

# PS-API Introduction

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Panasonic System Networks Co.,Ltd  
Security & AV Systems Business Unit

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## General Description

This document shows the specification concerning the IT resource of Panasonic Video Surveillance devices.  
Please design the network referring to the description of this document when you connect the devices with the network.

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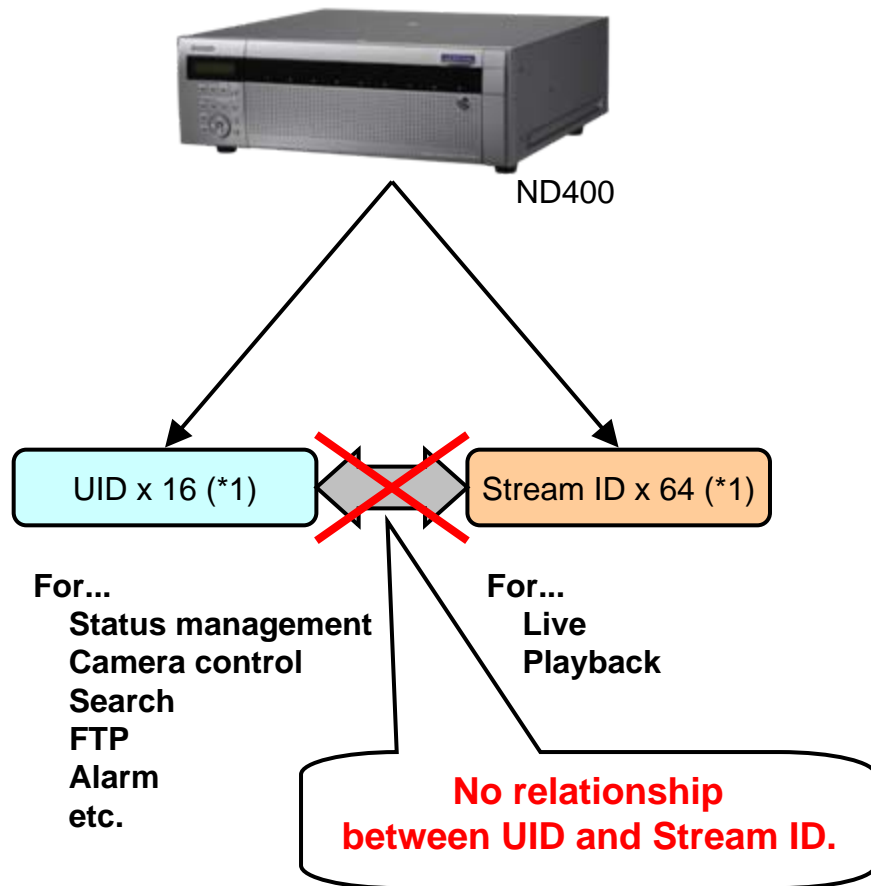
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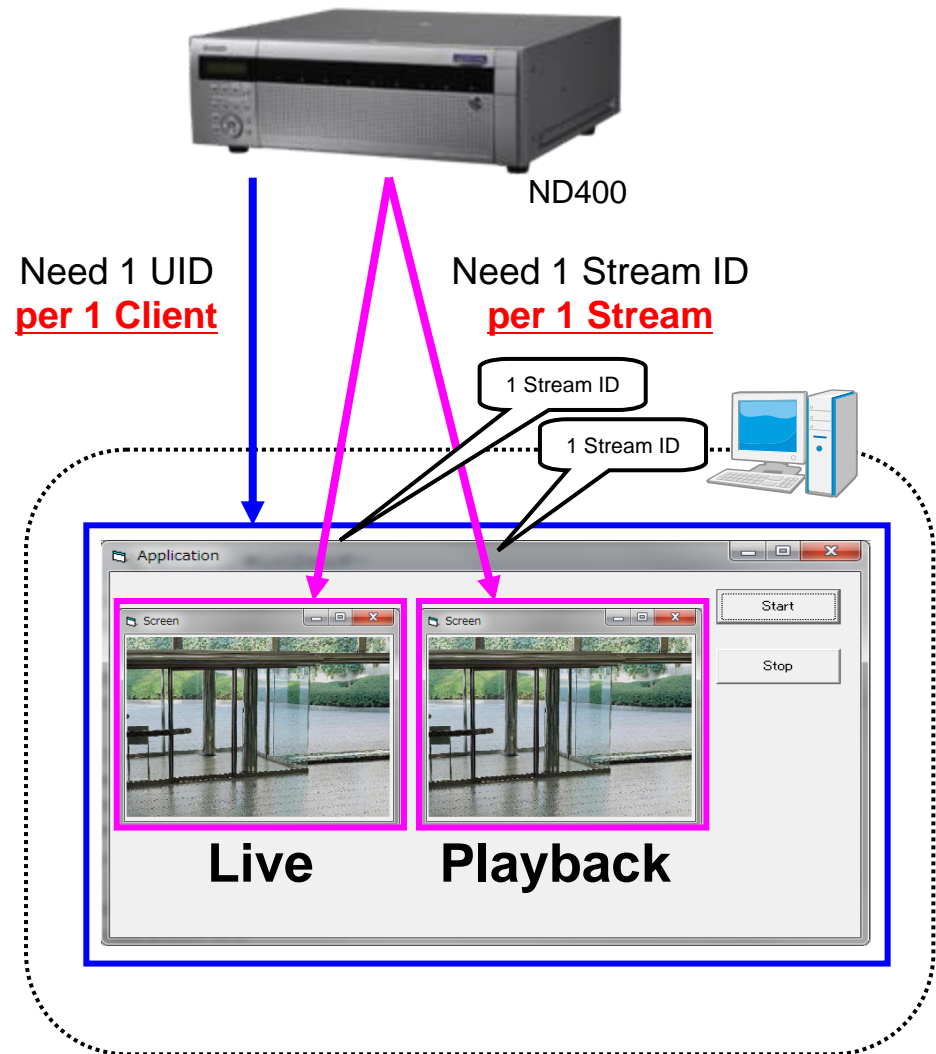
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# Stream ID support

# What is the Stream ID?



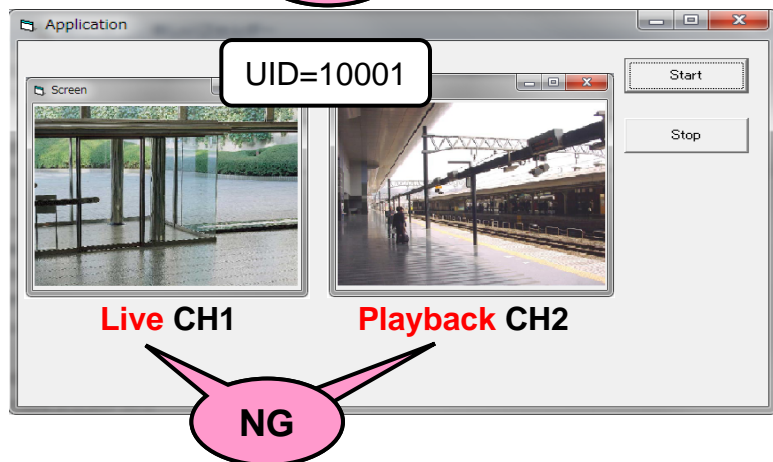
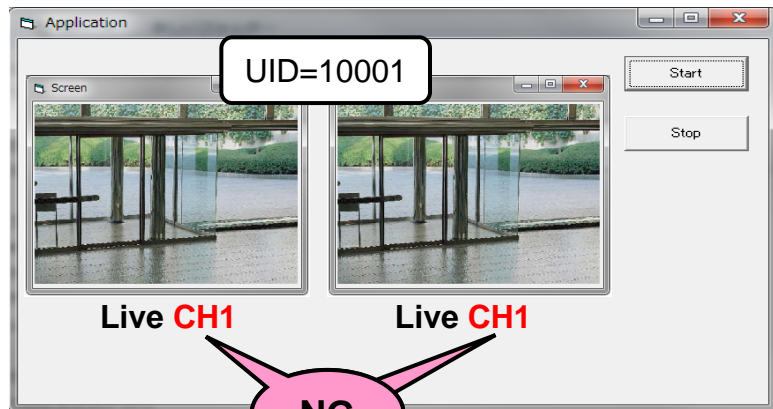
\*1 : ND400 UID = Max 16, Stream ID = Max 64  
 NV200 UID = Max 4, Stream ID = Max 16  
 HD600 UID = MAX 8 , Stream ID = Max 64



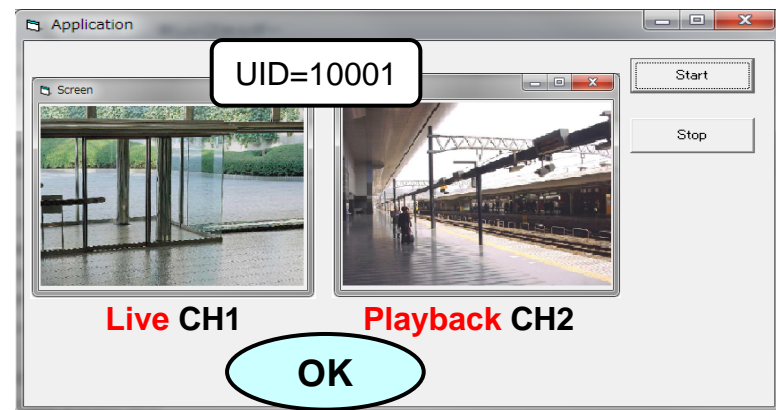
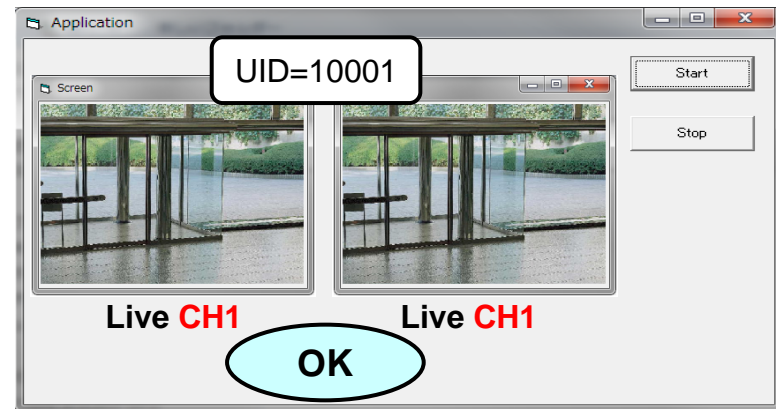
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# What is the benefit point?

Version 5.0 or before



Version 6.0 with *Stream ID mode*

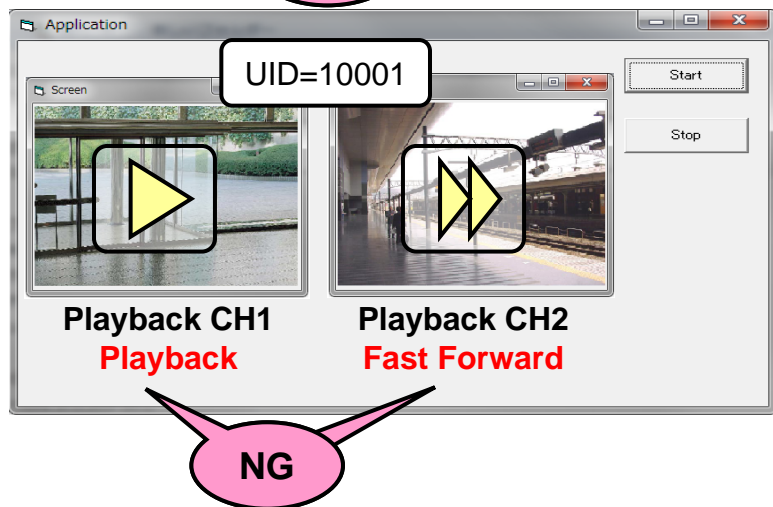
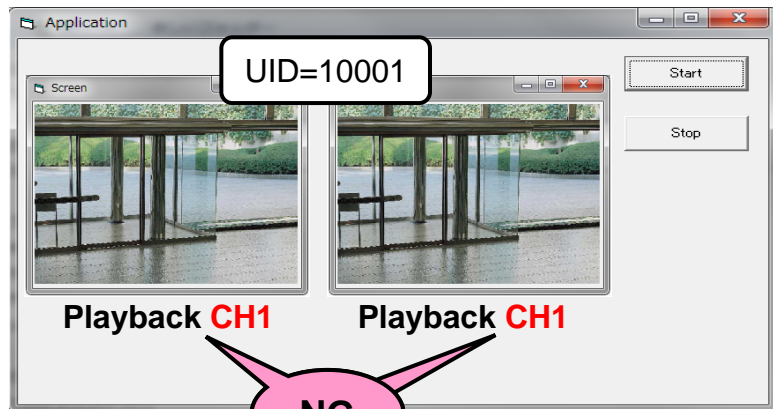


*NOTE : PS-API uses Stream ID internally,  
but it is NOT necessary for users  
to be conscious of Stream ID!*

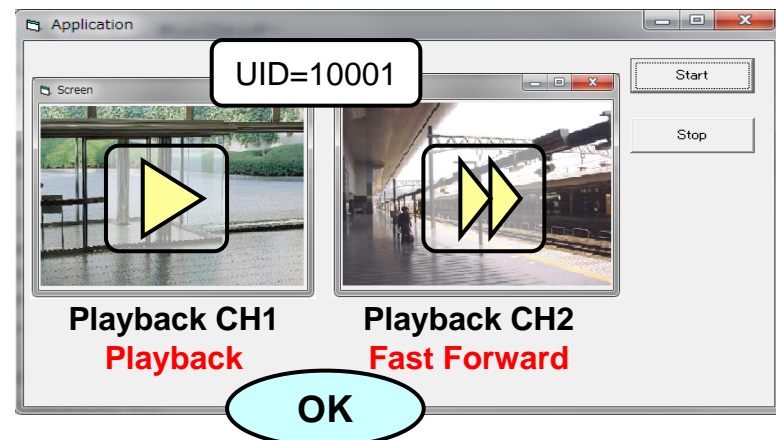
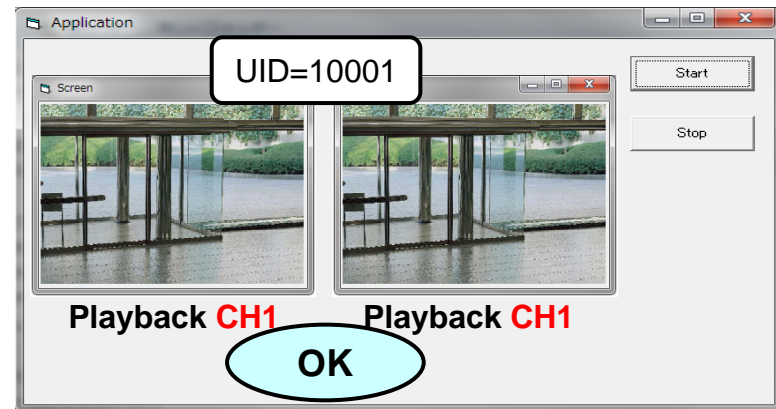
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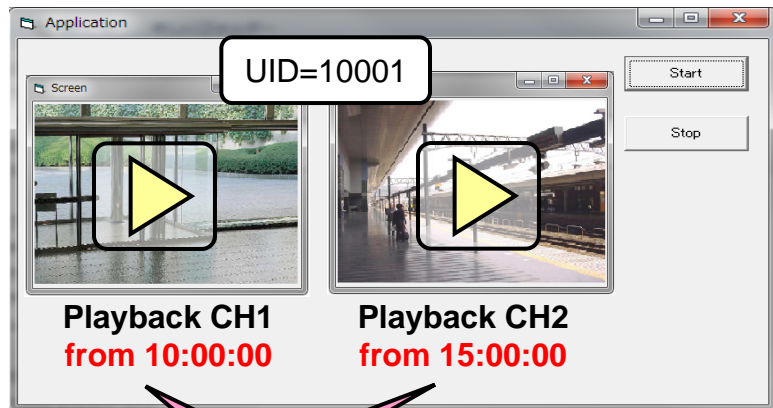


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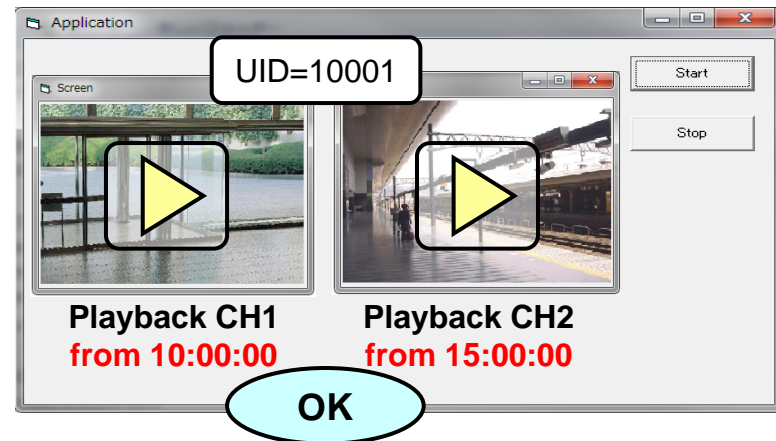
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# What is the benefit point?

Version 5.0 or before



Version 6.0 with *Stream ID mode*



*NOTE : PS-API uses Stream ID internally,  
but it is NOT necessary for users  
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# What is the benefit point? <Summary>

Operation	PS-API V5.0 or before. (Not support StreamID)	PS-API V6.0 (StreamID support)
<b>Multiple instance Live</b>	<ul style="list-style-type: none"> <li>- Application <u>CANNOT</u> call the same camera (channel).</li> <li>- Application <u>CANNOT</u> mix PlayLive() and Play() between instances which use same UID.</li> </ul>	<ul style="list-style-type: none"> <li>- Application <u>CAN</u> call the same camera (channel) flexibly.</li> <li>- Application <u>CAN</u> mix PlayLive() and Play() between instances which use same UID.</li> </ul>
<b>Multiple instance Playback</b>	<ul style="list-style-type: none"> <li>- Application <u>CANNOT</u> call the same camera (channel).</li> <li>- Application <u>CANNOT</u> control video with different operation. (playback/rewind/fast forward etc)</li> <li>- Application <u>CANNOT</u> mix PlayLive() and Play() between instances which use same UID.</li> <li>- When starting playback with Play(), application has to specify the same time and date to all instances that share UID.</li> </ul>	<ul style="list-style-type: none"> <li>- Application <u>CAN</u> call the same camera (channel).</li> <li>- Application <u>CAN</u> control video with different operation. (playback/rewind/fast forward etc)</li> <li>- Application <u>CAN</u> mix PlayLive() and Play() between instances which use same UID.</li> <li>- When starting playback with Play(), application can specify the optional time and date for each instance flexibly.</li> </ul>
<b>Camera control Search FTP Alarm etc. (Except Live and Playback)</b>	<p>No change.</p> <p>* Functions (except video control) need to use "UID".</p>	



## Procedure to use PS-API with Stream ID mode.

1. Connect to a target device.
2. Set Stream ID mode to PS-API.
3. Start Live or Playback.

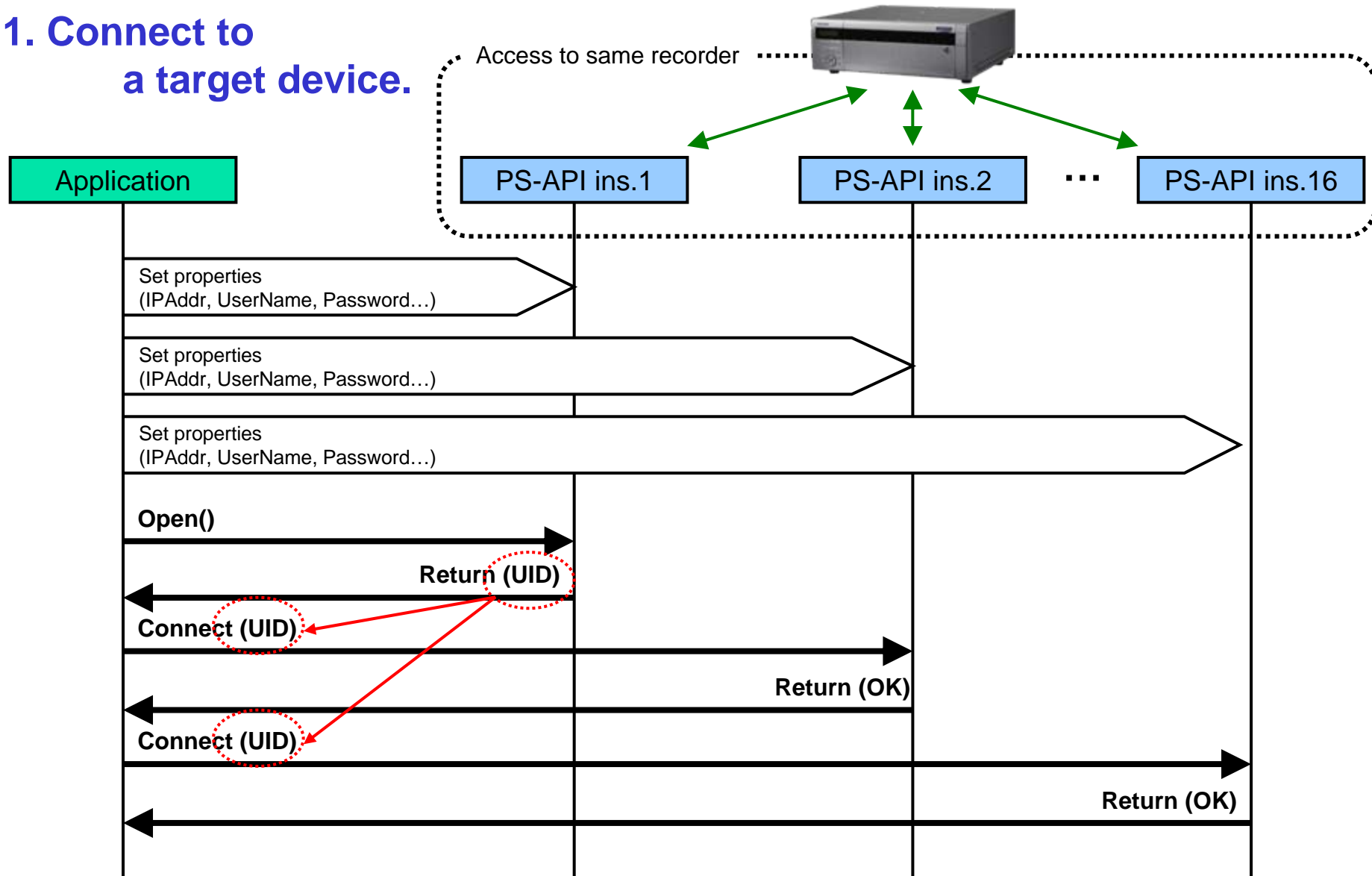


[View Live/Playback]

4. Stop Live or Playback.
5. Disconnect from a target device.

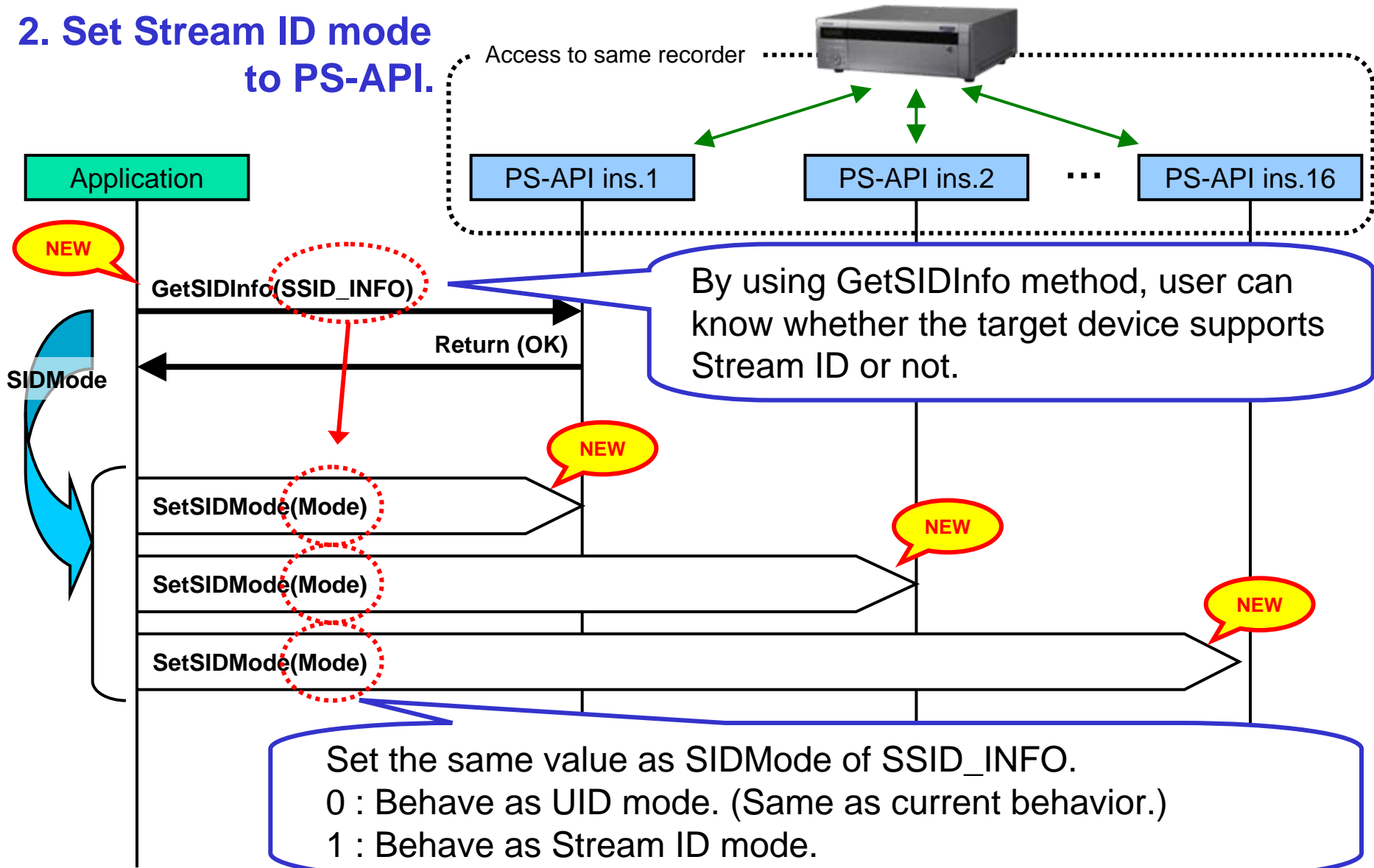
# How to use UID and Stream ID when live/play?

## 1. Connect to a target device.

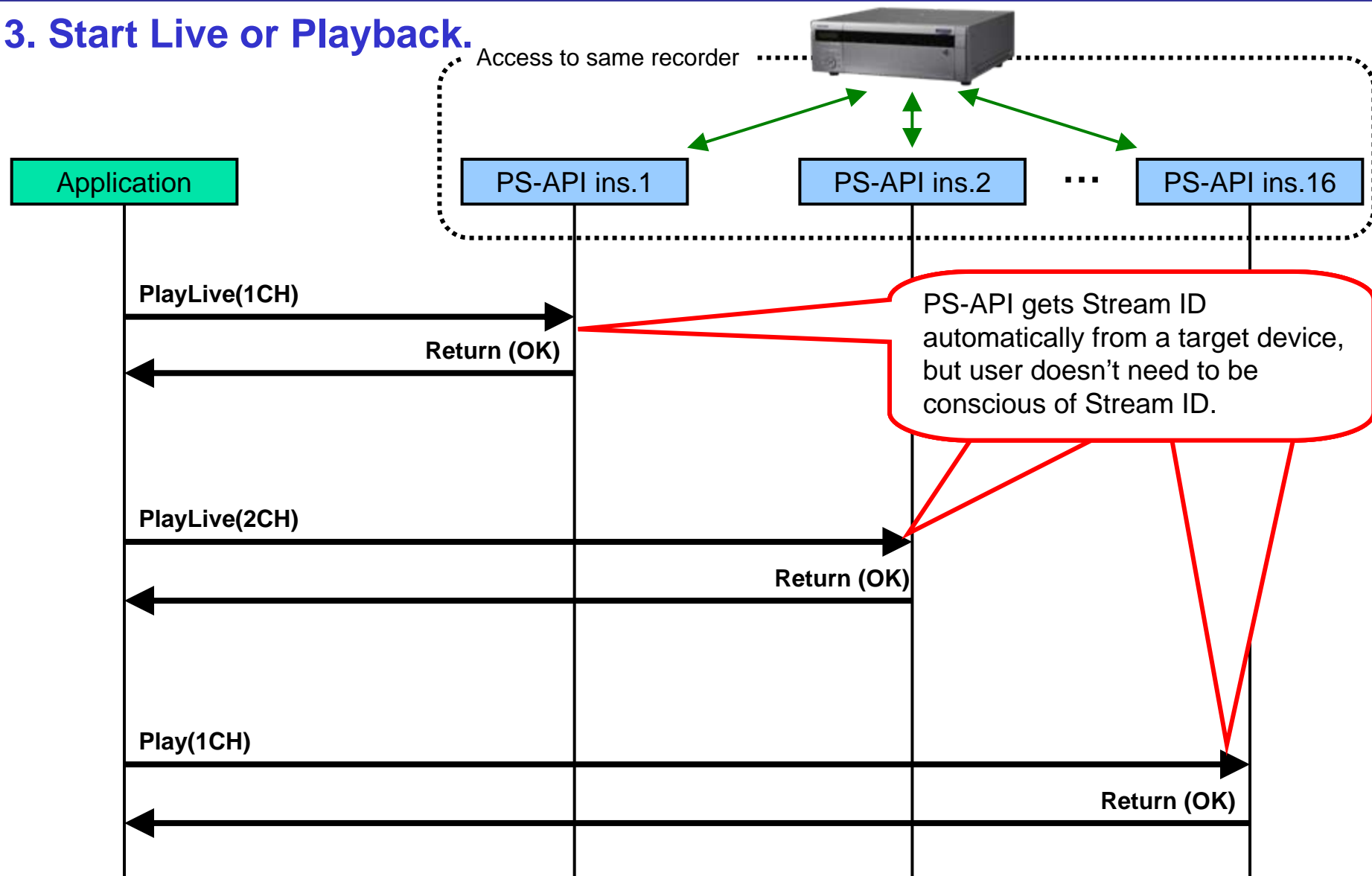


# How to use UID and Stream ID when live/play?

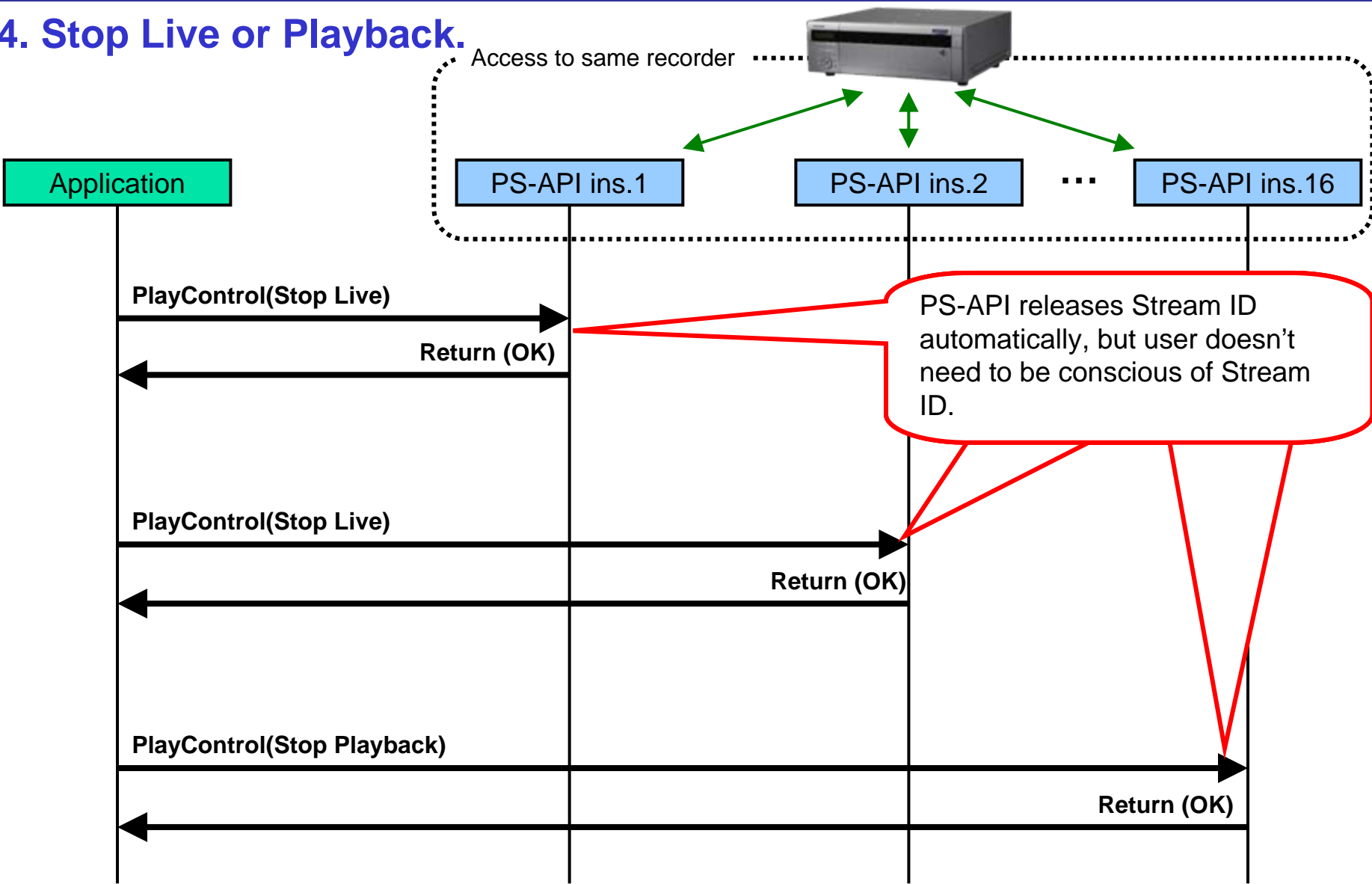
## 2. Set Stream ID mode to PS-API.



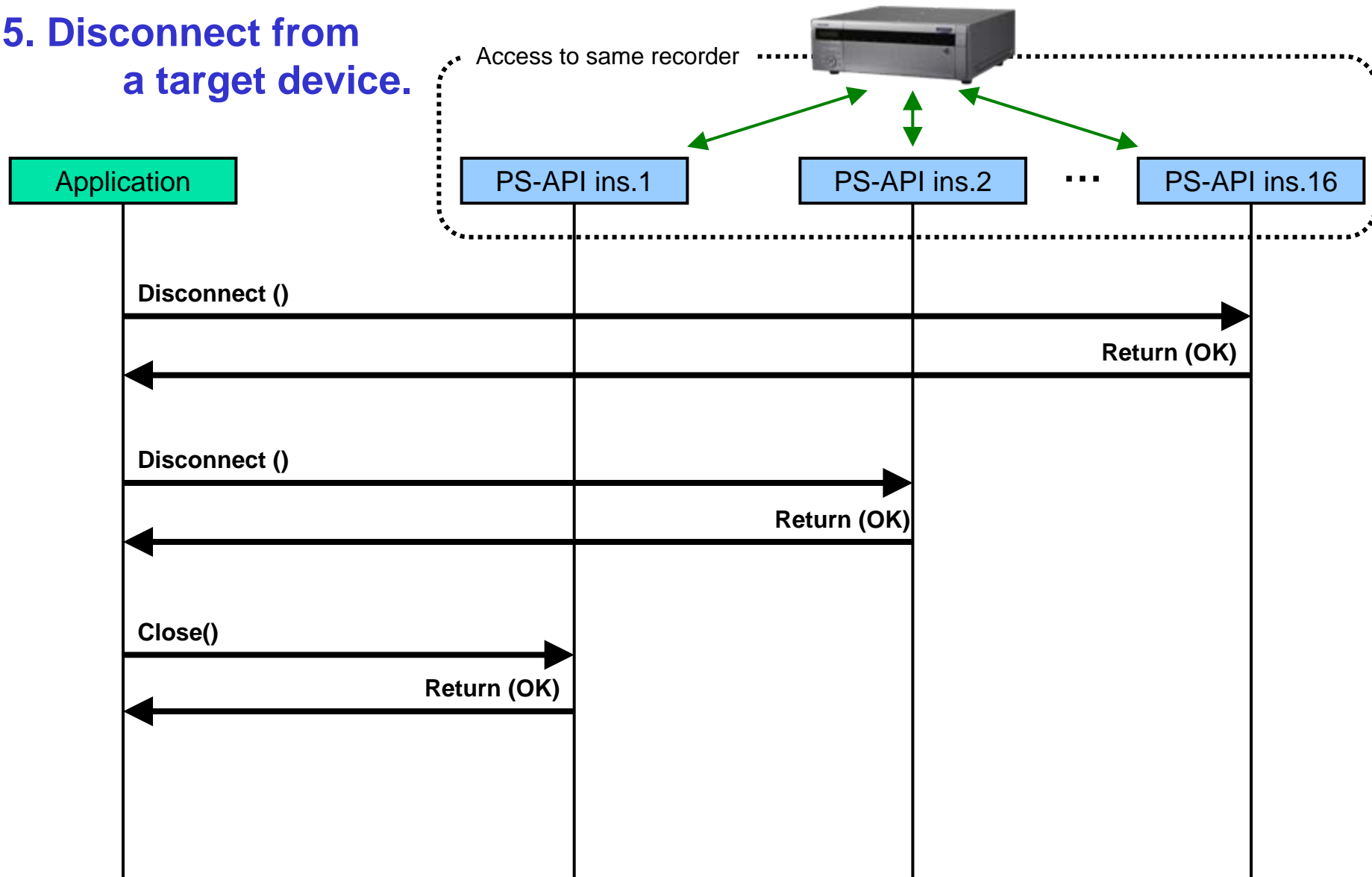
## 3. Start Live or Playback.



## 4. Stop Live or Playback.



## 5. Disconnect from a target device.



# What is the limitation of Stream ID?

1. User needs to use Open/Connect method and needs to be conscious of to share UID between PS-API instances which connect to same target device. Stream ID is used for Live/Playback only, and UID is needed to manage status, to control camera, to download and to control alarms etc.
  - \* Stream ID is gotten automatically by PS-API internally, therefore user doesn't need to be conscious of Stream ID.
2. 1 Stream ID is for 1 Live or Playback Stream
3. Maximum number of Stream ID that each recorder can issue is as follows.

Device	ND400	NV200	HD616/HD716
Maximum	64	16	64

4. Stream ID has First-Come-First-Serve mode only.
  - \* In case of ND400 ( it has 64 Stream IDs), if ND400 already provide 64 Stream IDs, the 65th PS-API instance cannot get an Stream ID. Last PS-API (65th instance) cannot start Live (or Playback).