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(54) **MULTICAST PATH TRACES**

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ABSTRACT

In one embodiment, a device may receive a multicast path trace request for a multicast tree, wherein the device is a mid-node in the multicast tree. The device may perform, based on the device being a mid-node in the multicast tree, an upstream trace of network topology of the multicast tree from the device to a head-node of the multicast tree and a downstream trace of network topology of the multicast tree from the device to at least one tail-node. The device may generate an end-to-end visible topology of the multicast tree based on the upstream trace and the downstream trace. The device may provide the end-to-end visible topology of the multicast tree to an observability manager.

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