

Abstract

This report explores the concept of a Virtual Network Operations Center (VNOC) within the metaverse, aiming to revolutionize network management and monitoring. Building traditional Network Operations Centers (NOCs), a VNOC leverages virtual environments to enhance real-time monitoring, incident management, and network optimization. The report discusses the integration of virtual reality technologies with existing NOC functionalities, such as 24/7 monitoring, security monitoring, and network performance analysis. It outlines how a VNOC can improve operational efficiency, enhance security, and provide immersive experiences for network professionals.