# SampleApp Functional Specifications

# Table of Contentsw" 5,

## ! " #\$

Date	What/Why	Ву
2022/7/19	%&' (	CloudSDK team
2022/10/25	DevPKG&) *	CloudSDK team
2022/xx/xx	TBD	TBD

```
+ , - .
```

- ! [ \ ? @SDKPB] ^
  - " SDKPB-306
  - " SDKPB-591

# 4L\_`L

Terms/Abbreviations	Meaning
CloudSDK	Consolea 2NZ b c 569 = >? @SDK
Console	defghZijk9I-mnPoRSTU9pq r. st?@m-2uvDEwxOyz{U D E1P WR}U~DE1x•zc€•f{U D E, $f$ , $g$ =>?@ZijkR†c
‡ ^ ‰Š	Vision and Sensing Applicationg h 2 < Œ 2 • Ž 1 AI • • ' ' m{ " x R"
n •	Vision and Sensing Applicationg h 2 < Œ2 • Ž 1 − { i — h™CB@z { Rf x R "

## Š>œ•

- ¥ SampleAppH34? @TypeScript&CloudSDK
  - ! https://github.com/SonySemiconductorSolutions/aitrios-sdk-typescript-dev

# žŸ RcQRc

- - !  $RCR+nRc RK 90^{\circ} ? @S^ H1 CloudSDK 2345690^{\circ} H_{i} @J$

# DE - - 1 N® - P° X

## Functional Overview

## Algorithm

1. "  $^2$  9¥ | ? @J a. getDeviceData—ÁÂ< ' ' @J

```
b. ÃÄ' ' mx R" 9DeviceID¶ Â. 1°?@J
2. DeviceID9t Œ 1 START, " U9» ¼?@J
a. getCommand Parameter File—ÁÂ< ' ' 1ƟǗȼ2ÉÊHI @§~9ËÎ e Z?@ wError2ÍÎ +{ e b Rf 1°?@, J " Mode=1(Image&Inference Result)</li>
" UploadMethodIR="Mqtt"
b. startUpload—ÁÂ< ' ' 1‡^%Š~" • 2Ne Oy Rk —: Ĭ'' @J</li>
c. getImageAndInference—ŸĐÁÂ< "'' 1‡^%Š~" • 9½¾?@J</li>
d. ½¾" mx R" +"². 1°'' @J
3. STOP, " U9» ¼?@J
a. stopUpload—ÁÂ< ''' @J</li>
```

## Under what condition

```
\{ Consolea 2NZbc-Hi @\{\gamma^\T} J
\{ TypeScript2: ; \(\tilde{N}\)\(\tilde{O}\)' CB@\{\gamma^\T} J

! CodeSpaces\(\tilde{N}\)\(\tilde{O}\)\(\tilde{3}\) 4\(\tilde{U}\) ! TypeScript2version+ 4.7J
\{\{\tilde{X}\tilde{X}\tilde{V}\) = COnsole. \(\tilde{X}\)' C\(\tilde{U}\)\(\tilde{L}\) 1 Consoleg \(\tilde{L}\)\(\tilde{U}\)' 9\(\tilde{U}\)\(\tilde{U}\)\(\tilde{V}\) PHI @J
```

## **API**

```
¥ GET
```

- ! {baseUrl}/getDeviceData
- ! {baseUrl}/getCommandParameterFile/deviceId
- ! {baseUrl}/getImageAndInference/deviceId/subDirectoryName

#### ¥ POST

- ! {baseUrl}/startUpload/deviceId
- ! {baseUrl}/stopUpload/deviceId

## Others Exclusive conditions / specifications

¥ , ...

# Ú' ßFG1"<sup>2</sup>FG

## Ú' ßFG

## SampleApp¥¦àH2Ú'

#### CodeSpaces 34 á

- 1.:; < + â ã 2 ä i j ¢g h SampleApp2P£f | P9:; CodeSpaces9¥ | ?@J
- 2. ZijkHP£f|P¤. åæ?@ÆŸVçz®9šè. «UéêR9ÓÔ?@J
- 3. ÓÔ' ' m« UéêR9äi j ¢³ à m+VSCode Appgh34?@J
- 4. SampleApp9¥¦?@J

#### CodeSpaces 934", BĺÎ

- 1.:; < + âã 2 äi j ¢g h Sample App 2 P £ f | P9: | 1 P £ f | P9 Clone? @J
- 2. Clone" mSampleApp. ë-, i eQRf9zUc|R®?@J
- 3. SampleApp9¥¦?@J

## SampleApp¥¦í 2Ú'

- 1. DeviceID9¶⋅?@J
- 2. START, "U9» ¼?@\$~H1±"2"•/‡^%Š2½¾9: Ï "1"23. 1°''@J
- 3. STOP¸ " U9» ¼? @§~ H1 ± " 2" /‡ ^ ‰Š 2½¾—¿ À? @J

## Stackî <sup>3</sup> H2 • 2ï ′

¥ #SampleAppg h CloudSDK1 Consoleð ñ Hedge AI device. ‡ ^ : Ï - Ò
¥ \$edge AI deviceg h ‡ ^ ‰Š 1 " • 9Console. Upload
¥ %CloudSDKð ñ HConsoleg h ‡ ^ ‰Š 1 " • 9½¾

¥ &SampleAppg h CloudSDK1 Consoleð ñ Hedge AI device. ‡ ^ Ó Ô - Ò

# uBlockH2APIì i { R "

## **GET**

deviceData

- ¥ {baseUrl}/getDeviceData
  - ! DeviceID2Pc | 9½¾" ÃÄ?@J

Query Parameter® name	Meaning		Range of parameter
Return value		Meaning	

DeviceID—õö'′m÷äfÌZ|

- ¥ {baseUrl}/getCommandParameterFile/deviceId
  - ! Console. Øù'' mCommand Parameter File2úû½¾" 1ÆŸÇ9ÃÄ? @J

Query Parameter 🖟 name	Meaning	Range of parameter
deviceId	"•~‡^ ‰Š 9Upload "CB @DeviceID	üŸ, ¨

Return value	Meaning
mode	Console. Øù'' CB@Mode2ÆŸÇ
uploadMethodIR	Console. Øù'' CB@UploadMethodIR2ÆŸ Ç

## $\label{thm:linear_equation} \ensuremath{\mbox{\sc Y}} \ensuremath{\m$

Query Parameter 0s name	Meaning	Range of parameter
deviceId	"•~‡^ ‰Š 9Upload" CB @DeviceID	üŸ, ¨
subDirectoryName	" • —ÕÖ'′@Ì C	üŸ, "

Return value	Meaning
imageAndInference	"•ìc~‡^‰Š—õö′′m÷äfÌZ

## **POST**

### ¥ {baseUrl}/startUpload/deviceId

! 
$$\ddot{u}\ddot{y}$$
 mDeviceID. )  $\ddot{c}$   $\ddot{s}$   $\ddot{s}$  • 2Upload:  $\ddot{l}$  9-  $\dot{o}$ ? @J

Body Parameter 0s name	Meaning	Range of parameter
deviceId	"•~‡^ %Š 9Upload' ý	üŸ, ¨
	@DeviceID	

Return value	Meaning
result	SUCCESSg ERROR2þÿ!
outputSubDirectory	Input Imageõöì c

## ¥ {baseUrl}/stopUpload/deviceId

! üŸ¨ mDeviceID. ) 
$$^{``}$$
 C‡^ ‰Š~ $^{"}$  • 2Upload¿ À 9- ò? @J

Body Parameter 0s name	Meaning	Range of parameter
deviceId	"•~‡^ ‰Š 2Upload9¿ À	üŸ, "
	' ý @DeviceID	

Return value	Meaning
result	SUCCESSg ERROR 2 þ ÿ!

# " #BE

¥ , ··

# \$%&'

- ¥ Console 2 WebUIg h 1 Command Parameter File 9 È ¼ 2ÆŸ. "CÙ (J
  - ! Mode=1(Image&Inference Result)
  - ! UploadMethodIR="Mqtt"

# ) 2\* +, &'

- ¥x•zcghZijka2" NeOyRká. 1±-. / O1223-; 4?@§~-I@J
- $\S$  Command Parameter File 2ÆŸ API—' ('' 561 CloudSDKð ñ HÆŸ H $_i$  @7•., @J
- ¥ NZbc | RZU21/23/4+1 CloudSDK2DE9M4" C8• J

# 9: Ÿ&'

¥ , ··