US007599359B1

(12) **United States Patent**
Croak et al.

(10) **Patent No.: US 7,599,359 B1**
(45) **Date of Patent: Oct. 6, 2009**

(54) **METHOD AND APPARATUS FOR MONITORING END-TO-END PERFORMANCE IN A NETWORK**

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(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 1047 days.

(21) Appl. No.: **11/011,255**

(22) Filed: **Dec. 14, 2004**

(51) **Int. Cl.**
H04L 12/66 (2006.01)

(52) **U.S. Cl.** **370/356**; 370/252; 370/331; 370/352; 370/401; 382/159; 705/11; 709/224; 709/230

(58) **Field of Classification Search** 370/356, 370/252, 331, 352, 401; 379/134; 703/2; 382/159; 705/11; 709/224, 230
See application file for complete search history.

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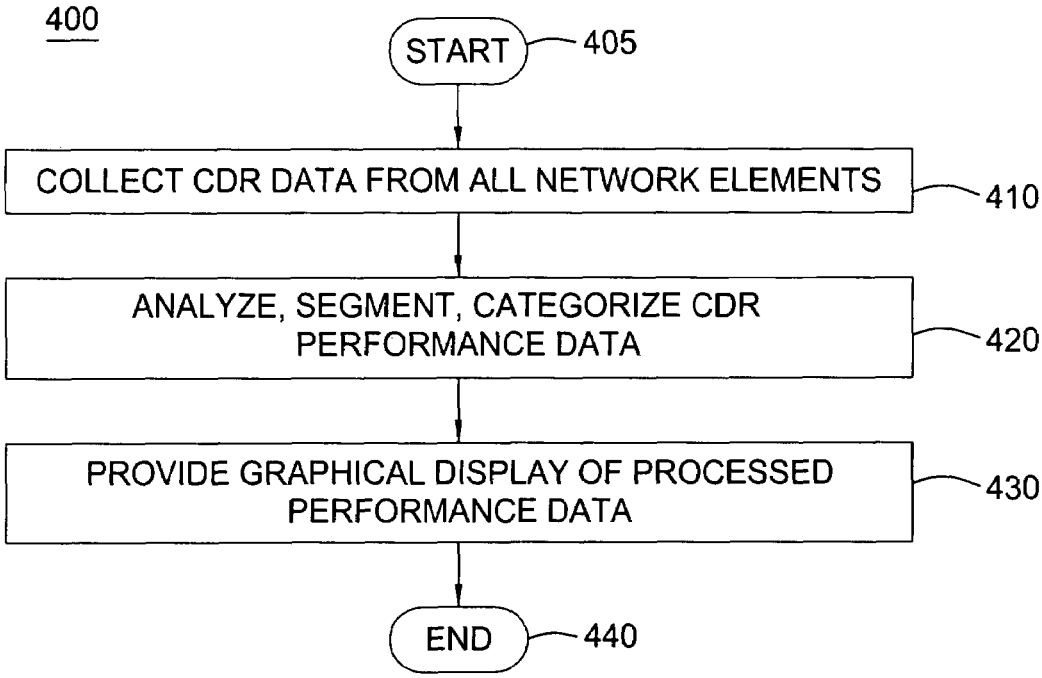
(57) **ABSTRACT**

The present invention enables edge components, such as Border Elements, of the service provider's network to capture performance data on all endpoints connected to them including registered devices (e.g., CPE gateways, IP phones, and terminal adaptors) and access links. The present invention enables the performance data to be sent to a centralized repository that consolidates information across the entire network, analyzes it, and segments it with respect to location of events that cause defects in calls. The performance data can then be graphically mapped into predefined network segmentations to enable faster identification and resolution of network problems.

4 Claims, 4 Drawing Sheets