Category: Secure Communication

# **Short Message Protocol – SMP**

## Abstract

The Short Message Protocol (SMP) is a protocol to facilitate the secure saving and retrieval of short messages on a server, accessed via secure log-on based on a set of whitelisted user credentials.

## 1. Introduction

### 1.1 Purpose

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### 1.2 Terminology

## 2. Functionality

### 2.1 Log-on

System log-on should be facilitated by verifying username and password combinations, transferred to the server for authentication using SSL. Usernames and passwords should be a maximum of 256 bytes each. Only valid ASCII characters should be permitted. The following is an example log-on request in plain text. The maximum size of a LOGON request message is 519 bytes. 5 bytes are allocated to the LOGON prefix, 1 byte allocated to the following space, 256 bytes maximum for the username, 1 byte allocated to the following space, and finally 256 bytes maximum for the password.

LOGON UsernameDemonstration PasswordDemonstration

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **5 Bytes** | **1 Byte** | **256 Bytes** | **1 Byte** | **256 Bytes** |
| LOGON | Blank space (ASCII 255) | Username | Blank space (ASCII 255) | Password |

After the LOGON bytes have been read, the server should recognize that it is a log-on message, if the messages total number of bytes exceeds 519 the message should be discarded without authentication being performed and the response “ERR01 – INVALID MESSAGE FORMAT” should be sent.

#### 2.1.1 Error Table

|  |  |  |
| --- | --- | --- |
| **Code** | **Error Message** | **Description** |
| 01 | ERR01 – INVALID MESSAGE FORMAT | Returned when a message is detected as being of type LOGON, but the message contains a greater number of bytes (>519) than is permitted. |
| 02 | ERR02 – WRONG USERNAME/PASSWORD | Returned when user authentication fails due to an invalid username/password combination. |

### 2.2 Short Message Upload

SENDMSG

### 2.3 Message Download

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### 2.4 Log-off

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