## 要旨

アドレスを変動させる通信アーキテクチャへの OTP 認証を用 いたアドレス生成手法の適用

## 小松 佐典

IPv4 から IPv6 への移行に伴う, 通信プロトコルの刷新を機に, それまでに顕在化した問題を解決するために多くの通信アーキテクチャが提案されている. その一つにアドレスを変動させて通信の安全性を高める通信アーキテクチャがあるしかし, 先行方式では安全性の面で問題があり, 改良の余地がある.

本研究では, 先行方式のアドレス生成の処理にワンタイムパスワード認証方式の中でも低処理負荷な SAS-2 認証方式を適用した方法を提案し, 先行方式と安全性を比較評価した. その結果, 先行方式よりも高い安全性を確保できた.

**キーワード** IPv6, SAS-2, セキュリティ

## Abstract

Application of the address generation method using OTP authentication to communication architecture to use changeable address

## Komatsu, Sasuke

Opportunity to accompany the transition to IPv6 from IPv4, the renewal of the communication protocol, in order to solve the problem that was not up to it, a lot of communication architecture has been proposed. There is a communication architecture to increase the safety of the communication address varying one of them. However, the prior method has a problem in terms of safety, therefore room for improvement.

In this paper, we have proposed a method of applying an authentication method SAS-2 low processing load among the one-time password authentication processing of the prior system address generation. And I was to evaluate safety and compare the preceding method. As a result, I was able to secure a high level of safety than the preceding method.

key words IPv6, SAS-2, Security