



US 20240214305A1

(19) **United States**

(12) **Patent Application Publication**
Tschirhart

(10) **Pub. No.: US 2024/0214305 A1**

(43) **Pub. Date: Jun. 27, 2024**

(54) **CARRIER IDENTIFICATION CODE
DELIVERY TO AN EGRESS NETWORK OF A
TELECOMMUNICATIONS NETWORK**

H04L 65/1023 (2006.01)

H04L 65/1069 (2006.01)

H04L 65/1104 (2006.01)

H04L 69/22 (2006.01)

H04L 101/385 (2006.01)

(71) Applicant: **Level 3 Communications, LLC,**
Denver, CO (US)

(52) **U.S. Cl.**

CPC *H04L 45/245* (2013.01); *H04J 3/00*
(2013.01); *H04L 65/1026* (2013.01); *H04L*

65/1069 (2013.01); *H04L 65/1104* (2022.05);

H04L 69/22 (2013.01); *H04L 2101/385*

(2022.05)

(72) Inventor: **David A. Tschirhart,** Dale, TX (US)

(73) Assignee: **Level 3 Communications, LLC,**
Denver, CO (US)

(21) Appl. No.: **18/598,681**

(22) Filed: **Mar. 7, 2024**

(57)

ABSTRACT

Related U.S. Application Data

(63) Continuation of application No. 17/557,743, filed on Dec. 21, 2021, now Pat. No. 11,929,918, which is a continuation of application No. 15/385,635, filed on Dec. 20, 2016, now Pat. No. 11,233,728.

(60) Provisional application No. 62/414,442, filed on Oct. 28, 2016.

Publication Classification

(51) **Int. Cl.**

H04L 45/24 (2006.01)

H04J 3/00 (2006.01)

Aspects of the present disclosure involve systems, methods, computer program products, and the like, for utilizing a CIC value field in signaling information of a communication to provide an identification of the ingress network to an egress or receiving network of a long distance telecommunications network. The system and method provides for the provisioning of a signaling CIC for an ingress trunkgroup or network to a telecommunications network for downstream signaling purposes by overriding a received CIC value with a provisioned CIC value specific to the ingress network. This provisioned CIC value identifies the ingress network to the long distance network to the egress network for use by the egress network.

