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Leveraging Security and Reliability Management with Advance Data Analytic, A Novel of Big Data application in CBM strategy in EGAT Communication Network.

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Now a day, Power Utility are very interested to apply disruptive technology to their system operation. The target of Technology introduction are improve the system Reliability, cost and risk reduction or predictive asset management in short. Mobile field operation/support, IOT and Big Data are some typical technology which are currently in the main stream of Application interests. This paper presents the Application Advance Analytic to leverage Security and Reliability Management in Egat Communication system network. Our System of Data analytic Architecture base on distributed network has been proposed. The key Principle of this Analytic system are getting, integrating and Analysing machine data which has been send from all network equipment. The Analytic results shown the historical data/information inside the equipment asset that impact to security and Reliability such as accessing history, Configuration changing and temperature rising. To reduce the latency due to huge volume of Data and to improve analytic system reliability, Hadoop eco system which manage Data in the Distributed file system as well as map reduce are introduced. For visualization, The asset health concept which has been design to indicate all equipment performance and risk. Base on our proposed system, communication service of power utility shall leverage the maintenance strategy from reactive to predictive/condition basis.

Key words: Communication system, Security and Reliability Data Analytic