

## Professional Track

### Video Use Cases Details

**Note:** Professional track participants shall demonstrate all the use cases mentioned hereby.

Sr No	Video Use Case	Problem Statement	Possible Approach
1	Passengers fall on the platform, track, and escalator	The fall of passengers on the platform (after the yellow line) is observed wherein passengers used to look for the train entering the platform (accidental fall). Occasionally, passengers jump and cross platforms. This causes major safety concerns for the passengers. Additionally, the fall of passengers on escalators is observed. This causes safety concerns for the passengers.	Analytics on CCTV cameras installed on platform viewing platform/ platform edge, thereby, triggering alerts on a real-time basis to avert accident/ train overrun. Escalator fall analytics on dedicated CCTV cameras meant for escalator view shall identify passenger fall cases on escalators, triggering alerts on a real-time basis to avert accidents,
2	The ticketing line passenger count exceeds a pre-defined threshold	During peak hours, huge ticketing lines are observed at the metro station unpaid areas near TOM. This causes inconvenience to the passengers as they have to wait for the tickets for a long duration.	If the number of people in the ticket queue exceeds a certain threshold, an alarm should be raised as video analytics for deployment/ operation speediness.
3	Loitering/ Intrusion in areas like the Pump Room, DG room, and fencing	A large number of robbery cases are observed at the Pump Rooms and DG Rooms which are located at Road level below the station box. The loitering has been often found before the robbery near these rooms.	Video analytics should be triggered in case people are found roaming around these rooms above the prescribed time limit and if they enter these rooms.
4	Physical encounter with	The fight between passengers and metro security personnel, or between passengers is a security	If a fight is observed between metro security personnel and passengers or between the

	Metro security personnel	concern for the metro as well as for the passengers.	passengers, video analytics (behavioral) should be triggered.
5	Left Object/ Baggage detection	Many times passengers forget their belongings at the station premises which can sometimes cause a security challenge. It is necessary for the metro to identify such unattended/ left objects.	If an object/baggage is left behind by any passenger on the station premises, then a video alert should be raised.

### Technical details pertaining to the above use cases:

The following types of CCTV IP cameras are used in Pune Metro to provide video coverage at the premises of the Pune Metro Rail Project.

Sr No	Camera Type	Make	Model
1	Fixed Box Camera	Honeywell	HCD8G
2	Mini Dome Camera	Honeywell	H4W8PR2
3	Bullet Camera	Honeywell	HBL6GR2
4	Pan Tilt Zoom Camera	Honeywell	HDZP304DI