

# SMPP How to guide

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## Overview

Swivel supports the use of the Short Message Peer-to-Peer (SMPP) protocol for authentication. This document outlines how to configure the Swivel server for SMPP authentication.

## Prerequisites

Swivel 3.6 or higher

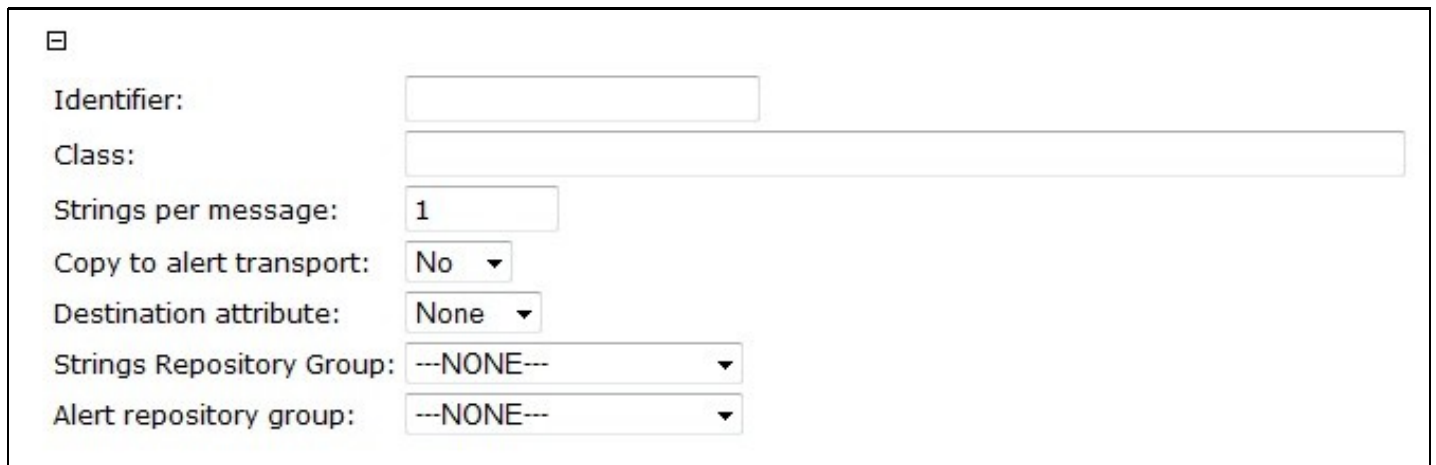
## Baseline

Swivel 3.6 has been tested against SMPP version 3.4

## Swivel Configuration

### Transport General Configuration

On the Swivel Administration Console select Transport then General, and click on New Entry.



The screenshot shows a configuration form with the following fields:

- Identifier:
- Class:
- Strings per message:
- Copy to alert transport:
- Destination attribute:
- Strings Repository Group:
- Alert repository group:

Enter the required information for the Transport as below;

For the setting values see [Transport Settings](#)

**Identifier:** SMPP

**Class:** com.swiveltechnologies.pinsafe.server.transport.SMPPTtransport

**Strings per message:** 1

**Copy to alert transport:** No

**Destination attribute:** phone

**Strings Repository Group:** PINsafeUsers (or other required group, can only have one transport entry for Strings Repository Group)

**Alert repository group:** PINsafeUsers (or other required group, can only have one transport entry for Alert repository group)

✖

Identifier:	<input type="text" value="SMPP"/>
Class:	<input type="text" value="com.swiveltechnologies.pinsafe.server.transport.SMPPTransport"/>
Strings per message:	<input type="text" value="1"/>
Copy to alert transport:	<input type="text" value="No"/>
Destination attribute:	<input type="text" value="phone"/>
Strings Repository Group:	<input type="text" value="PINsafeUsers"/>
Alert repository group:	<input type="text" value="PINsafeUsers"/>

When complete click Apply to save the settings, and a new entry should appear under Transport in the Administration console which can be edited as below.

## Transport SMPP Configuration

Click on the name of the Identifier created above, located under Transport. The following will need to be configured.

**Server:** IP or Hostname of the SMPP server

**Port:** Port used by the SMPP server, default 2775

**System Type:** SMPP type, default pcsms

**Username:** SMPP server username (you are not allowed an e-mail address in the Username field)

**Password:** SMPP server password

**Source Address:**

**Source TON:** default 5 (see below)

**Source NPI:** default 0 (see below)

**Destination TON:** default 1 (see below)

**Destination NPI:** default 0 (see below)

**Keep Alive:** default No, Options Yes/No

**Keep Alive Time:** default 30000

### TON settings

Unknown = 0

International = 1

National = 2

Network Specific = 3

Subscriber Number = 4

Alphanumeric = 5

Abbreviated = 6

### NPI settings

Unknown = 0

ISDN/telephone numbering plan (E163/E164) = 1

Data numbering plan (X.121) = 3

Telex numbering plan (F.69) = 4

Land Mobile (E.212) =6

National numbering plan = 8

Private numbering plan = 9

ERMES numbering plan (ETSI DE/PS 3 01-3) = 10

Internet (IP) = 13

WAP Client Id (to be defined by WAP Forum) = 18

## **Testing**

## **Known Issues**

## **Troubleshooting**

## **Error Messages**

**Exception while processing message: ie.omk.smpp.message.InvalidParameterValueException: Bad service type**

The SMPP SYSTEM TYPE is invalid, try with the default pcsms