

Advantages of having TIMS interface with PSSS System:

1. In case of Passenger Emergency Alarm activation in any car, the view Saloon Camera nearest to the location of activated Passenger Emergency Alarm will be able to **automatically** appear on the CCTV HMI Screen in front of Train Operator.
2. In case of saloon door obstacle detection, the nearest Saloon camera will be able to **automatically** have focus of the concerned door on the CCTV HMI Screen and alert the Train Operator by flashing the concerned image.
3. Separate recording of Normal Footage and Event Footages (viz. Door Obstacle Detection, Passenger Alarm Activation, Emergency Door Operation) in the NVR.
4. The system will have the capability of **automatically** switching of display to rear view when the train stops and **automatically** going back to default mode (saloon view) once the train leaves the platform. This will be ensured by the distance-based logic from TIMS.

Scope of Work for interfacing TIMS with PSSS System:

1. Installation of L3 Switches in the DT Cabs and inter-connection of respective PSSS ethernet switches of DT Cabs with TIMS through ethernet cables via L3 Switches.
2. Internal logic build-up by the TIMS's OEM (Melco) for ensuring Digital Output to PSSS network w.r.t Door Obstacle Detection, Passenger Emergency Alarm operation, Emergency Door Operation. Logic build-up by PSSS contractor for utilizing aforementioned DOs for requisite switching of cameras on the HMIs.
3. Logic build-up by the TIMS's OEM (Melco) for transferring information regarding real-time distance being covered by the train between two stations for automatic switching between saloon view and rear-view once the train enters and leaves the platform respectively. Logic build-up by PSSS contractor for utilizing aforementioned DOs for requisite switching of cameras on the HMIs.
4. Interface between PSSS contractor and TIMS's OEM for finalisation of 'Protocol' and 'interval' for data transfer.