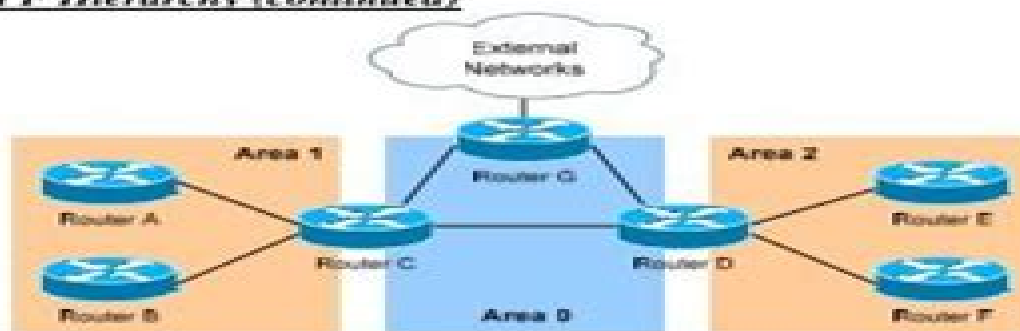


The OSPF Hierarchy (continued)

Now consider the above example. Router G has been added, which belongs to Area 0. However, Router G also has a connection to the Internet, which is outside this Autonomous System.

This makes Router G an **Autonomous System Border Router (ASBR)**. A router can become an ASBR in one of two ways:

- By connecting to a separate Autonomous System, such as the Internet
- By redistributing another routing protocol into the OSPF process.

ASBRs provide access to *external* networks. OSPF defines two “types” of external routes:

- **Type 2 (E2)** – Includes only the external cost to the destination network. External cost is the metric being advertised from outside the OSPF domain. This is the default type assigned to external routes.
- **Type 1 (E1)** – Includes both the external cost, and the internal cost to reach the ASBR, to determine the total metric to reach the destination network. Type 1 routes are always *preferred* over Type 2 routes to the same destination.

Thus, the four separate OSPF router types are as follows:

- **Internal Routers** – all router interfaces belong to only one Area.
- **Area Border Routers (ABRs)** – contains interfaces in at least two separate areas
- **Backbone Routers** – contain at least one interface in Area 0
- **Autonomous System Border Routers (ASBRs)** – contain a connection to a separate Autonomous System

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**Todd Lammle**



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