



Motion Detection Protocol for Grandstream DVS/IP Camera

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Introduction

This document lists the commands which can be used by the client application to configure and control the motion detection on the DVS/IP camera. This document also provides the responses from the DVS/IP camera for each command sent by the client application.

Client Application Commands and Response from DVS/IP camera

Command Format

```
CMD:MD MCTP/1.0  XXX\n
@A@B@C@D@E@F@G@H\n
... ..
END\n
```

NOTE:

A – Operation type.

- 1 – Configure motion detection settings;
- 2 – Get current motion detection settings;
- 3 – Start motion detection;
- 4 – Stop motion detection;
- 5 – Start alarming;
- 6 – Stop alarming

B – Channel ID.

- 0 – Channel 1;
- 1 – Channel 2;
- 2 – Channel 3;
- 3 – Channel 4;

C – Motion Detection Region ID.

C is a integer and $0 \leq C \leq 15$

D – Sensitivity

E – X1 Coordinate

F – Y1 coordinate

G – X2 coordinate

H – Y2 coordinate

Commands

1. To configure motion detection settings

Client Application Commands:

```

CMD:MD MCTP/1.0 CS\n
@1@B@C@D@E@F@G@H\n
@1@B@C@D@E@F@G@H\n
@1@B@C@D@E@F@G@H\n
@1@B@C@D@E@F@G@H\n
@1@B@C@D@E@F@G@H\n
@1@B@C@D@E@F@G@H\n
@1@B@C@D@E@F@G@H\n
@1@B@C@D@E@F@G@H\n
@1@B@C@D@E@F@G@H\n
@1@B@C@D@E@F@G@H\n
@1@B@C@D@E@F@G@H\n
@1@B@C@D@E@F@G@H\n
@1@B@C@D@E@F@G@H\n
@1@B@C@D@E@F@G@H\n
@1@B@C@D@E@F@G@H\n
@1@B@C@D@E@F@G@H\n
@1@B@C@D@E@F@G@H\n
@1@B@C@D@E@F@G@H\n
@1@B@C@D@E@F@G@H\n
END\n

```

Response from DVS/IP camera:

```

CMD:MD MCTP/1.0 SC\n
@1@B@C@0@0@0@0@0@0\n
END\n1

```

NOTE: C – Execution Result. 1 – Success; 0 – failure

2. To get current motion detection settings

Client Application Commands:

```

CMD:MD MCTP/1.0 CS\n
@2@B@0@0@0@0@0@0\n
END\n

```

Response from DVS/IP camera:

```

CMD:MD MCTP/1.0 SC\n
@2@B@C@D@E@F@G@H\n
@2@B@C@D@E@F@G@H\n
@2@B@C@D@E@F@G@H\n
@2@B@C@D@E@F@G@H\n
@2@B@C@D@E@F@G@H\n
@2@B@C@D@E@F@G@H\n
@2@B@C@D@E@F@G@H\n
@2@B@C@D@E@F@G@H\n

```

```
@2@B@C@D@E@F@G@H\n
@2@B@C@D@E@F@G@H\n
@2@B@C@D@E@F@G@H\n
@2@B@C@D@E@F@G@H\n
@2@B@C@D@E@F@G@H\n
@2@B@C@D@E@F@G@H\n
@2@B@C@D@E@F@G@H\n
@2@B@C@D@E@F@G@H\n
@2@B@C@D@E@F@G@H\n
@2@B@C@D@E@F@G@H\n
END\n
```

3. To start motion detection

Client Application Commands:

```
CMD:MD MCTP/1.0 CS\n
@3@B@0@0@0@0@0@0\n
END\n
```

Response from DVS/IP camera:

```
CMD:MD MCTP/1.0 SC\n
@3@B@C@0@0@0@0@0\n
END\n
```

NOTE: C – Execution Result. 1 – Success; 0 – failure

4. To stop motion detection

Client Application Commands:

```
CMD:MD MCTP/1.0 CS\n
@4@B@0@0@0@0@0@0\n
END\n
```

Response from DVS/IP camera:

```
CMD:MD MCTP/1.0 SC\n
@4@B@C@0@0@0@0@0\n
END\n
```

NOTE: C – Execution Result. 1 – Success; 0 – failure

5. To start alarming

Client Application Commands:

```
CMD:MD MCTP/1.0 CS\n
@5@B@0@0@0@0@0@0\n
END\n
```

Response from DVS/IP camera:

CMD:MD MCTP/1.0 SC\n
@5@B@C@X1@Y1@X2@Y2@0\n
END\n

NOTE: B – Alarm type.

B=1 – Motion detection alarm events

B=2 – Alarm Input alarm events

B=3 – Live storage, USB flash drive and etc., out of memory alarm events

C – Motion Detection Region. $0 \leq C \leq 15$

6. To stop alarming

Client Application Commands:

CMD:MD MCTP/1.0 CS\n
@6@B@0@0@0@0@0@0\n
END\n

Response issued from DVS/IP camera:

CMD:MD MCTP/1.0 SC\n
@6@B@C@0@0@0@0@0\n
END\n

NOTE: C – Execution Result. 1 – Success; 0 – failure

NOTE: Resolution of the screen is 704*576.