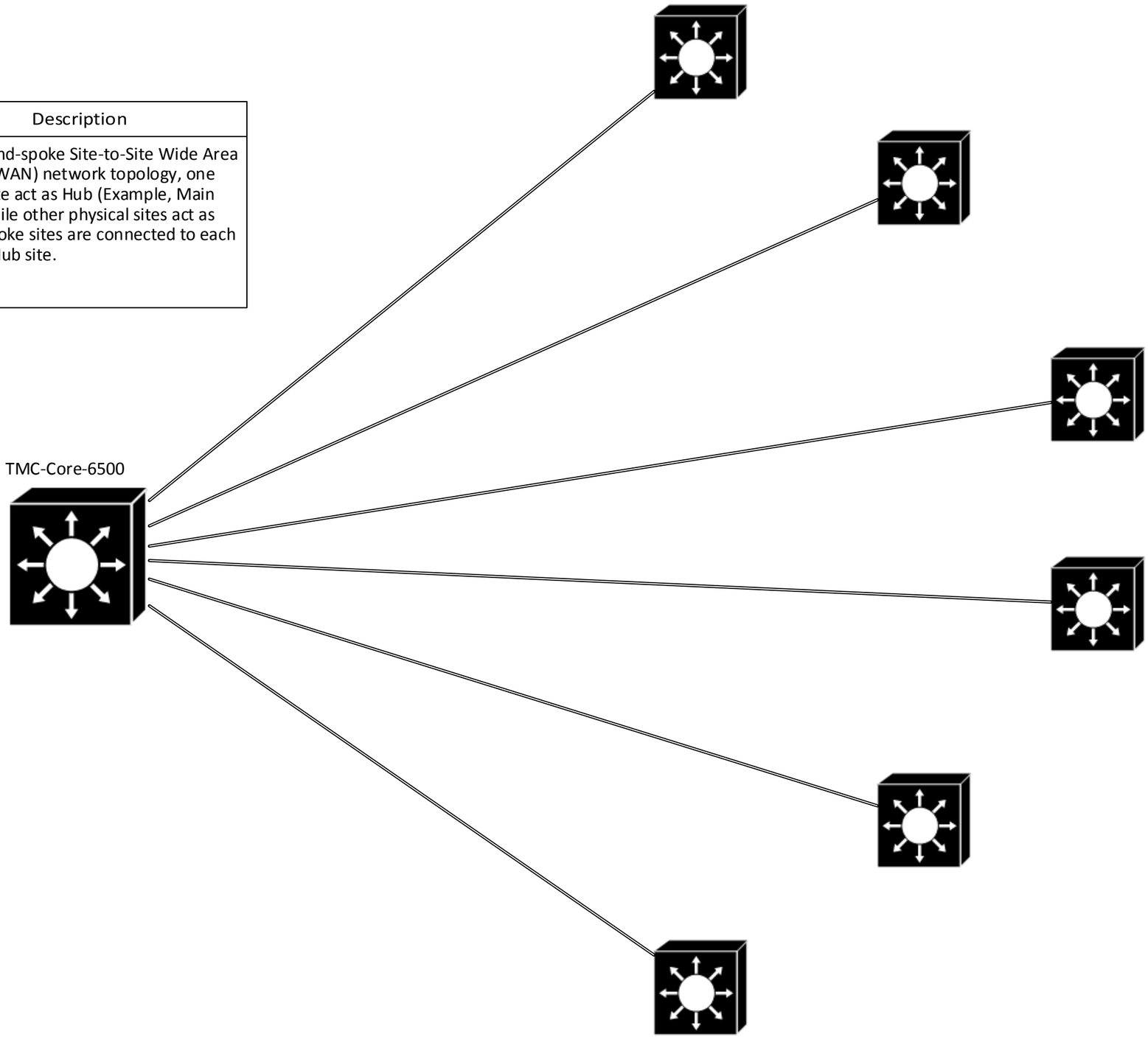
NASSAU COUNTY

DEPARTMENT OF PUBLIC WORKS

TRAFFIC MANAGEMENT CENTER, WESTBURY NY

Description

In a Hub-and-spoke Site-to-Site Wide Area Network (WAN) network topology, one physical site act as Hub (Example, Main Office), while other physical sites act as spokes. Spoke sites are connected to each other via Hub site.



Additional Details

Main disadvantage of Hub-and-spoke Wide Area Network (WAN) network topology is that it may cause communication time lags. Wide Area Network (WAN) network topology also has redundancy issues.

Network Topology Examples	
Traffic Management Center	
Hub and Spoke Topology	P. B. Banaszek
	Drawn By: PBB
Nassau County TMC 1194 Prospect Avenue Westbury, New York 11590	Date: 10/31/2018
	Scale: NOTE TO SCALE
	Revised Date: Revised Date:

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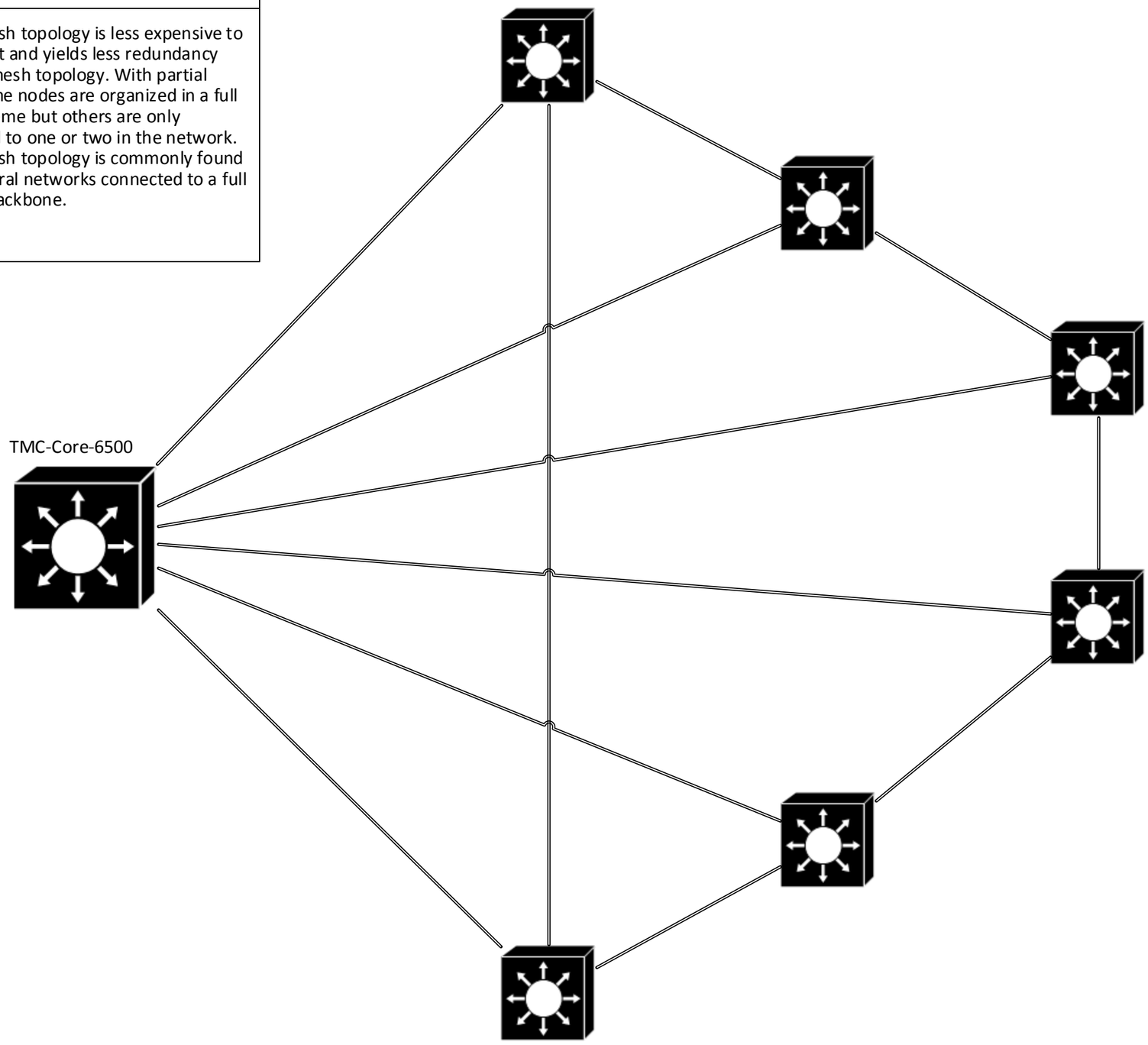
Description

Partial mesh topology is less expensive to implement and yields less redundancy than full mesh topology. With partial mesh, some nodes are organized in a full mesh scheme but others are only connected to one or two in the network. Partial mesh topology is commonly found in peripheral networks connected to a full meshed backbone.



Additional Details

A Partial-mesh Wide Area Network (WAN) topology is more redundant than a Hub-and-spoke Wide Area Network (WAN) topology but less redundant than Full-mesh.

Since A Partial-mesh Wide Area Network (WAN) topology requires more WAN links, Partial-mesh topology is more expensive than a Hub-and-spoke WAN topology, but less expensive than Full-mesh WAN topology.

Network Topology Examples	
Traffic Management Center	
Partial Mesh Topology	P. B. Banaszek
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Nassau County TMC 1194 Prospect Avenue Westbury, New York 11590	Date: 10/31/2018
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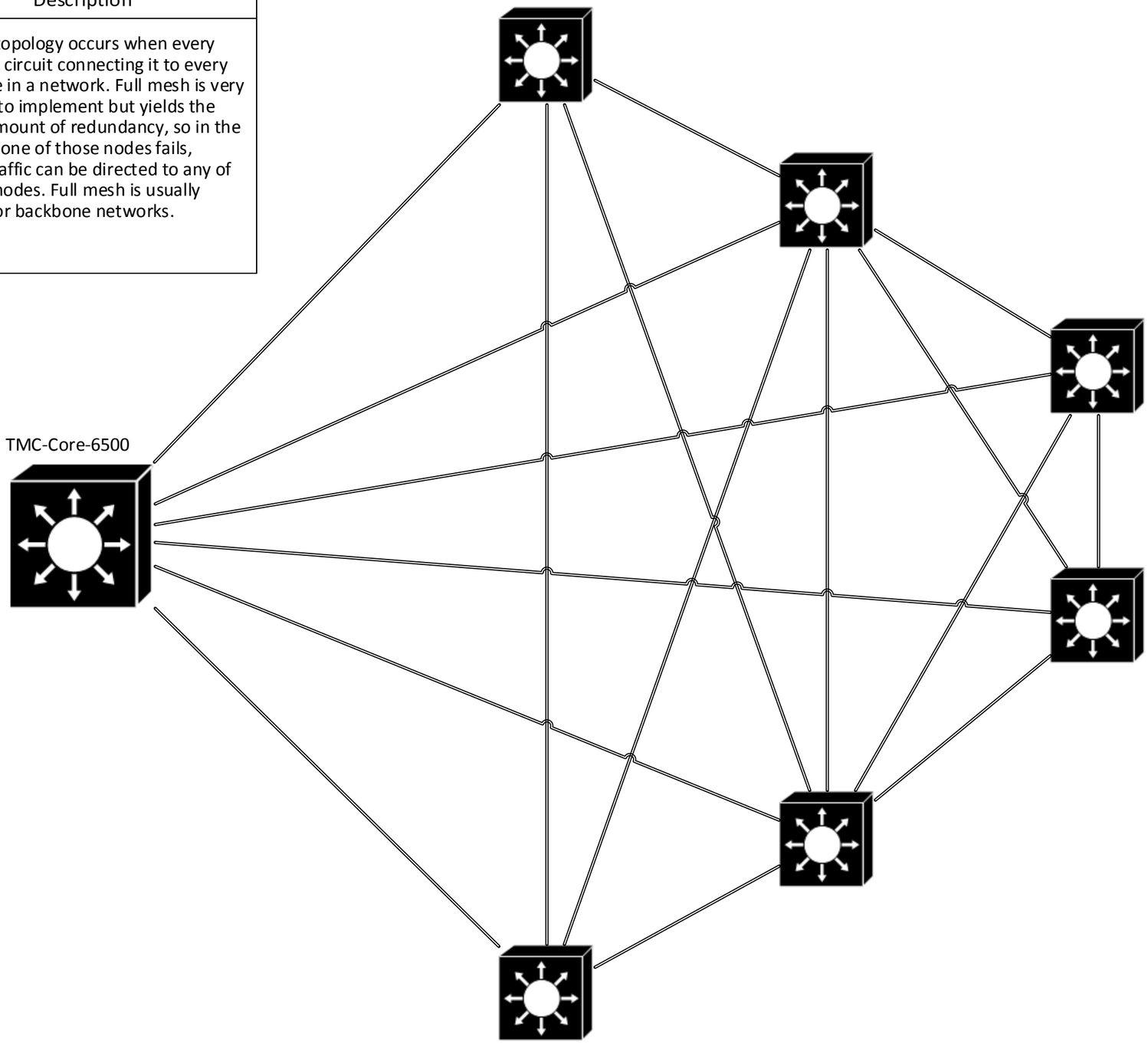
Description

Full mesh topology occurs when every node has a circuit connecting it to every other node in a network. Full mesh is very expensive to implement but yields the greatest amount of redundancy, so in the event that one of those nodes fails, network traffic can be directed to any of the other nodes. Full mesh is usually reserved for backbone networks.



Additional Details

Since all physical sites are connected together, Full-mesh topology is highly redundant. Time lag is least in Full-mesh topology, when comparing Hub-and-spoke and Partial-mesh topologies. A Full-mesh Site-to-Site WAN topology is the most desirable WAN topology.

Network Topology Examples	
Traffic Management Center	
Full Mesh Topology	P. B. Banaszek
	Drawn By: PBB
Nassau County TMC 1194 Prospect Avenue Westbury, New York 11590	Date: 10/31/2018
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