

Two-way Audio Protocol for Grandstream DVS/IP camera

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Table of Connects

Introduction	3
Two-way Audio Protocol	3
Audio Packet Format	-3
Communication diagram between client application and DVS/IP Camera	-3
Two-way Audio Request and Response	4

Introduction

This document defines the protocol which is used by the DVS/IP camera to establish a two-way audio call, as well as the format of audio packet.

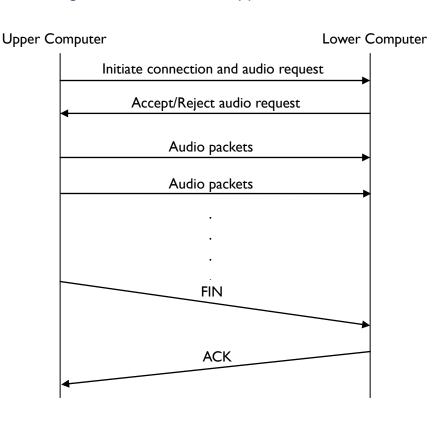
Two-way Audio Protocol

```
Audio Packet Format
```

```
Transport Protocol: TCP
Packet Format: private header + audio frame + private header + audio frame...
Private header Format:
struct HEAD
{
    unsigned long len : 10; // In BYTE
    unsigned long reserved : 22;
    unsinged long timestamp;
};

DVS/IP camera: reuse console port
```

Communication diagram between client application and DVS/IP Camera



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Page 3 of 4

Two-way Audio request and response

1. Client sends two-way audio Request to the DVS/IP camera

CMD:TALK MCTP/1.0 CS\n
@C@P@\n

NOTE: C - Channel ID
P - Audio Codec.
P = 0 for G726_16K,
P = 1 for G726_24K,
P = 2 for G726_32K,
P = 3 for G726_40K

2. DVS/IP Camera responds to the request

CMD:TALK MCTP/1.0 SC\n @C@R@\n **NOTE:** C – Channel ID

R – Execution Result. R=1 indicates success; R=0 indicates failure

s NOTE

- 1. DVS/IP camera does not accept concurrent two-way audio requests. It would only accept one two-way audio request at one time.
- 2. If the DVS/IP camera does not receive audio packets within 10 seconds after connection is established, it will be disconnected from the client application.
- 3. The DVS/IP camera will drop some bad packets depends on the network situation if necessary.