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(71) Applicant: i2 TECHNOLOGIES, INC. [US/US]; Suite 1600, 909 East Las Colinas, Irving, TX 75039 (US).

(72) Inventors: CRAFWORD, James, M., Jr.; 2024 Hugo Court, Flower Mound, TX 75028 (US). KENNEDY, Brian, M.; 136 Rustic Meadow Way, Coppell, TX 75019 (US). HOGGE, John, C.; 14332 Montfort Drive #16206, Dallas, TX 75240 (US).

(74) Agent: MEEK, Kevin, J.; Baker & Botts, L.L.P., 2001 Ross Avenue, Dallas, TX 75201–2980 (US).

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(54) Title: SYSTEM FOR OPTIMIZING A NETWORK PLAN AND METHOD OF OPERATION

(57) Abstract

A system is provided for optimizing a network plan. The system includes a memory which stores information specifying a network plan, a plurality of constraints, and a plurality of interaction coefficients. Each interaction coefficient corresponds to particular constraint. A processor is coupled to the memory. The processor is operable to determine whether the network plan violates any of the constraints, modify the network plan in order to resolve a violation of any constraint, and update a corresponding interaction coefficient in order to reflect an impact upon the network plan caused by the resolution of a violation.