SYSTEM DESIGN

```
                                    INTERNET
                                        |
                                        v
                                  ROUTER/
                                  Firewall
                                        |
                                        v
   EA-5  <----- IP ----- Managed Switch ----- IP -----> Multimedia
                                        |                Network Storage
                                        v
                                   packeged
                                   NKI  Switch ------> VLAN 2 -- IP --> Guest WiFiGuest WiFi
                                        |                      -- IP --> Secured WiFi
                                        v
                                     VLAN 1
```

EA-5 connections:
- IP → Security Camera NVR
- IP → Multi-room Audio System
- IP → Digital Security System
- IP → HOMEWORKQS LUTRON

HOMEWORKQS LUTRON (Qs Link Cable):
- Blinds
- Keypads(switches)
- Adaptive phase dimmers

VLAN 1 connections:
- IP → FAMILY ROOM EA-1
- IP → M.BEDROOM EA-1
- IP → LOUNGE EA-1
- IP → DATA POINTS
- IP → VoIP
- IP → DOOR STATION
- IP → SWIMMING POOL SYSTEM
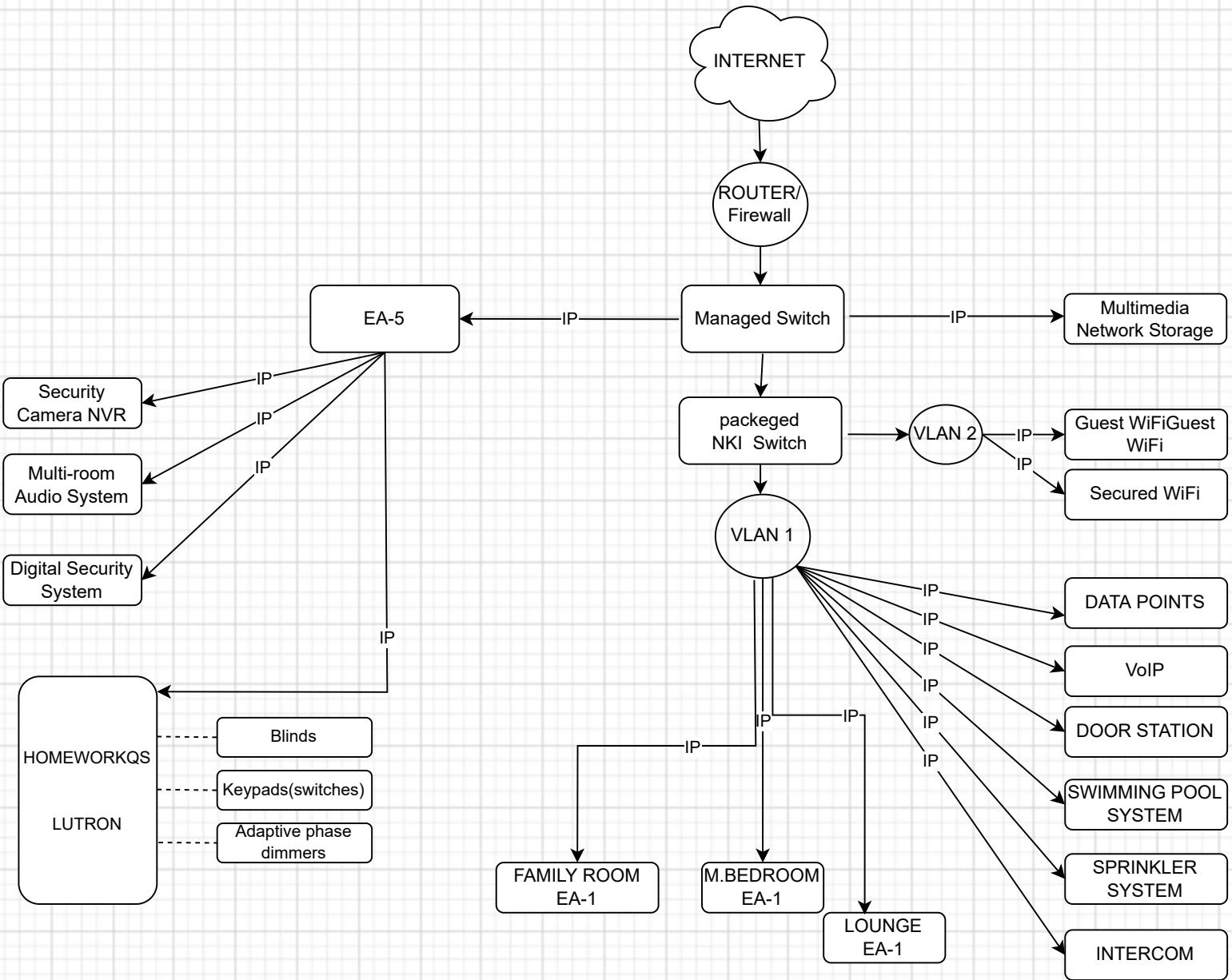- IP → SPRINKLER SYSTEM
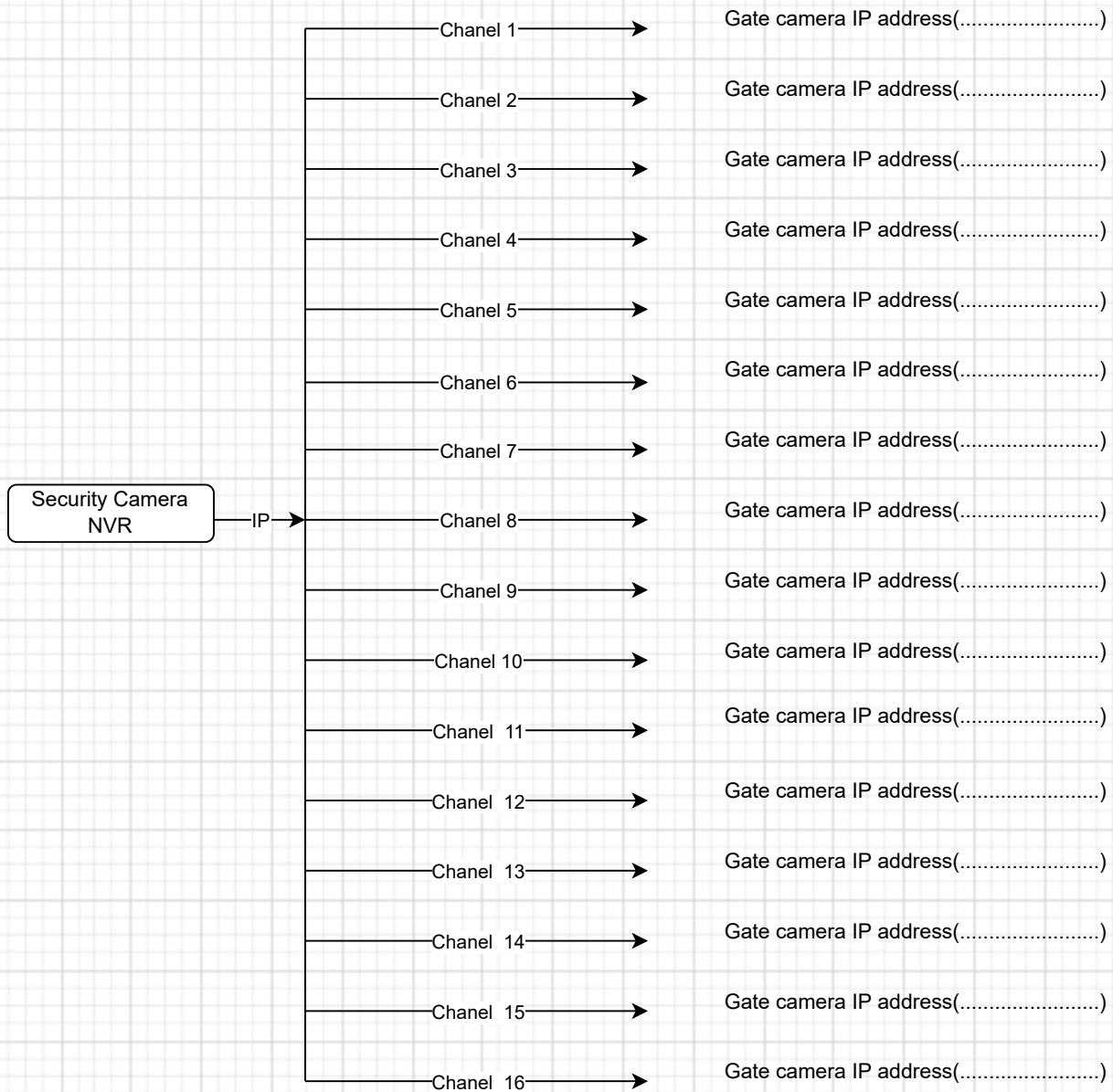- IP → INTERCOM

KEY

- - - - - - - - Qs Link Cable

————————> LAN Cable

NOTES

* All TVs to access internet connectivity from VLAN 1

* All Cameras to be connected from NVR

SECURITY SYSTEM DESIGN

```
                           ┌──── Chanel 1 ──────►    Gate camera IP address(.......................)
                           │
                           ├──── Chanel 2 ──────►    Gate camera IP address(.......................)
                           │
                           ├──── Chanel 3 ──────►    Gate camera IP address(.......................)
                           │
                           ├──── Chanel 4 ──────►    Gate camera IP address(.......................)
                           │
                           ├──── Chanel 5 ──────►    Gate camera IP address(.......................)
                           │
                           ├──── Chanel 6 ──────►    Gate camera IP address(.......................)
                           │
                           ├──── Chanel 7 ──────►    Gate camera IP address(.......................)
 ┌──────────────────┐      │
 │ Security Camera  │─IP──►├──── Chanel 8 ──────►    Gate camera IP address(.......................)
 │      NVR         │      │
 └──────────────────┘      ├──── Chanel 9 ──────►    Gate camera IP address(.......................)
                           │
                           ├──── Chanel 10 ─────►    Gate camera IP address(.......................)
                           │
                           ├──── Chanel 11 ─────►    Gate camera IP address(.......................)
                           │
                           ├──── Chanel 12 ─────►    Gate camera IP address(.......................)
                           │
                           ├──── Chanel 13 ─────►    Gate camera IP address(.......................)
                           │
                           ├──── Chanel 14 ─────►    Gate camera IP address(.......................)
                           │
                           ├──── Chanel 15 ─────►    Gate camera IP address(.......................)
                           │
                           └──── Chanel 16 ─────►    Gate camera IP address(.......................)
```

Multi-room
Audio System