

## 3 ESME Application Configuration

### 3.1 Smpp.xml

The main task in manipulating our ESME is by ensuring that configurations in the smpp.xml are correct. It can be found at the \$WILDFLY\_HOME/standalone/deployments/ESME.war/WEB-INF/classes/smpp.xml. A sample [smpp.xml](#) is attached here.

In order to create a successful binding with the SMSC (Short Message Service Centre), first make sure that following tags are configured correctly at both sides.

1. **smsc id** - unique smsc id
2. **IP address** – ip address of SMSC
3. **port** - smpp port
4. **System-id** - Identifies the ESME system requesting to bind as a transceiver with the SMSC
5. **Password** - As per the smpp standard, the password should be less than 9 characters.

We can get more ideas about this in the [Smpp 3.4 Documentation](#). After making the initial configurations, we can proceed with the others.

6. **Bind mode** - The bind mode can be t, r, or tr for transmitter, receiver or transceiver respectively.
7. **Registereddelivery** - whether we need delivery receipt from smsc or not. The default setting of the registered\_delivery parameter is 0x00.

```
<REGISTERED-DELIVERY>1</REGISTERED-DELIVERY>
```

1 → need delivery receipt                      0 → no delivery receipt

8. **Interface-version** - should be equal to ascii value of the smpp version, current smpp version 3.4 ~ 4.
9. **Npi & Ton values** - the set of TON (Type of Number) & NPI (Numbering Plan Indicator) values.

```
<sourceAddrTon>0</sourceAddrTon>
```

```
<sourceAddrNpi>0</sourceAddrNpi>
```

```
<destAddrTon>0</destAddrTon>
```

```
<destAddrNpi>0</destAddrNpi>
```

**5 → Alphanumeric** [address is alphanumeric, like a word with numbers]