

G-PON AS A BACKHAUL FOR IP SURVEILLANCE



Security systems over G-PON Network

- Digital IP Video Surveillance System
- Access Control System
- Biometric Systems
- Boom Barrier System
- Guard Tour System

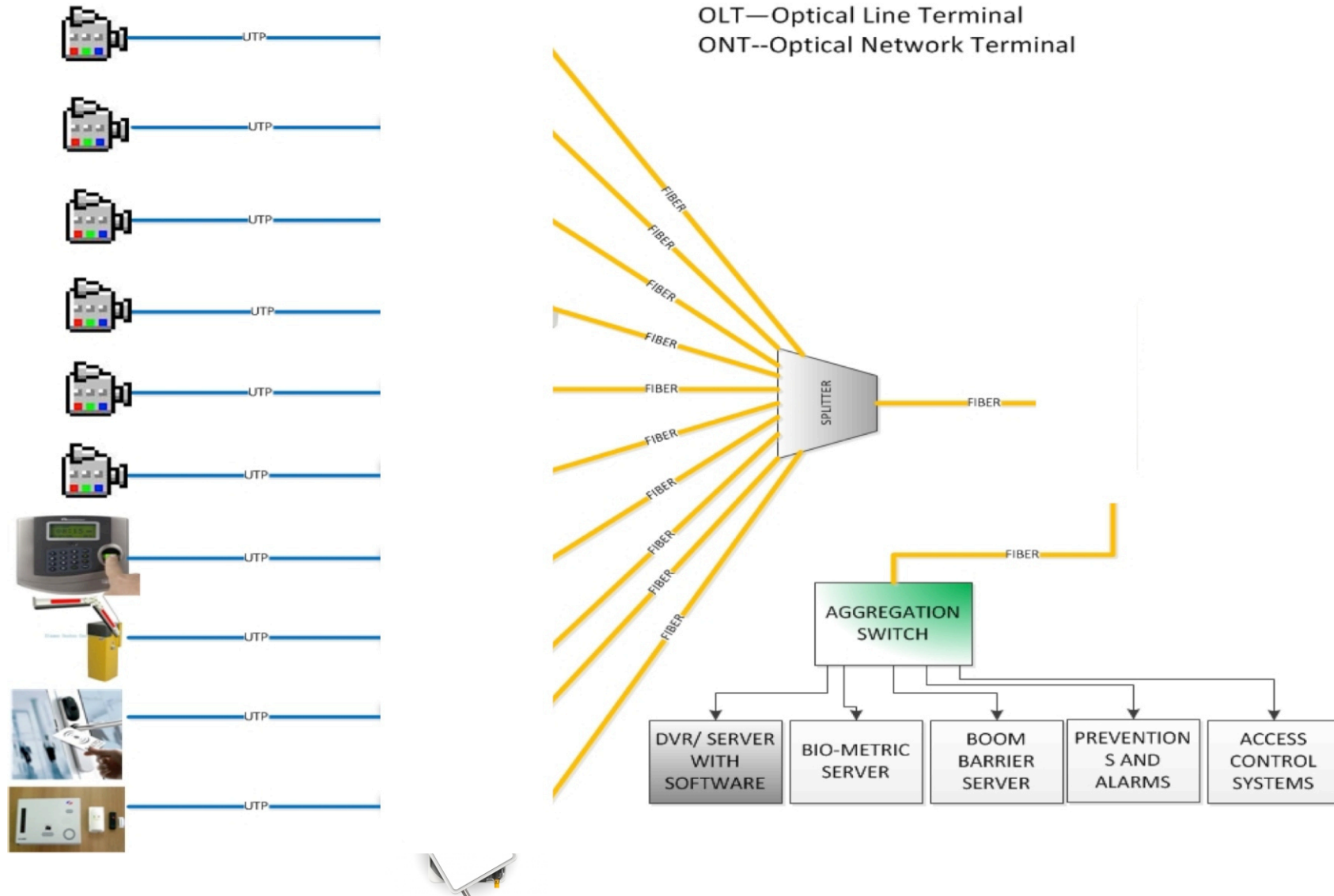


Preventions and Alarms

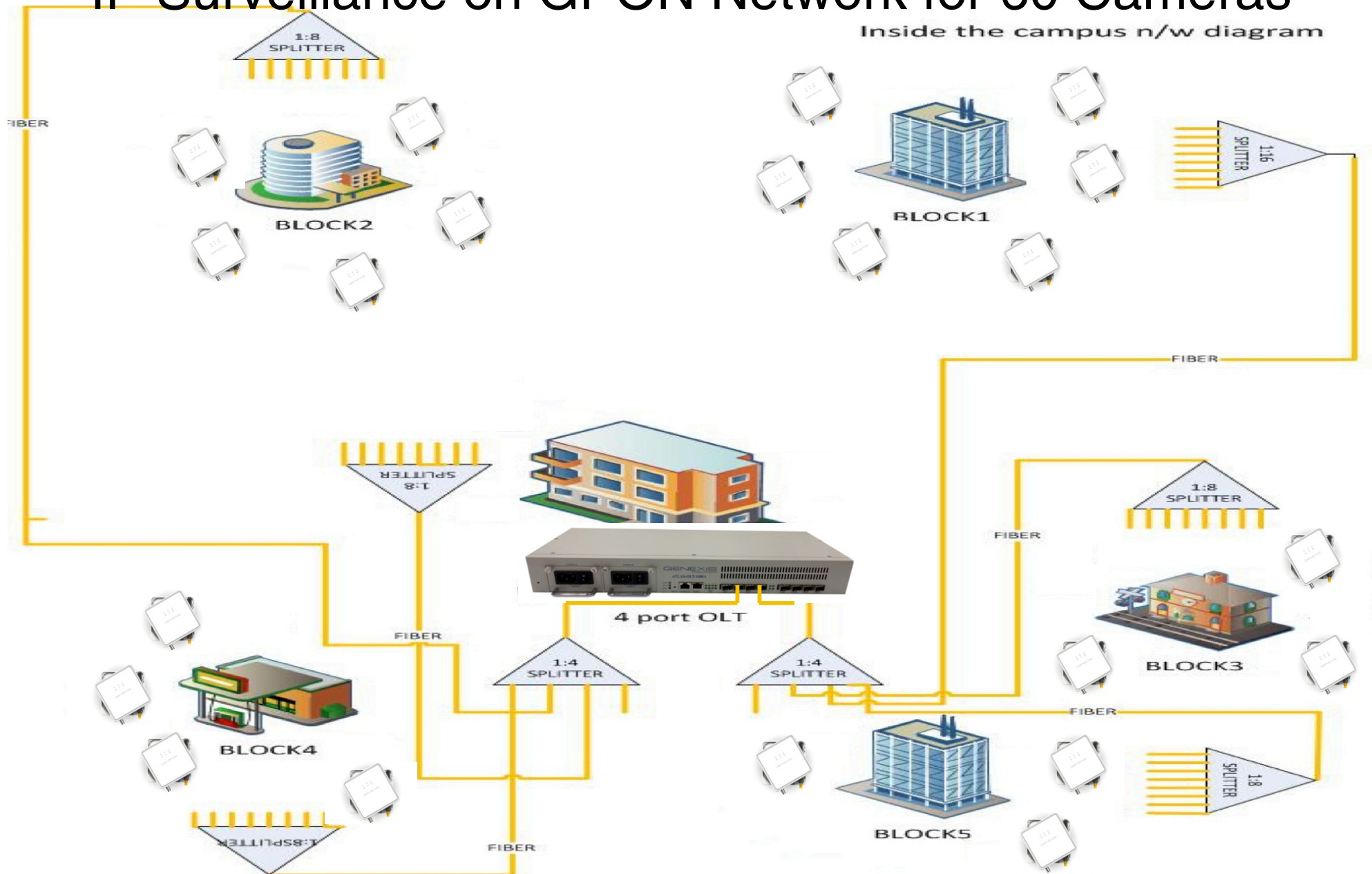
- **Intruder Alarm System**
Protection from Theft, Gas Leak and Panic Situation
- **Fire Alarm System**
- **Electronic Article Surveillance System**
- **Building Management System**
To Monitor & Control - Pumps, DG Sets – Level Monitoring, Over Head Tanks & STP plant
- **Fire Fighting Systems**



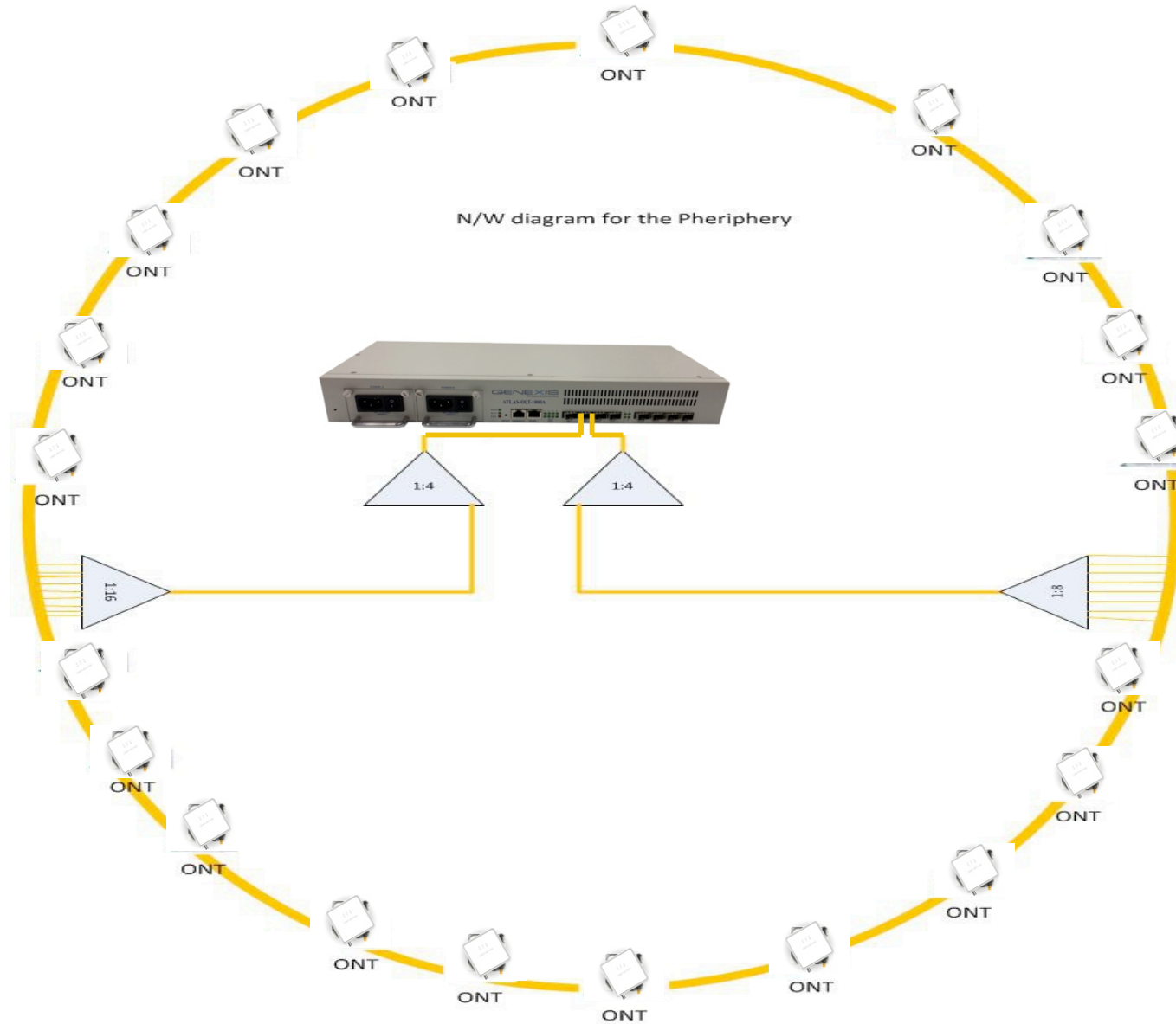
Security System over GPON - IP surveillance and other



IP Surveillance on GPON Network for 60 Cameras



IP Surveillance on GPON Network 220 Cameras



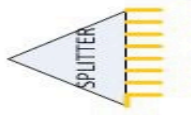
IP Surveillance on GPON network for 220 cameras



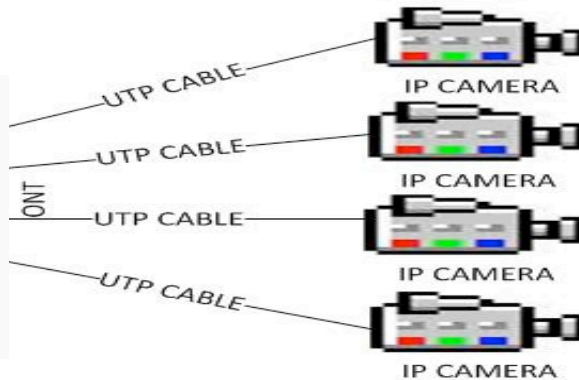
4 PORT PIZZA BOX OLT



4 PORT ONT



PASSIVE SPLITTERS {1:8 , 1:4 ,1:16}



BLOCK 1 HAS 10 ONT`S WHICH CAN ACCOMIDATE 40 IP CAMERAS

BLOCKS 2,3,4,5 AND CONTROL ROOMS HAS 8 ONT`S EACH AND CAN ACCOMIDATE 160 IP CAMERAS.

THE PHERIPHERY HAS 20 IP CAMERAS

4 PORT OLT -----1
 4PORT INDOOR ONT`S-----50
 OUT DOOR ONT`S-----20
 SPLITTERS-----10 [1:4-->2,1:8--> 6 , 1:16 --> 2]



Advantages of GPON over Metro Ethernet

- Extended maintenance and security mechanisms
- GPON provides a robust QoS implementation that is in built to the PON layer
- Higher bandwidth and higher efficiency
- GPON networks are end-to-end managed with central management
- Higher split ratio allowing better CAPEX utilization
- GPON can transmit voice, video, data simultaneously on a single fiber which helps in integrating multiple applications over GPON network like IP surveillance, Bio-metric systems, GoD, VoD, DTH, IPTV, Cable TV etc
- Optical signal can be driven upto 20km with out requiring any power source in between

