AI Privacy Guard

External Interface Specification

V1.00

i-PRO Co., Ltd.

Revision history

Ver.	Date	Item no.	Comment	Revision trigger
1.00	2024/2	All	First edition	—

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1. Abstruct

This is the specification for the external interface for AI Privacy Guard.

2. CGI command interface

2.1. Check application status

The following steps allow you to check whether or not the application is already installed in your camera.

1. Enter the following URL while your camera is running.

   http://192.168.0.10/cgi-bin/getinfo?FILE=1

2. The message below indicates whether AI Privacy Guard is installed or not.

   EXTAPP1=AI Privacy Guard EXTAPP2= EXTAPP3=

“AI Privacy Guard” may appear in the place of EXTAPP2 or EXTAPP3 above depending on the order of the installation. Furthermore, the maximum number of x in EXTAPPx varies from camera to camera.

2.2. Set up CGI specificication

2.2.1. Structure

[Command interface]

Method: POST

[CGI]

http://192.168.0.10/cgi-bin/setdata?[<Parameter name>=<value>]

[Request Parameters]

Refer to appendix about “Parameter name” and “value”.

2.2.2. Transmission procedure

1. Create preference data that follows “?” of CGI.

Use JSON format as shown below to create the preference data. Refer to section appendix for the parameters (Parameter name, value).

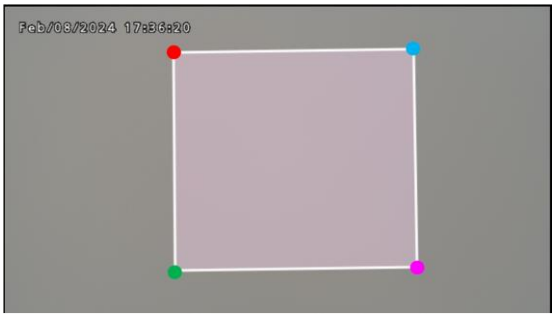
[<Parameter name >=<value >]

It is also possible to specify multiple preference data simultaneously using “&”.

[<Parameter name 1>=<value 1>]&[<Parameter name 2>=<value 2>]&…

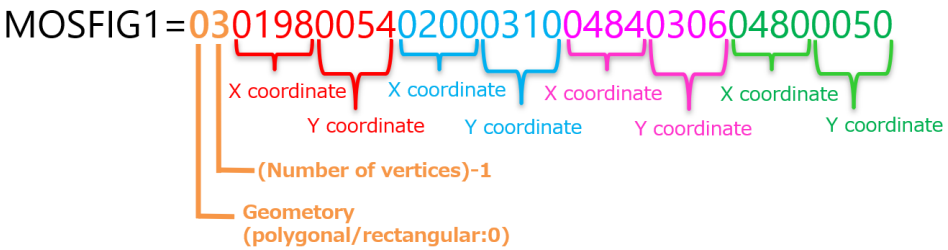
The rule of parameter format is described as follows.

■[Prohibited area setting] Prohibited area coordinate



[A sample of prohibited area coordinates]

Example: The coordinates of the 4 vertexes of the specified detection area 1 (198,54), (200,310), (484,306), (480, 50) should be included in the parameter as indicated below.



2. Send the preference data using CGI.

http://192.168.0.10/cgi-bin/setdata?MOSFIG1=030198005402000310048403060480005O

2.2.3. Retrieve preference data using CGI

You can retrieve the previously set preference data of your application by using CGI below.

http://192.168.0.10/cgi-bin/getdata

[Response Format]

Refer to appendix about “Parameter name”.

```
POST /cgi-bin/getdata HTTP/1.1
Host: 192.168.0.10
User-Agent: example
Accept-Encoding: gzip, deflate
Accept: */*
Connection: keep-alive
Content-Length: 0
Authorization: Digest username="xx", realm="yy", nonce="xxx", uri="/cgi-bin/getdata",
response="yyy", algorithm="xxxx", qop="auth", nc=00000001, cnonce="yyyy"

HTTP/1.1 200 OK
Connection: Keep-Alive
Status: 200
Date: Thu, 08 Feb 2024 09:13:27 GMT
Content-Type: text/plain
Accept-Ranges: bytes
Cache-Control: no-cache
Content-length: 22493

...
Parameter name 1, "Current value 1"
Parameter name 2, "Current value 2"
Parameter name 3, "Current value 3"
```

3. Appendix

3.1. Specifications of CGI parameters

Item	Parameter name	Definition of the Parameter	value	Definition of the value	Parameters supported by the CGI to retrieve the preference values (/cgi-bin/getdata)
AI Privacy Guard setting	MOSTARGET	Privacy Guard target	off, human, face, except_human, except_face, all	off: OFF human: Human face: Face except_human: Except human except_face: Except face all: All	MOSTARGET
	MOSSTREAM	Target stream	0, 1, 2, 3, 4, 2_4	0: OFF 1: Steram(1) 2: Stream(2) 3: Stream (3) 4: Stream (4) 2_4: Stream (2) & Stream (4)	MOSSTREAM
	MOSPATTERN	Masking method	0,1	0: Blurring 1: Filling	MOSPATTERN
Extension setting	MOSSENSITIVITY	Sensitivity	0,1,2	0: Low 1: Medium	MOSSENSITIVITY

				2: High	
	MOSLEVEL	Intensity of blurring	0,1,2	0: Low 1: Middle 2: High	MOSLEVEL
Prohibited area setting	MOSFIG1	Type of polygonal shape; number of vertexes; coordinate of the vertexes (Area1) (640x480 or 480x630 coordinate system)	0+(2～F)+ （0000～0639+ 0000～0639）× max.16 vertexes	0 : Geometry(0: polygonal/rectangular) 2～F : Number of vertexes-1 （0000～0639+0000～0639） ×max.16 vertexes : Coordinates data (up to 16 vertexes) *Both setting ranges are 0000 to 0639 considering the corridor settings.	MOSFIG1
	MOSSTATE_POLYGON1	Status (Area1)	0/1	0 : Off, 1 : On	MOSSTATE_POLYGON1
	MOSFIG2	Type of polygonal shape; number of vertexes; coordinate of the vertexes (Area2) (640x480 or 480x630 coordinate system)	0 + (2 ～ F) + （0000～0639+ 0000～0639）× max.16 vertexes	0 : Geometry(0: polygonal/rectangular) 2～F : Number of vertexes-1 （0000～0639+0000～0639） ×max.16 vertexes : Coordinates data (up to 16 vertexes) *Both setting ranges are 0000 to 0639 considering the corridor settings.	MOSFIG2

	MOSSTATE_POLYGON2	Status (Area2)	0/1	0 : Off, 1 : On	MOSSTATE_POLYGON2
	MOSFIG3	Type of polygonal shape; number of vertexes; coordinate of the vertexes (Area3) (640x480 or 480x630 coordinate system)	0 + (2 ～ F) + （0000～0639＋0000～0639）× max.16 vertexes	0 : Geometry(0: polygonal/rectangular) 2～F : Number of vertexes-1 （0000～0639＋0000～0639） ×max.16 vertexes : Coordinates data (up to 16 vertexes) *Both setting ranges are 0000 to 0639 considering the corridor settings.	MOSFIG3
	MOSSTATE_POLYGON3	Status (Area3)	0/1	0 : Off, 1 : On	MOSSTATE_POLYGON3
	MOSFIG4	Type of polygonal shape; number of vertexes; coordinate of the vertexes (Area4) (640x480 or 480x630 coordinate system)	0 + (2 ～ F) + （0000～0639＋0000～0639）× max.16 vertexes	0 : Geometry(0: polygonal/rectangular) 2～F : Number of vertexes-1 （0000～0639＋0000～0639） ×max.16 vertexes : Coordinates data (up to 16 vertexes) *Both setting ranges are 0000 to 0639 considering the corridor settings.	MOSFIG4
	MOSSTATE_POLYGON4	Status (Area4)	0/1	0 : Off, 1 : On	MOSSTATE_POLYGON4

	MOSFIG5	Type of polygonal shape; number of vertexes; coordinate of the vertexes (Area5) (640x480 or 480x630 coordinate system)	0 + (2 ～ F) + （0000～0639＋0000～0639） × max.16 vertexes	0 : Geometry(0: polygonal/rectangular) 2～F : Number of vertexes-1 （0000～0639＋0000～0639） ×max.16 vertexes : Coordinates data (up to 16 vertexes) *Both setting ranges are 0000 to 0639 considering the corridor settings.	MOSFIG5
	MOSSTATE_POLYGON5	Status (Area5)	0/1	0 : Off, 1 : On	MOSSTATE_POLYGON5
	MOSFIG6	Type of polygonal shape; number of vertexes; coordinate of the vertexes (Area6) (640x480 or 480x630 coordinate system)	0 + (2 ～ F) + （0000～0639＋0000～0639） × max.16 vertexes	0 : Geometry(0: polygonal/rectangular) 2～F : Number of vertexes-1 （0000～0639＋0000～0639） ×max.16 vertexes : Coordinates data (up to 16 vertexes) *Both setting ranges are 0000 to 0639 considering the corridor settings.	MOSFIG6
	MOSSTATE_POLYGON6	Status (Area6)	0/1	0 : Off, 1 : On	MOSSTATE_POLYGON6
	MOSFIG7	Type of polygonal shape; number of	0 + (2 ～ F) + （0000～0639＋	0 : Geometry(0: polygonal/rectangular) 2～F : Number of vertexes-1	MOSFIG7

		vertexes; coordinate of the vertexes (Area7) (640x480 or 480x630 coordinate system)	0000～0639）× max.16 vertexes	（0000～0639＋0000～0639） ×max.16 vertexes : Coordinates data (up to 16 vertexes) *Both setting ranges are 0000 to 0639 considering the corridor settings.	
	MOSSTATE_POLYGON7	Status (Area7)	0/1	0 : Off, 1 : On	MOSSTATE_POLYGON7
	MOSFIG8	Type of polygonal shape; number of vertexes; coordinate of the vertexes (Area8) (640x480 or 480x630 coordinate system)	0 + (2 ～ F) + （0000～0639＋0000～0639）× max.16 vertexes	0 : Geometry(0: polygonal/rectangular) 2～F : Number of vertexes-1 （0000～0639＋0000～0639） ×max.16 vertexes : Coordinates data (up to 16 vertexes) *Both setting ranges are 0000 to 0639 considering the corridor settings.	MOSFIG8
	MOSSTATE_POLYGON8	Status (Area8)	0/1	0 : Off, 1 : On	MOSSTATE_POLYGON8
	MOSAREA_SELECTION	Make the inside of the area a prohibited area /Make the outside of	1, 2	1: Make the inside of the area a prohibited area 2 : Make the outside of the area a prohibited area	MOSAREA_SELECTION

		the area a prohibited area			