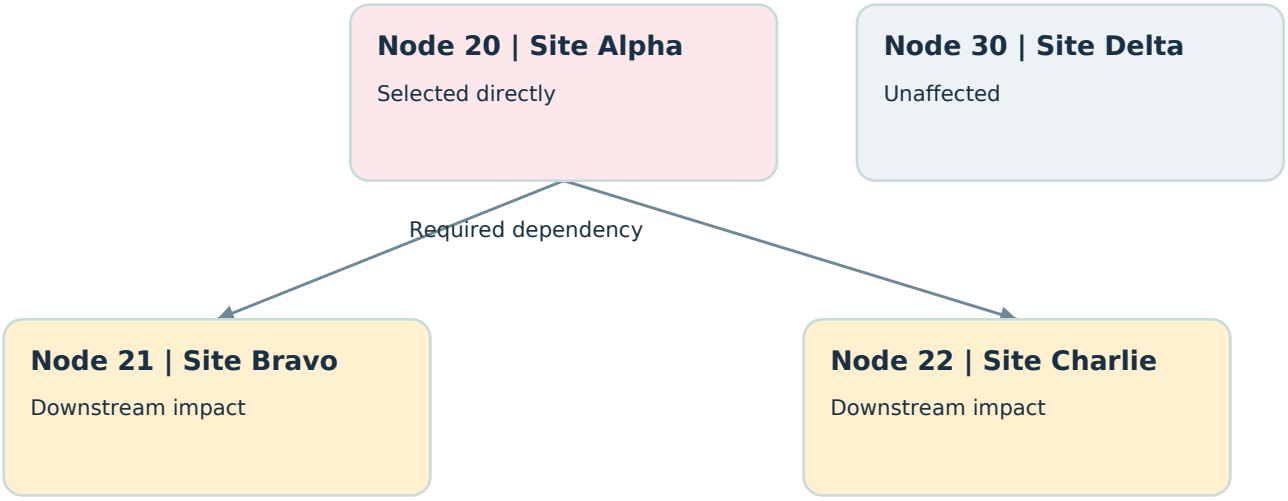
Node Branch Map and Outage Impact

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Network Outage Coordination and Automated Notification System

This planned feature lets the engineer select a node and review the nodes, sites, services, and notification groups predicted to be affected. It uses fictional required dependencies, not live network status.



Pink = selected outage Amber = downstream impact Gray = unaffected

Labels and an affected-node list accompany the colors.

Example | Complete outage at node 20

Node	Site / services	Result
20	Site Alpha / WAN and Voice	Selected directly
21	Site Bravo / WAN	Downstream impact: depends on 20
22	Site Charlie / WAN	Downstream impact: depends on 20
30	Site Delta / WAN	Unaffected: no dependency on 20

Expected internal groups: Operations Alpha and Review Alpha. Expected customer groups: Site Alpha Contacts, Site Bravo Contacts, and Site Charlie Contacts. Site Delta Contacts is excluded. The engineer reviews this audience before submission.

These are impact predictions for a proposed outage. Selecting a node does not change the live network or notify a customer.

How the selection should work

1. Sign in as Network admin and open Create Outage.

2. Read the scope choices, select a node, and choose Product or Complete node/branch outage.

3. For complete outage, follow required dependency links downstream, including deeper levels. Mark the chosen node as direct impact and its dependents as downstream impact.

4. Show the same results in an affected-node/service list. Use labels as well as color. Recalculate when the selected node or scope changes.

5. For a product outage, include the selected service at the selected node only in this first version. Do not assume the whole branch is down.

6. Suggest the groups linked to the affected services, remove duplicates, and let the engineer review the notice.

7. Save the reviewed impact at submission. An approver reviews that saved scope. Approved, site-specific notices become visible only after the internal approval update.

Cases I will check

Selection / change	Expected result
Complete outage at node 20	20 direct; 21/22 downstream; 30 unaffected.
Complete outage at node 21	Only 21 in the base map; neither upstream 20 nor sibling 22.
WAN product at node 21	Node 21 WAN only; not a complete node/branch outage.
Temporary node 23 below node 21	With 20 selected, include 23 once as a multi-level dependent; remove the temporary fixture after this check.
Duplicate or cyclic dependency link	Refuse invalid setup and explain the problem.
Topology edited after submission	Existing submitted impact and notices stay consistent; new drafts use the new configuration.

Limits and terminology

The wider outage option is now defined as Complete node/branch outage (the earlier Entire SSP option). SSP remains a grouping label. The selected node and its dependency branch determine impact; sharing an SSP label alone does not make a node affected.

The map predicts impact from fictional, configured dependencies. It is not live monitoring. The first prototype models required single-parent branches; alternate routes and redundant-path calculations are outside this version.

An SSP filter helps find nodes but cannot exclude affected dependents. Correct missing dependency data before claiming complete coverage.