AppVision System Architecture – An Overview

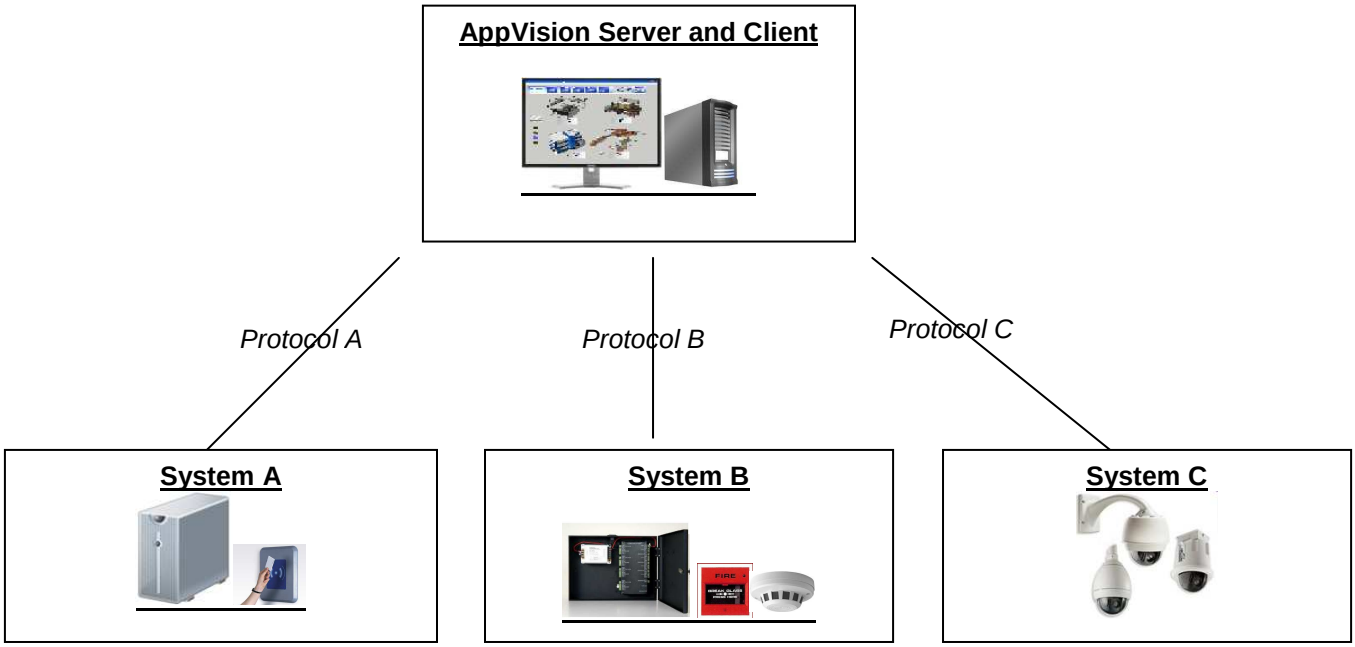
appvision
Integrated Building Management

Simple Architecture / single server with client station

AppVision can also be used on small and simple projects as a stand alone monitoring station.

In this single server / client architecture, the AppVision PC is used directly to centralise all the sub systems :

- User interfaces : configurable graphics, user reports and actions to follow on events…,
- Server processes,
- Databases,
- Communication interfaces,



Single site architecture with multiple client stations

This type of architecture is normally deployed on a per site basis, alongside a number of connected client stations. While this is highly flexible, in most cases our client stations are used to separate distinct roles and responsibilities based on geographic location or functionalities.

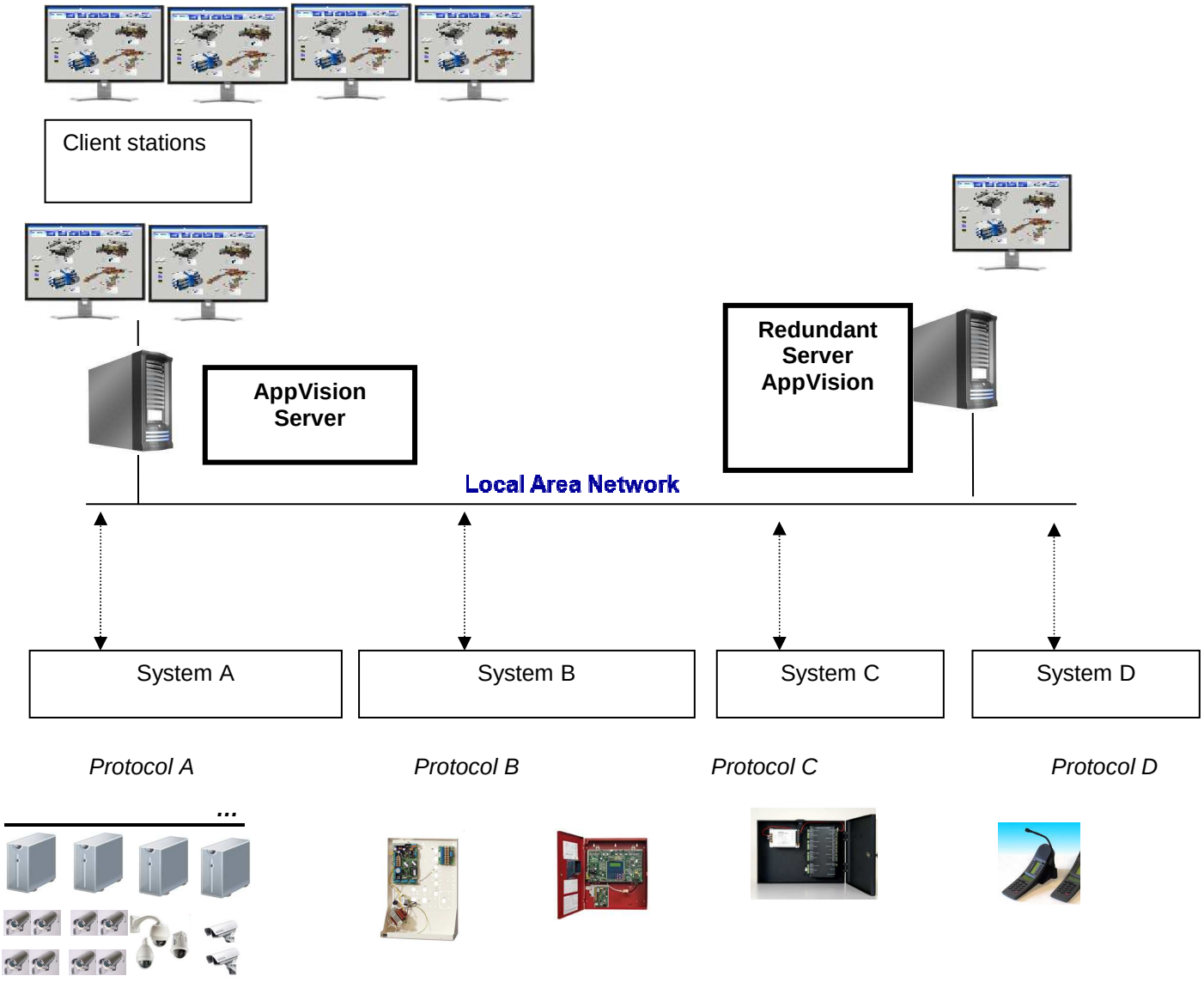
AppVision Server :

- Server processes,
- Databases,
- Communication interfaces,

NB : it is possible to separate the AppVision databases from the server to install it on other servers.

AppVision clients :

- User interfaces : configurable graphics, user reports and actions to follow on events…,
- Specific zonal management,
- Specific functional management (access, access badge creation, cctv, alarms….),



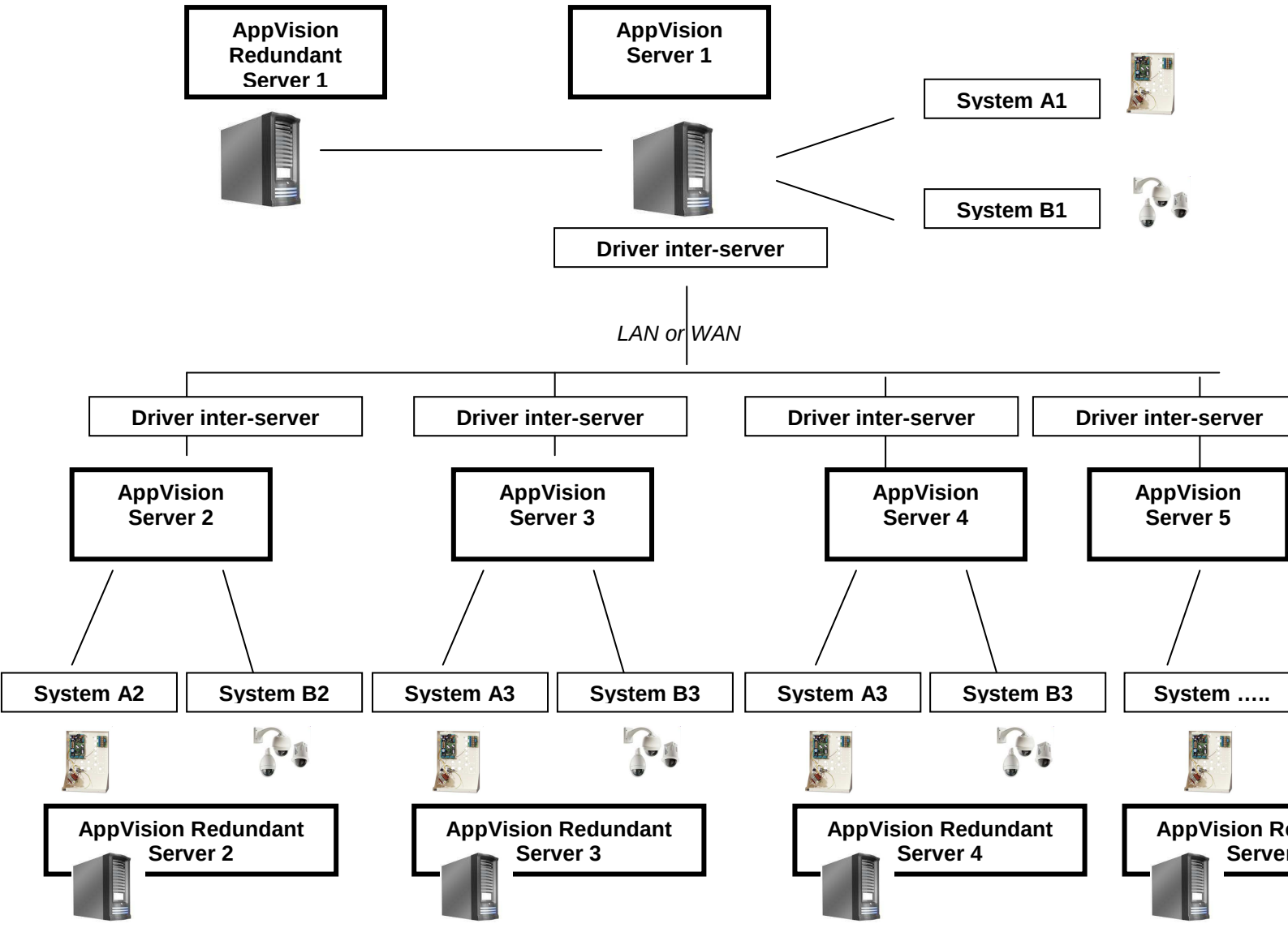
Multi site architecture / inter-server drivers

AppVision can be used in an architecture connected to multiple AppVision servers, each server can be fully autonomous in order to manage the connected sub system for its geographic area and local databases.

An inter-server driver ensures that 2 way real time communication between each of the servers is maintained. Local redundant servers are also connected to the network so that they will also maintain inter-site communications if needed.

In most cases, one of these servers will be designated as the main server. In some projects this will mean that all incidents and alarms will be centralised and monitored using the main server, for example at a company's world headquarters.

As such, AppVision can be scaled up to meet the requirement of a PSIM project (physical security integration management) for large geographic territories.



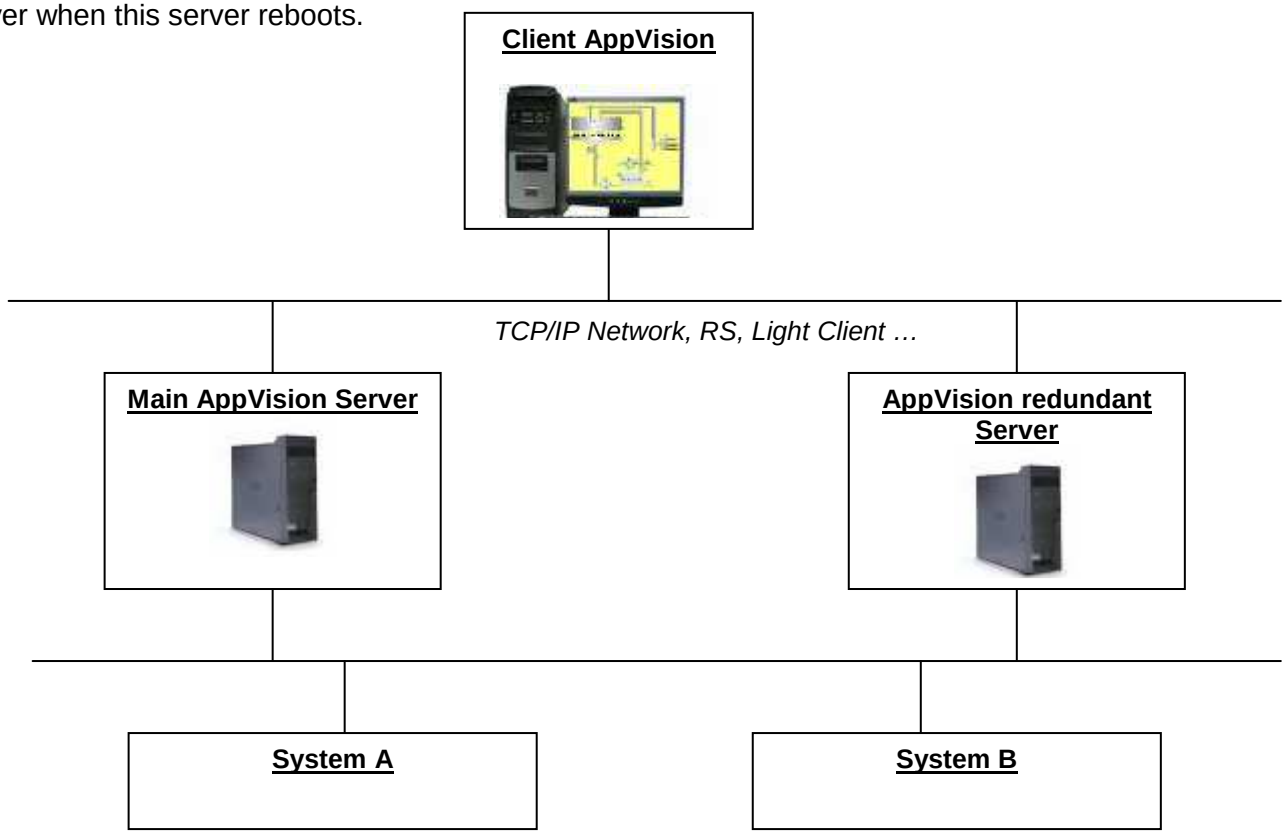
Redundancy and Failover Architecture

In this configuration 2 (or more) AppVision servers are installed : the main server plus the back up (or redundant) server. 2 types of configuration are possible depending on the sub systems to be managed :

- the sub systems accept multiple connections
- the sub systems accept only a single connection

In the 1st case a live redundant connection may be possible: this means that the 2 servers are active, while the client stations are connected to the main server. In case of a system falldown on the main server the clients will automatically connect to the back up server and continue to function with no reboot needed.

In the 2nd case only the main server is active. The back up server is simply synchronised with the main server so that it can reboot in case of a main server system falldown. As with the 1st case, all clients will connect to the back up server and continue to run normally. The client stations will redirect their connections to the back up server when this server reboots.



NB. More than 1 redundant server can be deployed at each site.