- 国际音标](#)。默认返回智聆音素，返回国际音标需要使用 [音素到国际音标转换](#)。

请求参数

主要请求参数说明：

参数名称	类型	描述
RefText	String	被评估文本
EvalMode	Integer	评估模式。4：单词纠错评测模式
ServerType	Integer	评估语言。0：英文

请求示例

音标

```
{
  "RefText": "au{::ipapron{aʊ}}",
  "EvalMode": 4,
  "ServerType": 0,
  "WorkMode": 1,
  "UserVoiceData": "UklGRka1CQBxQVZFZm10IBAAAAAABAe*",
  "SeqId": 1,
  "IsEnd": 1,
  "VoiceFileType": 3,
  "VoiceEncodeType": 1,
  "SessionId": "ca0cb65e-694d-11ed-b467-acde48001122",
  "ScoreCoeff": 1.0
}
```


单词

```
{
  "RefText": "happy{::ipapron{'h,æ,p,i}}",
  "EvalMode": 4,
  "ServerType": 0,
  "WorkMode": 1,
  "UserVoiceData": "UklGRka1CQBxQVZFZm10IBAAAAABAAE*",
  "SeqId": 1,
  "IsEnd": 1,
  "VoiceFileType": 3,
  "VoiceEncodeType": 1,
  "SessionId": "ca0cb65e-694d-11ed-b467-acde48001122",
  "ScoreCoeff": 1.0
}
```

多音词

```
{
  "RefText": "use{::ipapron{'j,u,z},{j,u,s}}",
  "EvalMode": 4,
  "ServerType": 0,
  "WorkMode": 1,
  "UserVoiceData": "UklGRka1CQBxQVZFZm10IBAAAAABAAE*",
  "SeqId": 1,
  "IsEnd": 1,
  "VoiceFileType": 3,
  "VoiceEncodeType": 1,
  "SessionId": "ca0cb65e-694d-11ed-b467-acde48001122",
  "ScoreCoeff": 1.0
}
```

返回结果

主要返回结果说明：

参数名称	类型	描述
SuggestedScore	Integer	建议评分
PronAccuracy	Integer	整体精准度

PronFluency	Integer	整体流利度
Words.PronAccuracy	Integer	单词精准度
Words.PronFluency	Integer	单词流利度
Words.PhoneInfos.PronAccuracy	Integer	音素精准度

返回示例

```
{
  "PronAccuracy": 0.9720109,
  "PronFluency": 0.84378105,
  "PronCompletion": 1,
  "Words": [
    {
      "MemBeginTime": 170,
      "MemEndTime": 1150,
      "PronAccuracy": 97.20109,
      "PronFluency": 0.84378105,
      "Word": "happy",
      "MatchTag": 0,
      "PhoneInfos": [
        {
          "MemBeginTime": 170,
          "MemEndTime": 350,
          "PronAccuracy": 0.95812345,
          "DetectedStress": true,
          "Phone": "hh",
          "Stress": true,
          "ReferencePhone": "hh",
          "MatchTag": 0,
          "ReferenceLetter": ""
        },
        {
          "MemBeginTime": 350,
          "MemEndTime": 510,
          "PronAccuracy": 0.95811546,
          "DetectedStress": false,
          "Phone": "ae",
          "Stress": false,
          "ReferencePhone": "ae",
          "MatchTag": 0,
        }
      ]
    }
  ]
}
```

```
    "ReferenceLetter": "",
  },
  {
    "MemBeginTime": 510,
    "MemEndTime": 730,
    "PronAccuracy": 0.98160344,
    "DetectedStress": false,
    "Phone": "p",
    "Stress": false,
    "ReferencePhone": "p",
    "MatchTag": 0,
    "ReferenceLetter": ""
  },
  {
    "MemBeginTime": 730,
    "MemEndTime": 1150,
    "PronAccuracy": 0.99020123,
    "DetectedStress": false,
    "Phone": "iy",
    "Stress": false,
    "ReferencePhone": "iy",
    "MatchTag": 0,
    "ReferenceLetter": ""
  }
],
"ReferenceWord": "",
"KeywordTag": 0,
"Tone": {
  "Valid": false,
  "RefTone": -1,
  "HypothesisTone": -1
}
},
"SessionId": "7d8825cc-2b97-11ee-9efe-acde48001122",
"AudioUrl": "",
"SentenceInfoSet": [],
"Status": "Finished",
"SuggestedScore": 0.9720109,
"RefTextId": -1,
"KeyWordHits": [],
"UnKeyWordHits": [],
"RequestId": "01b3ccb7-fabe-4ee4-b293-7499ac49ea24"
```

```
}
```

情景评测模式

最近更新时间：2024-06-26 17:38:52

评测模式描述

- 评测要求：支持不超过30个单词或者汉字，60秒音频时长。
- 评测维度：支持返回单词精准度，流利度，完整度，切题度。
- 评测功能：支持原始单词，多组分支，主题词和关键词，关键词组，候选单词数组，负向关键词。

请求参数

主要请求参数说明

参数名称	类型	描述
RefText	String	被评估文本。可以使用 划分成多个分支
EvalMode	Integer	评估模式。5：情景评测模式
ServerType	Integer	评估语言。0：英文

请求示例

```
{
  "RefText": "i go to school by bus",
  "EvalMode": 5,
  "ServerType": 0,
  "WorkMode": 1,
  "UserVoiceData": "Uk1GRka1CQBXQVZFZm10IBAAAAABAAEAgD4E*",
  "SeqId": 1,
  "IsEnd": 1,
  "VoiceFileType": 3,
  "VoiceEncodeType": 1,
  "SessionId": "619c57c8-6713-11ed-b99b-acde48001122",
  "ScoreCoeff": 1.0
}
```

返回结果

主要返回结果如下：

参数名称	类型	描述
------	----	----

SuggestedScore	Integer	建议评分
PronAccuracy	Integer	整体精准度
PronFluency	Integer	整体流利度
PronCompletion	Integer	整体完整度
Words.PronAccuracy	Integer	单词精准度
Words.PronFluency	Integer	单词流利度
Words.MatchTag	Integer	当前词的音频与文本的匹配情况

返回示例

```

{
  "PronAccuracy":96.392105,
  "PronFluency":0.8702884,
  "PronCompletion":1,
  "Words":[
    {
      "MemBeginTime":290,
      "MemEndTime":970,
      "PronAccuracy":92.89983,
      "PronFluency":0.6360371,
      "Word":"i",
      "MatchTag":0,
      "PhoneInfos":[
      ],
      "ReferenceWord":"i_0",
      "KeywordTag":0
    },
    {
      "MemBeginTime":1000,
      "MemEndTime":1290,
      "PronAccuracy":98.48607,
      "PronFluency":0.9317913,
      "Word":"go",
      "MatchTag":0,
      "PhoneInfos":[
    
```

```
],
  "ReferenceWord": "go_1",
  "KeywordTag": 0
},
{
  "MemBeginTime": 1290,
  "MemEndTime": 1570,
  "PronAccuracy": 98.90927,
  "PronFluency": 0.9357265,
  "Word": "to",
  "MatchTag": 0,
  "PhoneInfos": [

  ],
  "ReferenceWord": "to_2",
  "KeywordTag": 0
},
{
  "MemBeginTime": 1570,
  "MemEndTime": 2130,
  "PronAccuracy": 95.359535,
  "PronFluency": 0.9408119,
  "Word": "school",
  "MatchTag": 0,
  "PhoneInfos": [

  ],
  "ReferenceWord": "school_3",
  "KeywordTag": 0
},
{
  "MemBeginTime": 2130,
  "MemEndTime": 2470,
  "PronAccuracy": 96.6288,
  "PronFluency": 0.9061842,
  "Word": "by",
  "MatchTag": 0,
  "PhoneInfos": [

  ],
  "ReferenceWord": "by_4",
  "KeywordTag": 0
},
}
```

```
{
  "MemBeginTime":2470,
  "MemEndTime":3170,
  "PronAccuracy":96.06916,
  "PronFluency":0.87117964,
  "Word":"train",
  "MatchTag":0,
  "PhoneInfos":[
  ],
  "ReferenceWord":"train_5",
  "KeywordTag":0
},
{
  "SessionId":"619c57c8-6713-11ed-b99b-acde48001122",
  "Status":"Finished",
  "SuggestedScore":96.392105,
  "RefTextId":1,
  "RequestId":"8f3ed8d5-0a7c-4965-9bbe-cd4c9c7ca3c8"
}
```

主题词和关键词

可以使用|划分多组文本，每组不超过120个单词。

请求参数

主要请求参数说明

参数名称	类型	描述
RefText	String	被评估文本
Keyword	String	主题词和关键词。使用 划分不同主题词，使用#划分不同主题词组
EvalMode	Integer	评估模式。5：情景评测模式
ServerType	Integer	评估语言。0：英文

请求示例

```
{
  "RefText": "i go to school by bus | i go to school by train | i go to school by car",
```



```
"EvalMode": 5,
"Keyword": "bus | {::cmd{F_UKEY=true}} train # car",
"WorkMode": 1,
"UserVoiceData": "UklGRka1CQBXQVZFZm10IBAAAAABAAEAgD4E*",
"SeqId": 1,
"IsEnd": 1,
"VoiceFileType": 3,
"VoiceEncodeType": 1,
"SessionId": "dd507d7a-658f-11ed-91af-acde48001122",
"ScoreCoeff": 1.0
}
```

返回结果

主要返回结果

参数名称	类型	描述
PronAccuracy	Integer	准确度
PronCompletion	Integer	切题度
Words.KeywordTag	String	主题词命中标志
RefTextId	Integer	匹配候选文本的序号
KeyWordHits	Array of Float	主题词命中标志
UnKeyWordHits	Array of Float	负向主题词命中标志

返回示例

```
{
  "PronAccuracy": 96.20276,
  "PronFluency": 0.81560373,
  "PronCompletion": -1,
  "Words": [
    {
      "MemBeginTime": 270,
      "MemEndTime": 660,
      "PronAccuracy": 96.20276,
      "PronFluency": 0.81560373,
      "Word": "i",
      "MatchTag": 0,
    }
  ]
}
```

```
"PhoneInfos": [],
"ReferenceWord": "i_0",
"KeywordTag": 0
},
{
  "MemBeginTime": -1,
  "MemEndTime": -1,
  "PronAccuracy": -1,
  "PronFluency": -1,
  "Word": "go",
  "MatchTag": 2,
  "PhoneInfos": [],
  "ReferenceWord": "go_1",
  "KeywordTag": 0
},
{
  "MemBeginTime": -1,
  "MemEndTime": -1,
  "PronAccuracy": -1,
  "PronFluency": -1,
  "Word": "to",
  "MatchTag": 2,
  "PhoneInfos": [],
  "ReferenceWord": "to_2",
  "KeywordTag": 0
},
{
  "MemBeginTime": -1,
  "MemEndTime": -1,
  "PronAccuracy": -1,
  "PronFluency": -1,
  "Word": "school",
  "MatchTag": 3,
  "PhoneInfos": [],
  "ReferenceWord": "school_3",
  "KeywordTag": 0
},
{
  "MemBeginTime": -1,
  "MemEndTime": -1,
  "PronAccuracy": -1,
  "PronFluency": -1,
  "Word": "by",
```

```
    "MatchTag": 3,
    "PhoneInfos": [],
    "ReferenceWord": "by_4",
    "KeywordTag": 0
  },
  {
    "MemBeginTime": -1,
    "MemEndTime": -1,
    "PronAccuracy": -1,
    "PronFluency": -1,
    "Word": "car",
    "MatchTag": 3,
    "PhoneInfos": [],
    "ReferenceWord": "car_5",
    "KeywordTag": 0
  }
],
"SessionId": "dd507d7a-658f-11ed-91af-acde48001122",
"Status": "Finished",
"SuggestedScore": 96.20276,
"RefTextId": 2,
"KeyWordHits": [
  0
],
"UnKeyWordHits": [],
"RequestId": "204bb73f-e1b2-45ab-b2f7-188cc765cecc"
}
```

候选单词数组

除了使用 | 划分不同分支，也可以使用 @@{::words{文本}, {文本}} 来划分多个分支。二者可以同时使用。

请求参数

主要请求参数说明

参数名称	类型	描述
RefText	String	被评估文本。@@{::words{文本}, {文本}}表示候选单词数组
EvalMode	Integer	评估模式。5：情景评测模式
ServerType	Integer	评估语言。0：英文

请求示例

```
{
  "RefText": "i go to school by @@@{::words{bus}, {train},{bike}}",
  "EvalMode": 5,
  "Keyword": "{::cmd{F_UKEY=true}} bus | train # bike",
  "WorkMode": 1,
  "UserVoiceData": "UklGRka1CQBXQVZFZm10IBAAAAABAAEAgD4E*",
  "SeqId": 1,
  "IsEnd": 1,
  "VoiceFileType": 3,
  "VoiceEncodeType": 1,
  "SessionId": "dc0653c8-a82d-11ed-b481-acde48001122",
  "ScoreCoeff": 1.0
}
```

返回结果

主要返回结果

参数名称	类型	描述
SuggestedScore	Integer	建议评分
PronAccuracy	Integer	整体精准度
PronFluency	Integer	整体流利度
PronCompletion	Integer	整体完整度
Words.PronAccuracy	Integer	单词精准度
Words.PronFluency	Integer	单词流利度
Words.MatchTag	Integer	当前词的音频与文本的匹配情况

返回示例

```
{
  "PronAccuracy": 91.329956,
  "PronFluency": 0.8702884,
  "PronCompletion": 1,
  "Words": [
    {
      "MemBeginTime": 1190,
```

```
"MemEndTime":1870,
"PronAccuracy":82.92161,
"PronFluency":0.6360371,
"Word":"i",
"MatchTag":0,
"PhoneInfos":[
],
"ReferenceWord":"i_0",
"KeywordTag":0
},
{
"MemBeginTime":1900,
"MemEndTime":2190,
"PronAccuracy":96.28798,
"PronFluency":0.9317913,
"Word":"go",
"MatchTag":0,
"PhoneInfos":[
],
"ReferenceWord":"go_1",
"KeywordTag":0
},
{
"MemBeginTime":2190,
"MemEndTime":2470,
"PronAccuracy":97.32407,
"PronFluency":0.9357265,
"Word":"to",
"MatchTag":0,
"PhoneInfos":[
],
"ReferenceWord":"to_2",
"KeywordTag":0
},
{
"MemBeginTime":2470,
"MemEndTime":3030,
"PronAccuracy":89.225395,
"PronFluency":0.9408119,
"Word":"school",
```

```
    "MatchTag":0,
    "PhoneInfos":[

],
    "ReferenceWord":"school_3",
    "KeywordTag":0
},
{
    "MemBeginTime":3030,
    "MemEndTime":3370,
    "PronAccuracy":91.76378,
    "PronFluency":0.9061842,
    "Word":"by",
    "MatchTag":0,
    "PhoneInfos":[

],
    "ReferenceWord":"by_4",
    "KeywordTag":0
},
{
    "MemBeginTime":3370,
    "MemEndTime":4070,
    "PronAccuracy":90.4569,
    "PronFluency":0.87117964,
    "Word":"train",
    "MatchTag":0,
    "PhoneInfos":[

],
    "ReferenceWord":"@@_5",
    "KeywordTag":1
}
],
"SessionId":"dc0653c8-a82d-11ed-b481-acde48001122",
"AudioUrl":"","
"SentenceInfoSet":"","
>Status":"Finished",
"SuggestedScore":91.329956,
"RefTextId":0,
"KeyWordHits":[
    1
],
```

```
"UnKeywordHits": [
],
"RequestId": "d1c9a764-6ce1-4935-b173-a5d5090228f9"
}
```

负向主题词

使用 `::cmd{F_UKEY=true}` 表示负向主题词，匹配到负向主题词评分为0。

请求参数

主要请求参数说明

参数名称	类型	描述
RefText	String	被评估文本。
EvalMode	Integer	评估模式。5: 情景评测模式
ServerType	Integer	评估语言。0: 英文

请求示例

```
{
  "RefText": "i go to school by @::words{train}, {bus},{bike}",
  "EvalMode": 5,
  "Keyword": "::cmd{F_UKEY=true} train | bus # bike",
  "WorkMode": 1,
  "UserVoiceData": "UklGRka1CQBxQVZFZm10IBAAAAABAAEAgD4E*",
  "SeqId": 1,
  "IsEnd": 1,
  "VoiceFileType": 3,
  "VoiceEncodeType": 1,
  "SessionId": "6d05b40a-a841-11ed-84fd-acde48001122",
  "ScoreCoeff": 1.0
}
```

返回结果

主要返回结果

参数名称	类型	描述
------	----	----

UnKeyWordHits

Array of Float

负向主题词命中标志

返回示例

```
{
  "PronAccuracy":0,
  "PronFluency":-1,
  "PronCompletion":-1,
  "Words": [
  ],
  "SessionId":"6d05b40a-a841-11ed-84fd-acde48001122",
  "AudioUrl":"",
  "SentenceInfoSet":"",
  "Status":"Finished",
  "SuggestedScore":0,
  "RefTextId":-1,
  "KeyWordHits": [
  ],
  "UnKeyWordHits": [
    1
  ],
  "RequestId":"38bb7d7f-bb0c-40bd-a929-82dfe93f5b7a"
}
```


句子多分支评测模式

最近更新时间：2024-06-26 17:38:52

评测模式描述

- 评测要求：支持多组评估文本，每组不超过30个字。音频数据最长60秒。
- 评测维度：支持返回单词精准度，流利度，完整度；支持返回音素精准度。
- 评测功能：多组文本，音素到字母映射，音素到国际音标。

请求参数

主要请求参数说明：

参数名称	类型	描述
RefText	String	被评估文本。可以使用 划分成多个分支
EvalMode	Integer	评估模式。6：句子多分支评测模式
ServerType	Integer	评估语言。0：英文

请求示例

```
{
  "RefText": "i go to school by bus | i go to school by train | i go
to school by car"
  "EvalMode": 6
  "WorkMode": 1,
  "UserVoiceData": "Uk1GRka1CQBXQVZFZm10IBAAAAABAAEAgD4E*",
  "SeqId": 1,
  "IsEnd": 1,
  "VoiceFileType": 3,
  "VoiceEncodeType": 1,
  "SessionId": "d3940f28-6714-11ed-afac-acde48001122",
  "ScoreCoeff": 1.0
}
```

返回结果

主要返回结果说明：

参数名称	类型	描述
------	----	----

SuggestedScore	Integer	建议评分
PronAccuracy	Integer	整体精准度
PronFluency	Integer	整体流利度
PronCompletion	Integer	整体完整度
Words.PronAccuracy	Integer	单词精准度
Words.PronFluency	Integer	单词流利度
Words.MatchTag	Integer	当前词的音频与文本的匹配情况
Words.PhoneInfos.PronAccuracy	Integer	音素精准度
Words.PhoneInfos.MatchTag	Integer	当前音素的音频与文本的匹配情况
RefTextId	Integer	匹配候选文本的序号

返回示例

```
{
  "PronAccuracy":96.4442,
  "PronFluency":0.8702884,
  "PronCompletion":1,
  "Words":[
    {
      "MemBeginTime":1240,
      "MemEndTime":1920,
      "PronAccuracy":92.89983,
      "PronFluency":0.6360371,
      "Word":"i",
      "MatchTag":0,
      "PhoneInfos":[
        {
          "MemBeginTime":1240,
          "MemEndTime":1920,
          "PronAccuracy":92.89983,
          "DetectedStress":false,
          "Phone":"ay",
          "Stress":false,
```

```
        "ReferencePhone": "",
        "MatchTag": 0,
        "ReferenceLetter": ""
    }
],
"ReferenceWord": "i_0",
"KeywordTag": 0
},
{
    "MemBeginTime": 1950,
    "MemEndTime": 2240,
    "PronAccuracy": 98.48607,
    "PronFluency": 0.9317913,
    "Word": "go",
    "MatchTag": 0,
    "PhoneInfos": [
        {
            "MemBeginTime": 1950,
            "MemEndTime": 2080,
            "PronAccuracy": 98.81596,
            "DetectedStress": false,
            "Phone": "g",
            "Stress": false,
            "ReferencePhone": "",
            "MatchTag": 0,
            "ReferenceLetter": ""
        },
        {
            "MemBeginTime": 2080,
            "MemEndTime": 2240,
            "PronAccuracy": 98.156166,
            "DetectedStress": false,
            "Phone": "ow",
            "Stress": false,
            "ReferencePhone": "",
            "MatchTag": 0,
            "ReferenceLetter": ""
        }
    ],
    "ReferenceWord": "go_1",
    "KeywordTag": 0
},
{
```

```
"MemBeginTime":2240,
"MemEndTime":2520,
"PronAccuracy":98.90927,
"PronFluency":0.9357265,
"Word":"to",
"MatchTag":0,
"PhoneInfos":[
  {
    "MemBeginTime":2240,
    "MemEndTime":2360,
    "PronAccuracy":98.91327,
    "DetectedStress":false,
    "Phone":"t",
    "Stress":false,
    "ReferencePhone":"",
    "MatchTag":0,
    "ReferenceLetter":""
  },
  {
    "MemBeginTime":2360,
    "MemEndTime":2520,
    "PronAccuracy":98.90527,
    "DetectedStress":false,
    "Phone":"uw",
    "Stress":false,
    "ReferencePhone":"",
    "MatchTag":0,
    "ReferenceLetter":""
  }
],
"ReferenceWord":"to_2",
"KeywordTag":0
},
{
  "MemBeginTime":2520,
  "MemEndTime":3080,
  "PronAccuracy":95.359535,
  "PronFluency":0.9408119,
  "Word":"school",
  "MatchTag":0,
  "PhoneInfos":[
    {
      "MemBeginTime":2520,
```

```
    "MemEndTime":2720,
    "PronAccuracy":98.738785,
    "DetectedStress":false,
    "Phone":"s",
    "Stress":false,
    "ReferencePhone":"","
    "MatchTag":0,
    "ReferenceLetter":""
  },
  {
    "MemBeginTime":2720,
    "MemEndTime":2820,
    "PronAccuracy":98.82209,
    "DetectedStress":false,
    "Phone":"k",
    "Stress":false,
    "ReferencePhone":"","
    "MatchTag":0,
    "ReferenceLetter":""
  },
  {
    "MemBeginTime":2820,
    "MemEndTime":2990,
    "PronAccuracy":97.946045,
    "DetectedStress":false,
    "Phone":"uw",
    "Stress":false,
    "ReferencePhone":"","
    "MatchTag":0,
    "ReferenceLetter":""
  },
  {
    "MemBeginTime":2990,
    "MemEndTime":3080,
    "PronAccuracy":85.931206,
    "DetectedStress":false,
    "Phone":"l",
    "Stress":false,
    "ReferencePhone":"","
    "MatchTag":0,
    "ReferenceLetter":""
  }
],
```

```
"ReferenceWord": "school_3",
"KeywordTag": 0
},
{
  "MemBeginTime": 3080,
  "MemEndTime": 3420,
  "PronAccuracy": 96.6288,
  "PronFluency": 0.9061842,
  "Word": "by",
  "MatchTag": 0,
  "PhoneInfos": [
    {
      "MemBeginTime": 3080,
      "MemEndTime": 3220,
      "PronAccuracy": 96.563774,
      "DetectedStress": false,
      "Phone": "b",
      "Stress": false,
      "ReferencePhone": "",
      "MatchTag": 0,
      "ReferenceLetter": ""
    },
    {
      "MemBeginTime": 3220,
      "MemEndTime": 3420,
      "PronAccuracy": 96.69383,
      "DetectedStress": false,
      "Phone": "ay",
      "Stress": false,
      "ReferencePhone": "",
      "MatchTag": 0,
      "ReferenceLetter": ""
    }
  ],
  "ReferenceWord": "by_4",
  "KeywordTag": 0
},
{
  "MemBeginTime": 3420,
  "MemEndTime": 4120,
  "PronAccuracy": 96.06916,
  "PronFluency": 0.87117964,
  "Word": "train",
```

```
"MatchTag":0,
"PhoneInfos":[
  {
    "MemBeginTime":3420,
    "MemEndTime":3640,
    "PronAccuracy":97.445,
    "DetectedStress":false,
    "Phone":"t",
    "Stress":false,
    "ReferencePhone":"",
    "MatchTag":0,
    "ReferenceLetter":""
  },
  {
    "MemBeginTime":3640,
    "MemEndTime":3740,
    "PronAccuracy":98.25723,
    "DetectedStress":false,
    "Phone":"r",
    "Stress":false,
    "ReferencePhone":"",
    "MatchTag":0,
    "ReferenceLetter":""
  },
  {
    "MemBeginTime":3740,
    "MemEndTime":3780,
    "PronAccuracy":93.312836,
    "DetectedStress":false,
    "Phone":"ey",
    "Stress":false,
    "ReferencePhone":"",
    "MatchTag":0,
    "ReferenceLetter":""
  },
  {
    "MemBeginTime":3780,
    "MemEndTime":4120,
    "PronAccuracy":95.26158,
    "DetectedStress":false,
    "Phone":"n",
    "Stress":false,
    "ReferencePhone":"",
```

```
        "MatchTag":0,
        "ReferenceLetter":""
    }
],
"ReferenceWord":"train_5",
"KeywordTag":0
}
],
"SessionId":"d3940f28-6714-11ed-afac-acde48001122",
"Status":"Finished",
"SuggestedScore":96.4442,
"RefTextId":1,
"RequestId":"e43783b0-1083-4001-b40e-32d560073417"
}
```

音素到字母映射

通过该功能，可以对音素映射字母进行标记。音素到字母映射结构：`{::cmd{F_P2L=true}}` + 评估文本。

请求参数

主要请求参数说明：

参数名称	类型	描述
RefText	String	被评估文本
EvalMode	Integer	评估模式。1：句子评测模式
ServerType	Integer	评估语言。0：英文

请求示例

```
{
  "RefText": "{::cmd{F_P2L=true}}I would like to eat an orange",
  "EvalMode": 1,
  "ServerType": 0,
  "WorkMode": 1,

  "UserVoiceData": "UklGRka1CQBxQVZFZm10IBAAAAABAAEAgD4AIxLTA3LTAxIDEzOjQzA
ABJU0ZUDgAAAE*",
  "SeqId": 1,
  "IsEnd": 1,
  "VoiceFileType": 3,
```



```
"VoiceEncodeType":1,
"SessionId":"fbe89fc2-63ed-11ed-9f56-acde48001122",
"ScoreCoeff":1.0
}
```

返回结果

主要返回结果说明:

参数名称	类型	描述
Words.Word	String	当前单词
Words.PhoneInfos.Phone	String	当前单词的音素
Words.PhoneInfos.ReferenceLetter	String	当前单词的音素映射的字母

返回示例

```
{
  "PronAccuracy": 68.37508,
  "PronFluency": 0.9331392,
  "PronCompletion": 1,
  "Words": [
    {
      "MemBeginTime": 170,
      "MemEndTime": 370,
      "PronAccuracy": 93.85412,
      "PronFluency": 0.9332508,
      "Word": "i",
      "MatchTag": 0,
      "PhoneInfos": [
        {
          "MemBeginTime": 170,
          "MemEndTime": 370,
          "PronAccuracy": 93.85412,
          "DetectedStress": false,
          "Phone": "ay",
          "Stress": false,
          "ReferencePhone": "",
          "MatchTag": 0,
          "ReferenceLetter": "i_0"
        }
      ]
    }
  ]
}
```

```
],
  "ReferenceWord": "i_0",
  "KeywordTag": 0,
  "Tone": {
    "Valid": false,
    "RefTone": -1,
    "HypothesisTone": -1
  }
},
{
  "MemBeginTime": 370,
  "MemEndTime": 590,
  "PronAccuracy": 26.118675,
  "PronFluency": 0.9730186,
  "Word": "would",
  "MatchTag": 0,
  "PhoneInfos": [
    {
      "MemBeginTime": 370,
      "MemEndTime": 460,
      "PronAccuracy": 54.993282,
      "DetectedStress": false,
      "Phone": "w",
      "Stress": false,
      "ReferencePhone": "",
      "MatchTag": 0,
      "ReferenceLetter": "w_0"
    },
    {
      "MemBeginTime": 460,
      "MemEndTime": 510,
      "PronAccuracy": 14.068562,
      "DetectedStress": false,
      "Phone": "uh",
      "Stress": false,
      "ReferencePhone": "",
      "MatchTag": 0,
      "ReferenceLetter": "oul_1"
    },
    {
      "MemBeginTime": 510,
      "MemEndTime": 590,
      "PronAccuracy": 9.294175,
```

```
    "DetectedStress": false,
    "Phone": "d",
    "Stress": false,
    "ReferencePhone": "",
    "MatchTag": 0,
    "ReferenceLetter": "d_4"
  }
],
"ReferenceWord": "would_1",
"KeywordTag": 0,
"Tone": {
  "Valid": false,
  "RefTone": -1,
  "HypothesisTone": -1
}
},
{
  "MemBeginTime": 590,
  "MemEndTime": 940,
  "PronAccuracy": 74.74005,
  "PronFluency": 0.9638893,
  "Word": "like",
  "MatchTag": 0,
  "PhoneInfos": [
    {
      "MemBeginTime": 590,
      "MemEndTime": 690,
      "PronAccuracy": 47.80338,
      "DetectedStress": false,
      "Phone": "l",
      "Stress": false,
      "ReferencePhone": "",
      "MatchTag": 0,
      "ReferenceLetter": "l_0"
    },
    {
      "MemBeginTime": 690,
      "MemEndTime": 830,
      "PronAccuracy": 94.85252,
      "DetectedStress": false,
      "Phone": "ay",
      "Stress": false,
      "ReferencePhone": "",
```

```
    "MatchTag": 0,
    "ReferenceLetter": "i_1"
  },
  {
    "MemBeginTime": 830,
    "MemEndTime": 940,
    "PronAccuracy": 81.56426,
    "DetectedStress": false,
    "Phone": "k",
    "Stress": false,
    "ReferencePhone": "",
    "MatchTag": 0,
    "ReferenceLetter": "ke_2"
  }
],
"ReferenceWord": "like_2",
"KeywordTag": 0,
"Tone": {
  "Valid": false,
  "RefTone": -1,
  "HypothesisTone": -1
}
},
{
  "MemBeginTime": 940,
  "MemEndTime": 1130,
  "PronAccuracy": 50.105522,
  "PronFluency": 0.9484146,
  "Word": "to",
  "MatchTag": 0,
  "PhoneInfos": [
    {
      "MemBeginTime": 940,
      "MemEndTime": 990,
      "PronAccuracy": 71.745056,
      "DetectedStress": false,
      "Phone": "t",
      "Stress": false,
      "ReferencePhone": "",
      "MatchTag": 0,
      "ReferenceLetter": "t_0"
    },
    {
```

```
    "MemBeginTime": 990,
    "MemEndTime": 1130,
    "PronAccuracy": 28.465998,
    "DetectedStress": false,
    "Phone": "ah",
    "Stress": false,
    "ReferencePhone": "",
    "MatchTag": 0,
    "ReferenceLetter": "o_1"
  }
],
"ReferenceWord": "to_3",
"KeywordTag": 0,
"Tone": {
  "Valid": false,
  "RefTone": -1,
  "HypothesisTone": -1
},
{
  "MemBeginTime": 1130,
  "MemEndTime": 1570,
  "PronAccuracy": 96.52777,
  "PronFluency": 0.85671043,
  "Word": "eat",
  "MatchTag": 0,
  "PhoneInfos": [
    {
      "MemBeginTime": 1130,
      "MemEndTime": 1420,
      "PronAccuracy": 95.48253,
      "DetectedStress": false,
      "Phone": "iy",
      "Stress": false,
      "ReferencePhone": "",
      "MatchTag": 0,
      "ReferenceLetter": "ea_0"
    },
    {
      "MemBeginTime": 1420,
      "MemEndTime": 1570,
      "PronAccuracy": 97.57301,
      "DetectedStress": false,
```

```
    "Phone": "t",
    "Stress": false,
    "ReferencePhone": "",
    "MatchTag": 0,
    "ReferenceLetter": "t_2"
  }
],
"ReferenceWord": "eat_4",
"KeywordTag": 0,
"Tone": {
  "Valid": false,
  "RefTone": -1,
  "HypothesisTone": -1
}
},
{
  "MemBeginTime": 1570,
  "MemEndTime": 1870,
  "PronAccuracy": 52.039986,
  "PronFluency": 0.9176507,
  "Word": "an",
  "MatchTag": 0,
  "PhoneInfos": [
    {
      "MemBeginTime": 1570,
      "MemEndTime": 1690,
      "PronAccuracy": 96.504974,
      "DetectedStress": false,
      "Phone": "ae",
      "Stress": false,
      "ReferencePhone": "",
      "MatchTag": 0,
      "ReferenceLetter": "a_0"
    },
    {
      "MemBeginTime": 1690,
      "MemEndTime": 1870,
      "PronAccuracy": 7.575003,
      "DetectedStress": false,
      "Phone": "n",
      "Stress": false,
      "ReferencePhone": "",
      "MatchTag": 0,
```

```
    "ReferenceLetter": "n_1"
  }
],
"ReferenceWord": "an_5",
"KeywordTag": 0,
"Tone": {
  "Valid": false,
  "RefTone": -1,
  "HypothesisTone": -1
}
},
{
  "MemBeginTime": 1870,
  "MemEndTime": 2480,
  "PronAccuracy": 87.394875,
  "PronFluency": 0.9390403,
  "Word": "orange",
  "MatchTag": 0,
  "PhoneInfos": [
    {
      "MemBeginTime": 1870,
      "MemEndTime": 2010,
      "PronAccuracy": 67.70299,
      "DetectedStress": false,
      "Phone": "ao",
      "Stress": false,
      "ReferencePhone": "",
      "MatchTag": 0,
      "ReferenceLetter": ""
    },
    {
      "MemBeginTime": 2010,
      "MemEndTime": 2070,
      "PronAccuracy": 95.01617,
      "DetectedStress": false,
      "Phone": "r",
      "Stress": false,
      "ReferencePhone": "",
      "MatchTag": 0,
      "ReferenceLetter": ""
    },
    {
      "MemBeginTime": 2070,
```

```
"MemEndTime": 2150,
"PronAccuracy": 97.92182,
"DetectedStress": false,
"Phone": "ah",
"Stress": false,
"ReferencePhone": "",
"MatchTag": 0,
"ReferenceLetter": ""
},
{
  "MemBeginTime": 2150,
  "MemEndTime": 2310,
  "PronAccuracy": 79.219315,
  "DetectedStress": false,
  "Phone": "n",
  "Stress": false,
  "ReferencePhone": "",
  "MatchTag": 0,
  "ReferenceLetter": ""
},
{
  "MemBeginTime": 2310,
  "MemEndTime": 2480,
  "PronAccuracy": 97.11408,
  "DetectedStress": false,
  "Phone": "jh",
  "Stress": false,
  "ReferencePhone": "",
  "MatchTag": 0,
  "ReferenceLetter": ""
}
],
"ReferenceWord": "orange_6",
"KeywordTag": 0,
"Tone": {
  "Valid": false,
  "RefTone": -1,
  "HypothesisTone": -1
}
},
],
"SessionId": "d4fd8688-2c20-11ee-adca-acde48001122",
"AudioUrl": "",
```



```
"SentenceInfoSet": [],
"Status": "Finished",
"SuggestedScore": 68.37508,
"RefTextId": 0,
"KeywordHits": [],
"UnKeywordHits": [],
"RequestId": "0bebc73e-0d4e-4489-a2ec-03781ad66236"
}
```

音素到国际音标转换

返回音素默认为智聆音素，使用 `{::cmd{F_IPA=true}}` + 单词 开启 素到国际 标转换功能。

请求参数

主要请求参数说明：

参数名称	类型	描述
RefText	String	被评估文本
EvalMode	Integer	评估模式。6：句子多分支评测模式
ServerType	Integer	评估语言。0：英文

请求示例

```
{
  "RefText": "{::cmd{F_IPA=true}}I would like to eat an orange",
  "EvalMode": 7,
  "ServerType": 0,
  "WorkMode": 1,
  "UserVoiceData": "Uk1GRka1CQBxQVZFZm10IBAAAAABAAE*",
  "SeqId": 1,
  "IsEnd": 1,
  "VoiceFileType": 3,
  "VoiceEncodeType": 1,
  "SessionId": "ca0cb65e-694d-11ed-b467-acde48001122",
  "ScoreCoeff": 1.0
}
```

返回结果

返回结果说明：

参数名称	类型	描述
Words.PhoneInfos.Phone	Integer	当前音节

返回示例

```
{
  "PronAccuracy": 55.57772,
  "PronFluency": 0.9331392,
  "PronCompletion": 1,
  "Words": [
    {
      "MemBeginTime": 170,
      "MemEndTime": 370,
      "PronAccuracy": 85.14332,
      "PronFluency": 0.9332508,
      "Word": "i",
      "MatchTag": 0,
      "PhoneInfos": [
        {
          "MemBeginTime": 170,
          "MemEndTime": 370,
          "PronAccuracy": 85.14332,
          "DetectedStress": false,
          "Phone": "aɪ",
          "Stress": false,
          "ReferencePhone": "",
          "MatchTag": 0,
          "ReferenceLetter": ""
        }
      ],
      "ReferenceWord": "i_0",
      "KeywordTag": 0,
      "Tone": {
        "Valid": false,
        "RefTone": -1,
        "HypothesisTone": -1
      }
    },
    {
      "MemBeginTime": 370,
      "MemEndTime": 590,
      "PronAccuracy": 12.649897,
```

```
"PronFluency": 0.9730186,
"Word": "would",
"MatchTag": 0,
"PhoneInfos": [
  {
    "MemBeginTime": 370,
    "MemEndTime": 460,
    "PronAccuracy": 28.329983,
    "DetectedStress": false,
    "Phone": "w",
    "Stress": false,
    "ReferencePhone": "",
    "MatchTag": 0,
    "ReferenceLetter": ""
  },
  {
    "MemBeginTime": 460,
    "MemEndTime": 510,
    "PronAccuracy": 5.8106103,
    "DetectedStress": false,
    "Phone": "o",
    "Stress": false,
    "ReferencePhone": "",
    "MatchTag": 0,
    "ReferenceLetter": ""
  },
  {
    "MemBeginTime": 510,
    "MemEndTime": 590,
    "PronAccuracy": 3.809097,
    "DetectedStress": false,
    "Phone": "d",
    "Stress": false,
    "ReferencePhone": "",
    "MatchTag": 0,
    "ReferenceLetter": ""
  }
],
"ReferenceWord": "would_1",
"KeywordTag": 0,
"Tone": {
  "Valid": false,
  "RefTone": -1,
```

```
"HypothesisTone": -1
}
},
{
  "MemBeginTime": 590,
  "MemEndTime": 940,
  "PronAccuracy": 56.810387,
  "PronFluency": 0.9638893,
  "Word": "like",
  "MatchTag": 0,
  "PhoneInfos": [
    {
      "MemBeginTime": 590,
      "MemEndTime": 690,
      "PronAccuracy": 23.130892,
      "DetectedStress": false,
      "Phone": "l",
      "Stress": false,
      "ReferencePhone": "",
      "MatchTag": 0,
      "ReferenceLetter": ""
    },
    {
      "MemBeginTime": 690,
      "MemEndTime": 830,
      "PronAccuracy": 87.5008,
      "DetectedStress": false,
      "Phone": "aɪ",
      "Stress": false,
      "ReferencePhone": "",
      "MatchTag": 0,
      "ReferenceLetter": ""
    },
    {
      "MemBeginTime": 830,
      "MemEndTime": 940,
      "PronAccuracy": 59.79946,
      "DetectedStress": false,
      "Phone": "k",
      "Stress": false,
      "ReferencePhone": "",
      "MatchTag": 0,
      "ReferenceLetter": ""
    }
  ]
}
```

```
    }
  ],
  "ReferenceWord": "like_2",
  "KeywordTag": 0,
  "Tone": {
    "Valid": false,
    "RefTone": -1,
    "HypothesisTone": -1
  }
},
{
  "MemBeginTime": 940,
  "MemEndTime": 1130,
  "PronAccuracy": 28.692457,
  "PronFluency": 0.9484146,
  "Word": "to",
  "MatchTag": 0,
  "PhoneInfos": [
    {
      "MemBeginTime": 940,
      "MemEndTime": 990,
      "PronAccuracy": 45.1022,
      "DetectedStress": false,
      "Phone": "t",
      "Stress": false,
      "ReferencePhone": "",
      "MatchTag": 0,
      "ReferenceLetter": ""
    },
    {
      "MemBeginTime": 990,
      "MemEndTime": 1130,
      "PronAccuracy": 12.282712,
      "DetectedStress": false,
      "Phone": "ə",
      "Stress": false,
      "ReferencePhone": "",
      "MatchTag": 0,
      "ReferenceLetter": ""
    }
  ],
  "ReferenceWord": "to_3",
  "KeywordTag": 0,
```

```
"Tone": {
  "Valid": false,
  "RefTone": -1,
  "HypothesisTone": -1
},
{
  "MemBeginTime": 1130,
  "MemEndTime": 1570,
  "PronAccuracy": 91.53048,
  "PronFluency": 0.85671043,
  "Word": "eat",
  "MatchTag": 0,
  "PhoneInfos": [
    {
      "MemBeginTime": 1130,
      "MemEndTime": 1420,
      "PronAccuracy": 89.003685,
      "DetectedStress": false,
      "Phone": "i",
      "Stress": false,
      "ReferencePhone": "",
      "MatchTag": 0,
      "ReferenceLetter": ""
    },
    {
      "MemBeginTime": 1420,
      "MemEndTime": 1570,
      "PronAccuracy": 94.05728,
      "DetectedStress": false,
      "Phone": "t",
      "Stress": false,
      "ReferencePhone": "",
      "MatchTag": 0,
      "ReferenceLetter": ""
    }
  ],
  "ReferenceWord": "eat_4",
  "KeywordTag": 0,
  "Tone": {
    "Valid": false,
    "RefTone": -1,
    "HypothesisTone": -1
  }
}
```

```
}
},
{
  "MemBeginTime": 1570,
  "MemEndTime": 1870,
  "PronAccuracy": 47.281254,
  "PronFluency": 0.9176507,
  "Word": "an",
  "MatchTag": 0,
  "PhoneInfos": [
    {
      "MemBeginTime": 1570,
      "MemEndTime": 1690,
      "PronAccuracy": 91.464195,
      "DetectedStress": false,
      "Phone": "æ",
      "Stress": false,
      "ReferencePhone": "",
      "MatchTag": 0,
      "ReferenceLetter": ""
    },
    {
      "MemBeginTime": 1690,
      "MemEndTime": 1870,
      "PronAccuracy": 3.0983114,
      "DetectedStress": false,
      "Phone": "n",
      "Stress": false,
      "ReferencePhone": "",
      "MatchTag": 0,
      "ReferenceLetter": ""
    }
  ],
  "ReferenceWord": "an_5",
  "KeywordTag": 0,
  "Tone": {
    "Valid": false,
    "RefTone": -1,
    "HypothesisTone": -1
  }
},
{
  "MemBeginTime": 1870,
```

```
"MemEndTime": 2480,
"PronAccuracy": 74.37329,
"PronFluency": 0.9390403,
"Word": "orange",
"MatchTag": 0,
"PhoneInfos": [
  {
    "MemBeginTime": 1870,
    "MemEndTime": 2010,
    "PronAccuracy": 40.266193,
    "DetectedStress": false,
    "Phone": "ɔ",
    "Stress": false,
    "ReferencePhone": "",
    "MatchTag": 0,
    "ReferenceLetter": ""
  },
  {
    "MemBeginTime": 2010,
    "MemEndTime": 2070,
    "PronAccuracy": 87.89009,
    "DetectedStress": false,
    "Phone": "r",
    "Stress": false,
    "ReferencePhone": "",
    "MatchTag": 0,
    "ReferenceLetter": ""
  },
  {
    "MemBeginTime": 2070,
    "MemEndTime": 2150,
    "PronAccuracy": 94.90809,
    "DetectedStress": false,
    "Phone": "ʌ",
    "Stress": false,
    "ReferencePhone": "",
    "MatchTag": 0,
    "ReferenceLetter": ""
  },
  {
    "MemBeginTime": 2150,
    "MemEndTime": 2310,
    "PronAccuracy": 55.861504,
```



```
    "DetectedStress": false,
    "Phone": "n",
    "Stress": false,
    "ReferencePhone": "",
    "MatchTag": 0,
    "ReferenceLetter": ""
  },
  {
    "MemBeginTime": 2310,
    "MemEndTime": 2480,
    "PronAccuracy": 92.9406,
    "DetectedStress": false,
    "Phone": "d3",
    "Stress": false,
    "ReferencePhone": "",
    "MatchTag": 0,
    "ReferenceLetter": ""
  }
],
"ReferenceWord": "orange_6",
"KeywordTag": 0,
"Tone": {
  "Valid": false,
  "RefTone": -1,
  "HypothesisTone": -1
}
},
"SessionId": "8b9d5644-2b94-11ee-903f-acde48001122",
"AudioUrl": "",
"SentenceInfoSet": [
  {
    "SentenceId": 0,
    "Words": [
      {
        "MemBeginTime": 170,
        "MemEndTime": 370,
        "PronAccuracy": 85.14332,
        "PronFluency": 0.9332508,
        "Word": "i",
        "MatchTag": 0,
        "PhoneInfos": [
          {
```

```
    "MemBeginTime": 170,
    "MemEndTime": 370,
    "PronAccuracy": 85.14332,
    "DetectedStress": false,
    "Phone": "aɪ",
    "Stress": false,
    "ReferencePhone": "",
    "MatchTag": 0,
    "ReferenceLetter": ""
  }
],
"ReferenceWord": "i_0",
"KeywordTag": 0,
"Tone": {
  "Valid": false,
  "RefTone": -1,
  "HypothesisTone": -1
},
{
  "MemBeginTime": 370,
  "MemEndTime": 590,
  "PronAccuracy": 12.649897,
  "PronFluency": 0.9730186,
  "Word": "would",
  "MatchTag": 0,
  "PhoneInfos": [
    {
      "MemBeginTime": 370,
      "MemEndTime": 460,
      "PronAccuracy": 28.329983,
      "DetectedStress": false,
      "Phone": "w̥",
      "Stress": false,
      "ReferencePhone": "",
      "MatchTag": 0,
      "ReferenceLetter": ""
    },
    {
      "MemBeginTime": 460,
      "MemEndTime": 510,
      "PronAccuracy": 5.8106103,
      "DetectedStress": false,
```

```
    "Phone": "o",
    "Stress": false,
    "ReferencePhone": "",
    "MatchTag": 0,
    "ReferenceLetter": ""
  },
  {
    "MemBeginTime": 510,
    "MemEndTime": 590,
    "PronAccuracy": 3.809097,
    "DetectedStress": false,
    "Phone": "d",
    "Stress": false,
    "ReferencePhone": "",
    "MatchTag": 0,
    "ReferenceLetter": ""
  }
],
"ReferenceWord": "would_1",
"KeywordTag": 0,
"Tone": {
  "Valid": false,
  "RefTone": -1,
  "HypothesisTone": -1
}
},
{
  "MemBeginTime": 590,
  "MemEndTime": 940,
  "PronAccuracy": 56.810387,
  "PronFluency": 0.9638893,
  "Word": "like",
  "MatchTag": 0,
  "PhoneInfos": [
    {
      "MemBeginTime": 590,
      "MemEndTime": 690,
      "PronAccuracy": 23.130892,
      "DetectedStress": false,
      "Phone": "l",
      "Stress": false,
      "ReferencePhone": "",
      "MatchTag": 0,
```

```
    "ReferenceLetter": ""
  },
  {
    "MemBeginTime": 690,
    "MemEndTime": 830,
    "PronAccuracy": 87.5008,
    "DetectedStress": false,
    "Phone": "aɪ",
    "Stress": false,
    "ReferencePhone": "",
    "MatchTag": 0,
    "ReferenceLetter": ""
  },
  {
    "MemBeginTime": 830,
    "MemEndTime": 940,
    "PronAccuracy": 59.79946,
    "DetectedStress": false,
    "Phone": "k",
    "Stress": false,
    "ReferencePhone": "",
    "MatchTag": 0,
    "ReferenceLetter": ""
  }
],
"ReferenceWord": "like_2",
"KeywordTag": 0,
"Tone": {
  "Valid": false,
  "RefTone": -1,
  "HypothesisTone": -1
}
},
{
  "MemBeginTime": 940,
  "MemEndTime": 1130,
  "PronAccuracy": 28.692457,
  "PronFluency": 0.9484146,
  "Word": "to",
  "MatchTag": 0,
  "PhoneInfos": [
    {
      "MemBeginTime": 940,
```

```
    "MemEndTime": 990,
    "PronAccuracy": 45.1022,
    "DetectedStress": false,
    "Phone": "t",
    "Stress": false,
    "ReferencePhone": "",
    "MatchTag": 0,
    "ReferenceLetter": ""
  },
  {
    "MemBeginTime": 990,
    "MemEndTime": 1130,
    "PronAccuracy": 12.282712,
    "DetectedStress": false,
    "Phone": "ə",
    "Stress": false,
    "ReferencePhone": "",
    "MatchTag": 0,
    "ReferenceLetter": ""
  }
],
"ReferenceWord": "to_3",
"KeywordTag": 0,
"Tone": {
  "Valid": false,
  "RefTone": -1,
  "HypothesisTone": -1
}
},
{
  "MemBeginTime": 1130,
  "MemEndTime": 1570,
  "PronAccuracy": 91.53048,
  "PronFluency": 0.85671043,
  "Word": "eat",
  "MatchTag": 0,
  "PhoneInfos": [
    {
      "MemBeginTime": 1130,
      "MemEndTime": 1420,
      "PronAccuracy": 89.003685,
      "DetectedStress": false,
      "Phone": "i",
```

```
    "Stress": false,
    "ReferencePhone": "",
    "MatchTag": 0,
    "ReferenceLetter": ""
  },
  {
    "MemBeginTime": 1420,
    "MemEndTime": 1570,
    "PronAccuracy": 94.05728,
    "DetectedStress": false,
    "Phone": "t",
    "Stress": false,
    "ReferencePhone": "",
    "MatchTag": 0,
    "ReferenceLetter": ""
  }
],
"ReferenceWord": "eat_4",
"KeywordTag": 0,
"Tone": {
  "Valid": false,
  "RefTone": -1,
  "HypothesisTone": -1
}
},
{
  "MemBeginTime": 1570,
  "MemEndTime": 1870,
  "PronAccuracy": 47.281254,
  "PronFluency": 0.9176507,
  "Word": "an",
  "MatchTag": 0,
  "PhoneInfos": [
    {
      "MemBeginTime": 1570,
      "MemEndTime": 1690,
      "PronAccuracy": 91.464195,
      "DetectedStress": false,
      "Phone": "æ",
      "Stress": false,
      "ReferencePhone": "",
      "MatchTag": 0,
      "ReferenceLetter": ""
    }
  ]
}
```

```
    },
    {
      "MemBeginTime": 1690,
      "MemEndTime": 1870,
      "PronAccuracy": 3.0983114,
      "DetectedStress": false,
      "Phone": "n",
      "Stress": false,
      "ReferencePhone": "",
      "MatchTag": 0,
      "ReferenceLetter": ""
    }
  ],
  "ReferenceWord": "an_5",
  "KeywordTag": 0,
  "Tone": {
    "Valid": false,
    "RefTone": -1,
    "HypothesisTone": -1
  }
},
{
  "MemBeginTime": 1870,
  "MemEndTime": 2480,
  "PronAccuracy": 74.37329,
  "PronFluency": 0.9390403,
  "Word": "orange",
  "MatchTag": 0,
  "PhoneInfos": [
    {
      "MemBeginTime": 1870,
      "MemEndTime": 2010,
      "PronAccuracy": 40.266193,
      "DetectedStress": false,
      "Phone": "ɔ",
      "Stress": false,
      "ReferencePhone": "",
      "MatchTag": 0,
      "ReferenceLetter": ""
    },
    {
      "MemBeginTime": 2010,
      "MemEndTime": 2070,
```

```
"PronAccuracy": 87.89009,
"DetectedStress": false,
"Phone": "r",
"Stress": false,
"ReferencePhone": "",
"MatchTag": 0,
"ReferenceLetter": ""
},
{
  "MemBeginTime": 2070,
  "MemEndTime": 2150,
  "PronAccuracy": 94.90809,
  "DetectedStress": false,
  "Phone": "A",
  "Stress": false,
  "ReferencePhone": "",
  "MatchTag": 0,
  "ReferenceLetter": ""
},
{
  "MemBeginTime": 2150,
  "MemEndTime": 2310,
  "PronAccuracy": 55.861504,
  "DetectedStress": false,
  "Phone": "n",
  "Stress": false,
  "ReferencePhone": "",
  "MatchTag": 0,
  "ReferenceLetter": ""
},
{
  "MemBeginTime": 2310,
  "MemEndTime": 2480,
  "PronAccuracy": 92.9406,
  "DetectedStress": false,
  "Phone": "dʒ",
  "Stress": false,
  "ReferencePhone": "",
  "MatchTag": 0,
  "ReferenceLetter": ""
}
],
"ReferenceWord": "orange_6",
```



```
    "KeywordTag": 0,  
    "Tone": {  
      "Valid": false,  
      "RefTone": -1,  
      "HypothesisTone": -1  
    }  
  },  
  ],  
  "PronAccuracy": 55.57772,  
  "PronFluency": 0.9331392,  
  "PronCompletion": 1,  
  "SuggestedScore": 0,  
  "RefTextId": 0,  
  "KeyWordHits": [],  
  "UnKeyWordHits": []  
}  
],  
"Status": "Finished",  
"SuggestedScore": 55.57772,  
"RefTextId": 0,  
"KeyWordHits": [],  
"UnKeyWordHits": [],  
"RequestId": "de535d46-cb81-4279-af10-703734a03ca2"  
}
```

单词实时评测模式

最近更新时间：2024-06-26 17:38:52

评测模式描述

- 评测要求：支持多组单词，组合词评测。音频时长最长60秒。
- 评测维度：支持返回单词精准度，单词流利度；支持返回音素精准度。
- 评测功能：支持实时评测，多组文本，音素到字母映射，音素到国际音标转换，指定发音，指定国际音标。

主要作用是获取实时中间结果，实时展示评测内容。评测结果以最终结果为准。实现方式可参考[语音输入模式 > 流式评测](#)。

请求参数

主要请求参数说明：

参数名称	类型	描述
RefText	String	被评估文本。支持单词，组合词，缩写。使用 划分多组分支
EvalMode	Integer	评估模式。7：单词评测模式
ServerType	Integer	评估语言。0：英文

请求示例

```
{
  "RefText": "bus |train | car"
  "EvalMode": 7
  "WorkMode": 0,
  "UserVoiceData": "UklGRka1CQBxQVZFZm10IBAAAAABAAEAgD4E*",
  "SeqId": 1,
  "IsEnd": 0,
  "VoiceFileType": 3,
  "VoiceEncodeType": 1,
  "SessionId": "0c2bf078-6592-11ed-99dc-acde48001122",
  "ScoreCoeff": 1.0
}
```

返回结果

主要返回结果说明：

参数名称	类型	描述
SentenceInfoSet.Words.PronAccuracy	Integer	单词精准度
SentenceInfoSet.Words.PronFluency	Integer	单词流利度
SentenceInfoSet.Words.MatchTag	Integer	当前词的音频与文本的匹配情况
SentenceInfoSet.Words.PhoneInfos.PronAccuracy	Integer	音素精准度
SentenceInfoSet.Words.PhoneInfos.MatchTag	Integer	当前音素的音频与文本的匹配情况

返回示例

```
{
  "PronAccuracy":24.751133,
  "PronFluency":0.9361044,
  "PronCompletion":0.6666667,
  "Words":Array[2],
  "SessionId":"0c2bf078-6592-11ed-99dc-acde48001122",
  "SentenceInfoSet":[
    {
      "SentenceId":-1,
      "Words":[
        {
          "MemBeginTime":1160,
          "MemEndTime":1590,
          "PronAccuracy":23.99631,
          "PronFluency":0.90006214,
          "Word":"car",
          "MatchTag":0,
          "PhoneInfos":[
            {
              "MemBeginTime":1160,
              "MemEndTime":1250,
              "PronAccuracy":6.8105645,
              "DetectedStress":false,
              "Phone":"k",
            }
          ]
        }
      ]
    }
  ]
}
```

```
        "Stress":false,
        "ReferencePhone":"","
        "MatchTag":0,
        "ReferenceLetter":""
    },
    {
        "MemBeginTime":1250,
        "MemEndTime":1280,
        "PronAccuracy":0.08843824,
        "DetectedStress":false,
        "Phone":"aa",
        "Stress":false,
        "ReferencePhone":"","
        "MatchTag":0,
        "ReferenceLetter":""
    },
    {
        "MemBeginTime":1280,
        "MemEndTime":1590,
        "PronAccuracy":65.08992,
        "DetectedStress":false,
        "Phone":"r",
        "Stress":false,
        "ReferencePhone":"","
        "MatchTag":0,
        "ReferenceLetter":""
    }
],
"ReferenceWord":"","
"KeywordTag":0
},
{
    "MemBeginTime":1590,
    "MemEndTime":1850,
    "PronAccuracy":25.505955,
    "PronFluency":0.97214675,
    "Word":"train",
    "MatchTag":0,
    "PhoneInfos":[
        {
            "MemBeginTime":1590,
            "MemEndTime":1630,
            "PronAccuracy":99.9102,
```

```
        "DetectedStress":false,
        "Phone":"t",
        "Stress":false,
        "ReferencePhone":"","
        "MatchTag":0,
        "ReferenceLetter":""
    },
    {
        "MemBeginTime":1630,
        "MemEndTime":1660,
        "PronAccuracy":0.0038451438,
        "DetectedStress":false,
        "Phone":"r",
        "Stress":false,
        "ReferencePhone":"","
        "MatchTag":0,
        "ReferenceLetter":""
    },
    {
        "MemBeginTime":1660,
        "MemEndTime":1690,
        "PronAccuracy":0.038451433,
        "DetectedStress":false,
        "Phone":"ey",
        "Stress":false,
        "ReferencePhone":"","
        "MatchTag":0,
        "ReferenceLetter":""
    },
    {
        "MemBeginTime":1690,
        "MemEndTime":1850,
        "PronAccuracy":2.0713205,
        "DetectedStress":false,
        "Phone":"n",
        "Stress":false,
        "ReferencePhone":"","
        "MatchTag":0,
        "ReferenceLetter":""
    }
],
"ReferenceWord":"","
"KeywordTag":0
```

```
    },
    ],
    "PronAccuracy":24.751133,
    "PronFluency":0.9361044,
    "PronCompletion":0.6666667,
    "SuggestedScore":0,
  }
],
"Status":"Evaluating",
"SuggestedScore":22.001007661136256,
"RequestId":"e627ccc8-af76-4172-bd0a-df48c9542082"
}
```

音素到字母映射

通过该功能，可以对音素映射字母进行标记。音素到字母映射结构：`{::cmd{F_P2L=true}}` + 评估文本。

请求参数

主要请求参数说明：

参数名称	类型	描述
RefText	String	被评估文本
EvalMode	Integer	评估模式。7：单词实时模式
ServerType	Integer	评估语言。0：英文

请求示例

```
{
  "RefText": "{::cmd{F_P2L=true}} pig | sheep",
  "EvalMode": 7,
  "ServerType": 0,
  "WorkMode": 1,
  "UserVoiceData": "Uk1GRka1CQBXQVZFZm10IBAAAAABAAEAgD4E*",
  "SeqId": 1,
  "IsEnd": 0,
  "VoiceFileType": 3,
  "VoiceEncodeType": 1,
  "SessionId": "acf226a2-6967-11ed-842f-acde48001122",
  "ScoreCoeff": 1.0
}
```

```
}
```

返回结果

主要返回结果说明：

参数名称	类型	描述
Words.Word	String	当前单词
Words.PhoneInfos.Phone	String	当前单词的音素
Words.PhoneInfos.ReferenceLetter	String	当前单词的音素映射的字母

返回示例

```
{
  "PronAccuracy":12.163953,
  "PronFluency":0.90415126,
  "PronCompletion":1,
  "Words":Array[3],
  "SessionId":"acf226a2-6967-11ed-842f-acde48001122",
  "AudioUrl":"","
  "SentenceInfoSet":[
    {
      "SentenceId":-1,
      "Words":[
        {
          "MemBeginTime":1430,
          "MemEndTime":2050,
          "PronAccuracy":1.3630998,
          "PronFluency":0.8253891,
          "Word":"pig",
          "MatchTag":0,
          "PhoneInfos":[
            {
              "MemBeginTime":1430,
              "MemEndTime":1720,
              "PronAccuracy":2.1372294,
              "DetectedStress":false,
              "Phone":"p",
              "Stress":false,
              "ReferencePhone":"","
```

```
        "MatchTag":0,
        "ReferenceLetter":"p_0"
    },
    {
        "MemBeginTime":1720,
        "MemEndTime":1750,
        "PronAccuracy":0.13457982,
        "DetectedStress":false,
        "Phone":"ih",
        "Stress":false,
        "ReferencePhone":"","
        "MatchTag":0,
        "ReferenceLetter":"i_1"
    },
    {
        "MemBeginTime":1750,
        "MemEndTime":2050,
        "PronAccuracy":1.8174901,
        "DetectedStress":false,
        "Phone":"g",
        "Stress":false,
        "ReferencePhone":"","
        "MatchTag":0,
        "ReferenceLetter":"g_2"
    }
],
"ReferenceWord":"","
"KeywordTag":0
},
{
    "MemBeginTime":3090,
    "MemEndTime":3460,
    "PronAccuracy":0.9752136,
    "PronFluency":0.92956847,
    "Word":"pig",
    "MatchTag":0,
    "PhoneInfos":[
        {
            "MemBeginTime":3090,
            "MemEndTime":3160,
            "PronAccuracy":0.6805645,
            "DetectedStress":false,
            "Phone":"p",
```



```
        "Stress":false,
        "ReferencePhone":"","
        "MatchTag":0,
        "ReferenceLetter":"p_0"
    },
    {
        "MemBeginTime":3160,
        "MemEndTime":3370,
        "PronAccuracy":0.76240057,
        "DetectedStress":false,
        "Phone":"ih",
        "Stress":false,
        "ReferencePhone":"","
        "MatchTag":0,
        "ReferenceLetter":"i_1"
    },
    {
        "MemBeginTime":3370,
        "MemEndTime":3460,
        "PronAccuracy":1.4826757,
        "DetectedStress":false,
        "Phone":"g",
        "Stress":false,
        "ReferencePhone":"","
        "MatchTag":0,
        "ReferenceLetter":"g_2"
    }
],
"ReferenceWord":"","
"KeywordTag":0
},
{
    "MemBeginTime":3460,
    "MemEndTime":3790,
    "PronAccuracy":34.153545,
    "PronFluency":0.95749635,
    "Word":"sheep",
    "MatchTag":0,
    "PhoneInfos":[
        {
            "MemBeginTime":3460,
            "MemEndTime":3610,
            "PronAccuracy":99.67801,
```

```
        "DetectedStress":false,
        "Phone":"sh",
        "Stress":false,
        "ReferencePhone":"","
        "MatchTag":0,
        "ReferenceLetter":"sh_0"
    },
    {
        "MemBeginTime":3610,
        "MemEndTime":3760,
        "PronAccuracy":2.4827034,
        "DetectedStress":false,
        "Phone":"iy",
        "Stress":false,
        "ReferencePhone":"","
        "MatchTag":0,
        "ReferenceLetter":"ee_2"
    },
    {
        "MemBeginTime":3760,
        "MemEndTime":3790,
        "PronAccuracy":0.29991898,
        "DetectedStress":false,
        "Phone":"p",
        "Stress":false,
        "ReferencePhone":"","
        "MatchTag":0,
        "ReferenceLetter":"p_4"
    }
],
"ReferenceWord":"","
"KeywordTag":0
}
],
"PronAccuracy":12.163953,
"PronFluency":0.90415126,
"PronCompletion":1,
"SuggestedScore":0,
}
],
"Status":"Finished",
"SuggestedScore":12.163953,
```

```
"RequestId": "03c67fe8-04cb-4a66-a071-60e25305b633"
}
```

音素到国际音标转换

返回音素默认为智聆音素，使用 `{::cmd{F_IPA=true}}` + 单词 开启 音素到国际 标转换功能。

请求参数

主要请求参数说明：

参数名称	类型	描述
RefText	String	被评估文本
EvalMode	Integer	评估模式。7：单词实时评测模式
ServerType	Integer	评估语言。0：英文

请求示例

```
{
  "RefText": "{::cmd{F_IPA=true}}happy",
  "EvalMode": 7,
  "ServerType": 0,
  "WorkMode": 1,
  "UserVoiceData": "UklGRka1CQBXQVZFZm10IBAAAAABAAE*",
  "SeqId": 1,
  "IsEnd": 1,
  "VoiceFileType": 3,
  "VoiceEncodeType": 1,
  "SessionId": "ca0cb65e-694d-11ed-b467-acde48001122",
  "ScoreCoeff": 1.0
}
```

返回结果

返回结果说明：

参数名称	类型	描述
Words.PhoneInfos.Phone	Integer	当前音节

返回示例

```
{
  "PronAccuracy": 96.829666,
  "PronFluency": 0.82233715,
  "PronCompletion": 1,
  "Words": [
    {
      "MemBeginTime": 50,
      "MemEndTime": 1130,
      "PronAccuracy": 96.829666,
      "PronFluency": 0.82233715,
      "Word": "happy",
      "MatchTag": 0,
      "PhoneInfos": [
        {
          "MemBeginTime": 50,
          "MemEndTime": 300,
          "PronAccuracy": 94.31433,
          "DetectedStress": false,
          "Phone": "'h",
          "Stress": false,
          "ReferencePhone": "",
          "MatchTag": 0,
          "ReferenceLetter": ""
        },
        {
          "MemBeginTime": 300,
          "MemEndTime": 460,
          "PronAccuracy": 95.81154,
          "DetectedStress": false,
          "Phone": "æ",
          "Stress": false,
          "ReferencePhone": "",
          "MatchTag": 0,
          "ReferenceLetter": ""
        },
        {
          "MemBeginTime": 460,
          "MemEndTime": 680,
          "PronAccuracy": 98.16035,
          "DetectedStress": false,
          "Phone": "p",
          "Stress": false,
          "ReferencePhone": "",

```

```
    "MatchTag": 0,
    "ReferenceLetter": ""
  },
  {
    "MemBeginTime": 680,
    "MemEndTime": 1130,
    "PronAccuracy": 99.03245,
    "DetectedStress": false,
    "Phone": "i",
    "Stress": false,
    "ReferencePhone": "",
    "MatchTag": 0,
    "ReferenceLetter": ""
  }
],
"ReferenceWord": "",
"KeywordTag": 0,
"Tone": {
  "Valid": false,
  "RefTone": -1,
  "HypothesisTone": -1
}
}
],
"SessionId": "7fcb2c56-2b8a-11ee-b529-acde48001122",
"AudioUrl": "",
"SentenceInfoSet": [],
"Status": "Finished",
"SuggestedScore": 96.829666,
"RefTextId": -1,
"KeyWordHits": [],
"UnKeyWordHits": [],
"RequestId": "54017673-4465-4b1a-b5f2-8ab8e690c8ab"
}
```

指定发音

使用 `单词{::pron{p1,p2..},{p3,p4..}..}` 指定发音，需要将国际音标通过音素映射表转换为智聆音素，参考 [音素映射表 > 智聆音素](#)。

请求参数

主要请求参数说明：

参数名称	类型	描述
RefText	String	被评估文本
EvalMode	Integer	评估模式。7：单词实时评测模式
ServerType	Integer	评估语言。0：英文

请求示例

音标

```
{
  "RefText": "au{::pron{aw}}",
  "EvalMode": 7,
  "ServerType": 0,
  "WorkMode": 1,
  "UserVoiceData": "UklGRka1CQBXQVZFZm10IBAAAAABAAE*",
  "SeqId": 1,
  "IsEnd": 1,
  "VoiceFileType": 3,
  "VoiceEncodeType": 1,
  "SessionId": "ca0cb65e-694d-11ed-b467-acde48001122",
  "ScoreCoeff": 1.0
}
```

单词

```
{
  "RefText": "happy{::pron{hh,ae,p,iy}}",
  "EvalMode": 7,
  "ServerType": 0,
  "WorkMode": 1,
  "UserVoiceData": "UklGRka1CQBXQVZFZm10IBAAAAABAAE*",
  "SeqId": 1,
  "IsEnd": 1,
  "VoiceFileType": 3,
  "VoiceEncodeType": 1,
  "SessionId": "ca0cb65e-694d-11ed-b467-acde48001122",
  "ScoreCoeff": 1.0
}
```

多音词

```
{
  "RefText": "use{::pron{y,uw,z},{y,uw,s}}",
  "EvalMode": 7,
  "ServerType": 0,
  "WorkMode": 1,
  "UserVoiceData": "UklGRka1CQBXQVZFZm10IBAAAAABAAE*",
  "SeqId": 1,
  "IsEnd": 1,
  "VoiceFileType": 3,
  "VoiceEncodeType": 1,
  "SessionId": "ca0cb65e-694d-11ed-b467-acde48001122",
  "ScoreCoeff": 1.0
}
```

返回结果

主要返回结果说明：

参数名称	类型	描述
SuggestedScore	Integer	建议评分
PronAccuracy	Integer	整体精准度
PronFluency	Integer	整体流利度
Words.PronAccuracy	Integer	单词精准度
Words.PronFluency	Integer	单词流利度
Words.PhoneInfos.PronAccuracy	Integer	音素精准度

返回示例

```
{
  "PronAccuracy": 96.829666,
  "PronFluency": 0.82233715,
  "PronCompletion": 1,
  "Words": [
    {
      "MemBeginTime": 50,
```

```
"MemEndTime": 1130,
"PronAccuracy": 96.829666,
"PronFluency": 0.82233715,
"Word": "happy",
"MatchTag": 0,
"PhoneInfos": [
  {
    "MemBeginTime": 50,
    "MemEndTime": 300,
    "PronAccuracy": 94.31433,
    "DetectedStress": false,
    "Phone": "hh",
    "Stress": false,
    "ReferencePhone": "",
    "MatchTag": 0,
    "ReferenceLetter": ""
  },
  {
    "MemBeginTime": 300,
    "MemEndTime": 460,
    "PronAccuracy": 95.81155,
    "DetectedStress": false,
    "Phone": "ae",
    "Stress": false,
    "ReferencePhone": "",
    "MatchTag": 0,
    "ReferenceLetter": ""
  },
  {
    "MemBeginTime": 460,
    "MemEndTime": 680,
    "PronAccuracy": 98.16035,
    "DetectedStress": false,
    "Phone": "p",
    "Stress": false,
    "ReferencePhone": "",
    "MatchTag": 0,
    "ReferenceLetter": ""
  },
  {
    "MemBeginTime": 680,
    "MemEndTime": 1130,
    "PronAccuracy": 99.03245,
```



```
    "DetectedStress": false,
    "Phone": "iy",
    "Stress": false,
    "ReferencePhone": "",
    "MatchTag": 0,
    "ReferenceLetter": ""
  }
],
"ReferenceWord": "",
"KeywordTag": 0,
"Tone": {
  "Valid": false,
  "RefTone": -1,
  "HypothesisTone": -1
}
},
"SessionId": "7e21650c-2b97-11ee-9efe-acde48001122",
"AudioUrl": "",
"SentenceInfoSet": [],
"Status": "Finished",
"SuggestedScore": 96.829666,
"RefTextId": -1,
"KeyWordHits": [],
"UnKeyWordHits": [],
"RequestId": "584bffc1-347e-4ed8-a25b-2bff4339300e"
}
```

指定国际音标

使用 `单词{::ipapron{p1,p2..},{p3,p4..}..}` 指定国际音标参考，[音素映射表](#) > [国际音标](#)。

请求参数

主要请求参数说明：

参数名称	类型	描述
RefText	String	被评估文本
EvalMode	Integer	评估模式。7：单词实时评测模式
ServerType	Integer	评估语言。0：英文

请求示例

音标

```
{
  "RefText": "au{:ipapron{aʊ}}",
  "EvalMode": 7,
  "ServerType": 0,
  "WorkMode": 1,
  "UserVoiceData": "UklGRka1CQBXQVZFZm10IBAAAAABAAE*",
  "SeqId": 1,
  "IsEnd": 1,
  "VoiceFileType": 3,
  "VoiceEncodeType": 1,
  "SessionId": "ca0cb65e-694d-11ed-b467-acde48001122",
  "ScoreCoeff": 1.0
}
```

单词

```
{
  "RefText": "happy{:ipapron{'h,æ,p,i}}",
  "EvalMode": 7,
  "ServerType": 0,
  "WorkMode": 1,
  "UserVoiceData": "UklGRka1CQBXQVZFZm10IBAAAAABAAE*",
  "SeqId": 1,
  "IsEnd": 1,
  "VoiceFileType": 3,
  "VoiceEncodeType": 1,
  "SessionId": "ca0cb65e-694d-11ed-b467-acde48001122",
  "ScoreCoeff": 1.0
}
```

多音词

```
{
  "RefText": "use{:ipapron{j,u,z},{j,u,s}}",
  "EvalMode": 7,
  "ServerType": 0,
  "WorkMode": 1,
```

```
"UserVoiceData": "UklGRka1CQBXQVZFZm10IBAAAAABAAE*",
"SeqId": 1,
"IsEnd": 1,
"VoiceFileType": 3,
"VoiceEncodeType": 1,
"SessionId": "ca0cb65e-694d-11ed-b467-acde48001122",
"ScoreCoeff": 1.0
}
```

返回结果

主要返回结果说明：

参数名称	类型	描述
SuggestedScore	Integer	建议评分
PronAccuracy	Integer	整体精准度
PronFluency	Integer	整体流利度
Words.PronAccuracy	Integer	单词精准度
Words.PronFluency	Integer	单词流利度
Words.PhoneInfos.PronAccuracy	Integer	音素精准度

返回示例

```
{
  "PronAccuracy": 96.829666,
  "PronFluency": 0.82233715,
  "PronCompletion": 1,
  "Words": [
    {
      "MemBeginTime": 50,
      "MemEndTime": 1130,
      "PronAccuracy": 96.829666,
      "PronFluency": 0.82233715,
      "Word": "happy",
      "MatchTag": 0,
      "PhoneInfos": [
        {
          "MemBeginTime": 50,
```

```
"MemEndTime": 300,
"PronAccuracy": 94.31433,
"DetectedStress": false,
"Phone": "hh",
"Stress": false,
"ReferencePhone": "",
"MatchTag": 0,
"ReferenceLetter": ""
},
{
  "MemBeginTime": 300,
  "MemEndTime": 460,
  "PronAccuracy": 95.81155,
  "DetectedStress": false,
  "Phone": "ae",
  "Stress": false,
  "ReferencePhone": "",
  "MatchTag": 0,
  "ReferenceLetter": ""
},
{
  "MemBeginTime": 460,
  "MemEndTime": 680,
  "PronAccuracy": 98.16035,
  "DetectedStress": false,
  "Phone": "p",
  "Stress": false,
  "ReferencePhone": "",
  "MatchTag": 0,
  "ReferenceLetter": ""
},
{
  "MemBeginTime": 680,
  "MemEndTime": 1130,
  "PronAccuracy": 99.03245,
  "DetectedStress": false,
  "Phone": "iy",
  "Stress": false,
  "ReferencePhone": "",
  "MatchTag": 0,
  "ReferenceLetter": ""
}
],
```

```
"ReferenceWord": "",
"KeywordTag": 0,
"Tone": {
  "Valid": false,
  "RefTone": -1,
  "HypothesisTone": -1
}
],
"SessionId": "7e21650c-2b97-11ee-9efe-acde48001122",
"AudioUrl": "",
"SentenceInfoSet": [],
"Status": "Finished",
"SuggestedScore": 96.829666,
"RefTextId": -1,
"KeyWordHits": [],
"UnKeyWordHits": [],
"RequestId": "584bffc1-347e-4ed8-a25b-2bffa4339300e"
}
```

中文评测模式

单词评测模式

最近更新时间：2024-06-26 17:38:52

评测模式描述

- 评测要求：支持汉字。音频时长最长60秒。
- 评测维度：支持返回单词精准度，流利度；支持返回音素精准度。
- 评测功能：支持指定发音。

请求参数

主要评测参数说明：

参数名称	类型	描述
RefText	String	被评估文本。支持汉字。
EvalMode	Integer	评估模式。0：单词评测模式
ServerType	Integer	评估语言。1：中文

请求示例

```
{
  "RefText": "我",
  "EvalMode": 0,
  "ServerType": 1,
  "WorkMode": 1,
  "UserVoiceData": "Uk1GRka1CQBxQVZFZm10IBAAAAABAAEAgD4E*",
  "SeqId": 1,
  "IsEnd": 1,
  "VoiceFileType": 3,
  "VoiceEncodeType": 1,
  "SessionId": "98236faa-6968-11ed-9f41-acde48001122",
  "ScoreCoeff": 1.0
}
```

返回结果

主要返回结果说明：

参数名称	类型	描述
SuggestedScore	Integer	建议评分
PronAccuracy	Integer	整体精准度
PronFluency	Integer	整体流利度
Words.PronAccuracy	Integer	单词精准度
Words.PronFluency	Integer	单词流利度
Words.PhoneInfos.PronAccuracy	Integer	音素精准度

返回示例

```
{
  "PronAccuracy":91.93747,
  "PronFluency":0.9512238,
  "PronCompletion":1,
  "Words":[
    {
      "MemBeginTime":2600,
      "MemEndTime":3070,
      "PronAccuracy":91.93747,
      "PronFluency":0.9512238,
      "Word":"我",
      "MatchTag":0,
      "PhoneInfos":[
        {
          "MemBeginTime":2600,
          "MemEndTime":2790,
          "PronAccuracy":80.79642,
          "DetectedStress":false,
          "Phone":"w",
          "Stress":false,
          "ReferencePhone":"","
          "MatchTag":0,
          "ReferenceLetter":""
        },
        {
          "MemBeginTime":2790,
```

```
        "MemEndTime":3070,
        "PronAccuracy":97.50799,
        "DetectedStress":false,
        "Phone":"o3",
        "Stress":false,
        "ReferencePhone":"","
        "MatchTag":0,
        "ReferenceLetter":""
    }
],
    "ReferenceWord":"","
}
],
"SessionId":"98236faa-6968-11ed-9f41-acde48001122",
"Status":"Finished",
"SuggestedScore":91.93747,
"RequestId":"9bcd43ce-1708-4e07-a84a-3038c27cec65"
}
```

指定发音

使用 汉字`::pron{p1,p2..},{p3,p4..}..` 指定发音，发音单元为 [拼音](#)。

请求参数

主要请求参数说明：

参数名称	类型	描述
RefText	String	被评估文本
EvalMode	Integer	评估模式。0：单词评测模式
ServerType	Integer	评估语言。1：中文

请求示例

```
{
  "RefText": "我::pron{wo1}",
  "EvalMode": 0,
  "ServerType": 1,
```



```
"WorkMode":1,
"UserVoiceData":"UklGRka1CQBXQVZFZm10IBAAAAABAAEAgD4E*",
"SeqId":1,
"IsEnd":1,
"VoiceFileType":3,
"VoiceEncodeType":1,
"SessionId":"ca0cb65e-694d-11ed-b467-acde48001122",
"ScoreCoeff":1.0
}
```

返回结果

主要返回结果说明：

参数名称	类型	描述
SuggestedScore	Integer	建议评分
PronAccuracy	Integer	整体精准度
PronFluency	Integer	整体流利度
Words.PronAccuracy	Integer	单词精准度
Words.PronFluency	Integer	单词流利度
Words.PhoneInfos.PronAccuracy	Integer	音素精准度

返回示例

```
{
  "PronAccuracy": 12.2539215,
  "PronFluency": 0.95122975,
  "PronCompletion": 1,
  "Words": [
    {
      "MemBeginTime": 40,
      "MemEndTime": 510,
      "PronAccuracy": 12.2539215,
      "PronFluency": 0.95122975,
      "Word": "我",
      "MatchTag": 0,
    }
  ]
}
```

```
"PhoneInfos": [
  {
    "MemBeginTime": 40,
    "MemEndTime": 250,
    "PronAccuracy": 26.018757,
    "DetectedStress": false,
    "Phone": "w",
    "Stress": false,
    "ReferencePhone": "",
    "MatchTag": 0,
    "ReferenceLetter": ""
  },
  {
    "MemBeginTime": 250,
    "MemEndTime": 510,
    "PronAccuracy": 5.371504,
    "DetectedStress": false,
    "Phone": "o1",
    "Stress": false,
    "ReferencePhone": "",
    "MatchTag": 0,
    "ReferenceLetter": ""
  }
],
"ReferenceWord": "",
"KeywordTag": 0,
"Tone": {
  "Valid": false,
  "RefTone": -1,
  "HypothesisTone": -1
}
},
"SessionId": "6fd7c230-2c2c-11ee-9272-acde48001122",
"AudioUrl": "",
"SentenceInfoSet": [],
"Status": "Finished",
"SuggestedScore": 12.2539215,
"RefTextId": -1,
"KeyWordHits": [],
"UnKeyWordHits": [],
"RequestId": "5a2ed414-0c4c-4508-933a-6b7e29c61bdc"
}
```


句子评测模式

最近更新时间：2024-06-26 17:38:52

评测模式描述

- 评测要求：支持不超过30个汉字。音频时长最长60秒。
- 评测维度：支持返回单词精准度，流利度，完整度；支持返回音素精准度。
- 评测功能：支持实时评测；指定发音，声调检测。

请求参数

主要请求参数说明：

参数名称	类型	描述
RefText	String	被评估文本。不超过30个汉字。
EvalMode	Integer	评估模式。1: 句子评测模式
ServerType	Integer	评估语言。1: 中文

请求示例

```
{
  "RefText": "早上好",
  "EvalMode": 1,
  "ServerType": 1
  "WorkMode": 1,
  "UserVoiceData": "UklGRka1CQBXQVZFZm10IBAAAAABAAEAgD4E*",
  "SeqId": 1,
  "IsEnd": 1,
  "VoiceFileType": 3,
  "VoiceEncodeType": 1,
  "SessionId": "5bc0-1669014734359-92195",
  "ScoreCoeff": 1.0
}
```

返回结果

主要返回结果说明：

参数名称	类型	描述
------	----	----

SuggestedScore	Integer	建议评分
PronAccuracy	Integer	整体精准度
PronFluency	Integer	整体流利度
PronCompletion	Integer	整体完整度
Words.PronAccuracy	Integer	单词精准度
Words.PronFluency	Integer	单词流利度
Words.MatchTag	Integer	当前词的音频与文本的匹配情况
Words.PhoneInfos.PronAccuracy	Integer	音素精准度
Words.PhoneInfos.MatchTag	Integer	当前音素的音频与文本的匹配情况

返回示例

```
{
  "SuggestedScore":95.46498,
  "PronAccuracy":95.46498,
  "PronFluency":0.9850345,
  "PronCompletion":1,
  "RequestId":"eecd633a-5322-42b3-b3c0-18489d20596b",
  "Words":[
    {
      "MemBeginTime":520,
      "MemEndTime":800,
      "PronAccuracy":94.56439,
      "PronFluency":0.9841121,
      "ReferenceWord":"","
      "Word":"早",
      "MatchTag":0,
      "KeywordTag":0,
      "PhoneInfos":[
        {
          "MemBeginTime":520,
          "MemEndTime":650,
          "PronAccuracy":91.81637,
          "DetectedStress":false,
```

```
        "Phone": "z",
        "ReferencePhone": "",
        "ReferenceLetter": "",
        "Stress": false,
        "MatchTag": 0
    },
    {
        "MemBeginTime": 650,
        "MemEndTime": 800,
        "PronAccuracy": 95.9384,
        "DetectedStress": false,
        "Phone": "ao3",
        "ReferencePhone": "",
        "ReferenceLetter": "",
        "Stress": false,
        "MatchTag": 0
    }
]
},
{
    "MemBeginTime": 800,
    "MemEndTime": 1080,
    "PronAccuracy": 95.91863,
    "PronFluency": 0.98841476,
    "ReferenceWord": "",
    "Word": "上",
    "MatchTag": 0,
    "KeywordTag": 0,
    "PhoneInfos": [
        {
            "MemBeginTime": 800,
            "MemEndTime": 900,
            "PronAccuracy": 96.1512,
            "DetectedStress": false,
            "Phone": "sh",
            "ReferencePhone": "",
            "ReferenceLetter": "",
            "Stress": false,
            "MatchTag": 0
        },
        {
            "MemBeginTime": 900,
            "MemEndTime": 1080,
```

```
        "PronAccuracy":95.802345,
        "DetectedStress":false,
        "Phone":"ang4",
        "ReferencePhone":"","
        "ReferenceLetter":"","
        "Stress":false,
        "MatchTag":0
    }
]
},
{
    "MemBeginTime":1080,
    "MemEndTime":1380,
    "PronAccuracy":95.91195,
    "PronFluency":0.9825769,
    "ReferenceWord":"","
    "Word":"好",
    "MatchTag":0,
    "KeywordTag":0,
    "PhoneInfos":[
        {
            "MemBeginTime":1080,
            "MemEndTime":1180,
            "PronAccuracy":95.76144,
            "DetectedStress":false,
            "Phone":"h",
            "ReferencePhone":"","
            "ReferenceLetter":"","
            "Stress":false,
            "MatchTag":0
        },
        {
            "MemBeginTime":1180,
            "MemEndTime":1380,
            "PronAccuracy":95.9872,
            "DetectedStress":false,
            "Phone":"ao3",
            "ReferencePhone":"","
            "ReferenceLetter":"","
            "Stress":false,
            "MatchTag":0
        }
    ]
}
```

```
    }  
  ],  
  "SessionId": "5bc0-1669014734359-92195",  
  "Status": "Finished",  
}
```

实时评测

主要作用是获取实时中间结果，实时展示评测内容。

请求参数

主要请求参数说明：

参数名称	类型	描述
RefText	String	被评估文本。不超过30个汉字
EvalMode	Integer	评估模式。1: 句子评测模式
ServerType	Integer	评估语言。1: 中文
WorkMode	Integer	语音输入模式。0: 流式分片
SentenceInfoEnabled	Integer	输出断句中间结果标识。1: 输出

请求示例

```
{  
  "RefText": "抽刀断水水更流",  
  "EvalMode": 1,  
  "ServerType": 1,  
  "WorkMode": 0,  
  "SentenceInfoEnabled": 1,  
  "UserVoiceData": "UklGRka1CQBxQVZFZm10IBAAAAABAAEAgD4E*",  
  "SeqId": 1,  
  "IsEnd": 1,  
  "VoiceFileType": 3,  
  "VoiceEncodeType": 1,  
  "SessionId": "2398-1669014978895-69180",  
  "ScoreCoeff": 1.0  
}
```


返回结果

主要返回结果说明：

参数名称	类型	描述
SentenceInfoSet.Words.PronAccuracy	Integer	单词精准度
SentenceInfoSet.Words.PronFluency	Integer	单词流利度
SentenceInfoSet.Words.MatchTag	Integer	当前词的音频与文本的匹配情况
SentenceInfoSet.Words.PhonEInfos.PronAccuracy	Integer	音素精准度
SentenceInfoSet.Words.PhonEInfos.MatchTag	Integer	当前音素的音频与文本的匹配情况

返回示例

```
{
  "SuggestedScore":34.43980511482674,
  "PronAccuracy":42.18876,
  "PronFluency":0.7654817,
  "PronCompletion":0.5714286,
  "RequestId":"4925ed9c-4635-44d3-82d2-95f5e0b7001e",
  "Words":Array[4],
  "SessionId":"2398-1669014978895-69180",
  "AudioUrl":"","
  "SentenceInfoSet":[
    {
      "SuggestedScore":0,
      "PronAccuracy":42.18876,
      "PronFluency":0.7654817,
      "PronCompletion":0.5714286,
      "Words":[
        {
          "MemBeginTime":1190,
          "MemEndTime":1820,
          "PronAccuracy":11.160096,
          "PronFluency":0.918351,
          "ReferenceWord":"","
```

```
"Word": "抽",
"MatchTag": 0,
"KeywordTag": 0,
"PhoneInfos": [
  {
    "MemBeginTime": 1190,
    "MemEndTime": 1410,
    "PronAccuracy": 7.614954,
    "DetectedStress": false,
    "Phone": "ch",
    "ReferencePhone": "",
    "ReferenceLetter": "",
    "Stress": false,
    "MatchTag": 0
  },
  {
    "MemBeginTime": 1410,
    "MemEndTime": 1820,
    "PronAccuracy": 12.932667,
    "DetectedStress": false,
    "Phone": "ou1",
    "ReferencePhone": "",
    "ReferenceLetter": "",
    "Stress": false,
    "MatchTag": 0
  }
]
},
{
  "MemBeginTime": 1820,
  "MemEndTime": 2280,
  "PronAccuracy": 31.131311,
  "PronFluency": 0.940562,
  "ReferenceWord": "",
  "Word": "到",
  "MatchTag": 0,
  "KeywordTag": 0,
  "PhoneInfos": [
    {
      "MemBeginTime": 1820,
      "MemEndTime": 1970,
      "PronAccuracy": 21.366287,
      "DetectedStress": false,
```

```
        "Phone": "d",
        "ReferencePhone": "",
        "ReferenceLetter": "",
        "Stress": false,
        "MatchTag": 0
    },
    {
        "MemBeginTime": 1970,
        "MemEndTime": 2280,
        "PronAccuracy": 36.01383,
        "DetectedStress": false,
        "Phone": "ao4",
        "ReferencePhone": "",
        "ReferenceLetter": "",
        "Stress": false,
        "MatchTag": 0
    }
]
},
{
    "MemBeginTime": 2280,
    "MemEndTime": 2760,
    "PronAccuracy": 72.99543,
    "PronFluency": 0.9688432,
    "ReferenceWord": "",
    "Word": "断",
    "MatchTag": 0,
    "KeywordTag": 0,
    "PhoneInfos": [
        {
            "MemBeginTime": 2280,
            "MemEndTime": 2400,
            "PronAccuracy": 64.7367,
            "DetectedStress": false,
            "Phone": "d",
            "ReferencePhone": "",
            "ReferenceLetter": "",
            "Stress": false,
            "MatchTag": 0
        },
        {
            "MemBeginTime": 2400,
            "MemEndTime": 2490,
```

```
        "PronAccuracy":90.42746,
        "DetectedStress":false,
        "Phone":"u4",
        "ReferencePhone":"","
        "ReferenceLetter":"","
        "Stress":false,
        "MatchTag":0
    },
    {
        "MemBeginTime":2490,
        "MemEndTime":2760,
        "PronAccuracy":68.40878,
        "DetectedStress":false,
        "Phone":"an",
        "ReferencePhone":"","
        "ReferenceLetter":"","
        "Stress":false,
        "MatchTag":0
    }
]
},
{
    "MemBeginTime":2760,
    "MemEndTime":3380,
    "PronAccuracy":42.946674,
    "PronFluency":0.95240074,
    "ReferenceWord":"","
    "Word":"水",
    "MatchTag":0,
    "KeywordTag":0,
    "PhoneInfos":[
        {
            "MemBeginTime":2760,
            "MemEndTime":2920,
            "PronAccuracy":21.995558,
            "DetectedStress":false,
            "Phone":"sh",
            "ReferencePhone":"","
            "ReferenceLetter":"","
            "Stress":false,
            "MatchTag":0
        },
        {
```

```
        "MemBeginTime":2920,
        "MemEndTime":3380,
        "PronAccuracy":49.93038,
        "DetectedStress":false,
        "Phone":"ui3",
        "ReferencePhone":"","
        "ReferenceLetter":"","
        "Stress":false,
        "MatchTag":0
    }
}
],
    "SentenceId":-1,
}
],
    "Status":"Evaluating",
}
```

指定发音

使用汉字 `{::pron{p1,p2..},{p3,p4..}..}` 指定发音，发音单元为 [拼音](#)。

请求参数

主要请求参数说明

参数名称	类型	描述
RefText	String	被评估文本
EvalMode	Integer	评估模式。1: 句子评测模式
ServerType	Integer	评估语言。1: 中文

请求示例

```
{
  "RefText": "我今{::pron{jing1}}天",
  "EvalMode": 1,
  "ServerType": 1,
  "WorkMode": 1,
  "UserVoiceData": "Uk1GRka1CQBXQVZFZm10IBAAAAABAAEAgD4E*",
  "SeqId": 1,
```

```
"IsEnd":1,
"VoiceFileType":3,
"VoiceEncodeType":1,
"SessionId":"144e-1669015382042-66392",
"ScoreCoeff":1.0
}
```

返回结果

主要返回结果说明:

参数名称	类型	描述
SuggestedScore	Integer	建议评分
PronAccuracy	Integer	整体精准度
PronFluency	Integer	整体流利度
Words.PronAccuracy	Integer	单词精准度
Words.PronFluency	Integer	单词流利度
Words.PhoneInfos.PronAccuracy	Integer	音素精准度

返回示例

```
{
  "PronAccuracy": 97.60497,
  "PronFluency": 0.96334666,
  "PronCompletion": 1,
  "Words": [
    {
      "MemBeginTime": 100,
      "MemEndTime": 550,
      "PronAccuracy": 98.722694,
      "PronFluency": 0.95403194,
      "Word": "我",
      "MatchTag": 0,
      "PhoneInfos": [
        {
          "MemBeginTime": 100,
          "MemEndTime": 330,
          "PronAccuracy": 98.37801,
```

```
    "DetectedStress": false,
    "Phone": "w",
    "Stress": false,
    "ReferencePhone": "",
    "MatchTag": 0,
    "ReferenceLetter": ""
  },
  {
    "MemBeginTime": 330,
    "MemEndTime": 550,
    "PronAccuracy": 98.895035,
    "DetectedStress": false,
    "Phone": "o3",
    "Stress": false,
    "ReferencePhone": "",
    "MatchTag": 0,
    "ReferenceLetter": ""
  }
],
"ReferenceWord": "",
"KeywordTag": 0,
"Tone": {
  "Valid": false,
  "RefTone": -1,
  "HypothesisTone": -1
}
},
{
  "MemBeginTime": 550,
  "MemEndTime": 910,
  "PronAccuracy": 97.91466,
  "PronFluency": 0.9723862,
  "Word": "今",
  "MatchTag": 0,
  "PhoneInfos": [
    {
      "MemBeginTime": 550,
      "MemEndTime": 650,
      "PronAccuracy": 98.73343,
      "DetectedStress": false,
      "Phone": "j",
      "Stress": false,
      "ReferencePhone": "",
```

```
    "MatchTag": 0,
    "ReferenceLetter": ""
  },
  {
    "MemBeginTime": 650,
    "MemEndTime": 910,
    "PronAccuracy": 97.50527,
    "DetectedStress": false,
    "Phone": "ing1",
    "Stress": false,
    "ReferencePhone": "",
    "MatchTag": 0,
    "ReferenceLetter": ""
  }
],
"ReferenceWord": "",
"KeywordTag": 0,
"Tone": {
  "Valid": false,
  "RefTone": -1,
  "HypothesisTone": -1
}
},
{
  "MemBeginTime": 910,
  "MemEndTime": 1460,
  "PronAccuracy": 96.53442,
  "PronFluency": 0.963622,
  "Word": "天",
  "MatchTag": 0,
  "PhoneInfos": [
    {
      "MemBeginTime": 910,
      "MemEndTime": 1030,
      "PronAccuracy": 88.60503,
      "DetectedStress": false,
      "Phone": "t",
      "Stress": false,
      "ReferencePhone": "",
      "MatchTag": 0,
      "ReferenceLetter": ""
    },
    {
```



```
    "MemBeginTime": 1030,
    "MemEndTime": 1130,
    "PronAccuracy": 99.204254,
    "DetectedStress": false,
    "Phone": "i1",
    "Stress": false,
    "ReferencePhone": "",
    "MatchTag": 0,
    "ReferenceLetter": ""
  },
  {
    "MemBeginTime": 1130,
    "MemEndTime": 1460,
    "PronAccuracy": 99.16419,
    "DetectedStress": false,
    "Phone": "an",
    "Stress": false,
    "ReferencePhone": "",
    "MatchTag": 0,
    "ReferenceLetter": ""
  }
],
"ReferenceWord": "",
"KeywordTag": 0,
"Tone": {
  "Valid": false,
  "RefTone": -1,
  "HypothesisTone": -1
}
},
"SessionId": "0d35f394-2c2d-11ee-ab1c-acde48001122",
"AudioUrl": "",
"SentenceInfoSet": [],
"Status": "Finished",
"SuggestedScore": 97.60497,
"RefTextId": -1,
"KeyWordHits": [],
"UnKeyWordHits": [],
"RequestId": "a7ab0fa5-b86d-4def-b4b7-ee167a7466b8"
}
```

声调检测

句子模式可以支持声调检测，使用 `{::cmd{F_TDET=true}}` + 汉字 的方式进行评测。

请求参数

主要请求参数说明：

参数名称	类型	描述
RefText	String	被评估文本
EvalMode	Integer	评估模式。1: 句子评测模式
ServerType	Integer	评估语言。1: 中文

请求示例

```
{
  "RefText": "{::cmd{F_TDET=true}}山",
  "EvalMode": 1,
  "ServerType": 1,
  "WorkMode": 1,
  "UserVoiceData": "Uk1GRka1CQBxQVZFZm10IBAAAAABAAEAgD4E*",
  "SeqId": 1,
  "IsEnd": 1,
  "VoiceFileType": 3,
  "VoiceEncodeType": 1,
  "SessionId": "35d4ebe2-1ecd-11ee-86f5-acde48001122",
  "ScoreCoeff": 1.0
}
```

返回结果

主要返回结果说明：

参数名称	类型	描述
Words.Valid	Boolean	检测结果是否有效 <div style="border: 1px solid #00a0e3; padding: 5px; margin-top: 10px;">注意： 此字段可能返回 null，表示取不到有效值。</div>

Words.RefTone	Integer	<p>文本标准声调，数值范围[-1,1,2,3,4]</p> <div style="border: 1px solid #00a090; padding: 5px; margin-top: 10px;"> <p>⚠ 注意： 此字段可能返回 null，表示取不到有效值。</p> </div>
Words.HypothesisTone	Integer	<p>实际发音声调，数值范围[-1,1,2,3,4]</p> <div style="border: 1px solid #00a090; padding: 5px; margin-top: 10px;"> <p>⚠ 注意： 此字段可能返回 null，表示取不到有效值。</p> </div>

返回示例

```

{
  "PronAccuracy":97.04167,
  "PronFluency":0.9405903,
  "PronCompletion":1,
  "Words": [
    {
      "MemBeginTime":60,
      "MemEndTime":630,
      "PronAccuracy":97.04167,
      "PronFluency":0.9405903,
      "Word": "山",
      "MatchTag":0,
      "PhoneInfos": [
        {
          "MemBeginTime":60,
          "MemEndTime":310,
          "PronAccuracy":95.0883,
          "DetectedStress":false,
          "Phone": "sh",
          "Stress":false,
          "ReferencePhone": "",
          "MatchTag":0,
          "ReferenceLetter": ""
        },
        {
          "MemBeginTime":310,
          "MemEndTime":630,
          "PronAccuracy":98.01835,

```

```
        "DetectedStress":false,
        "Phone":"an1",
        "Stress":false,
        "ReferencePhone":"","
        "MatchTag":0,
        "ReferenceLetter":""
    }
],
"ReferenceWord":"","
"KeywordTag":0,
"Tone":{
    "Valid":true,
    "RefTone":1,
    "HypothesisTone":1
}
},
"SessionId":"35d4ebe2-1ecd-11ee-86f5-acde48001122",
"AudioUrl":"","
"SentenceInfoSet":Array[1],
"Status":"Finished",
"SuggestedScore":97.04167,
"RefTextId":-1,
"KeyWordHits":[

],
"UnKeyWordHits":[

],
"RequestId":"90a10f5e-7928-4a94-bb60-403121d4729b"
```

段落评测模式

最近更新时间：2024-06-26 17:38:52

评估模式描述

- 评测要求：支持不超过120个汉字，300秒音频时长。
- 评测维度：支持返回单词精准度，流利度，完整度。
- 评测功能：支持实时评测，多组文本，主题词和关键词，指定发音。

请求参数

主要请求参数说明：

参数名称	类型	描述
RefText	String	被评估文本。不超过120个汉字
EvalMode	Integer	评估模式。2：段落评测模式
ServerType	Integer	评估语言。1：中文

请求示例

```
{
  "RefText": "君不见黄河之水天上来，奔流到海不复回。君不见高堂明镜悲白发，朝如青丝暮成雪。人生得意须尽欢，莫使金樽空对月。天生我材必有用，千金散尽还复来。",
  "EvalMode": 2,
  "ServerType": 1,
  "WorkMode": 1,
  "UserVoiceData": "Uk1GRka1CQBxQVZFZm10IBAAAAABAAEAgD4E*",
  "SeqId": 1,
  "IsEnd": 1,
  "VoiceFileType": 3,
  "VoiceEncodeType": 1,
  "SessionId": "5588e1da-63f9-11ed-9ce2-acde48001122",
  "ScoreCoeff": 1.0
}
```

返回结果

主要返回结果说明：

参数名称	类型	描述
SuggestedScore	Integer	建议评分
PronAccuracy	Integer	整体精准度
PronFluency	Integer	整体流利度
PronCompletion	Integer	整体完整度
Words.PronAccuracy	Integer	单词精准度
Words.PronFluency	Integer	单词流利度
Words.MatchTag	Integer	当前词的音频与文本的匹配情况

请求示例

```
{
  "PronAccuracy":79.46394,
  "PronFluency":0.96788603,
  "PronCompletion":0.8064516,
  "Words":[
    {
      "MemBeginTime":1330,
      "MemEndTime":1810,
      "PronAccuracy":93.51926,
      "PronFluency":0.9502656,
      "Word":"君",
      "MatchTag":0,
      "PhoneInfos":[

      ],
      "ReferenceWord":"","
      "KeywordTag":0
    },
    {
      "MemBeginTime":1830,
      "MemEndTime":2210,
      "PronAccuracy":57.247417,
      "PronFluency":0.9322729,
      "Word":"不",
      "MatchTag":0,
```

```
"PhoneInfos": [
],
"ReferenceWord": "",
"KeywordTag": 0
},
{
"MemBeginTime": 2210,
"MemEndTime": 2780,
"PronAccuracy": 93.54713,
"PronFluency": 0.9445577,
"Word": "见",
"MatchTag": 0,
"PhoneInfos": [
],
"ReferenceWord": "",
"KeywordTag": 0
},
{
"MemBeginTime": 2780,
"MemEndTime": 3330,
"PronAccuracy": 97.28049,
"PronFluency": 0.96531796,
"Word": "黄",
"MatchTag": 0,
"PhoneInfos": [
],
"ReferenceWord": "",
"KeywordTag": 0
},
{
"MemBeginTime": 3330,
"MemEndTime": 3730,
"PronAccuracy": 97.271904,
"PronFluency": 0.9469911,
"Word": "河",
"MatchTag": 0,
"PhoneInfos": [
],
"ReferenceWord": "",
```

```
    "KeywordTag":0
  },
  {
    "MemBeginTime":3730,
    "MemEndTime":4010,
    "PronAccuracy":96.83094,
    "PronFluency":0.9563303,
    "Word":"之",
    "MatchTag":0,
    "PhoneInfos":[

  ],
  "ReferenceWord":"",
  "KeywordTag":0
},
{
  "MemBeginTime":4010,
  "MemEndTime":4490,
  "PronAccuracy":98.03019,
  "PronFluency":0.97213316,
  "Word":"水",
  "MatchTag":0,
  "PhoneInfos":[

  ],
  "ReferenceWord":"",
  "KeywordTag":0
},
{
  "MemBeginTime":4550,
  "MemEndTime":4890,
  "PronAccuracy":98.01057,
  "PronFluency":0.9864521,
  "Word":"天",
  "MatchTag":0,
  "PhoneInfos":[

  ],
  "ReferenceWord":"",
  "KeywordTag":0
},
{
  "MemBeginTime":4890,
```



```
"MemEndTime":5210,
"PronAccuracy":98.87561,
"PronFluency":0.9813306,
"Word":"上",
"MatchTag":0,
"PhoneInfos":[
],
"ReferenceWord":"","
"KeywordTag":0
},
{
"MemBeginTime":5210,
"MemEndTime":5610,
"PronAccuracy":98.0617,
"PronFluency":0.947675,
"Word":"来",
"MatchTag":0,
"PhoneInfos":[
],
"ReferenceWord":"","
"KeywordTag":0
},
{
"MemBeginTime":6010,
"MemEndTime":6330,
"PronAccuracy":75.862,
"PronFluency":0.97582966,
"Word":"奔",
"MatchTag":0,
"PhoneInfos":[
],
"ReferenceWord":"","
"KeywordTag":0
},
{
"MemBeginTime":6330,
"MemEndTime":6610,
"PronAccuracy":96.476166,
"PronFluency":0.99315804,
"Word":"流",
```

```
"MatchTag":0,
"PhoneInfos":[
],
"ReferenceWord":"","
"KeywordTag":0
},
{
"MemBeginTime":6610,
"MemEndTime":6910,
"PronAccuracy":98.79114,
"PronFluency":0.97288656,
"Word":"到",
"MatchTag":0,
"PhoneInfos":[
],
"ReferenceWord":"","
"KeywordTag":0
},
{
"MemBeginTime":6910,
"MemEndTime":7370,
"PronAccuracy":91.792274,
"PronFluency":0.9464178,
"Word":"海",
"MatchTag":0,
"PhoneInfos":[
],
"ReferenceWord":"","
"KeywordTag":0
},
{
"MemBeginTime":7450,
"MemEndTime":7730,
"PronAccuracy":91.31023,
"PronFluency":0.96026874,
"Word":"不",
"MatchTag":0,
"PhoneInfos":[
],
```

```
"ReferenceWord": "",
"KeywordTag": 0
},
{
  "MemBeginTime": 7730,
  "MemEndTime": 8070,
  "PronAccuracy": 98.594795,
  "PronFluency": 0.9491575,
  "Word": "复",
  "MatchTag": 0,
  "PhoneInfos": [

  ],
  "ReferenceWord": "",
  "KeywordTag": 0
},
{
  "MemBeginTime": 8070,
  "MemEndTime": 8470,
  "PronAccuracy": 95.72612,
  "PronFluency": 0.9812511,
  "Word": "回",
  "MatchTag": 0,
  "PhoneInfos": [

  ],
  "ReferenceWord": "",
  "KeywordTag": 0
},
{
  "MemBeginTime": 8860,
  "MemEndTime": 9140,
  "PronAccuracy": 67.703964,
  "PronFluency": 0.9812386,
  "Word": "君",
  "MatchTag": 0,
  "PhoneInfos": [

  ],
  "ReferenceWord": "",
  "KeywordTag": 0
},
{
```

```
"MemBeginTime":9140,
"MemEndTime":9310,
"PronAccuracy":80.41823,
"PronFluency":0.98986757,
"Word":"不",
"MatchTag":0,
"PhoneInfos":[

],
"ReferenceWord":"","
"KeywordTag":0
},
{
  "MemBeginTime":9310,
  "MemEndTime":9690,
  "PronAccuracy":96.83778,
  "PronFluency":0.9773178,
  "Word":"见",
  "MatchTag":0,
  "PhoneInfos":[

],
  "ReferenceWord":"","
  "KeywordTag":0
},
{
  "MemBeginTime":9770,
  "MemEndTime":10110,
  "PronAccuracy":98.06411,
  "PronFluency":0.97253066,
  "Word":"高",
  "MatchTag":0,
  "PhoneInfos":[

],
  "ReferenceWord":"","
  "KeywordTag":0
},
{
  "MemBeginTime":10110,
  "MemEndTime":10430,
  "PronAccuracy":96.08603,
  "PronFluency":0.9849139,
```

```
    "Word": "堂",
    "MatchTag": 0,
    "PhoneInfos": [

    ],
    "ReferenceWord": "",
    "KeywordTag": 0
  },
  {
    "MemBeginTime": 10430,
    "MemEndTime": 10650,
    "PronAccuracy": 92.77642,
    "PronFluency": 0.99451923,
    "Word": "明",
    "MatchTag": 0,
    "PhoneInfos": [

    ],
    "ReferenceWord": "",
    "KeywordTag": 0
  },
  {
    "MemBeginTime": 10650,
    "MemEndTime": 11150,
    "PronAccuracy": 95.78129,
    "PronFluency": 0.9458583,
    "Word": "镜",
    "MatchTag": 0,
    "PhoneInfos": [

    ],
    "ReferenceWord": "",
    "KeywordTag": 0
  },
  {
    "MemBeginTime": 11170,
    "MemEndTime": 11510,
    "PronAccuracy": 97.30926,
    "PronFluency": 0.97679806,
    "Word": "悲",
    "MatchTag": 0,
    "PhoneInfos": [
```

```
],
  "ReferenceWord": "",
  "KeywordTag": 0
},
{
  "MemBeginTime": 11510,
  "MemEndTime": 11790,
  "PronAccuracy": 81.186485,
  "PronFluency": 0.98105997,
  "Word": "白",
  "MatchTag": 0,
  "PhoneInfos": [

  ],
  "ReferenceWord": "",
  "KeywordTag": 0
},
{
  "MemBeginTime": 11790,
  "MemEndTime": 12230,
  "PronAccuracy": 95.159164,
  "PronFluency": 0.9410107,
  "Word": "发",
  "MatchTag": 0,
  "PhoneInfos": [

  ],
  "ReferenceWord": "",
  "KeywordTag": 0
},
{
  "MemBeginTime": 12690,
  "MemEndTime": 13040,
  "PronAccuracy": 94.852715,
  "PronFluency": 0.96907306,
  "Word": "朝",
  "MatchTag": 0,
  "PhoneInfos": [

  ],
  "ReferenceWord": "",
  "KeywordTag": 0
},
}
```

```
{
  "MemBeginTime":13040,
  "MemEndTime":13210,
  "PronAccuracy":68.82349,
  "PronFluency":0.9843749,
  "Word":"如",
  "MatchTag":0,
  "PhoneInfos":[

],
  "ReferenceWord":"","
  "KeywordTag":0
},
{
  "MemBeginTime":13230,
  "MemEndTime":13570,
  "PronAccuracy":88.82808,
  "PronFluency":0.98340774,
  "Word":"青",
  "MatchTag":0,
  "PhoneInfos":[

],
  "ReferenceWord":"","
  "KeywordTag":0
},
{
  "MemBeginTime":13570,
  "MemEndTime":14080,
  "PronAccuracy":90.39614,
  "PronFluency":0.93254924,
  "Word":"丝",
  "MatchTag":0,
  "PhoneInfos":[

],
  "ReferenceWord":"","
  "KeywordTag":0
},
{
  "MemBeginTime":14100,
  "MemEndTime":14290,
  "PronAccuracy":8.275865,
```

```
"PronFluency":0.9825468,
"Word":"暮",
"MatchTag":0,
"PhoneInfos":[

],
"ReferenceWord":"","
"KeywordTag":0
},
{
  "MemBeginTime":14290,
  "MemEndTime":14570,
  "PronAccuracy":51.33515,
  "PronFluency":0.99078196,
  "Word":"成",
  "MatchTag":0,
  "PhoneInfos":[

],
  "ReferenceWord":"","
  "KeywordTag":0
},
{
  "MemBeginTime":14570,
  "MemEndTime":14890,
  "PronAccuracy":20.290615,
  "PronFluency":0.97459394,
  "Word":"雪",
  "MatchTag":0,
  "PhoneInfos":[

],
  "ReferenceWord":"","
  "KeywordTag":0
},
{
  "MemBeginTime":15430,
  "MemEndTime":15670,
  "PronAccuracy":13.241609,
  "PronFluency":0.9897597,
  "Word":"人",
  "MatchTag":0,
  "PhoneInfos":[
```



```
    ],
    "ReferenceWord": "",
    "KeywordTag": 0
  },
  {
    "MemBeginTime": 15670,
    "MemEndTime": 16010,
    "PronAccuracy": 83.60304,
    "PronFluency": 0.97709435,
    "Word": "生",
    "MatchTag": 0,
    "PhoneInfos": [

    ],
    "ReferenceWord": "",
    "KeywordTag": 0
  },
  {
    "MemBeginTime": 16030,
    "MemEndTime": 16250,
    "PronAccuracy": 21.122902,
    "PronFluency": 0.97038484,
    "Word": "得",
    "MatchTag": 0,
    "PhoneInfos": [

    ],
    "ReferenceWord": "",
    "KeywordTag": 0
  },
  {
    "MemBeginTime": 16250,
    "MemEndTime": 16510,
    "PronAccuracy": 28.532358,
    "PronFluency": 0.9575285,
    "Word": "意",
    "MatchTag": 0,
    "PhoneInfos": [

    ],
    "ReferenceWord": "",
    "KeywordTag": 0
  }
]
```

```
},
{
  "MemBeginTime":16530,
  "MemEndTime":16910,
  "PronAccuracy":31.436018,
  "PronFluency":0.9447334,
  "Word":"须",
  "MatchTag":0,
  "PhoneInfos":[

],
  "ReferenceWord":"","
  "KeywordTag":0
},
{
  "MemBeginTime":16930,
  "MemEndTime":17240,
  "PronAccuracy":15.999572,
  "PronFluency":0.97345763,
  "Word":"尽",
  "MatchTag":0,
  "PhoneInfos":[

],
  "ReferenceWord":"","
  "KeywordTag":0
},
{
  "MemBeginTime":17240,
  "MemEndTime":17630,
  "PronAccuracy":76.909,
  "PronFluency":0.9809624,
  "Word":"欢",
  "MatchTag":0,
  "PhoneInfos":[

],
  "ReferenceWord":"","
  "KeywordTag":0
},
{
  "MemBeginTime":17650,
  "MemEndTime":21280,
```

```
"PronAccuracy":-1,
"PronFluency":-1,
"Word":"莫",
"MatchTag":3,
"PhoneInfos":[
],
"ReferenceWord":"",
"KeywordTag":0
},
{
  "MemBeginTime":21340,
  "MemEndTime":21650,
  "PronAccuracy":-1,
  "PronFluency":-1,
  "Word":"使",
  "MatchTag":3,
  "PhoneInfos":[
],
  "ReferenceWord":"",
  "KeywordTag":0
},
{
  "MemBeginTime":21650,
  "MemEndTime":21890,
  "PronAccuracy":-1,
  "PronFluency":-1,
  "Word":"金",
  "MatchTag":3,
  "PhoneInfos":[
],
  "ReferenceWord":"",
  "KeywordTag":0
},
{
  "MemBeginTime":-1,
  "MemEndTime":-1,
  "PronAccuracy":-1,
  "PronFluency":-1,
  "Word":"樽",
  "MatchTag":2,
```

```
"PhoneInfos": [
],
"ReferenceWord": "",
"KeywordTag": 0
},
{
"MemBeginTime": -1,
"MemEndTime": -1,
"PronAccuracy": -1,
"PronFluency": -1,
"Word": "空",
"MatchTag": 2,
"PhoneInfos": [
],
"ReferenceWord": "",
"KeywordTag": 0
},
{
"MemBeginTime": -1,
"MemEndTime": -1,
"PronAccuracy": -1,
"PronFluency": -1,
"Word": "对",
"MatchTag": 2,
"PhoneInfos": [
],
"ReferenceWord": "",
"KeywordTag": 0
},
{
"MemBeginTime": -1,
"MemEndTime": -1,
"PronAccuracy": -1,
"PronFluency": -1,
"Word": "月",
"MatchTag": 2,
"PhoneInfos": [
],
"ReferenceWord": "",
```

```
    "KeywordTag":0
  },
  {
    "MemBeginTime":-1,
    "MemEndTime":-1,
    "PronAccuracy":-1,
    "PronFluency":-1,
    "Word":"天",
    "MatchTag":2,
    "PhoneInfos":[

    ],
    "ReferenceWord":"",
    "KeywordTag":0
  },
  {
    "MemBeginTime":-1,
    "MemEndTime":-1,
    "PronAccuracy":-1,
    "PronFluency":-1,
    "Word":"生",
    "MatchTag":2,
    "PhoneInfos":[

    ],
    "ReferenceWord":"",
    "KeywordTag":0
  },
  {
    "MemBeginTime":-1,
    "MemEndTime":-1,
    "PronAccuracy":-1,
    "PronFluency":-1,
    "Word":"我",
    "MatchTag":2,
    "PhoneInfos":[

    ],
    "ReferenceWord":"",
    "KeywordTag":0
  },
  {
    "MemBeginTime":-1,
```

```
    "MemEndTime":-1,
    "PronAccuracy":-1,
    "PronFluency":-1,
    "Word":"材",
    "MatchTag":2,
    "PhoneInfos":[
    ],
    "ReferenceWord":"","
    "KeywordTag":0
  },
  {
    "MemBeginTime":-1,
    "MemEndTime":-1,
    "PronAccuracy":-1,
    "PronFluency":-1,
    "Word":"必",
    "MatchTag":2,
    "PhoneInfos":[
    ],
    "ReferenceWord":"","
    "KeywordTag":0
  },
  {
    "MemBeginTime":21890,
    "MemEndTime":22170,
    "PronAccuracy":92.92656,
    "PronFluency":0.9909997,
    "Word":"有",
    "MatchTag":0,
    "PhoneInfos":[
    ],
    "ReferenceWord":"","
    "KeywordTag":0
  },
  {
    "MemBeginTime":22170,
    "MemEndTime":22590,
    "PronAccuracy":94.57896,
    "PronFluency":0.9769188,
    "Word":"用",
```

```
    "MatchTag":0,
    "PhoneInfos":[
  ],
  "ReferenceWord":"","
  "KeywordTag":0
},
{
  "MemBeginTime":22920,
  "MemEndTime":23250,
  "PronAccuracy":86.151566,
  "PronFluency":0.9914025,
  "Word":"千",
  "MatchTag":0,
  "PhoneInfos":[
  ],
  "ReferenceWord":"","
  "KeywordTag":0
},
{
  "MemBeginTime":23250,
  "MemEndTime":23530,
  "PronAccuracy":76.556206,
  "PronFluency":0.9836274,
  "Word":"金",
  "MatchTag":0,
  "PhoneInfos":[
  ],
  "ReferenceWord":"","
  "KeywordTag":0
},
{
  "MemBeginTime":23530,
  "MemEndTime":24230,
  "PronAccuracy":75.685715,
  "PronFluency":0.92114115,
  "Word":"散",
  "MatchTag":0,
  "PhoneInfos":[
  ],
```

```
"ReferenceWord": "",
"KeywordTag": 0
},
{
  "MemBeginTime": 24230,
  "MemEndTime": 24680,
  "PronAccuracy": 87.0992,
  "PronFluency": 0.95008373,
  "Word": "尽",
  "MatchTag": 0,
  "PhoneInfos": [

  ],
  "ReferenceWord": "",
  "KeywordTag": 0
},
{
  "MemBeginTime": 24680,
  "MemEndTime": 25150,
  "PronAccuracy": 91.98713,
  "PronFluency": 0.9721607,
  "Word": "还",
  "MatchTag": 0,
  "PhoneInfos": [

  ],
  "ReferenceWord": "",
  "KeywordTag": 0
},
{
  "MemBeginTime": 25150,
  "MemEndTime": 25530,
  "PronAccuracy": 97.66733,
  "PronFluency": 0.9351301,
  "Word": "复",
  "MatchTag": 0,
  "PhoneInfos": [

  ],
  "ReferenceWord": "",
  "KeywordTag": 0
},
{
```



```
        "MemBeginTime":25530,
        "MemEndTime":25930,
        "PronAccuracy":98.34716,
        "PronFluency":0.9541783,
        "Word":"来",
        "MatchTag":0,
        "PhoneInfos":[

        ],
        "ReferenceWord":"","
        "KeywordTag":0
    }
],
"SessionId":"5588e1da-63f9-11ed-9ce2-acde48001122",
"SentenceInfoSet":[],
"PronAccuracy":79.46394,
"PronFluency":0.96788603,
"PronCompletion":0.8064516,
"SuggestedScore":0,
}
],
"Status":"Finished",
"SuggestedScore":76.4871426832186,
"RequestId":"9d5576bb-16f9-4681-8049-69a2af0390a4"
}
```

实时评测

主要作用是获取实时中间结果，实时展示评测内容。评测结果以最终结果为准。实现方式可参考 [语音输入模式介绍](#) > [流式文本](#)。

请求参数

主要请求参数说明：

参数名称	类型	描述
RefText	String	被评估文本。不超过120个汉字
EvalMode	Integer	评估模式。2：段落评测模式
ServerType	Integer	评估语言。1：中文
WorkMode	Integer	语音输入模式。0：流式分片

SentenceInfoEnabled	Integer	出断句中间结果标识。1：输出
---------------------	---------	----------------

请求示例

```
{
  "RefText": "君不见黄河之水天上来，奔流到海不复回。君不见高堂明镜悲白发，朝如青丝暮成雪。人生得意须尽欢，莫使金樽空对月。天生我材必有用，千金散尽还复来。",
  "EvalMode": 2,
  "ServerType": 1,
  "WorkMode": 0,
  "SentenceInfoEnabled": 1,
  "UserVoiceData": "UklGRka1CQBxQVZFZm10IBAAAAABAAEAgD4E*",
  "SeqId": 1,
  "IsEnd": 1,
  "VoiceFileType": 3,
  "VoiceEncodeType": 1,
  "SessionId": "3c1df34a-696f-11ed-b4b7-acde48001122",
  "ScoreCoeff": 1.0
}
```

返回结果

主要返回结果说明：

参数名称	类型	描述
SentenceInfoSet.Words.PronAccuracy	Integer	单词精准度
SentenceInfoSet.Words.PronFluency	Integer	单词流利度
SentenceInfoSet.Words.MatchTag	Integer	当前词的音频与文本的匹配情况

返回示例

```
{
  "PronAccuracy": -1,
  "PronFluency": -1,
  "PronCompletion": 0,
  "Words": Array[4],
}
```

```
"SessionId": "3c1df34a-696f-11ed-b4b7-acde48001122",
"AudioUrl": "",
"SentenceInfoSet": [
  {
    "SentenceId": 0,
    "Words": [
      {
        "MemBeginTime": 1040,
        "MemEndTime": 1330,
        "PronAccuracy": 78.74817,
        "PronFluency": 0.9808751,
        "Word": "君",
        "MatchTag": 0,
        "PhoneInfos": [

        ],
        "ReferenceWord": "",
        "KeywordTag": 0
      },
      {
        "MemBeginTime": 1330,
        "MemEndTime": 1510,
        "PronAccuracy": 81.81139,
        "PronFluency": 0.98826456,
        "Word": "不",
        "MatchTag": 0,
        "PhoneInfos": [

        ],
        "ReferenceWord": "",
        "KeywordTag": 0
      },
      {
        "MemBeginTime": 1510,
        "MemEndTime": 1850,
        "PronAccuracy": 97.83383,
        "PronFluency": 0.9844603,
        "Word": "见",
        "MatchTag": 0,
        "PhoneInfos": [

        ],
        "ReferenceWord": "",

```

```
        "KeywordTag":0
      },
      {
        "MemBeginTime":1850,
        "MemEndTime":2250,
        "PronAccuracy":98.80923,
        "PronFluency":0.9850791,
        "Word":"黄",
        "MatchTag":0,
        "PhoneInfos":[

        ],
        "ReferenceWord":"","
        "KeywordTag":0
      }
    ],
    "PronAccuracy":-1,
    "PronFluency":-1,
    "PronCompletion":0,
    "SuggestedScore":0,
    "RefTextId":-1,
    "KeyWordHits":[

    ],
    "UnKeyWordHits":[

    ]
  }
],
"Status":"Evaluating",
"SuggestedScore":0,
"RefTextId":-1,
"KeyWordHits":[

],
"UnKeyWordHits":[

],
"RequestId":"dd3cc36e-3b62-4d06-b3f0-6e30646a216b"
}
```

主题词和关键词

使用|划分多组文本，每组不超过120个单词。当预设多组文本，没有实时结果。

请求参数

主要请求参数说明：

参数名称	类型	描述
RefText	String	被评估文本。可以使用 划分成多个分支
Keyword	String	主题词和关键词。使用 划分不同主题词
EvalMode	Integer	评估模式。2：段落评测模式
ServerType	Integer	评估语言。1：中文

请求示例

```
{
  "RefText": "油画 | 山水画作",
  "Keyword": "油 | 山水画 | 绘画",
  "EvalMode": 2,
  "ServerType": 1
  "WorkMode": 1,
  "UserVoiceData": "UklGRka1CQBxQVZFZm10IBAAAAABAAEAgD4E*",
  "SeqId": 1,
  "IsEnd": 1,
  "VoiceFileType": 3,
  "VoiceEncodeType": 1,
  "SessionId": "4f891e32-a82b-11ed-acdb-acde48001122",
  "ScoreCoeff": 1.0
}
```

返回结果

主要返回结果如下：

参数名称	类型	描述
PronAccuracy	Integer	精准度
PronCompletion	Integer	切题度
Words.KeywordTag	Integer	主题词命中标志

RefTextId	Integer	匹配候选文本的序号
KeyWordHits	Array of Float	主题词命中标志
UnKeyWordHits	Array of Float	负向主题词命中标志

返回示例

```

{
  "PronAccuracy": 96.85433,
  "PronFluency": 0.96186596,
  "PronCompletion": 0.75,
  "Words": [
    {
      "MemBeginTime": 950,
      "MemEndTime": 1430,
      "PronAccuracy": 94.6898,
      "PronFluency": 0.95479125,
      "Word": "山",
      "MatchTag": 0,
      "PhoneInfos": [],
      "ReferenceWord": "",
      "KeywordTag": 1,
      "Tone": {
        "Valid": false,
        "RefTone": -1,
        "HypothesisTone": -1
      }
    },
    {
      "MemBeginTime": 1430,
      "MemEndTime": 1830,
      "PronAccuracy": 97.93999,
      "PronFluency": 0.9815328,
      "Word": "水",
      "MatchTag": 0,
      "PhoneInfos": [],
      "ReferenceWord": "",
      "KeywordTag": 1,
      "Tone": {
        "Valid": false,
        "RefTone": -1,
        "HypothesisTone": -1
      }
    }
  ]
}
    
```

```
}
},
{
  "MemBeginTime": 1830,
  "MemEndTime": 2390,
  "PronAccuracy": 97.93319,
  "PronFluency": 0.9492738,
  "Word": "画",
  "MatchTag": 0,
  "PhoneInfos": [],
  "ReferenceWord": "",
  "KeywordTag": 1,
  "Tone": {
    "Valid": false,
    "RefTone": -1,
    "HypothesisTone": -1
  }
},
{
  "MemBeginTime": -1,
  "MemEndTime": -1,
  "PronAccuracy": -1,
  "PronFluency": -1,
  "Word": "作",
  "MatchTag": 2,
  "PhoneInfos": [],
  "ReferenceWord": "",
  "KeywordTag": 0,
  "Tone": {
    "Valid": false,
    "RefTone": -1,
    "HypothesisTone": -1
  }
}
],
"SessionId": "2bd66670-2c47-11ee-88db-acde48001122",
"AudioUrl": "",
"SentenceInfoSet": [],
"Status": "Finished",
"SuggestedScore": 90.800934375,
"RefTextId": 1,
"KeyWordHits": [
  0,
```

```
1,  
0  
],  
"UnKeyWordHits": [],  
"RequestId": "31a5ec1b-50ee-4323-bf6e-a16992e4156a"  
}
```

指定发音

使用 汉字 `::pron{p1,p2..},{p3,p4..}..` 指定发音，发音单元为 [拼音](#)。

请求参数

主要请求参数说明：

参数名称	类型	描述
RefText	String	被评估文本
EvalMode	Integer	评估模式。2：段落评测模式
ServerType	Integer	评估语言。1：中文

请求示例

```
{  
  "RefText": "清平乐{::pron{yue4}}",  
  "EvalMode": 2,  
  "ServerType": 1,  
  "WorkMode": 1,  
  "UserVoiceData": "Uk1GRka1CQBxQVZFZm10IBAAAAABAAEAgD4E*",  
  "SeqId": 1,  
  "IsEnd": 1,  
  "VoiceFileType": 3,  
  "VoiceEncodeType": 1,  
  "SessionId": "144e-1669015382042-66392",  
  "ScoreCoeff": 1.0  
}
```

返回结果

主要返回结果说明：

参数名称	类型	描述
SuggestedScore	Integer	建议评分
PronAccuracy	Integer	整体精准度
PronFluency	Integer	整体流利度
Words.PronAccuracy	Integer	单词精准度
Words.PronFluency	Integer	单词流利度

返回示例

```
{
  "PronAccuracy": 97.41477,
  "PronFluency": 0.9806597,
  "PronCompletion": 1,
  "Words": [
    {
      "MemBeginTime": 510,
      "MemEndTime": 890,
      "PronAccuracy": 96.52874,
      "PronFluency": 0.97874004,
      "Word": "清",
      "MatchTag": 0,
      "PhoneInfos": [],
      "ReferenceWord": "",
      "KeywordTag": 0,
      "Tone": {
        "Valid": false,
        "RefTone": -1,
        "HypothesisTone": -1
      }
    },
    {
      "MemBeginTime": 890,
      "MemEndTime": 1180,
      "PronAccuracy": 97.24883,
      "PronFluency": 0.9894137,
      "Word": "平",
      "MatchTag": 0,
      "PhoneInfos": [],
      "ReferenceWord": ""
    }
  ]
}
```

```
"KeywordTag": 0,
  "Tone": {
    "Valid": false,
    "RefTone": -1,
    "HypothesisTone": -1
  }
},
{
  "MemBeginTime": 1180,
  "MemEndTime": 1550,
  "PronAccuracy": 98.46676,
  "PronFluency": 0.9738254,
  "Word": "乐",
  "MatchTag": 0,
  "PhoneInfos": [],
  "ReferenceWord": "",
  "KeywordTag": 0,
  "Tone": {
    "Valid": false,
    "RefTone": -1,
    "HypothesisTone": -1
  }
}
],
"SessionId": "5c99d89e-2c30-11ee-8d8a-acde48001122",
"AudioUrl": "",
"SentenceInfoSet": [],
"Status": "Finished",
"SuggestedScore": 97.41477,
"RefTextId": 0,
"KeyWordHits": [],
"UnKeyWordHits": [],
"RequestId": "a350a404-7bec-4835-b621-0515a492e68e"
```

自由说评测模式

最近更新时间：2024-06-26 17:38:52

评估模式描述

- 评测要求：支持不设置文本，直接识别音频内容，300秒音频时长。
- 评测维度：支持返回单词精准度，流利度。
- 评测功能：支持实时评测，标点符号。
- 主要作用是获取实时中间结果，实时展示评测内容。评测结果以最终结果为准。实现方式可参考 [语音输入模式 > 流式评测](#)。

请求参数

主要请求参数说明

参数名称	类型	描述
RefText	String	被评估文本
EvalMode	Integer	评估模式。3：自由说评测模式
ServerType	Integer	评估语言。1：中文

请求示例

```
{
  "RefText": "",
  "EvalMode": 3,
  "ServerType": 1,
  "WorkMode": 1,
  "UserVoiceData": "Uk1GRka1CQBXQVZFZm10IBAAAAABAAEAgD4E*",
  "SeqId": 1,
  "IsEnd": 1,
  "VoiceFileType": 3,
  "VoiceEncodeType": 1,
  "SessionId": "4d7f07b9-72d7-49a2-9718-ba49f02312cf",
  "ScoreCoeff": 1.0
}
```

返回结果

主要返回结果说明

参数名称	类型	描述
SuggestedScore	Integer	建议评分
PronAccuracy	Integer	整体精准度
PronFluency	Integer	整体流利度
Words.PronAccuracy	Integer	单词精准度
Words.PronFluency	Integer	单词流利度
Words.MatchTag	Integer	当前词的音频与文本的匹配情况

返回示例

```
{
  "Response": {
    "SuggestedScore": 92.66579,
    "PronAccuracy": 92.66579,
    "PronFluency": 0.96167487,
    "PronCompletion": -1,
    "RequestId": "53e89254-f22c-45d3-81c9-fa6862af7ac3",
    "Words": [
      {
        "MemBeginTime": -1,
        "MemEndTime": -1,
        "PronAccuracy": 97.79225,
        "PronFluency": 0.9354809,
        "ReferenceWord": "",
        "Word": "锄",
        "MatchTag": 0,
        "KeywordTag": 0,
        "PhoneInfos": [

        ]
      },
      {
        "MemBeginTime": -1,
        "MemEndTime": -1,
        "PronAccuracy": 96.60354,
```

```
    "PronFluency":0.97392696,
    "ReferenceWord":"","
    "Word":"禾",
    "MatchTag":0,
    "KeywordTag":0,
    "PhoneInfos":[
]
},
{
    "MemBeginTime":-1,
    "MemEndTime":-1,
    "PronAccuracy":58.371662,
    "PronFluency":0.9310384,
    "ReferenceWord":"","
    "Word":"日",
    "MatchTag":0,
    "KeywordTag":0,
    "PhoneInfos":[
]
},
{
    "MemBeginTime":-1,
    "MemEndTime":-1,
    "PronAccuracy":89.16049,
    "PronFluency":0.9786485,
    "ReferenceWord":"","
    "Word":"当",
    "MatchTag":0,
    "KeywordTag":0,
    "PhoneInfos":[
]
},
{
    "MemBeginTime":-1,
    "MemEndTime":-1,
    "PronAccuracy":97.884476,
    "PronFluency":0.90114903,
    "ReferenceWord":"","
    "Word":"午",
    "MatchTag":0,
```

```
    "KeywordTag":0,
    "PhoneInfos":[
  ]
},
{
  "MemBeginTime":-1,
  "MemEndTime":-1,
  "PronAccuracy":94.925064,
  "PronFluency":0.96929383,
  "ReferenceWord":"","
  "Word":"汗",
  "MatchTag":0,
  "KeywordTag":0,
  "PhoneInfos":[
  ]
},
{
  "MemBeginTime":-1,
  "MemEndTime":-1,
  "PronAccuracy":97.89407,
  "PronFluency":0.9518177,
  "ReferenceWord":"","
  "Word":"滴",
  "MatchTag":0,
  "KeywordTag":0,
  "PhoneInfos":[
  ]
},
{
  "MemBeginTime":-1,
  "MemEndTime":-1,
  "PronAccuracy":98.57983,
  "PronFluency":0.9822053,
  "ReferenceWord":"","
  "Word":"禾",
  "MatchTag":0,
  "KeywordTag":0,
  "PhoneInfos":[
  ]
}
```

```
},
{
  "MemBeginTime": -1,
  "MemEndTime": -1,
  "PronAccuracy": 97.6739,
  "PronFluency": 0.9788975,
  "ReferenceWord": "",
  "Word": "下",
  "MatchTag": 0,
  "KeywordTag": 0,
  "PhoneInfos": [

]
},
{
  "MemBeginTime": -1,
  "MemEndTime": -1,
  "PronAccuracy": 96.34329,
  "PronFluency": 0.93179417,
  "ReferenceWord": "",
  "Word": "士",
  "MatchTag": 0,
  "KeywordTag": 0,
  "PhoneInfos": [

]
},
{
  "MemBeginTime": -1,
  "MemEndTime": -1,
  "PronAccuracy": 94.06016,
  "PronFluency": 0.98168886,
  "ReferenceWord": "",
  "Word": "谁",
  "MatchTag": 0,
  "KeywordTag": 0,
  "PhoneInfos": [

]
},
{
  "MemBeginTime": -1,
  "MemEndTime": -1,
```

```
"PronAccuracy":98.69448,
"PronFluency":0.9736544,
"ReferenceWord":"","
"Word":"知",
"MatchTag":0,
"KeywordTag":0,
"PhoneInfos":[
]
},
{
  "MemBeginTime":-1,
  "MemEndTime":-1,
  "PronAccuracy":98.504425,
  "PronFluency":0.9754762,
  "ReferenceWord":"","
  "Word":"盘",
  "MatchTag":0,
  "KeywordTag":0,
  "PhoneInfos":[
]
},
{
  "MemBeginTime":-1,
  "MemEndTime":-1,
  "PronAccuracy":99.01154,
  "PronFluency":0.98919916,
  "ReferenceWord":"","
  "Word":"中",
  "MatchTag":0,
  "KeywordTag":0,
  "PhoneInfos":[
]
},
{
  "MemBeginTime":-1,
  "MemEndTime":-1,
  "PronAccuracy":98.811584,
  "PronFluency":0.95275205,
  "ReferenceWord":"","
  "Word":"餐",
```



```
    "MatchTag":0,
    "KeywordTag":0,
    "PhoneInfos":[
  ]
},
{
  "MemBeginTime":-1,
  "MemEndTime":-1,
  "PronAccuracy":78.98405,
  "PronFluency":0.9677583,
  "ReferenceWord":"",
  "Word":"粒",
  "MatchTag":0,
  "KeywordTag":0,
  "PhoneInfos":[
  ]
},
{
  "MemBeginTime":-1,
  "MemEndTime":-1,
  "PronAccuracy":64.27859,
  "PronFluency":0.9543351,
  "ReferenceWord":"",
  "Word":"粒",
  "MatchTag":0,
  "KeywordTag":0,
  "PhoneInfos":[
  ]
},
{
  "MemBeginTime":-1,
  "MemEndTime":-1,
  "PronAccuracy":97.88482,
  "PronFluency":0.9864456,
  "ReferenceWord":"",
  "Word":"皆",
  "MatchTag":0,
  "KeywordTag":0,
  "PhoneInfos":[
```

```
    ]
  },
  {
    "MemBeginTime": -1,
    "MemEndTime": -1,
    "PronAccuracy": 98.8671,
    "PronFluency": 0.9853355,
    "ReferenceWord": "",
    "Word": "辛",
    "MatchTag": 0,
    "KeywordTag": 0,
    "PhoneInfos": [

    ]
  },
  {
    "MemBeginTime": -1,
    "MemEndTime": -1,
    "PronAccuracy": 98.99059,
    "PronFluency": 0.9326005,
    "ReferenceWord": "",
    "Word": "苦",
    "MatchTag": 0,
    "KeywordTag": 0,
    "PhoneInfos": [

    ]
  }
],
"SessionId": "4d7f07b9-72d7-49a2-9718-ba49f02312cf",
"Status": "Finished",
"RefTextId": -1,
"KeyWordHits": [

],
"UnKeyWordHits": [

]
}
}
```

实时评测

主要作用是获取实时中间结果，实时展示评测内容。

请求参数

主要请求参数说明

参数名称	类型	描述
RefText	String	被评估文本。
EvalMode	Integer	评估模式。3：自由说模式
ServerType	Integer	评估语言。1：中文
WorkMode	Integer	语音输入模式。0：流式分片
SentenceInfoEnabled	Integer	输出断句中间结果标识。1：输出

请求示例

```
{
  "RefText": "",
  "EvalMode": 3,
  "ServerType": 1,
  "WorkMode": 0,
  "SentenceInfoEnabled": 1,
  "UserVoiceData": "UklGRka1CQBxQVZFZm10IBAAAAABAAEAgD4E*",
  "SeqId": 1,
  "IsEnd": 1,
  "VoiceFileType": 3,
  "VoiceEncodeType": 1,
  "SessionId": "8b87042a-6970-11ed-8ab9-acde48001122",
  "ScoreCoeff": 1.0
}
```

返回结果

主要返回结果说明。

参数名称	类型	描述
SentenceInfoSet.Words.PronAccuracy	Integer	单词精准度

SentenceInfoSet.Word s.PronFluency	Integer	单词流利度
SentenceInfoSet.Word s.MatchTag	Integer	当前词的音频与文本的匹配情况

返回示例

```
{
  "PronAccuracy": 90.71561,
  "PronFluency": -1,
  "PronCompletion": -1,
  "Words": "",
  "SessionId": "8b87042a-6970-11ed-8ab9-acde48001122",
  "AudioUrl": "",
  "SentenceInfoSet": [
    {
      "SentenceId": 0,
      "Words": [
        {
          "MemBeginTime": -1,
          "MemEndTime": -1,
          "PronAccuracy": 93.033875,
          "PronFluency": 0.9337783,
          "Word": "\u4ed6",
          "MatchTag": 0,
          "PhoneInfos": [],
          "ReferenceWord": "",
          "KeywordTag": 0
        },
        {
          "MemBeginTime": -1,
          "MemEndTime": -1,
          "PronAccuracy": 91.07246,
          "PronFluency": 0.9787037,
          "Word": "\u72d7",
          "MatchTag": 0,
          "PhoneInfos": [],
          "ReferenceWord": "",
          "KeywordTag": 0
        }
      ]
    },
    {
      "MemBeginTime": -1,
```

```
"MemEndTime": -1,
"PronAccuracy": 86.87872,
"PronFluency": 0.99280936,
"Word": "\u5934",
"MatchTag": 0,
"PhoneInfos": [],
"ReferenceWord": "",
"KeywordTag": 0
},
{
  "MemBeginTime": -1,
  "MemEndTime": -1,
  "PronAccuracy": 91.345215,
  "PronFluency": 0.98330355,
  "Word": "\u62f",
  "MatchTag": 0,
  "PhoneInfos": [],
  "ReferenceWord": "",
  "KeywordTag": 0
},
{
  "MemBeginTime": -1,
  "MemEndTime": -1,
  "PronAccuracy": 95.46604,
  "PronFluency": 0.93004787,
  "Word": "\u4e2a",
  "MatchTag": 0,
  "PhoneInfos": [],
  "ReferenceWord": "",
  "KeywordTag": 0
},
{
  "MemBeginTime": -1,
  "MemEndTime": -1,
  "PronAccuracy": 94.319626,
  "PronFluency": 0.96716696,
  "Word": "\u767e",
  "MatchTag": 0,
  "PhoneInfos": [],
  "ReferenceWord": "",
  "KeywordTag": 0
},
{
```

```
    "MemBeginTime": -1,
    "MemEndTime": -1,
    "PronAccuracy": 82.831276,
    "PronFluency": 0.9502772,
    "Word": "\u516b",
    "MatchTag": 0,
    "PhoneInfos": [],
    "ReferenceWord": "",
    "KeywordTag": 0
  }
],
"PronAccuracy": 90.71561,
"PronFluency": -1,
"PronCompletion": -1,
"SuggestedScore": 0
}
],
"Status": "Evaluating",
"SuggestedScore": 90.71561,
"RequestId": "492a06fe-8eb9-4217-968b-fdc0fbd10499"
}
```

标点符号

使用命令块 `::cmd{F_PUNC=true}` 开启标点符号，可以在最终返回结果中输出标点符号。

请求参数

主要请求参数说明

参数名称	类型	描述
RefText	String	被评估文本。使用命令块 <code>::cmd{F_PUNC=true}</code> 开启标点符号
EvalMode	Integer	评估模式。3: 自由说模式
ServerType	Integer	评估语言。1: 中文

请求示例

```
{
  "RefText": "::cmd{F_PUNC=true}",
  "EvalMode": 3,
```

```
"ServerType": 1,
"WorkMode": 0,
"SentenceInfoEnabled": 1,
"UserVoiceData": "Uk1GRka1CQBxQVZFZm10IBAAAAABAAEAgD4E*",
"SeqId": 1,
"IsEnd": 0,
"VoiceFileType": 3,
"VoiceEncodeType": 1,
"SessionId": "eaf1e5b0-a827-11ed-b2b3-acde48001122",
"ScoreCoeff": 1.0
}
```

返回结果

主要返回结果说明。

参数名称	类型	描述
MatchTag	Integer	当前词与输入语句的匹配情况。5：标点符号
Words.Word	String	当前词。当MatchTag：5时，输出内容为标点符号

返回示例

```
{
  "PronAccuracy": 82.32912,
  "PronFluency": 0.91845036,
  "PronCompletion": -1,
  "Words": [
    {
      "MemBeginTime": -1,
      "MemEndTime": -1,
      "PronAccuracy": 91.52465,
      "PronFluency": 0.9414932,
      "Word": "来",
      "MatchTag": 0,
      "PhoneInfos": [
      ],
      "ReferenceWord": "",
      "KeywordTag": 0
    },
    {
      "MemBeginTime": -1,
```

```
    "MemEndTime":-1,
    "PronAccuracy":85.18915,
    "PronFluency":0.8321826,
    "Word":"肥",
    "MatchTag":0,
    "PhoneInfos":[
    ],
    "ReferenceWord":"","
    "KeywordTag":0
  },
  {
    "MemBeginTime":-1,
    "MemEndTime":-1,
    "PronAccuracy":-1,
    "PronFluency":-1,
    "Word":", ",
    "MatchTag":5,
    "PhoneInfos":[
    ],
    "ReferenceWord":"","
    "KeywordTag":0
  },
  {
    "MemBeginTime":-1,
    "MemEndTime":-1,
    "PronAccuracy":67.98336,
    "PronFluency":0.95118046,
    "Word":"哎",
    "MatchTag":0,
    "PhoneInfos":[
    ],
    "ReferenceWord":"","
    "KeywordTag":0
  },
  {
    "MemBeginTime":-1,
    "MemEndTime":-1,
    "PronAccuracy":84.6193,
    "PronFluency":0.94894505,
    "Word":"呀",
```



```
    "MatchTag":0,
    "PhoneInfos":[

],
    "ReferenceWord":"","
    "KeywordTag":0
},
{
    "MemBeginTime":-1,
    "MemEndTime":-1,
    "PronAccuracy":-1,
    "PronFluency":-1,
    "Word":"。",
    "MatchTag":5,
    "PhoneInfos":[

],
    "ReferenceWord":"","
    "KeywordTag":0
}
],
"SessionId":"eaf1e5b0-a827-11ed-b2b3-acde48001122",
"AudioUrl":"","
"SentenceInfoSet":"","
>Status":"Finished",
"SuggestedScore":82.32912,
"RefTextId":-1,
"KeyWordHits":[

],
"UnKeyWordHits":[

],
"RequestId":"b2e11d6d-93ed-4c44-858b-658e4dc25149"
}
```

情景评测模式

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评测模式描述

- 评测要求：支持不超过30个汉字，60秒音频时长。
- 评测维度：支持返回单词精准度，流利度，完整度，切题度。
- 评测功能：支持多组文本，主题词和关键词，关键词组，候选单词数组，负向关键词，指定发音。

请求参数

主要请求参数说明

参数名称	类型	描述
RefText	String	被评估文本。可以使用 划分成多个分支
EvalMode	Integer	评估模式。5：情景评测模式
ServerType	Integer	评估语言。1：中文

请求示例

```
{
  "RefText": "油画 | 山水画作",
  "EvalMode": 5,
  "ServerType": 1
  "WorkMode": 1,
  "UserVoiceData": "Uk1GRka1CQBXQVZFZm10IBAAAAABAAEAgD4E*",
  "SeqId": 1,
  "IsEnd": 1,
  "VoiceFileType": 3,
  "VoiceEncodeType": 1,
  "SessionId": "1ce25184-a82a-11ed-a4f9-acde48001122",
  "ScoreCoeff": 1.0
}
```

返回结果

主要返回结果如下：

参数名称	类型	描述
------	----	----

SuggestedScore	Integer	建议评分
PronAccuracy	Integer	整体精准度
PronFluency	Integer	整体流利度
PronCompletion	Integer	整体完整度
Words.PronAccuracy	Integer	单词精准度
Words.PronFluency	Integer	单词流利度
Words.MatchTag	Integer	当前词的音频与文本的匹配情况

返回示例

```
{
  "PronAccuracy":82.346985,
  "PronFluency":0.95923966,
  "PronCompletion":0.75,
  "Words":[
    {
      "MemBeginTime":770,
      "MemEndTime":1350,
      "PronAccuracy":83.37192,
      "PronFluency":0.93761367,
      "Word":"山",
      "MatchTag":0,
      "PhoneInfos":[

      ],
      "ReferenceWord":"","
      "KeywordTag":0
    },
    {
      "MemBeginTime":1350,
      "MemEndTime":1820,
      "PronAccuracy":84.39734,
      "PronFluency":0.97282463,
      "Word":"水",
      "MatchTag":0,
      "PhoneInfos":[

      ],

```

```
    "ReferenceWord": "",
    "KeywordTag": 0
  },
  {
    "MemBeginTime": 1820,
    "MemEndTime": 2250,
    "PronAccuracy": 79.2717,
    "PronFluency": 0.96728057,
    "Word": "画",
    "MatchTag": 0,
    "PhoneInfos": [

    ],
    "ReferenceWord": "",
    "KeywordTag": 0
  },
  {
    "MemBeginTime": -1,
    "MemEndTime": -1,
    "PronAccuracy": -1,
    "PronFluency": -1,
    "Word": "作",
    "MatchTag": 3,
    "PhoneInfos": [

    ],
    "ReferenceWord": "",
    "KeywordTag": 0
  }
],
"SessionId": "1ce25184-a82a-11ed-a4f9-acde48001122",
"AudioUrl": "",
"SentenceInfoSet": Array[1],
"Status": "Finished",
"SuggestedScore": 77.2002984375,
"RefTextId": 1,
"KeyWordHits": [

],
"UnKeyWordHits": [

],
"RequestId": "22a68331-1483-4d69-93a0-dcad59a0c088"
```

```
}
```

主题词和关键词

使用|划分多组文本，每组不超过120个单词。当预设多组文本，没有实时结果。

请求参数

主要请求参数说明

参数名称	类型	描述
RefText	String	被评估文本。可以使用 划分成多个分支
Keyword	String	主题词和关键词。使用 划分不同主题词，使用#划分不同主题词组
EvalMode	Integer	评估模式。5：情景评测模式
ServerType	Integer	评估语言。1：中文

请求示例

```
{
  "RefText": "油画 | 山水画作",
  "Keyword": "{::cmd{F_UKEY=true}} 油 | 山水画 # 绘画",
  "EvalMode": 5,
  "ServerType": 1,
  "WorkMode": 1,
  "UserVoiceData": "Uk1GRka1CQBxQVZFzm10IBAAAAABAAEAgD4E*",
  "SeqId": 1,
  "IsEnd": 1,
  "VoiceFileType": 3,
  "VoiceEncodeType": 1,
  "SessionId": "4f891e32-a82b-11ed-acdb-acde48001122",
  "ScoreCoeff": 1.0
}
```

返回结果

主要返回结果如下：

参数名称	类型	描述
------	----	----

PronAccuracy	Integer	精准度
PronCompletion	Integer	切题度
Words.KeywordTag	Integer	主题词命中标志
RefTextId	Integer	匹配候选文本的序号
KeyWordHits	Array of Float	主题词命中标志
UnKeyWordHits	Array of Float	负向主题词命中标志

返回示例

```
{
  "PronAccuracy":82.346985,
  "PronFluency":0.95923966,
  "PronCompletion":1,
  "Words":[
    {
      "MemBeginTime":-1,
      "MemEndTime":-1,
      "PronAccuracy":-1,
      "PronFluency":-1,
      "Word":"—",
      "MatchTag":2,
      "PhoneInfos":[
      ],
      "ReferenceWord":"",
      "KeywordTag":0
    },
    {
      "MemBeginTime":-1,
      "MemEndTime":-1,
      "PronAccuracy":-1,
      "PronFluency":-1,
      "Word":"幅",
      "MatchTag":2,
      "PhoneInfos":[
      ],
    }
  ],
}
```

```
"ReferenceWord": "",
"KeywordTag": 0
},
{
  "MemBeginTime": 770,
  "MemEndTime": 1350,
  "PronAccuracy": 83.37192,
  "PronFluency": 0.93761367,
  "Word": "山",
  "MatchTag": 0,
  "PhoneInfos": [

  ],
  "ReferenceWord": "",
  "KeywordTag": 1
},
{
  "MemBeginTime": 1350,
  "MemEndTime": 1820,
  "PronAccuracy": 84.39734,
  "PronFluency": 0.97282463,
  "Word": "水",
  "MatchTag": 0,
  "PhoneInfos": [

  ],
  "ReferenceWord": "",
  "KeywordTag": 1
},
{
  "MemBeginTime": 1820,
  "MemEndTime": 2250,
  "PronAccuracy": 79.2717,
  "PronFluency": 0.96728057,
  "Word": "画",
  "MatchTag": 0,
  "PhoneInfos": [

  ],
  "ReferenceWord": "",
  "KeywordTag": 1
},
{
```

```
    "MemBeginTime":-1,
    "MemEndTime":-1,
    "PronAccuracy":-1,
    "PronFluency":-1,
    "Word":"*",
    "MatchTag":1,
    "PhoneInfos":[
    ],
    "ReferenceWord":"*",
    "KeywordTag":0
  }
],
"SessionId":"4f891e32-a82b-11ed-acdb-acde48001122",
"AudioUrl":"",
"SentenceInfoSet":Array[1],
"Status":"Finished",
"SuggestedScore":82.346985,
"RefTextId":1,
"KeyWordHits":[
  1
],
"UnKeyWordHits":[]
],
"RequestId":"cc40207a-7b4a-4331-83ba-246a749c963b"
}
```

候选单词数组

除了使用 | 划分不同分支，也可以使用 `@@{::words{文本}, {文本}}` 来划分多个分支。二者可以同时使用。

请求参数

主要请求参数说明

参数名称	类型	描述
RefText	String	被评估文本。@@{::words{文本}, {文本}}表示候选单词词组
EvalMode	Integer	评估模式。5: 情景评测模式
ServerType	Integer	评估语言。1: 中文

请求示例


```
{
  "RefText": "@@{::words{一幅油画 }, {一幅山水画},{一起绘画}}",
  "EvalMode": 5
  "Keyword": "{::cmd{F_UKEY=true}} 油 | 山水画 # 绘画",
  "ServerType": 1,
  "WorkMode":1,
  "UserVoiceData":"Uk1GRka1CQBXQVZFZm10IBAAAAABAAEAgD4E*",
  "SeqId":1,
  "IsEnd":1,
  "VoiceFileType":3,
  "VoiceEncodeType":1,
  "SessionId":"13b13cd4-a842-11ed-9330-acde48001122",
  "ScoreCoeff":1.0
}
```

返回结果

主要返回结果

参数名称	类型	描述
PronAccuracy	Integer	准确度
PronCompletion	Integer	切题度
Words.KeywordTag	Integer	主题词命中标志
RefTextId	Integer	匹配候选文本的序号。候选单词词组在同一序号内
KeyWordHits	Array of Float	主题词命中标志
UnKeyWordHits	Array of Float	负向主题词命中标志

返回示例

```
{
  "PronAccuracy":82.346985,
  "PronFluency":0.95923966,
  "PronCompletion":1,
  "Words":[
    {
      "MemBeginTime":-1,
      "MemEndTime":-1,

```

```
"PronAccuracy":-1,
"PronFluency":-1,
"Word":"—",
"MatchTag":2,
"PhoneInfos":[
],
"ReferenceWord":"","
"KeywordTag":0
},
{
"PronAccuracy":-1,
"PronFluency":-1,
"Word":"幅",
"MatchTag":2,
"PhoneInfos":[
],
"ReferenceWord":"","
"KeywordTag":0
},
{
"MemBeginTime":770,
"MemEndTime":1350,
"PronAccuracy":83.37192,
"PronFluency":0.93761367,
"Word":"山",
"MatchTag":0,
"PhoneInfos":[
],
"ReferenceWord":"","
"KeywordTag":1
},
{
"MemBeginTime":1350,
"MemEndTime":1820,
"PronAccuracy":84.39734,
"PronFluency":0.97282463,
"Word":"水",
"MatchTag":0,
```

```
    "PhoneInfos": [
      ],
      "ReferenceWord": "",
      "KeywordTag": 1
    },
    {
      "MemBeginTime": 1820,
      "MemEndTime": 2250,
      "PronAccuracy": 79.2717,
      "PronFluency": 0.96728057,
      "Word": "画",
      "MatchTag": 0,
      "PhoneInfos": [
        ],
        "ReferenceWord": "",
        "KeywordTag": 1
      },
      {
        "MemBeginTime": -1,
        "MemEndTime": -1,
        "PronAccuracy": -1,
        "PronFluency": -1,
        "Word": "*",
        "MatchTag": 1,
        "PhoneInfos": [
          ],
          "ReferenceWord": "*",
          "KeywordTag": 0
        }
      }
    ],
    "SessionId": "13b13cd4-a842-11ed-9330-acde48001122",
    "AudioUrl": "",
    "SentenceInfoSet": Array[1],
    "Status": "Finished",
    "SuggestedScore": 82.346985,
    "RefTextId": 0,
    "KeyWordHits": [
      1
    ],
    "UnKeyWordHits": [
```

```
],  
  "RequestId": "c16fb1d2-1cb6-466c-b0d9-73fdc5d2102b"  
}
```

负向主题词

使用 `{::cmd{F_UKEY=true}}` 表示负向主题词，匹配到负向主题词评分为0。

请求参数

主要请求参数说明

参数名称	类型	描述
RefText	String	被评估文本
EvalMode	Integer	评估模式。5：情景评测模式
ServerType	Integer	评估语言。1：中文

请求示例

```
{  
  "RefText": "@@{::words{一幅油画 }, {一幅山水画},{一起绘画}}",  
  "EvalMode": 5  
  "Keyword": "{::cmd{F_UKEY=true}} 画 | 山水画 # 绘画",  
  "ServerType": 1,  
  "WorkMode": 1,  
  "UserVoiceData": "UklGRka1CQBXQVZFZm10IBAAAAABAAEAgD4E*",  
  "SeqId": 1,  
  "IsEnd": 1,  
  "VoiceFileType": 3,  
  "VoiceEncodeType": 1,  
  "SessionId": "3872d884-a842-11ed-983d-acde48001122",  
  "ScoreCoeff": 1.0  
}
```

返回结果

主要返回结果

参数名称	类型	描述
------	----	----

UnKeywordHits

Array of Float

负向主题词命中标志

返回示例

```
{
  "PronAccuracy":0,
  "PronFluency":-1,
  "PronCompletion":-1,
  "Words":[
  ],
  "SessionId":"3872d884-a842-11ed-983d-acde48001122",
  "AudioUrl":"",
  "SentenceInfoSet":Array[1],
  "Status":"Finished",
  "SuggestedScore":0,
  "RefTextId":-1,
  "KeywordHits":[
  ],
  "UnKeywordHits":[
    1
  ],
  "RequestId":"55473705-38f1-47cf-98fa-3f6a85da395d"
}
```

指定发音

使用 汉字`::pron{p1,p2..},{p3,p4..}..` 指定发音, 发音单元为 [拼音](#)。

请求参数

主要请求参数说明

参数名称	类型	描述
RefText	String	被评估文本
EvalMode	Integer	评估模式。5: 段落评测模式
ServerType	Integer	评估语言。1: 中文

请求示例

```
{
  "RefText": "清平乐{:pron{yue4}}",
  "EvalMode": 5,
  "ServerType": 1,
  "WorkMode": 1,
  "UserVoiceData": "UklGRka1CQBxQVZFZm10IBAAAAABAAEAgD4E*",
  "SeqId": 1,
  "IsEnd": 1,
  "VoiceFileType": 3,
  "VoiceEncodeType": 1,
  "SessionId": "144e-1669015382042-66392",
  "ScoreCoeff": 1.0
}
```

返回结果

主要返回结果说明

参数名称	类型	描述
SuggestedScore	Integer	建议评分
PronAccuracy	Integer	整体精准度
PronFluency	Integer	整体流利度
Words.PronAccuracy	Integer	单词精准度
Words.PronFluency	Integer	单词流利度

返回示例

```
{
  "PronAccuracy": 97.424416,
  "PronFluency": 0.98064667,
  "PronCompletion": 1,
  "Words": [
    {
      "MemBeginTime": 510,
      "MemEndTime": 890,
      "PronAccuracy": 96.52874,
      "PronFluency": 0.97874004,
      "Word": "清",
      "MatchTag": 0,
    }
  ]
}
```

```
"PhoneInfos": [],
"ReferenceWord": "",
"KeywordTag": 0,
"Tone": {
  "Valid": false,
  "RefTone": -1,
  "HypothesisTone": -1
}
},
{
  "MemBeginTime": 890,
  "MemEndTime": 1180,
  "PronAccuracy": 97.27776,
  "PronFluency": 0.98937464,
  "Word": "平",
  "MatchTag": 0,
  "PhoneInfos": [],
  "ReferenceWord": "",
  "KeywordTag": 0,
  "Tone": {
    "Valid": false,
    "RefTone": -1,
    "HypothesisTone": -1
  }
},
{
  "MemBeginTime": 1180,
  "MemEndTime": 1550,
  "PronAccuracy": 98.46676,
  "PronFluency": 0.9738254,
  "Word": "乐",
  "MatchTag": 0,
  "PhoneInfos": [],
  "ReferenceWord": "",
  "KeywordTag": 0,
  "Tone": {
    "Valid": false,
    "RefTone": -1,
    "HypothesisTone": -1
  }
}
],
"SessionId": "5ee85972-2c30-11ee-8d8a-acde48001122",
```

```
"AudioUrl": "",
"SentenceInfoSet": [],
"Status": "Finished",
"SuggestedScore": 97.424416,
"RefTextId": 0,
"KeywordHits": [],
"UnKeywordHits": [],
"RequestId": "fc6713c0-a942-4357-9ea9-3fdd365d4299"
}
```


句子多分支评测模式

最近更新时间：2024-06-26 17:38:52

评估模式描述

- 评测要求：支持多组评估文本，每组不超过30个字。音频数据最长60秒。
- 评测维度：支持返回单词精准度，流利度，完整度；支持返回音素精准度。
- 评测功能：多组文本，指定发音。

请求参数

主要请求参数说明：

参数名称	类型	描述
RefText	String	被评估文本。可以使用 划分成多个分支
EvalMode	Integer	评估模式。6：句子多分支评测模式
ServerType	Integer	评估语言。1：中文

请求示例

```
{
  "RefText": "我有一个苹果 | 我有一个香蕉 | 我有一个梨",
  "EvalMode": 6,
  "ServerType": 1,
  "WorkMode": 1,
  "UserVoiceData": "UklGRka1CQBXQVZFZm10IBAAAAABAAEAgD4E*",
  "SeqId": 1,
  "IsEnd": 1,
  "VoiceFileType": 3,
  "VoiceEncodeType": 1,
  "SessionId": "51af-1669016982596-45073",
  "ScoreCoeff": 1.0
}
```

返回结果

主要返回结果说明：

参数名称	类型	描述
------	----	----

SuggestedScore	Integer	建议评分
PronAccuracy	Integer	整体精准度
PronFluency	Integer	整体流利度
PronCompletion	Integer	整体完整度
Words.PronAccuracy	Integer	单词精准度
Words.PronFluency	Integer	单词流利度
Words.MatchTag	Integer	当前词的音频与文本的匹配情况
Words.PhoneInfos.PronAccuracy	Integer	音素精准度
Words.PhoneInfos.MatchTag	Integer	当前音素的音频与文本的匹配情况

请求示例

```
{
  "SuggestedScore":42.6676,
  "PronAccuracy":42.6676,
  "PronFluency":0.980686,
  "PronCompletion":1,
  "RequestId":"f4937c6c-71a2-4e75-8eb5-62563f547d64",
  "Words":[
    {
      "MemBeginTime":860,
      "MemEndTime":1070,
      "PronAccuracy":83.2239,
      "PronFluency":0.9928636,
      "ReferenceWord":"",
      "Word":"我",
      "MatchTag":0,
      "KeywordTag":0,
      "PhoneInfos":[
        {
          "MemBeginTime":860,
          "MemEndTime":970,
          "PronAccuracy":86.570595,
          "DetectedStress":false,
          "Phone":"w",
```

```
        "ReferencePhone": "",
        "ReferenceLetter": "",
        "Stress": false,
        "MatchTag": 0
    },
    {
        "MemBeginTime": 970,
        "MemEndTime": 1070,
        "PronAccuracy": 81.55055,
        "DetectedStress": false,
        "Phone": "o3",
        "ReferencePhone": "",
        "ReferenceLetter": "",
        "Stress": false,
        "MatchTag": 0
    }
]
},
{
    "MemBeginTime": 1070,
    "MemEndTime": 1390,
    "PronAccuracy": 62.71528,
    "PronFluency": 0.98442817,
    "ReferenceWord": "",
    "Word": "有",
    "MatchTag": 0,
    "KeywordTag": 0,
    "PhoneInfos": [
        {
            "MemBeginTime": 1070,
            "MemEndTime": 1190,
            "PronAccuracy": 84.27622,
            "DetectedStress": false,
            "Phone": "y",
            "ReferencePhone": "",
            "ReferenceLetter": "",
            "Stress": false,
            "MatchTag": 0
        },
        {
            "MemBeginTime": 1190,
            "MemEndTime": 1390,
            "PronAccuracy": 55.528294,
```

```
        "DetectedStress":false,
        "Phone":"iu3",
        "ReferencePhone":"","
        "ReferenceLetter":"","
        "Stress":false,
        "MatchTag":0
    }
]
},
{
    "MemBeginTime":1390,
    "MemEndTime":1490,
    "PronAccuracy":4.155956,
    "PronFluency":0.99708676,
    "ReferenceWord":"","
    "Word":"—",
    "MatchTag":0,
    "KeywordTag":0,
    "PhoneInfos":[
        {
            "MemBeginTime":1390,
            "MemEndTime":1460,
            "PronAccuracy":6.19658,
            "DetectedStress":false,
            "Phone":"y",
            "ReferencePhone":"","
            "ReferenceLetter":"","
            "Stress":false,
            "MatchTag":0
        },
        {
            "MemBeginTime":1460,
            "MemEndTime":1490,
            "PronAccuracy":2.115332,
            "DetectedStress":false,
            "Phone":"i2",
            "ReferencePhone":"","
            "ReferenceLetter":"","
            "Stress":false,
            "MatchTag":0
        }
    ]
},
```

```
{
  "MemBeginTime":1490,
  "MemEndTime":1850,
  "PronAccuracy":25.117281,
  "PronFluency":0.9349264,
  "ReferenceWord":"","
  "Word":"个",
  "MatchTag":0,
  "KeywordTag":0,
  "PhoneInfos":[
    {
      "MemBeginTime":1490,
      "MemEndTime":1730,
      "PronAccuracy":18.593586,
      "DetectedStress":false,
      "Phone":"g",
      "ReferencePhone":"","
      "ReferenceLetter":"","
      "Stress":false,
      "MatchTag":0
    },
    {
      "MemBeginTime":1730,
      "MemEndTime":1850,
      "PronAccuracy":31.640976,
      "DetectedStress":false,
      "Phone":"e4",
      "ReferencePhone":"","
      "ReferenceLetter":"","
      "Stress":false,
      "MatchTag":0
    }
  ]
},
{
  "MemBeginTime":1870,
  "MemEndTime":2210,
  "PronAccuracy":24.040184,
  "PronFluency":0.99394834,
  "ReferenceWord":"","
  "Word":"香",
  "MatchTag":0,
  "KeywordTag":0,
```

```
"PhoneInfos": [
  {
    "MemBeginTime":1870,
    "MemEndTime":1970,
    "PronAccuracy":5.018521,
    "DetectedStress":false,
    "Phone":"x",
    "ReferencePhone":"","
    "ReferenceLetter":"","
    "Stress":false,
    "MatchTag":0
  },
  {
    "MemBeginTime":1970,
    "MemEndTime":2040,
    "PronAccuracy":12.708166,
    "DetectedStress":false,
    "Phone":"i1",
    "ReferencePhone":"","
    "ReferenceLetter":"","
    "Stress":false,
    "MatchTag":0
  },
  {
    "MemBeginTime":2040,
    "MemEndTime":2210,
    "PronAccuracy":39.217026,
    "DetectedStress":false,
    "Phone":"ang",
    "ReferencePhone":"","
    "ReferenceLetter":"","
    "Stress":false,
    "MatchTag":0
  }
]
},
{
  "MemBeginTime":2210,
  "MemEndTime":2590,
  "PronAccuracy":38.861088,
  "PronFluency":0.9808626,
  "ReferenceWord":"","
  "Word":"蕉",
```

```
"MatchTag":0,
"KeywordTag":0,
"PhoneInfos":[
  {
    "MemBeginTime":2210,
    "MemEndTime":2290,
    "PronAccuracy":49.9117,
    "DetectedStress":false,
    "Phone":"j",
    "ReferencePhone":"","
    "ReferenceLetter":"","
    "Stress":false,
    "MatchTag":0
  },
  {
    "MemBeginTime":2290,
    "MemEndTime":2370,
    "PronAccuracy":26.06729,
    "DetectedStress":false,
    "Phone":"i1",
    "ReferencePhone":"","
    "ReferenceLetter":"","
    "Stress":false,
    "MatchTag":0
  },
  {
    "MemBeginTime":2370,
    "MemEndTime":2590,
    "PronAccuracy":39.732677,
    "DetectedStress":false,
    "Phone":"ao",
    "ReferencePhone":"","
    "ReferenceLetter":"","
    "Stress":false,
    "MatchTag":0
  }
]
},
"SessionId":"51af-1669016982596-45073",
"Status":"Finished",
"RefTextId":1,
}
```

指定发音

使用 汉字{::pron{p1,p2..},{p3,p4..}..} 指定发音，发音单元为 [拼音](#)。

请求参数

主要请求参数说明：

参数名称	类型	描述
RefText	String	被评估文本
EvalMode	Integer	评估模式。6：句子多分支评测模式
ServerType	Integer	评估语言。1：中文

请求示例

```
{
  "RefText": "清平乐{::pron{yue4}}",
  "EvalMode": 6,
  "ServerType": 1,
  "WorkMode": 1,
  "UserVoiceData": "UklGRka1CQBxQVZFZm10IBAAAAABAAEAgD4E*",
  "SeqId": 1,
  "IsEnd": 1,
  "VoiceFileType": 3,
  "VoiceEncodeType": 1,
  "SessionId": "144e-1669015382042-66392",
  "ScoreCoeff": 1.0
}
```

返回结果

主要返回结果说明：

参数名称	类型	描述
SuggestedScore	Integer	建议评分
PronAccuracy	Integer	整体精准度
PronFluency	Integer	整体流利度
Words.PronAccuracy	Integer	单词精准度

Words.PronFluency	Integer	单词流利度
Words.PhoneInfos.PronAccuracy	Integer	音素精准度

返回示例

```
{
  "PronAccuracy": 97.42444,
  "PronFluency": 0.882582,
  "PronCompletion": 1,
  "Words": [
    {
      "MemBeginTime": 560,
      "MemEndTime": 940,
      "PronAccuracy": 96.52874,
      "PronFluency": 0.97874004,
      "Word": "清",
      "MatchTag": 0,
      "PhoneInfos": [
        {
          "MemBeginTime": 560,
          "MemEndTime": 740,
          "PronAccuracy": 98.09525,
          "DetectedStress": false,
          "Phone": "q",
          "Stress": false,
          "ReferencePhone": "",
          "MatchTag": 0,
          "ReferenceLetter": ""
        },
        {
          "MemBeginTime": 740,
          "MemEndTime": 940,
          "PronAccuracy": 95.74548,
          "DetectedStress": false,
          "Phone": "ing1",
          "Stress": false,
          "ReferencePhone": "",
          "MatchTag": 0,
          "ReferenceLetter": ""
        }
      ]
    }
  ],
}
```

```
"ReferenceWord": "",
"KeywordTag": 0,
"Tone": {
  "Valid": false,
  "RefTone": -1,
  "HypothesisTone": -1
},
{
  "MemBeginTime": 940,
  "MemEndTime": 1230,
  "PronAccuracy": 97.27779,
  "PronFluency": 0.98937464,
  "Word": "平",
  "MatchTag": 0,
  "PhoneInfos": [
    {
      "MemBeginTime": 940,
      "MemEndTime": 1020,
      "PronAccuracy": 96.886894,
      "DetectedStress": false,
      "Phone": "p",
      "Stress": false,
      "ReferencePhone": "",
      "MatchTag": 0,
      "ReferenceLetter": ""
    },
    {
      "MemBeginTime": 1020,
      "MemEndTime": 1230,
      "PronAccuracy": 97.473236,
      "DetectedStress": false,
      "Phone": "ing2",
      "Stress": false,
      "ReferencePhone": "",
      "MatchTag": 0,
      "ReferenceLetter": ""
    }
  ],
  "ReferenceWord": "",
  "KeywordTag": 0,
  "Tone": {
    "Valid": false,
```

```
    "RefTone": -1,
    "HypothesisTone": -1
  }
},
{
  "MemBeginTime": 1230,
  "MemEndTime": 1600,
  "PronAccuracy": 98.46676,
  "PronFluency": 0.9738254,
  "Word": "乐",
  "MatchTag": 0,
  "PhoneInfos": [
    {
      "MemBeginTime": 1230,
      "MemEndTime": 1320,
      "PronAccuracy": 98.806854,
      "DetectedStress": false,
      "Phone": "y",
      "Stress": false,
      "ReferencePhone": "",
      "MatchTag": 0,
      "ReferenceLetter": ""
    },
    {
      "MemBeginTime": 1320,
      "MemEndTime": 1600,
      "PronAccuracy": 98.29672,
      "DetectedStress": false,
      "Phone": "ve4",
      "Stress": false,
      "ReferencePhone": "",
      "MatchTag": 0,
      "ReferenceLetter": ""
    }
  ],
  "ReferenceWord": "",
  "KeywordTag": 0,
  "Tone": {
    "Valid": false,
    "RefTone": -1,
    "HypothesisTone": -1
  }
},
```

```
{
  "MemBeginTime": 2240,
  "MemEndTime": 2610,
  "PronAccuracy": -1,
  "PronFluency": 0,
  "Word": "*",
  "MatchTag": 1,
  "PhoneInfos": [],
  "ReferenceWord": "*",
  "KeywordTag": 0,
  "Tone": {
    "Valid": false,
    "RefTone": -1,
    "HypothesisTone": -1
  }
},
"SessionId": "613a16d4-2c30-11ee-8d8a-acde48001122",
"AudioUrl": "",
"SentenceInfoSet": [],
>Status": "Finished",
"SuggestedScore": 97.42444,
"RefTextId": 0,
"KeyWordHits": [],
"UnKeyWordHits": [],
"RequestId": "b197e367-0264-4f63-8cb6-1cba8689c91c"
}
```

单词实时评测模式

最近更新时间：2024-06-26 17:38:52

评估模式描述

- 评测要求：支持多组汉字。音频时长最长60秒。
- 评测维度：支持返回单词精准度，单词流利度；支持返回音素精准度。
- 评测功能：支持实时评测，多组文本，指定发音。

主要作用是获取实时中间结果，实时展示评测内容。评测结果以最终结果为准。实现方式可参考[语音输入模式 -- 流式评测](#)。

请求参数

主要请求参数说明：

参数名称	类型	描述
RefText	String	被评估文本。支持多组汉字。使用 划分多组分支
EvalMode	Integer	评估模式。7：单词评测模式
ServerType	Integer	评估语言。1：中文

请求示例

```
{
  "RefText": "你 | 我 | 他",
  "EvalMode": 7,
  "ServerType": 1,
  "WorkMode": 0,
  "UserVoiceData": "Uk1GRka1CQBXQVZFZm10IBAAAAABAAEAgD4E*",
  "SeqId": 1,
  "IsEnd": 1,
  "VoiceFileType": 3,
  "VoiceEncodeType": 1,
  "SessionId": "63ad-1669017110023-02800",
  "ScoreCoeff": 1.0
}
```

返回结果

主要返回结果说明：

参数名称	类型	描述
SentenceInfoSet.Words.PronAccuracy	Integer	单词精准度
SentenceInfoSet.Words.PronFluency	Integer	单词流利度
SentenceInfoSet.Words.MatchTag	Integer	当前词的音频与文本的匹配情况
SentenceInfoSet.Words.PhoneInfos.PronAccuracy	Integer	音素精准度
SentenceInfoSet.Words.PhoneInfos.MatchTag	Integer	当前音素的音频与文本的匹配情况

返回示例

```
{
  "SuggestedScore":96.161064,
  "PronAccuracy":96.161064,
  "PronFluency":0.8415231,
  "PronCompletion":1,
  "RequestId":"8e6829e9-81dd-45cf-9347-a70c5a0be2dd",
  "Words":Array[4],
  "SessionId":"63ad-1669017110023-02800",
  "AudioUrl":"",
  "SentenceInfoSet":[
    {
      "SuggestedScore":0,
      "PronAccuracy":96.161064,
      "PronFluency":0.8415231,
      "PronCompletion":1,
      "Words":[
        {
          "MemBeginTime":530,
          "MemEndTime":1470,
          "PronAccuracy":96.32606,
          "PronFluency":0.80349606,
          "ReferenceWord":"",
          "Word":"你",
          "MatchTag":0,
          "KeywordTag":0,
          "PhoneInfos":[
            {
```

```
        "MemBeginTime":530,
        "MemEndTime":810,
        "PronAccuracy":96.85235,
        "DetectedStress":false,
        "Phone":"n",
        "ReferencePhone":"","
        "ReferenceLetter":"","
        "Stress":false,
        "MatchTag":0
    },
    {
        "MemBeginTime":810,
        "MemEndTime":1470,
        "PronAccuracy":95.79977,
        "DetectedStress":false,
        "Phone":"i3",
        "ReferencePhone":"","
        "ReferenceLetter":"","
        "Stress":false,
        "MatchTag":0
    }
]
},
{
    "MemBeginTime":2620,
    "MemEndTime":3790,
    "PronAccuracy":94.70361,
    "PronFluency":0.750587,
    "ReferenceWord":"","
    "Word":"你",
    "MatchTag":0,
    "KeywordTag":0,
    "PhoneInfos":[
        {
            "MemBeginTime":2620,
            "MemEndTime":2750,
            "PronAccuracy":95.61461,
            "DetectedStress":false,
            "Phone":"n",
            "ReferencePhone":"","
            "ReferenceLetter":"","
            "Stress":false,
            "MatchTag":0
```

```
    },  
    {  
      "MemBeginTime":2750,  
      "MemEndTime":3790,  
      "PronAccuracy":93.792625,  
      "DetectedStress":false,  
      "Phone":"i3",  
      "ReferencePhone":"","  
      "ReferenceLetter":"","  
      "Stress":false,  
      "MatchTag":0  
    }  
  ]  
},  
{  
  "MemBeginTime":3790,  
  "MemEndTime":4460,  
  "PronAccuracy":95.350296,  
  "PronFluency":0.9026487,  
  "ReferenceWord":"","  
  "Word":"他",  
  "MatchTag":0,  
  "KeywordTag":0,  
  "PhoneInfos":[  
    {  
      "MemBeginTime":3790,  
      "MemEndTime":3910,  
      "PronAccuracy":99.925354,  
      "DetectedStress":false,  
      "Phone":"t",  
      "ReferencePhone":"","  
      "ReferenceLetter":"","  
      "Stress":false,  
      "MatchTag":0  
    },  
    {  
      "MemBeginTime":3910,  
      "MemEndTime":4460,  
      "PronAccuracy":90.77524,  
      "DetectedStress":false,  
      "Phone":"a1",  
      "ReferencePhone":"","  
      "ReferenceLetter":"","
```



```
        "Stress":false,
        "MatchTag":0
    }
]
},
{
    "MemBeginTime":4460,
    "MemEndTime":5050,
    "PronAccuracy":98.26432,
    "PronFluency":0.90936065,
    "ReferenceWord":"","
    "Word":"我",
    "MatchTag":0,
    "KeywordTag":0,
    "PhoneInfos":[
        {
            "MemBeginTime":4460,
            "MemEndTime":4490,
            "PronAccuracy":99.98201,
            "DetectedStress":false,
            "Phone":"w",
            "ReferencePhone":"","
            "ReferenceLetter":"","
            "Stress":false,
            "MatchTag":0
        },
        {
            "MemBeginTime":4490,
            "MemEndTime":5050,
            "PronAccuracy":97.40547,
            "DetectedStress":false,
            "Phone":"o3",
            "ReferencePhone":"","
            "ReferenceLetter":"","
            "Stress":false,
            "MatchTag":0
        }
    ]
}
],
    "SentenceId":-1,
}
],
```

```
"Status": "Finished",
}
```

指定发音

使用 汉字`::pron{p1,p2..},{p3,p4..}..` 指定发音，发音单元为 **拼音**。

请求参数

主要请求参数说明

参数名称	类型	描述
RefText	String	被评估文本。使用 划分多组分支
EvalMode	Integer	评估模式。7：单词实时评测模式
ServerType	Integer	评估语言。1：中文
TextMode	TextMode	输入文本模式。0：普通文本；1：音素结构

请求示例

```
{
  "RefText": "你::pron{ni2} | 我 | 他",
  "TextMode": 0,
  "EvalMode": 7,
  "ServerType": 1,
  "WorkMode": 1,
  "UserVoiceData": "Uk1GRka1CQBxQVZFZm10IBAAAAABAAEAgD4E*",
  "SeqId": 1,
  "IsEnd": 1,
  "VoiceFileType": 3,
  "VoiceEncodeType": 1,
  "SessionId": "5716-1669017375212-07754",
  "ScoreCoeff": 1.0
}
```

返回结果

主要返回结果说明

参数名称	类型	描述
------	----	----

SentenceInfoSet.Words.PronAccuracy	Integer	单词精准度
SentenceInfoSet.Words.PronFluency	Integer	单词流利度
SentenceInfoSet.Words.MatchTag	Integer	当前词的音频与文本的匹配情况
SentenceInfoSet.Words.PhoneInfos.PronAccuracy	Integer	音素精准度
SentenceInfoSet.Words.PhoneInfos.MatchTag	Integer	当前音素的音频与文本的匹配情况

返回示例

```
{
  "SuggestedScore":81.3698,
  "PronAccuracy":81.3698,
  "PronFluency":0.9065726,
  "PronCompletion":1,
  "RequestId":"6c6f8492-2560-46ed-9354-54ae84da8f65",
  "Words":Array[3],
  "SessionId":"5716-1669017375212-07754",
  "AudioUrl":"",
  "SentenceInfoSet":[
    {
      "SuggestedScore":0,
      "PronAccuracy":81.3698,
      "PronFluency":0.9065726,
      "PronCompletion":1,
      "Words":[
        {
          "MemBeginTime":1460,
          "MemEndTime":2280,
          "PronAccuracy":96.89722,
          "PronFluency":0.88710386,
          "ReferenceWord":"",
          "Word":"我",
          "MatchTag":0,
          "KeywordTag":0,
          "PhoneInfos":[
            {
              "MemBeginTime":1460,
```

```
        "MemEndTime":1740,
        "PronAccuracy":96.20584,
        "DetectedStress":false,
        "Phone":"w",
        "ReferencePhone":"","
        "ReferenceLetter":"","
        "Stress":false,
        "MatchTag":0
    },
    {
        "MemBeginTime":1740,
        "MemEndTime":2280,
        "PronAccuracy":97.242905,
        "DetectedStress":false,
        "Phone":"o3",
        "ReferencePhone":"","
        "ReferenceLetter":"","
        "Stress":false,
        "MatchTag":0
    }
]
},
{
    "MemBeginTime":2280,
    "MemEndTime":2760,
    "PronAccuracy":51.351707,
    "PronFluency":0.91341424,
    "ReferenceWord":"","
    "Word":"你",
    "MatchTag":0,
    "KeywordTag":0,
    "PhoneInfos":[
        {
            "MemBeginTime":2280,
            "MemEndTime":2500,
            "PronAccuracy":99.77607,
            "DetectedStress":false,
            "Phone":"n",
            "ReferencePhone":"","
            "ReferenceLetter":"","
            "Stress":false,
            "MatchTag":0
        },
    ],
}
```

```
{
  "MemBeginTime":2500,
  "MemEndTime":2760,
  "PronAccuracy":2.927343,
  "DetectedStress":false,
  "Phone":"i2",
  "ReferencePhone":"","
  "ReferenceLetter":"","
  "Stress":false,
  "MatchTag":0
}
],
{
  "MemBeginTime":3060,
  "MemEndTime":3630,
  "PronAccuracy":95.860466,
  "PronFluency":0.9191997,
  "ReferenceWord":"","
  "Word":"他",
  "MatchTag":0,
  "KeywordTag":0,
  "PhoneInfos":[
    {
      "MemBeginTime":3060,
      "MemEndTime":3220,
      "PronAccuracy":94.5224,
      "DetectedStress":false,
      "Phone":"t",
      "ReferencePhone":"","
      "ReferenceLetter":"","
      "Stress":false,
      "MatchTag":0
    },
    {
      "MemBeginTime":3220,
      "MemEndTime":3630,
      "PronAccuracy":97.198524,
      "DetectedStress":false,
      "Phone":"a1",
      "ReferencePhone":"","
      "ReferenceLetter":"","
      "Stress":false,
```

```
        "MatchTag":0
      }
    ]
  },
  ],
  "SentenceId":-1,
}
],
"Status":"Finished",
}
```

拼音评测模式

最近更新时间：2024-06-26 17:38:52

评估模式描述

- 评测要求：支持30以内拼音。音频时长最长60秒。
- 评测维度：支持返回单词精准度，单词流利度；支持音素精准度。
- 评测功能：支持声调检测，指定发音。

请求参数

主要请求参数说明：

参数名称	类型	描述
RefText	String	被评估文本。使用 拼音 加上声调来表示。例如 shǎn，使用 shan3 来表示 shan（三声）
EvalMode	Integer	评估模式。8：拼音评测模式
ServerType	Integer	评估语言。1：中文

请求示例

```
{
  "RefText" : "shan3",
  "EvalMode" : 8,
  "ServerType" : 1,
  "WorkMode" : 1,
  "UserVoiceData" : "UklGRka1CQBxQVZFZm10IBAAAAABAAEAgD4E*",
  "SeqId" : 1,
  "IsEnd" : 1,
  "VoiceFileType" : 3,
  "VoiceEncodeType" : 1,
  "SessionId" : "ef5daec2-6592-11ed-9bf3-acde48001122",
  "ScoreCoeff" : 1.0
}
```

返回结果

主要返回结果说明

参数名称	类型	描述
SuggestedScore	Integer	建议评分
PronAccuracy	Integer	整体精准度
PronFluency	Integer	整体流利度
Words.PronAccuracy	Integer	单词精准度
Words.PronFluency	Integer	单词流利度
Words.MatchTag	Integer	当前词的音频与文本的匹配情况
Words.PhoneInfos.PronAccuracy	Integer	音素精准度
Words.PhoneInfos.MatchTag	Integer	当前音素的音频与文本的匹配情况

返回示例

```
{
  "PronAccuracy": 87.84355,
  "PronFluency": 0.92870396,
  "PronCompletion": 1,
  "Words": [
    {
      "MemBeginTime": 1080,
      "MemEndTime": 1640,
      "PronAccuracy": 87.84355,
      "PronFluency": 0.92870396,
      "Word": "shan3",
      "MatchTag": 0,
      "PhoneInfos": [
        {
          "MemBeginTime": 1080,
          "MemEndTime": 1320,
          "PronAccuracy": 92.96381,
          "DetectedStress": false,
          "Phone": "sh",
          "Stress": false,
          "ReferencePhone": "",
          "MatchTag": 0,
        }
      ]
    }
  ]
}
```



```
    "ReferenceLetter": ""
  },
  {
    "MemBeginTime": 1320,
    "MemEndTime": 1640,
    "PronAccuracy": 85.283424,
    "DetectedStress": false,
    "Phone": "an3",
    "Stress": false,
    "ReferencePhone": "",
    "MatchTag": 0,
    "ReferenceLetter": ""
  }
],
"ReferenceWord": "",
"KeywordTag": 0
}
],
"SessionId": "ef5daec2-6592-11ed-9bf3-acde48001122",
"Status": "Finished",
"SuggestedScore": 87.84355,
"RefTextId": -1,
"KeyWordHits": [],
"UnKeyWordHits": [],
"RequestId": "b45cfeed-f0ee-4441-bb51-c1d5c6900806"
}
```

声调评测

拼音评测支持声调检测，使用 `{::cmd{F_TDET=true}}` + 拼音 的方式进行评测。只支持4个拼音。

请求参数

主要请求参数说明

参数名称	类型	描述
RefText	String	被评估文本。使用拼音加上声调来表示。例如 shǎn，使用 shan3 来表示 shan（三声）
EvalMode	Integer	评估模式。8：拼音评测模式
ServerT	Integer	评估语言。1：中文

ype

er

请求示例

```
{
  "RefText" : "{::cmd{F_TDET=true}}shan3",
  "EvalMode" : 8,
  "ServerType" : 1,
  "WorkMode" : 1,
  "UserVoiceData" : "Uk1GRka1CQBXQVZFZm10IBAAAAABAAEAgD4E*",
  "SeqId" : 1,
  "IsEnd" : 1,
  "VoiceFileType" : 3,
  "VoiceEncodeType" : 1,
  "SessionId" : "f64bec10-6648-11ed-96be-acde48001122",
  "ScoreCoeff" : 1.0
}
```

返回结果

主要返回结果说明

参数名称	类型	描述
SuggestedScore	Integer	建议评分
PronAccuracy	Integer	整体精准度
PronFluency	Integer	整体流利度
Words.PronAccuracy	Integer	单词精准度
Words.PronFluency	Integer	单词流利度
Words.PhoneInfos.PronAccuracy	Integer	音素精准度
Words.PhoneInfos.Phone	String	当前音频数据对应音素
Words.PhoneInfos.ReferencePhone	String	当前评估文本对应音素

返回示例

```
{
```

```
"PronAccuracy": 1.3471797,
"PronFluency": 0.9735329,
"PronCompletion": 1,
"Words": [
  {
    "MemBeginTime": 2660,
    "MemEndTime": 2950,
    "PronAccuracy": 1.3471797,
    "PronFluency": 0.9735329,
    "Word": "shan3",
    "MatchTag": 0,
    "PhoneInfos": [
      {
        "MemBeginTime": 2660,
        "MemEndTime": 2890,
        "PronAccuracy": 3.3700094,
        "DetectedStress": false,
        "Phone": "sh",
        "Stress": false,
        "ReferencePhone": "sh",
        "MatchTag": 0,
        "ReferenceLetter": ""
      },
      {
        "MemBeginTime": 2890,
        "MemEndTime": 2950,
        "PronAccuracy": 0.33576494,
        "DetectedStress": false,
        "Phone": "an3",
        "Stress": false,
        "ReferencePhone": "an3",
        "MatchTag": 0,
        "ReferenceLetter": ""
      }
    ]
  },
  {
    "ReferenceWord": "shan3",
    "KeywordTag": 0
  }
],
"SessionId": "f64bec10-6648-11ed-96be-acde48001122",
"Status": "Finished",
"SuggestedScore": 1.3471797,
"RefTextId": -1,
```

```
"KeyWordHits": [],
"UnKeyWordHits": [],
"RequestId": "59944dce-9730-4b23-80ad-4ce38e329d06"
}
```

指定发音

需要在声调检测下，使用 `:::cmd{F_TDET=true}` 汉字 `:::pron{p1,p2..},{p3,p4..}..` 指定发音，发音单元为拼音。

请求参数

主要请求参数说明

参数名称	类型	描述
RefText	String	被评估文本。使用 划分多组分支
EvalMode	Integer	评估模式。8：拼音评测模式
ServerType	Integer	评估语言。1：中文

请求示例

```
{
  "RefText": ":::cmd{F_TDET=true}清平乐:::pron{yue4}",
  "EvalMode": 8,
  "ServerType": 1,
  "WorkMode": 1,
  "UserVoiceData": "Uk1GRka1CQBXQVZFZm10IBAAAAABAAEAgD4E*",
  "SeqId": 1,
  "IsEnd": 1,
  "VoiceFileType": 3,
  "VoiceEncodeType": 1,
  "SessionId": "5716-1669017375212-07754",
  "ScoreCoeff": 1.0
}
```

返回结果

主要返回结果说明

参数名称	类型	描述
------	----	----

SentenceInfoSet.Words.PronAccuracy	Integer	单词精准度
SentenceInfoSet.Words.PronFluency	Integer	单词流利度
SentenceInfoSet.Words.MatchTag	Integer	当前词的音频与文本的匹配情况
SentenceInfoSet.Words.PhoneInfos.PronAccuracy	Integer	音素精准度
SentenceInfoSet.Words.PhoneInfos.MatchTag	Integer	当前音素的音频与文本的匹配情况

返回示例

```
{
  "PronAccuracy": 98.06444,
  "PronFluency": 0.8825564,
  "PronCompletion": 1,
  "Words": [
    {
      "MemBeginTime": 560,
      "MemEndTime": 940,
      "PronAccuracy": 97.388115,
      "PronFluency": 0.97874004,
      "Word": "清",
      "MatchTag": 0,
      "PhoneInfos": [
        {
          "MemBeginTime": 560,
          "MemEndTime": 740,
          "PronAccuracy": 98.56767,
          "DetectedStress": false,
          "Phone": "q",
          "Stress": false,
          "ReferencePhone": "q",
          "MatchTag": 0,
          "ReferenceLetter": ""
        },
        {
          "MemBeginTime": 740,
          "MemEndTime": 940,
```

```
    "PronAccuracy": 96.79834,
    "DetectedStress": false,
    "Phone": "ing1",
    "Stress": false,
    "ReferencePhone": "ing1",
    "MatchTag": 0,
    "ReferenceLetter": ""
  }
],
"ReferenceWord": "qing1",
"KeywordTag": 0,
"Tone": {
  "Valid": false,
  "RefTone": -1,
  "HypothesisTone": -1
}
},
{
  "MemBeginTime": 940,
  "MemEndTime": 1240,
  "PronAccuracy": 97.94722,
  "PronFluency": 0.987698,
  "Word": "平",
  "MatchTag": 0,
  "PhoneInfos": [
    {
      "MemBeginTime": 940,
      "MemEndTime": 1020,
      "PronAccuracy": 97.658516,
      "DetectedStress": false,
      "Phone": "p",
      "Stress": false,
      "ReferencePhone": "p",
      "MatchTag": 0,
      "ReferenceLetter": ""
    },
    {
      "MemBeginTime": 1020,
      "MemEndTime": 1240,
      "PronAccuracy": 98.09157,
      "DetectedStress": false,
      "Phone": "ing2",
      "Stress": false,
```

```
    "ReferencePhone": "ing2",
    "MatchTag": 0,
    "ReferenceLetter": ""
  }
],
"ReferenceWord": "ping2",
"KeywordTag": 0,
"Tone": {
  "Valid": false,
  "RefTone": -1,
  "HypothesisTone": -1
}
},
{
  "MemBeginTime": 1240,
  "MemEndTime": 1600,
  "PronAccuracy": 98.857956,
  "PronFluency": 0.9754167,
  "Word": "乐",
  "MatchTag": 0,
  "PhoneInfos": [
    {
      "MemBeginTime": 1240,
      "MemEndTime": 1320,
      "PronAccuracy": 99.13563,
      "DetectedStress": false,
      "Phone": "y",
      "Stress": false,
      "ReferencePhone": "y",
      "MatchTag": 0,
      "ReferenceLetter": ""
    },
    {
      "MemBeginTime": 1320,
      "MemEndTime": 1600,
      "PronAccuracy": 98.719124,
      "DetectedStress": false,
      "Phone": "ve4",
      "Stress": false,
      "ReferencePhone": "ve4",
      "MatchTag": 0,
      "ReferenceLetter": ""
    }
  ]
}
```

```
],
  "ReferenceWord": "yue4",
  "KeywordTag": 0,
  "Tone": {
    "Valid": false,
    "RefTone": -1,
    "HypothesisTone": -1
  }
},
{
  "MemBeginTime": 2240,
  "MemEndTime": 2610,
  "PronAccuracy": -1,
  "PronFluency": 0,
  "Word": "*",
  "MatchTag": 1,
  "PhoneInfos": [],
  "ReferenceWord": "*",
  "KeywordTag": 0,
  "Tone": {
    "Valid": false,
    "RefTone": -1,
    "HypothesisTone": -1
  }
}
],
"SessionId": "f274597a-2c44-11ee-8eef-acde48001122",
"AudioUrl": "",
"SentenceInfoSet": [],
>Status": "Finished",
"SuggestedScore": 98.06444,
"RefTextId": -1,
"KeyWordHits": [],
"UnKeyWordHits": [],
"RequestId": "920b0dc3-ff5d-4acc-b1a9-f64b6ed64355"
}
```


客户端与服务端

getAuthorization 接口说明

最近更新时间：2024-07-01 14:32:31

接口描述

用于客户端 SDK（[Web SDK](#)和 [微信 H5](#)）获取临时授权凭证

⚠ 注意

- 建议用户使用子账号密钥 + 环境变量的方式调用 SDK，提高 SDK 使用的安全性。为子账号授权时，请遵循 [最小权限指引原则](#)，防止泄露其他资源。
- 本文将介绍 [临时密钥（临时访问凭证）](#) 的使用方式，如果您一定要使用永久密钥，建议遵循 [最小权限指引原则](#) 对永久密钥的权限范围进行限制。
- 本文示例遵循 [最小权限指引原则](#)，仅提供 soe:SpeakingAssessmentStream 接口权限。

请求方式

GET

请求地址

https://127.0.0.1:5050/getAuthorization（以实际提供接口地址为准）

请求参数

在 Web SDK 填写 getAuthorization 中的 url 和其他评测参数，参考 [参数说明](#)。

```
let recorder = new TencentSOE({
  getAuthorization(callback) {
    let url = 'http://127.0.0.1:5050/getAuthorization'; // 服务端获取临时密
    钥地址
    axios.get(url).then(response => {
      console.log(response.data)
      callback({
        Token: response.data.Credentials.Token,
        TmpSecretId: response.data.Credentials.TmpSecretId,
        TmpSecretKey: response.data.Credentials.TmpSecretKey,
        ExpiredTime: response.data.ExpiredTime
      });
    }).catch(err =>{
      console.log(err)
    })
  }
});
```

```
    })
  },
  WorkMode: 0,
  EvalMode: 1,
  success() {
    recorder.start({
      RefText: "I would like to eat an orange",
    });
  },
  error(err) {
    console.log(err);
  }
});
```

响应参数

主要响应参数说明

属性名	类型	必填	参数描述
Token	String	是	获取回来的临时密钥的 Token
TmpSecretId	String	是	获取回来的临时密钥的 TmpSecretId，用于前端计算签名
TmpSecretKey	String	是	获取回来的临时密钥的 TmpSecretKey，用于前端计算签名
ExpiredTime	String	是	获取回来的临时密钥的 ExpiredTime，过期时间

响应示例

```
{
  "Credentials": {
    "Token": "kTRt***Jb7m",
    "TmpSecretId": "AKID***CjE6",
    "TmpSecretKey": "Eo28***7ps="
  },
  "Expiration": "2023-06-14T05:06:57Z",
  "ExpiredTime": 1686719217,
```

```
"RequestId": "59a5e07e-4147-4d2e-a808-dca76ac5b3fd"
}
```

请求示例

请求流程

参考 [STS 控制台](#) 或者文档示例获取临时授权凭证，提供 Web 服务，将项目部署上线即可。

服务端 SDK	临时访问凭证示例
Python SDK	临时授权凭证
Java SDK	临时授权凭证
PHP SDK	临时授权凭证
Go SDK	临时授权凭证
Node.js SDK	临时授权凭证
.NET SDK	临时授权凭证

Python 示例

使用 flask 框架，需要使用 pip 安装以下依赖。

```
pip install tencentcloud-sdk-python flask flask_cors gevent
```

示例代码：

```
import json
from flask import Flask, request, render_template
from flask_cors import CORS
from gevent import import pywsgi

from tencentcloud.common import credential
from tencentcloud.common.profile.client_profile import ClientProfile
from tencentcloud.common.profile.http_profile import HttpProfile
from tencentcloud.common.exception.tencent_cloud_sdk_exception import TencentCloudSDKException

app = Flask(__name__)
```

```
CORS (app) # 允许跨域

@app.route("/getAuthorization", methods=["GET"]) #通过该地址请求接口, 只能使用get方法
def getAuthorization():
    try:
        # 实例化一个认证对象, 入参需要传入腾讯云账户secretId, secretKey
        cred = credential.Credential("", "")

        # 实例化一个http选项, 可选的, 没有特殊需求可以跳过。
        httpProfile = HttpProfile()
        httpProfile.reqMethod = "POST" # post请求(默认为post请求)
        httpProfile.reqTimeout = 30 # 请求超时时间, 单位为秒(默认60秒)
        httpProfile.endpoint = "sts.tencentcloudapi.com" # 指定接入地域域名(默认就近接入)

        # 实例化一个client选项, 可选的, 没有特殊需求可以跳过。
        clientProfile = ClientProfile()
        clientProfile.signMethod = "TC3-HMAC-SHA256" # 指定签名算法(默认为HmacSHA256)
        clientProfile.unsignedPayload = True
        clientProfile.httpProfile = httpProfile

        from tencentcloud.sts.v20180813 import sts_client, models
        client = sts_client.StsClient(cred, "ap-guangzhou", clientProfile)

        req = models.GetFederationTokenRequest()
        req.Name = "soe"
        req.Policy = "{\"version\": \"2.0\", \"statement\": {\"effect\": \"allow\", \"action\": [\"soe:TransmitOralProcessWithInit\"], \"resource\": \"*\"}}"
        # req.DurationSeconds = 10
        # 请求服务, 获取结果
        resp = client.GetFederationToken(req)
        json_resp = resp.to_json_string()
        json_loads = json.loads(json_resp)
        # json_dumps = json.dumps(json_loads)

        return json_loads # 回调

    except TencentCloudSDKException as err:
        return err
```

```
if __name__ == '__main__':
    server = pywsgi.WSGIServer(('0.0.0.0', 5050), app)
    server.serve_forever()
```

Node.js 示例

使用 express 框架，需要 npm 安装如下依赖。

```
npm install express cors tencentcloud-sdk-nodejs
```

示例代码：

```
let express = require('express')
let server = express();
const cors = require('cors');
server.use(cors());

server.get('/getAuthorization', async (req, resp) => {
    const StsClient = tencentcloud.sts.v20180813.Client;
    const clientConfig = {
        credential: {
            secretId: "",
            secretKey: "",
        },
        region: "ap-beijing",
    };
    const client = new StsClient(clientConfig);
    const params = {
        "Name": "soe",
        "Policy": "{\"version\": \"2.0\", \"statement\": {\"effect\": \"allow\", \"action\": [\"soe:TransmitOralProcessWithInit\"], \"resource\": \"*\"}}"
    };
    client.GetFederationToken(params).then(
        (data) => {
            resp.json(data)
        },
        (err) => {
            resp.json(err)
        }
    );
});
```

```
    }  
  );  
})  
  
server.listen(5050, () => {  
  console.log('服务器已就绪')  
})  
  
module.exports = server;
```

TransInitUrl 接口说明

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接口描述

用于客户端SDK（[Web SDK](#) 和 [微信 H5](#)）在服务端调用评测服务。客户端 SDK 会获取评测参数调用该接口给服务端进行评测。

请求方式

POST

请求地址

https://127.0.0.1:8080/TransInitUrl（以实际提供接口地址为准）

请求头

属性名	类型	参数描述
Content-Type	String	application/json

请求参数

在 Web SDK 填写 TransInitUrl 和其他评测参数，参考 [参数说明](#)。

```
let recorder = new TencentSOE({
  TransInitUrl: 'https://127.0.0.1:8080/TransInitUrl', //服务端获取评测结果地址
  WorkMode: 0,
  EvalMode: 1,
  success() {
    recorder.start({
      RefText: "I would like to eat an orange",
    });
  },
  error(err) {
    console.log(err);
  }
});
```

请求示例

请求流程

参考 [SOE 控制台](#)，提供 Web 服务，将项目部署上线即可。

服务端 SDK	口语评测请求示例
Python SDK	口语评测请求
Java SDK	口语评测请求
PHP SDK	口语评测请求
Go SDK	口语评测请求
Node.js SDK	口语评测请求
.NET SDK	口语评测请求

Python 示例

使用 flask 框架，需要使用 pip 安装以下依赖。

```
tencentcloud-sdk-python
flask
flask_cors
gevent
```

示例代码：

```
import json
from flask import Flask, request, render_template
from flask_cors import CORS
from gevent import pywsgi

from tencentcloud.common import credential
from tencentcloud.common.profile.client_profile import ClientProfile
from tencentcloud.common.profile.http_profile import HttpProfile
from tencentcloud.common.exception.tencent_cloud_sdk_exception import TencentCloudSDKException

app = Flask(__name__)

CORS(app) # 允许跨域
```



```
@app.route("/TransInitUrl", methods=["POST"]) # 通过该地址请求接口, 推荐使用
post方法
def TransInitUrl():
    try:
        # 实例化一个认证对象, 入参需要传入腾讯云账户secretId, secretKey
        cred = credential.Credential("", "")
        # 实例化一个http选项, 可选的, 没有特殊需求可以跳过。
        httpProfile = HttpProfile()
        httpProfile.reqMethod = "POST" # post请求(默认为post请求)
        httpProfile.reqTimeout = 30 # 请求超时时间, 单位为秒(默认60秒)
        httpProfile.endpoint = "soe.tencentcloudapi.com" # 指定接入地域域名(默认就近接入)
        # 实例化一个client选项, 可选的, 没有特殊需求可以跳过。
        clientProfile = ClientProfile()
        clientProfile.signMethod = "TC3-HMAC-SHA256" # 指定签名算法(默认为HmacSHA256)
        clientProfile.unsignedPayload = True
        clientProfile.httpProfile = httpProfile

        from tencentcloud.soe.v20180724 import soe_client, models
        client = soe_client.SoeClient(cred, "", clientProfile)

        req = models.TransmitOralProcessWithInitRequest()
        req.from_json_string(json.dumps(request.json))
        # 请求服务, 获取结果
        resp = client.TransmitOralProcessWithInit(req)
        json_resp = resp.to_json_string()
        # SDK 封装了返回结果。此处需要加上Response
        return json.dumps({"Response": json.loads(json_resp)}) # 回调

    except TencentCloudSDKException as err:
        return err

if __name__ == '__main__':
    server = pywsgi.WSGIServer(('0.0.0.0', 8080), app)
    server.serve_forever()
```

Node.js 示例

使用 express 框架，需要 npm 安装如下依赖。

```
npm install express cors tencentcloud-sdk-nodejs body-parser
```

示例代码

```
let express = require('express')
let server = express();
const cors = require('cors');
server.use(cors());
const bodyParser = require('body-parser');
server.use(bodyParser());

server.post('/TransInitUrl', (req, resp) => {
  const SoeClient = tencentcloud.soe.v20180724.Client;
  const clientConfig = {
    credential: {
      secretId: "",
      secretKey: "",
    },
    region: "ap-beijing",
  };
  const client = new SoeClient(clientConfig);
  client.TransmitOralProcessWithInit(req.body).then(
    (data) => {
      resp.json({"Response":data})
    },
    (err) => {
      resp.json(err)
    }
  );
})

server.listen(8080, () => {
  console.log('服务器已就绪')
})

module.exports = server;
```

微信开发相关

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准备工作

1. 阅读 [微信开放文档 JS-SDK 使用权限签名算法](#)，根据文档提供接口，返回 jsapi_ticket。
2. 阅读 [高清语音素材获取接口](#) 文档，根据文档提供接口，返回音频数据。
3. 登录公众号后台，在 [开发 > 开发管理 > 开发设置 > 开发者 ID](#) 中获取公众号 appid 及 appsecret。

⚠ 注意：

接口需保证下载表现和直接在浏览器调用微信侧接口 https://api.weixin.qq.com/cgi-bin/media/get/jssdk?access_token=ACCESS_TOKEN&media_id=MEDIA_ID 一致，即在浏览器调用接口后下载二进制文件，文件内容需与直接调用微信接口内容一致，否则 SDK 内部无法正常下载及解析音频内容。

获取 access_token

参考 [获取 access_token](#)，获取到 access_token。access_token 用于获取 jsapi_ticket 和 mediaUrl。

```
let request = require('request-promise')

async function get_token() {
  return new Promise((resolve) => {
    const appid = ''
    const secret = ''
    request.get(`https://api.weixin.qq.com/cgi-bin/token?grant_type=client_credential&appid=${appid}&secret=${secret}`, (err, res, body) => {
      resolve(JSON.parse(body).access_token);
    });
  });
}
```

⚠ 注意：

access_token 日调用上限为2000次，需业务侧做好缓存和更新逻辑。

```
let request = require('request-promise')
```

```
// 用redis来做缓存
let redis = require('redis')
let redisClient = redis.createClient();
redisClient.on('error', err => {
  console.log(err)
})
redisClient.connect() // 连接

async function token_cache() {
  return new Promise(async (resolve) => {
    let token = await redisClient.get("access_token")
    if (token == null) {
      let access_token = await get_token()
      await redisClient.set("access_token", access_token);
      await redisClient.expire("access_token", 7000)
      resolve(access_token)
    } else {
      resolve(token)
    }
  })
}
```

jsapi_ticket 接口

参考 [JS-SDK 使用权限签名算法](#)，获取 jsapi_ticket，将数据存到缓存中，以便下次使用。

```
let request = require('request-promise')
let express = require('express')
let server = express();
const cors = require('cors'); // 跨域
server.use(cors());

let redis = require('redis')
let redisClient = redis.createClient();
redisClient.on('error', err => {
  console.log(err)
})
redisClient.connect() // 连接

server.get('/getTicket', async (req, resp) => {
  let jsapi_ticket = await redisClient.get("jsapi_ticket")
  if (jsapi_ticket == null){
    const token = await token_cache()
  }
})
```

```
const ticket_url = `https://api.weixin.qq.com/cgi-bin/ticket/getticket?access_token=${token}&type=jsapi`
request.get(ticket_url, async (err, res, body) => {
  await redisClient.set("jsapi_ticket",
JSON.parse(body).ticket);
  await redisClient.expire("jsapi_ticket", 7000)
  resp.send(JSON.parse(body).ticket)
});
}
else{
  resp.send(jsapi_ticket)
}
})

server.listen(5050, () => {
  console.log('服务器已就绪')
})

module.exports = server;
```

mediaUrl 接口

参考 [获取高清语音素材](#)，获取音频数据。

```
let request = require('request-promise')
let express = require('express')
let server = express();
const cors = require('cors');
server.use(cors());

server.get('/getMedia', async (req, resp) => {
  const token = await token_cache()
  let id = req.query.mediaId;
  const mediaUrl = `https://api.weixin.qq.com/cgi-bin/media/get/jssdk?
access_token=${token}&media_id=${id}`;
  request.get(mediaUrl).pipe(resp);
})

server.listen(5050, () => {
  console.log('服务器已就绪')
})
```

```
module.exports = server;
```

Node.js 完整示例

使用 express 框架，需要 npm 安装如下依赖。

```
npm install request-promise express cors redis
```

示例代码

```
let request = require('request-promise')
let express = require('express')
let server = express();
const cors = require('cors');
server.use(cors());

let redis = require('redis')
let redisClient = redis.createClient();
redisClient.on('error', err => {
  console.log(err)
})
redisClient.connect() // 连接

async function get_token() {
  return new Promise((resolve) => {
    const appid = ''
    const secret = ''
    request.get(`https://api.weixin.qq.com/cgi-bin/token?
grant_type=client_credential&appid=${appid}&secret=${secret}`, (err,
res, body) => {
      resolve(JSON.parse(body).access_token);
    });
  })
}

async function token_cache() {
  return new Promise(async (resolve) => {
    let token = await redisClient.get("access_token")
    if (token == null) {
      let access_token = await get_token()
      await redisClient.set("access_token", access_token);
      await redisClient.expire("access_token", 7000)
    }
  })
}
```

```
        resolve(access_token)
      } else {
        resolve(token)
      }
    })
  }
}

server.get('/getTicket', async (req, resp) => {
  let jsapi_ticket = await redisClient.get("jsapi_ticket")
  if (jsapi_ticket ==null){
    const token = await token_cache()
    const ticket_url = `https://api.weixin.qq.com/cgi-bin/ticket/getticket?access_token=${token}&type=jsapi`
    request.get(ticket_url, async (err, res, body) => {
      await redisClient.set("jsapi_ticket",
JSON.parse(body).ticket);
      await redisClient.expire("jsapi_ticket", 7000)
      resp.send(JSON.parse(body).ticket)
    });
  }
  else{
    resp.send(jsapi_ticket)
  }
})

server.get('/getMedia', async (req, resp) => {
  const token = await token_cache()
  let id = req.query.mediaId;
  const mediaUrl = `https://api.weixin.qq.com/cgi-bin/media/get/jssdk?access_token=${token}&media_id=${id}`;
  request.get(mediaUrl).pipe(resp);
})

server.listen(5050, () => {
  console.log('服务器已就绪')
})

module.exports = server;
```