第26部

ネットワーク管理とセキュリティ

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第 1 章　Introduction

The WIDE-Netman-WG has been carrying out research and development to make the Internet more manageable and secure. The current focus is on monitoring and control of mobile devices, mobile networks and the network infrastructure to support mobility. Following the Management Information Base (MIB) modules for the Mobile IPv6 (MIPv6) protocol and the Network Mobility (NeMo) protocol, the WG has worked on the Management Information Base module for the Proxy Mobile IPv6 (PMIPv6) protocol. The WG, based on operational and implementation experience in network monitoring and management, reviews the statistics that are widely measured and used. The issues related to accuracy, performance and operations are examined.

第 2 章　Back to the basics- the classical problem of measuring bandwidth utilization.

Back to the basics- measuring the bandwidth utilization statistic. One of the most widely observed statistics in everyday network monitoring and management is bandwidth utilization (traffic). A closer look at the this statistic reveals a host of issues related to accuracy, performance and operations. This work is ongoing.

第 3 章　PMIPv6-MIB: A MIB module for Proxy MobileIPv6

Network-based mobility management protocol enables IP mobility for a host without requiring its participation in any mobility related signaling. This protocol is referred to as Proxy Mobile IPv6 (PMIPv6). The WG defined a MIB module, the PMIPv6-MIB, to monitor and control the mobile access gateway (MAG) and the local mobility anchor (LMA) functions of a Proxy Mobile IPv6 (PMIPv6) entity. The WG has also defined Mobile IPv6 Textual Conventions MIB module containing Textual Conventions to represent commonly used Proxy Mobile-IPv6 management information. This document [93] is now in the final stage awaiting publication as RFC 6475.

(Please refer wide-paper-netman-pmip6-mib-draft-02.txt) [http://www.ietf.org/id/draft-ietf-netlmm-pmipv6-mib-08.txt]

第 4 章　The Great East Japan Earthquake and Tsunami disaster and the WIDE-netman-WG

Several of the members of the WG were in the affected area during and after the earthquake and as such had first hand experience of the disaster and its aftermath. Their involvement and experience in the volunteer activities has made an impact on their thinking about the network and its management. The WG now better appreciates the necessity of quick and easy recovery of network operations, and sustained operations under

frugal circumstances, e.g, limited electric power supply.

第 5 章　Plans for 2012.

The WIDE-Netman-WG will continue the investigation on data collection on a large scale and from small devices. The WG will be looking at frameworks for more robust network monitoring and management, particularly frameworks that auto-generate management configurations and help in making information networks more frugal and eco-firendly.

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