

# Managing System Resources for Shadow Nodes

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Each ASIC hardware type provides different node and queue resources.

Level 1 queues stack directly above the port; level 2 queues stack above a node and the port. The router implicitly creates the level 1 and level 2 queues.

Shadow node queues stack above a port node, a level 1 node, and a shadow node. Therefore, the shadow node queue is at level 3. The router does not implicitly create any nodes for the queues.

You can configure 64,000 level 1 queues using shadow nodes by specifying the group and shadow node rules in the QoS profile. Each level 1 queue is stacked above the port, the group node, and the shadow node; therefore, it requires 64,002 descriptors.

Table 1 lists the number of nodes required to create a queue.

**Table 1: Shadow Node Consumption of Node and Queue Resources**

	Level 1 Queues (at Port)	Level 2 Queues (at Node)	Shadow Node Queue
Required Nodes	3	2	1

- Related Topics**
- Managing System Resources for Nodes and Queues
  - Scaling Subscribers on the TFA ASIC with QoS

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