

3rd Party Integration Overview

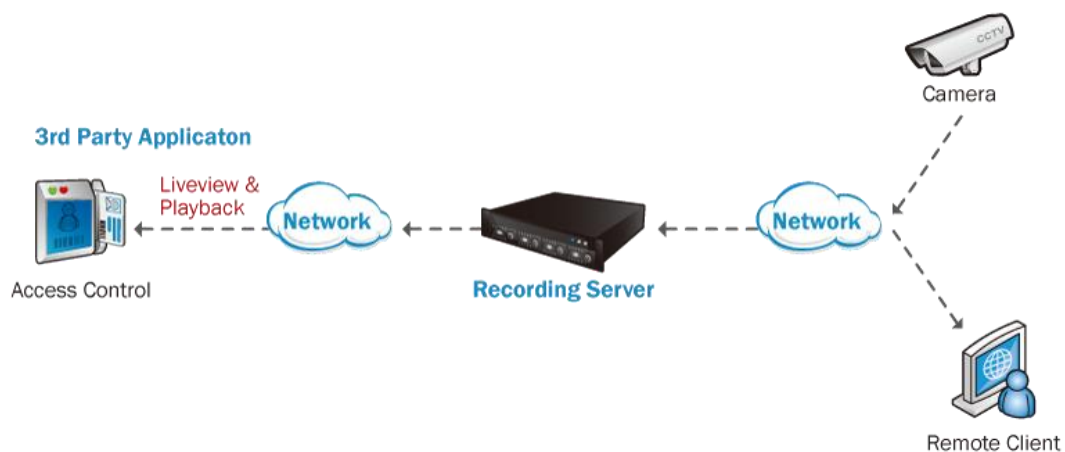
2013/4/22

This SDK offers the integrator 3 different ways to integrate 3rd party applications.

- (1) Integrating through SDK, this 3rd party application receives the live view, recorded video, event status, I/O status and the other information through recording servers.
- (2) Integrating through TCP/ IP receiver, this 3rd party application sends metadata to recording server, for instance, send the transaction data to recording server for displaying, recording and the other functionalities.
- (3) Integrating through SDK and TCP/ IP receiver, recording server sends live view, recorded video and the other information to this 3rd party application for analysis. After that, this 3rd party application sends the metadata to recording server for further management. It's a two-way integration.

The SDK package provides the sample codes and documents to describe the SDK integration and generic TCP/ IP receiver development. See below for the integration diagrams and further information,

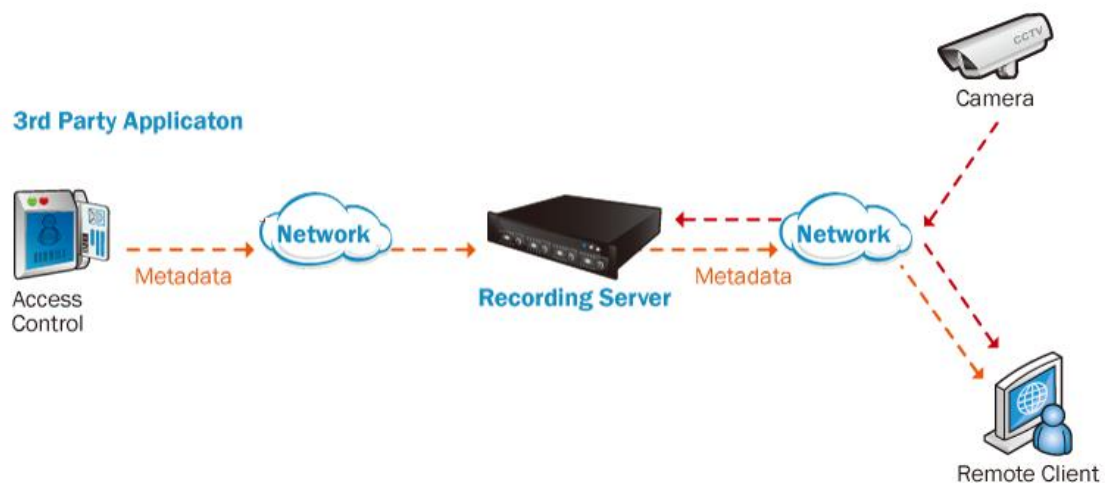
1) The 1st way is one-way integration through SDK. This 3rd party application receives the live video stream, playback video, event status and the other data from recording server. Thus the user can view the live video and recording video at this 3rd party application. The common integration applications include inserting live video at the webpage, displaying live video at the access control system, providing live video for 3rd party video analytics and license plate recognition...and so on. The flowchart would be like the following diagram.



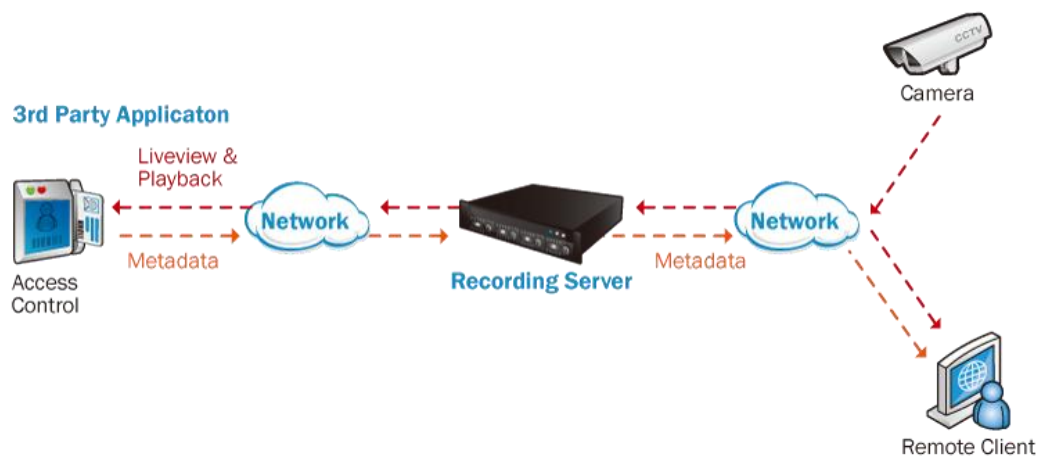
2) The 2nd way is one-way integration through generic TCP/IP receiver. The recording server receives the metadata from this 3rd party application, and then display this metadata live view, record metadata with surveillance video, combine metadata with the alarm system...and so on. Here is an example of sending access control metadata to Mainconsole, the user can have the following functionalities,

- * Display card ID, door ID and other information from access control system from multiple locations.
- * Record access control data with surveillance video
- * Intelligent event search with video
- * 10 user-defined access control alarms allowing customization such as invalid card ID...etc.
- * Up to 10 instant responses for each access control event.
- * Keyword search to filter out suspicious access control across multiple access control system database.
- * Fully compatible and scalable with NVR, DVR and hybrid systems and CMS for single site or chained operation.

The flowchart would be like the following diagram.



3) The 3rd way is two-way integration through SDK and generic TCP/IP receiver, the recording server sends live view, recorded video and the other information to this 3rd party application for analysis, and then this 3rd party application sends the metadata to recording server for further management.



Here is the comparison table for the 3 different integration ways,

	Recording server -> 3rd party application (one-way integration)	3rd party application -> Recording server (one-way integration)	Recording server -> 3rd party application -> Recording server (two-way integration)
Integration tool	SDK	Generic TCP/ IP Receiver	- SDK - Generic TCP/ IP Receiver
Available VMS features	- Live view, - Playback, - Event, IO status...	- Overlay metadata on live view - Record metadata with recorded video - Combine metadata with alarm system - Intelligent metadata search, all VMS functionalities	- Live view, - Playback - Event, IO status... - Overlay metadata on live view - Record metadata with recorded video - Combine metadata with alarm system - Intelligent metadata search, all VMS functionalities
Common integration scenarios	- Display live view at website, - Display live view at access control - Show recorded video at 3rd party device...etc	- Display metadata on live view - Record metadata with recorded video - Combine metadata with alarm system...etc	- Display metadata on live view - Record metadata with recorded video - Combine metadata with alarm system...etc
License needed	1) <u>Recording server</u> (Mainconsole, NVRmini, NVRTitan or NVRsolo)	1) <u>Recording server</u> (Mainconsole, NVRmini, NVRTitan or NVRsolo) 2) <u>Metadata license</u>	1) <u>Recording server</u> (Mainconsole, NVRmini, NVRTitan or NVRsolo) 2) <u>Metadata license</u>

(SCB-P-IP-POS, SCB-P-IP-Access Control or
SCB-P-IP- LPR)

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