Elpro Digital Signage Software CMS Technical Architecture Specification Document

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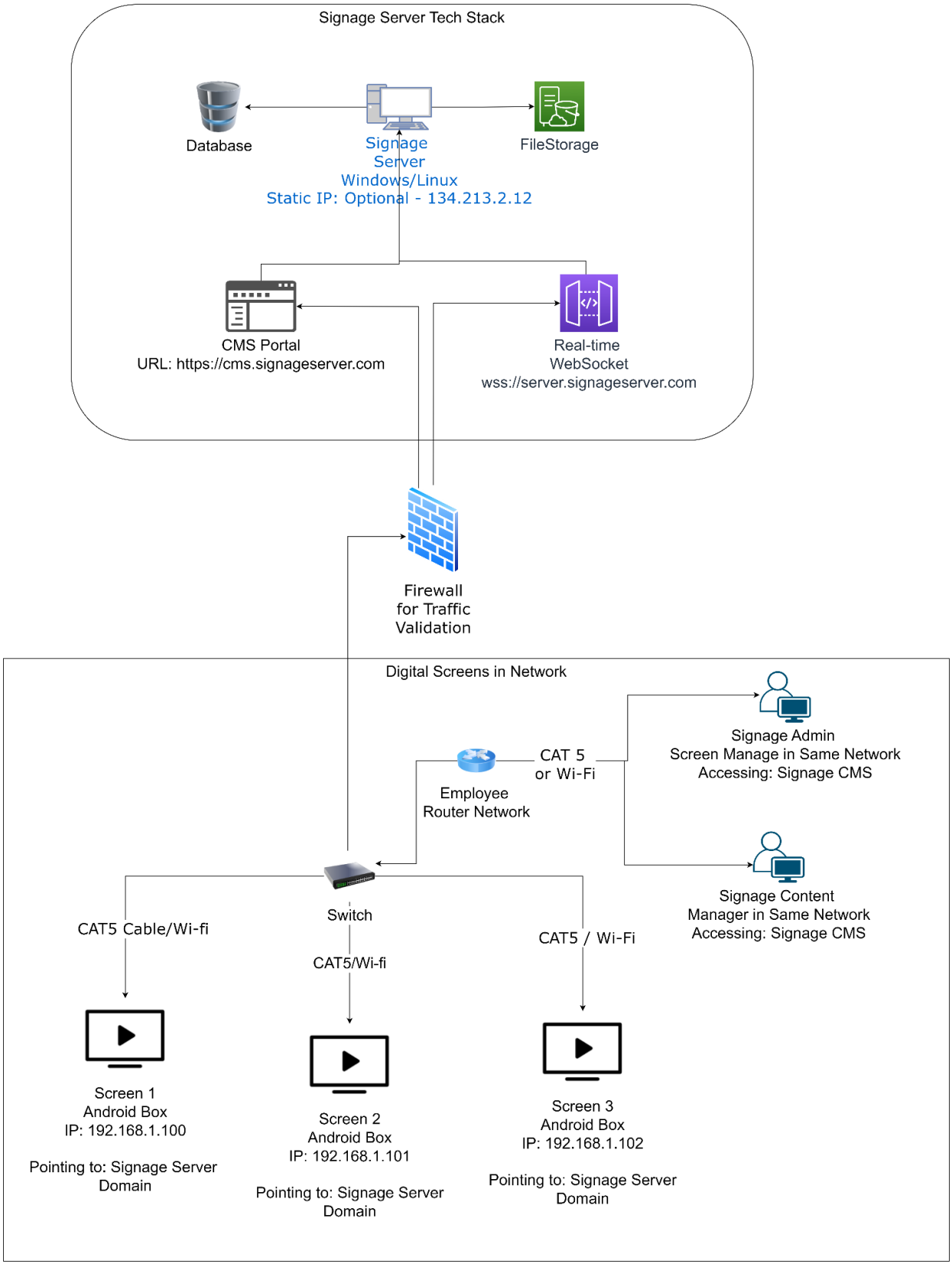
The flow of Digital Signage Cloud Software Communication



1. **Provide Destination IP/FQDN**
   Following are the destination URLs and Domains

Destination URL	Destination IP	Port
https://api.digitalsignages.co.in/	172.67.181.17 104.21.80.127	80, 443
https://api.digitalsignages.co.in/	104.21.20.86 172.67.192.3	80, 443
https://api.digitalsignages.co.in/	65.1.153.188	80, 443
https://api.digitalsignages.co.in/	172.67.192.3 104.21.20.86	80, 443

2. **Provide Destination Port**
   The Destination port is 80, 443

3. **The above configuration works on TCP/UDP protocol?**
   Yes, the Above configurations work on TCP protocol.

4. **Video will be displayed on run time, or it will be stored in the cache and then will be played?**
   Videos will be cached and will be played whether the display is online/offline, only certain functions need active connectivity for proper execution.

5. **How partner will access the android machines console to trouble shoot the issue, if any.**
   Partners can access the Displays through the Content Management System (CMS) Display Settings in case of any basic troubleshooting.

6. **What will be the Video size?**
   There is no fixes Video Size, it totally depends on the hardware compatibility and specification. We recommend a Media file in 1080x1920 & vice-versa quality/dimension.

7. **Video can be uploaded on server any point of time, but it should render at night only** otherwise it will consume the bandwidth.
   Videos can be uploaded at any point in time, it is up to the user to render it at any given time. Only at the time of publishing and running the playlist, the bandwidth will be used.

The Tech Stack:

CMS: ReactJS
Websockets: RedisDB
Android App: Java and XML
Server: NodeJS
Cloud File and Server Hosted in: **Amazon Web Services, Mumbai**

Thank you

Please contact us for any questions or discussion on the document.