**Network Blocks and Connections (with Redistribution Roles)**

**RIP**

* **Router 0**:
  + Connected to **Switch 0** (Network A).
    - Switch 0 connects to:
      * **Laptop 0**
      * **Laptop 1**
  + Connected to **Router 1** and **Router 2**.
* **Router 1**:
  + Connected to **Switch 1** (Network B).
    - Switch 1 connects to:
      * **Laptop 2**
      * **Laptop 3**
  + Connected to **Switch 2** (Network C).
    - Switch 2 connects to:
      * **PC 2**
      * **PC 3**
      * **Mail Server**
  + Connected to **Router 0**, **Router 3**.
* **Router 2**:
  + Connected to **Router 0** and **Router 3**.
* **Router 3**:
  + Connected to **Router 1** , **Router 2** and **Router 4**.
* **Router 4**:  
  **(Redistribution Router between RIP and OSPF Area 1)**
  + Connected to **Router 3**, and **Router 5**.

**OSPF Area 1**

* **Router 5**:
  + Connected to **Router 4** and **Router 6**.
* **Router 6**:
  + Connected to **Router 5, 7** and **Router 8**.
* **Router 7**:
  + Connected to **Router 6**, **Router 9**, and **Switch 3** (Network D).
    - Switch 3 connects to:
      * **PC 4**
      * **CopyLaptop 1**
* **Router 8 (NAT)** :
  + Connected to **Access Point 2** (Network E).
    - Access Point 2 connects to:
      * **Tablet PC 4**
      * **Tablet PC 5**
      * **Smartphone 2**
  + Connected to **Router 6,9** and **Router 10**.
* **Router 9**:
  + Connected to **Router 7,8** ,10 and **Switch 4** (Network F).
    - Switch 4 connects to:
      * **CopyPC 4**
      * **CopyCopyLaptop 1**
* **Router 10**:  
  **(Redistribution Router between OSPF Area 1 and EIGRP)**
  + Connected to:
    - **Router 8**
    - **Router 9**
    - **Router 11**

**EIGRP**

* **Router 11**:
  + Connected to **Router 10, 12,13** and **Router 18**.
* **Router 12**:
  + Connected to **Access Point 1** (Network G).
    - Access Point 1 connects to:
      * **Smartphone 3**
  + Connected to:
    - **Router 11**
* **Router 13**:
  + Connected to:
    - **Router 11**
    - **Switch 5** (Network H).
      * Switch 5 connects to:
        + **Server 1**
    - **Switch 6** (Network I).
      * Switch 6 connects to:
        + **PC5**
        + **PC6**
* **Router 18**:  
  **(Redistribution Router between EIGRP and OSPF Area 2)**
  + Connected to:
    - **Router 11,17**

**OSPF Area 2**

* **Router 14**:
  + Connected to **Switch 7** (Network K).
    - Switch 7 connects to:
      * **PC 7**
      * **PC 8**
      * **DHCP Server**
  + Connected to:
    - **Router 15**
    - **NAT-Router 16**
* **Router 15**:
  + Connected to:
    - **Router 14**
    - **Nat-Router 16**
    - **Router 17**
* **Router 16**:
  + Acts as **NAT Router**.
  + Connected to:
    - **Router 14**
    - **Router 15**
    - **Router 17**
  + Connected to **Access Point 0** (Network J).
    - Access Point 2 connects to:
      * **Smartphone 5**
      * **Smartphone 4**
* **Router 17**:
  + Connected to:
    - **Router 15**
    - **Router 16**
    - **Router 18**

**Key Devices and Servers**

* **Mail Server**:
  + Connected to **Switch 2** (Network C).
    - Switch 2 also connects to:
      * **PC 2**
      * **PC 3**
* **DHCP Server**:
  + Connected to **Switch 7** (Network K).
* **NAT Router**:
  + **Router 16** in OSPF Area 2 and Router 8 in OSPF Area 1