



OmniMessage SMPP -

1.0.0
?

SMPP

OmniMessage SMPP OmniMessage
SMPP SMS

OmniMessage REST API OmniMessage Diameter MAP
IMS OmniMessage

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- SMPP SMS
-
-
- Prometheus
-
- OmniMessage

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- SMPP
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?

1. https://your-server:8087
2. SMPP →
3. [CONFIGURATION.md](#)
4. [MONITORING.md](#)

- [SMPP](#) [OmniMessage](#) [REST API](#)
- [API](#) [OmniMessage](#) [SMPP PDU](#)
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[OmniMessage](#)

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- [OmniMessage](#)
- [OmniMessage](#)

OmniMessage REST API

[REST API](#) [OmniMessage Core](#)

[OmniMessage](#)

```
config :omnimessage_smpp,
  api_base_url: "https://omnimessage-core.example.com:8443"
```

[API](#)

- GET /api/message_queue?destination_smsc=<bind_name> - [OmniMessage](#)
- PUT /api/messages/<id>/delivery_status - [OmniMessage](#)
- GET /api/system/health - [OmniMessage](#)

[OmniMessage](#)

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[OmniMessage](#)

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- [OPERATIONS.md](#) - [OmniMessage](#)

- [TROUBLESHOOTING.md](#) - ? ? ? ? ? ? ? ?
- [GLOSSARY.md](#) - ? ? ? ? ?

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- **URL**? https://your-server:8087
- ? ? ?
 - ? ? SMPP ? ? ? ?
 - ? ? ? ? ? ?
 - ? ? ? ? ? ?
 - ? ? SMPP ? ? ?
 - ? ? ? ?

Prometheus ? ?

- **URL**? http://your-server:4000/metrics
- ? ? ? Prometheus ? ? ? ?
- ? ? ? ? Grafana/Prometheus ? ?

API ? ?

- **URL**? ? API_BASE_URL ? ? ?
- ? ? ? ? ? ? ? ? ? ? ?

? ? ? ?

? ? ? ?

```

? ? ? ? ? ? ? ? ? ? / ? ?
? ? ? ? systemctl start omnimessage-smpp
? ? ? ? systemctl stop omnimessage-smpp
? ? ? ? systemctl restart omnimessage-smpp
? ? ? ? journalctl -u omnimessage-smpp -f
? ? ? ? ? ? ? ? ? ? UI → SMPP → ? ? ? ?
? ? ? ? curl http://localhost:4000/metrics
? ? ? ? /opt/omnimessage-smpp/config/runtime.exs

```

? ? ? ?

```

? ?
/opt/omnimessage-smpp/config/runtime.exs
/opt/omnimessage-smpp/priv/cert/
/var/log/omnimessage-smpp/

? ?
? ? ? ?
SSL ? ? ? ?
? ? ? ?

```




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```
import Config

#  ?  ?  ?  ?
config :omnimessage_smpp,
  setting_name: value

# SMPP  ?  ?
config :omnimessage_smpp, :binds, [
  %{
    name: "bind_name",
    # ...  ?  ?  ?  ?
  }
]
```



```
config :omnimessage_smpp,  
  api base url: "https://omnimessage-core.example.com:8443"
```

 OmniMessage Core
  URL
  REST API
  OmniMessage
 







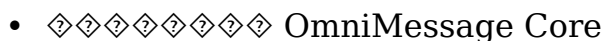
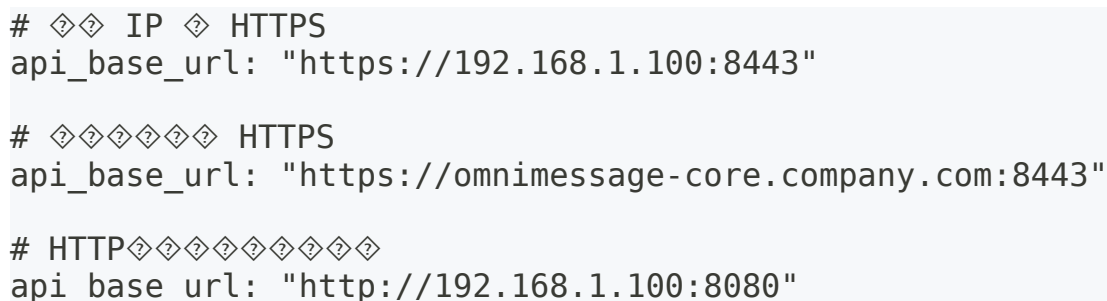







- [illegible]

- ❓❓❓❓❓ SMPP ↔ OmniMessage ❓❓❓❓❓❓❓❓



- `verify_ssl_peer` `HTTPS`
- `HTTPS`

SMPP_POLL_INTERVAL

`SMPP_POLL_INTERVAL`

```
config :omnimessage_smpp,
  smpp_poll_interval: 100
```

`smpp_poll_interval` `100`

`SMPP_POLL_INTERVAL`

`SMPP_POLL_INTERVAL`

- **(>100 TPS)** `100-500ms`
- **(10-100 TPS)** `500-1000ms`
- **(<10 TPS)** `1000-2000ms`

`SMPP_POLL_INTERVAL`

VERIFY_SSL_PEER

`VERIFY_SSL_PEER`

```
config :omnimessage_smpp,
  verify_ssl_peer: false
```

`verify_ssl_peer` `false`

`VERIFY_SSL_PEER` `API` `SSL`

`VERIFY_SSL_PEER`

- `true`
- `false`

`VERIFY_SSL_PEER`

SMSC_NAME

`SMSC_NAME`

```
config :omnimessage_smpp,
  smsc_name: "smpp_gateway"
```

smsc_name "smpp_gateway"

SMSC_NAME

SMPP

SMPP

```
config :omnimessage_smpp, :binds, [
  %{
    #
    name: "vodafone_uk",

    #
    mode: :client,

    # SMPP
    bind_type: :transceiver,

    # SMPP
    host: "smpp.vodafone.co.uk",
    port: 2775,

    #
    system_id: "your_username",
    password: "your_password",

    #
    tps_limit: 100,

    #
    queue_check_frequency: 1000
  }
]
```

name

?? ? ? ?
?? ? ? "vodafone_uk"

?? ? ? ? ? SMPP ? ? ?

- ? ? ? ? ? ? ?
- ? ? ? ? ? ? ? ? ? ?
- ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ?

?? ? ? ? ?

- carrier_region? "vodafone_uk"? "att_us"
- purpose_number? "marketing_1"? "alerts_primary"

mode

?? ? ? ?

?? ? ? ? ?
? ? ? :client

?? ? ? ? ? ? ? ? ? ? ? ? ? ?

?? ? ? ? ? ? ? ? ? ? ? ? :client?

bind_type

SMPP ? ? ? ?

?? ? ? ? ? ? ? ? ?
? ? ? :transmitter, :receiver, :transceiver

?? ? ? ? ? ? ? ? ? ? ? ? ? ?

?? ? ?

- :transmitter - ? ? ? ? ? ? submit_sm?
- :receiver - ? ? ? ? ? ? deliver_sm?
- :transceiver - ? ? ? ? ? ? ? ? ? ? ?

?? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? :transceiver?

host

?? ? ? **SMPP** ? ? ? ? ? ? ? ? **IP**

?? ? ? ? ?
"smpp.carrier.com" "10.5.1.100"

SMPP

?

host: "smpp.vodafone.co.uk"
host: "10.20.30.40"
host: "smpp-primary.carrier.net"

port

SMPP

?? ? ? ? ?
2775 1-65535

SMPP TCP

2775

?

port: 2775 #
port: 3000 #

system_id

?

?? ? ? ?
"company_user"

?

-

password

?

?? ? ? ?
"secret_password"

?

???

- ?
- ?
- ?

tps_limit

????

?? ? ? ? ? ? ?
?? ? 100 1-10000

????? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ?

???

- ? ? ? ? ? ? ? ? ? ? 70-80%
- ? ? ? ? / ? ? ? ?
- ? ? ? ? ? ? ? ? ? ?

???

```
tps_limit: 10      # ??
tps_limit: 50      # ???
tps_limit: 100     # ? ? ? ? ? ? ? ?
tps_limit: 1000    # ? ? ? ? ? ? ?
```

???

```
???? = 100 TPS
?? tps_limit = 70-80
?? 20-30 TPS ? ? ?
```

queue_check_frequency

????? ? ? ? ? ? ? ? ? ? ? ?

?? ? ? ? ? ? ?
?? ? 1000 100-10000

????? ?

???

- ? ? ? (>100 TPS) ? 500-1000ms
- ? ? ? ? (10-100 TPS) ? 1000-2000ms
- ? ? ? (<10 TPS) ? 2000-5000ms

???

- ???? = ?????????? API ??
- ???? = ?????????? API ??

Web UI ???

SMPP ???? ??

????? SMPP ??????

????????

```
config :omnimessage_smpp, :server_binds, [  
  %{  
    # ??????  
    name: "partner_acme",  
  
    # ??????  
    system_id: "acme_corp",  
    password: "acme_secret",  
  
    # ?????  
    allowed_bind_types: [:transmitter, :receiver, :transceiver],  
  
    # IP ??  
    ip_whitelist: ["192.168.1.0/24", "10.50.1.100"],  
  
    # ???  
    tps_limit: 50,  
  
    # ?????  
    queue_check_frequency: 1000  
  }  
]
```

??????

name

?????

?? ??
???? "partner_acme"

????????

_____/_____

system_id

_____ "acme_corp"

password

_____ "secure_password"

- _____
- _____
- _____

allowed_bind_types

_____ -

```
allowed_bind_types: [:transceiver] # transceiver
allowed_bind_types: [:transmitter, :receiver] # TX RX
allowed_bind_types: [:transmitter, :receiver, :transceiver] #
```

ip_whitelist

?? IP ?

?? ? ? ?
?? ? ? ? [] IP ? CIDR ? ? ?

?? ? ? ? - ? ? ? ? ? IP ? ? ? ?

?? ? ?

- ? IP ? "192.168.1.100" ? ? ? /32 ?
- CIDR ? ? ? "192.168.1.0/24" ? "10.0.0.0/8"
- ? ? ? ["192.168.1.0/24", "10.50.1.100"]

?? ?

```
# ? ? ? IP ? ? ? ? ?  
ip_whitelist: []
```

```
# ? IP  
ip_whitelist: ["203.0.113.50"]
```

```
# ? IP  
ip_whitelist: ["203.0.113.50", "203.0.113.51"]
```

```
# ?  
ip_whitelist: ["192.168.1.0/24"]
```

```
# ?  
ip_whitelist: ["192.168.1.0/24", "10.50.1.100", "10.60.0.0/16"]
```

?? ? ? ?

- /32 - ? IP ? ? ? ? ? IP ? ? ?
- /24 - 256 ? ? ? ? ? 192.168.1.0-255 ?
- /16 - 65,536 ? ? ? ? ? 10.50.0.0-255.255 ?
- /8 - 16,777,216 ? ? ? ? ? 10.0.0.0-255.255.255.255 ?

tps_limit

?? ? ? ? ?

?? ? ? ? ? tps_limit ? - ? ? ? ? deliver_sm ? ? ?

queue_check_frequency

?? ? ? ? ? ?

queue_check_frequency -

Web UI

```
config :omnimessage_smpp, :listen, %{  
  host: "0.0.0.0",  
  port: 2775,  
  max_connections: 100  
}
```

host

IP

"0.0.0.0" "0.0.0.0" "127.0.0.1"

- "0.0.0.0" -
- "127.0.0.1" -
- "192.168.1.10" - IP

port

TCP

2775 1-65535

SMPP

2775

- 
- 
- 








◆◆ **1** ◆◆◆◆◆◆◆◆

```
import Config

config :omnimessage_smpp,
  api_base_url: "https://smcsc.company.com:8443",
  verify_ssl_peer: true,
  smsc_name: "smpp_prod"

config :omnimessage_smpp, :binds, [
  %{
    name: "att_primary",
    mode: :client,
    bind_type: :transceiver,
    host: "smpp.att.com",
    port: 2775,
    system_id: "company_user",
    password: "secure_pass_123",
    tps_limit: 100,
    queue_check_frequency: 1000
  }
]
```

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```
import Config

config :omnimessage_smpp,
  api base url: "https://smcsc.company.com:8443"
```



```

    }
  ]

#  ? ? ? ? ? ? ?
config :omnimessage_smpp, :server_binds, [
  %{
    name: "partner_alpha",
    system_id: "alpha_corp",
    password: "alpha_secret",
    allowed_bind_types: [:transmitter, :receiver, :transceiver],
    ip_whitelist: ["203.0.113.0/24"],
    tps_limit: 50,
    queue_check_frequency: 1000
  },
  %{
    name: "partner_beta",
    system_id: "beta_inc",
    password: "beta_password",
    allowed_bind_types: [:transceiver],
    ip_whitelist: ["198.51.100.50"],
    tps_limit: 25,
    queue_check_frequency: 2000
  }
]

#  ? ? ? ? ?
config :omnimessage_smpp, :listen, %{
  host: "0.0.0.0",
  port: 2775,
  max_connections: 100
}

```

? ? ? ?

? ? ? ? ? ? ? ? ? ? ? ? ? ?

? ? ? ?

```

#  ? ? Elixir  ? ?
/opt/omnimessage-smpp/bin/omnimessage-smpp eval "File.read!('config/
runtime.exs')"

```

? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ?

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```
# ◆◆◆◆◆◆◆◆◆◆
```

```
sudo -u omnimessage-smpp /opt/omnimessage-smpp/bin/omnimessage-smpp  
console
```

◆ Ctrl+C ◆◆◆◆◆

◆◆◆◆◆◆

1. ◆◆◆◆◆◆◆

```
sudo chmod 600 /opt/omnimessage-smpp/config/runtime.exs  
sudo chown omnimessage-smpp:omnimessage-smpp /opt/omnimessage-  
smpp/config/runtime.exs
```

2. ◆◆◆◆◆◆

- ◆◆ 12 ◆◆◆
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- ◆◆◆◆◆◆

3. ◆◆ **IP** ◆◆◆◆

- ◆◆◆◆◆◆◆◆◆◆ ip_whitelist
- ◆◆◆◆◆◆◆◆◆◆◆◆◆◆ []

4. ◆◆ **SSL** ◆◆◆

- ◆◆ verify_ssl_peer: true ◆◆◆◆◆◆◆

5. ◆◆◆◆◆◆◆

- ◆◆◆◆◆◆◆
- ◆◆◆◆◆/◆◆◆◆◆◆◆

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- ◆◆ [MONITORING.md](#) ◆◆◆◆◆◆◆
- ◆◆ [OPERATIONS.md](#) ◆◆◆◆◆
- ◆◆ [TROUBLESHOOTING.md](#) ◆◆◆◆◆◆◆
- ◆◆ [README.md](#) ◆◆◆◆◆



A

API (? ? ? ? ? ? ? ?) ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ?

? ? ? ? Web UI ?

B

? ? SMPP ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ?

? ? ? ? ? ? ? ? SMPP ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ?

? ? ? ? SMPP ? ? ? ? ? ?

- ? ? ? ? ? ? ? ?
- ? ? ? ? ? ? ? ?
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? ? ? ? ? SMPP ? IP ? ? ?

C

CIDR (? ? ? ? ? ?) ? ? ? ? IP ? ? ? ? ? ? ? ? ? ? ? 192.168.1.0/24 ? ? 256 ? IP ? ? ? ?

? ? ? ? ? ? ? ? ? ? ? ? ? SMPP ? ? ? ? ? ? SMPP ? ? ?

? ? ? ? SMPP ? ? ? ? ? ? ? ?

- ? ? ? ? ? ? ? ? ? ?
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- ? ? ? ? ? ? ? ? ? ?

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D

? ? ? ? ? ? ? ? ? ? ? SMPP ? ? ? GSM-7 ? UCS-2 ? ? ?

?? ?

?? ? ? (DLR) ? ? ? ? ? ? ? ? ? ? ? ? ? ? ?

dest_smsc ? ? ? ? ? ? ? ? ? ? ? ? ? ? SMPP ? ? ? ? ? ? ? ?

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E

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ESM ? ? ? ? ? ? ? ? ? ? SMPP ? ? ?

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F

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G

?? SMPP ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ?

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Grafana ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? Prometheus ? ? ?

GSM-7 ? ? SMS ? ? ? 7 ? ? ? ? ? ? ? ? ? ? ? ? ? ? 160 ? ? ? ?

H

HTTP/HTTPS ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ?

I

IP ?

ISDN (? ? ? ? ? ? ? ?) ? ? ? ? ? ? ? ? ? ? ? ? ? ?

J

(? ? ? ?)

K

enquire_link

KPI

L

Prometheus
bind_name="vodafone_uk"

Web UI Phoenix

M

Prometheus

MO

MT

MSISDN

N

NPI SMPP ISDN

O

P

PDU SMPP submit_sm deliver_sm

Prometheus

Q

?? ?

?? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? SMPP ? ? ? ? ? ?

R

?? TPS ?

?? ? ? ? ? ? ? ? ? ? ? SMPP ? ? ? ? ? deliver_sm ? ?

?? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? SMPP ? ? ?

? ?

S

?? ?

?? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? SMPP ? ? ?

SMPP (? ? ? ? ? ? ?) ? ? ? ? ? ? ? ? ? ? SMS ? ? ? ? ? ? ? ? ? ?

SMSC (? ? ? ? ? ? ?) ? ? SMS ? ? ? ? ? ? ? ? ? ? ? ?

SSL/TLS ? ? ? ? ? ? ? ? ? ? ? ? ? ?

Submit_SM ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? SMPP PDU ?

Submit_SM_Resp ? submit_sm ? SMPP ? ? ? ? ? ? ? ? ? ? ? ? ? ?

? ? **ID** ? ? SMPP ? ? ? ? ? ? ? ? ? ?

T

? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ?

TON (? ? ? ?) ? ? ? ? ? ? ? ? ? ? SMPP ? ? ? ? ? ? ? ? ? ? ? ? ? ?

TPS (? ? ? ? ?) ?

?? SMPP ? ? ? ? ? ? ? ? ? ?

?? ? ? ? ? ? ? ? ? ? ? SMPP ? ? ? ? ? submit_sm ? ?

? ?

U

UCS-2 SMS 16 Unicode 70

V

W

Web IP

X

()

Y

()

Z

()

API	
CIDR	
DLR	
GSM	
HTTP	
HTTPS	
IP	
ISDN	
KPI	
MO	

	???	??
MSISDN	???	???
MT	???	
NPI	???	???
PDU	???	???
SMPP	???	???
SMSC	???	???
SMS	???	???
SSL	???	???
TLS	???	???
TON	???	???
TPS	???	???
UCS	???	???
UI	???	
URL	???	???

????

- [README.md](#) - ????
 - [CONFIGURATION.md](#) - ????
 - [OPERATIONS.md](#) - ???
 - [MONITORING.md](#) - ???
 - [TROUBLESHOOTING.md](#) - ???
-



SMPP



SMPP Prometheus

OmniMessage Core

OmniMessage

1. SMPP -
2. OmniMessage API -



URL http://your-server:4000/metrics

Prometheus

localhost



curl http://localhost:4000/metrics



smpp_



smpp_connection_status

Gauge

SMPP



- 1 =
- 0 =



- bind_name - "vodafone_uk"
- mode - "client" "server"
- host -
- port -
- bind_type - SMPP
- system_id - ID



smpp_connection_status{bind_name="vodafone_uk",mode="client",host="smpp.vodafone.co.uk",port="2775",bind_type="transceiver",system_id="user1"}
1



- 0
-
-



smpp_messages_sent_total

Counter

SMPP



connection_status



smpp_messages_sent_total{bind_name="vodafone_uk",mode="client",...} 150234



- /
- /
-

smpp_messages_received_total

Counter

SMPP



connection_status



smpp_messages_received_total{bind_name="partner_acme",mode="server",...} 45123

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- ◆◆◆◆◆◆◆◆
- ◆◆◆◆◆◆◆◆MO◆◆◆◆
- ◆◆◆◆◆◆◆◆◆◆◆◆

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smpp_delivery_failures_total

◆◆◆ Counter
◆◆◆ ◆◆◆◆◆◆◆◆◆◆◆◆◆
◆◆◆ ◆◆

◆◆◆ ◆connection_status◆◆

◆◆◆

smpp_delivery_failures_total{bind_name="vodafone_uk",mode="client",...} 234

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- ◆◆◆◆◆◆◆◆
- ◆◆◆◆◆◆◆◆◆◆◆◆
- ◆◆◆◆◆◆◆◆◆◆◆◆

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success_rate = (messages_sent - delivery_failures) / messages_sent * 100

◆◆◆◆◆◆◆◆

smpp_bind_success_total

◆◆◆ Counter
◆◆◆ ◆◆◆◆◆◆◆◆◆◆◆◆◆
◆◆◆ ◆◆◆◆

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smpp_bind_success_total{bind_name="vodafone_uk",...} 45

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- ◆◆◆◆◆◆◆◆
- ◆◆◆◆◆◆◆◆◆◆◆◆

smpp_bind_failures_total

◆◆◆ Counter
◆◆◆ ◆◆◆◆◆◆◆◆◆◆◆◆◆
◆◆◆ ◆◆◆◆

◆◆◆

smpp_bind_failures_total{bind_name="vodafone_uk",...} 3

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- ◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆
- ◆◆◆◆◆◆◆◆
- ◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆

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smpp_connection_attempts_total

◆◆◆ Counter
◆◆◆ ◆◆◆◆◆◆◆◆◆◆◆◆◆
◆◆◆ ◆◆

◆◆◆

smpp_connection_attempts_total{bind_name="vodafone_uk",...} 48

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- ◆◆◆◆◆◆◆◆
- ◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆

smpp_disconnection_total

◆◆◆ Counter
◆◆◆ ◆◆◆◆◆◆◆◆◆◆◆◆◆
◆◆◆ ◆◆

◆◆◆

smpp_disconnection_total{bind_name="vodafone_uk",...} 3

◆◆◆

- ◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆

- `smpp_uptime_seconds`
- `smpp_uptime_seconds`

`smpp_uptime_seconds`

smpp_uptime_seconds

`smpp_uptime_seconds` Gauge
`smpp_uptime_seconds` SMPP
`smpp_uptime_seconds`

`smpp_uptime_seconds`

`smpp_uptime_seconds{bind_name="vodafone_uk",...} 86400`

`smpp_uptime_seconds`

- `smpp_uptime_seconds`
- `smpp_uptime_seconds`
- `smpp_uptime_seconds`

OmniMessage API

`smpp_uptime_seconds` SMPP
`smpp_uptime_seconds` OmniMessage API

`smpp_uptime_seconds` OmniMessage

- `omnimessage_api_requests_total` - `smpp_uptime_seconds` API
- `omnimessage_api_request_duration_seconds` - `smpp_uptime_seconds` API
- `omnimessage_queue_depth` - `smpp_uptime_seconds` OmniMessage

`smpp_uptime_seconds`

`smpp_uptime_seconds` API

- `"api.*connection refused"` - `smpp_uptime_seconds` OmniMessage
- `"api.*timeout"` - `smpp_uptime_seconds` OmniMessage
- `"api.*http 503"` - `smpp_uptime_seconds` OmniMessage
- `"api.*parse error"` - `smpp_uptime_seconds`

Prometheus

`smpp_uptime_seconds`

`smpp_uptime_seconds`/etc/prometheus/prometheus.yml

```
scrape_configs:
- job_name: 'omnimessage-smpp'
  scrape_interval: 15s
  static_configs:
  - targets: ['your-server:4000']
    labels:
      environment: 'production'
      service: 'omnimessage-smpp'
```

`smpp_uptime_seconds`

```
scrape_configs:
- job_name: 'omnimessage-smpp-instances'
  scrape_interval: 15s
  static_configs:
  - targets:
    - 'smpp-gw-1:4000'
    - 'smpp-gw-2:4000'
    - 'smpp-gw-3:4000'
    labels:
      environment: 'production'
```

`smpp_uptime_seconds`

`smpp_uptime_seconds`

```
scrape_configs:
- job_name: 'omnimessage-smpp-instances'
  file_sd_configs:
  - files:
    - '/etc/prometheus/targets/smpp-*.json'
```

`smpp_uptime_seconds`/etc/prometheus/targets/smpp-production.json

```
[
{
  "targets": ["smpp-gw-1:4000", "smpp-gw-2:4000"],
  "labels": {
    "environment": "production",
    "datacenter": "us-east"
  }
}]
```

Grafana

```

rate(smpp_connection_status{job="omnimessage-smpp"})

Stat
  • < 1
  • == 1

rate(smpp_messages_sent_total{job="omnimessage-smpp"}[5m])

Graph
  {{bind_name}}

100 * (1 - (
  rate(smpp_delivery_failures_total{job="omnimessage-smpp"}[5m])
  /
  rate(smpp_messages_sent_total{job="omnimessage-smpp"}[5m])
))

Gauge
  0-100
  • < 95%
  • 95-98%
  • > 98%

smpp_uptime_seconds{job="omnimessage-smpp"} / 3600

Stat
```


Prometheus

/etc/prometheus/rules/smpp-alerts.yml

```

groups:
- name: smpp_gateway
  interval: 30s
  rules:
    #
    - alert: SMPPConnectionDown
      expr: smpp_connection_status == 0
      for: 2m
      labels:
        severity: critical
      annotations:
        summary: "SMPP{{ $labels.bind_name }}"
        description: "{{ $labels.bind_name }}"

    #
    - alert: SMPPHighFailureRate
      expr: |
        (
          rate(smpp_delivery_failures_total[5m])
          /
          rate(smpp_messages_sent_total[5m])
        ) > 0.05
      for: 5m
      labels:
        severity: warning
      annotations:
        summary: "{{ $labels.bind_name }}"
        description: "{{ $labels.bind_name }} {{ $value | humanizePercentage }}"

    #
    - alert: SMPPEndFailures
      expr: increase(smpp_bind_failures_total[10m]) > 3
      labels:
        severity: warning
      annotations:
        summary: "{{ $labels.bind_name }}"
        description: "{{ $labels.bind_name }} 10 {{ $value }}"
```

```
# SMPPNoTraffic
- alert: SMPPNoTraffic
  expr: rate(smpp_messages_sent_total[10m]) == 0
  for: 30m
  labels:
    severity: warning
  annotations:
    summary: "{{ $labels.bind_name }}"
    description: "{{ $labels.bind_name }}30m"

# SMPPFrequentDisconnections
- alert: SMPPFrequentDisconnections
  expr: increase(smpp_disconnection_total[1h]) > 5
  labels:
    severity: warning
  annotations:
    summary: "{{ $labels.bind_name }}"
    description: "{{ $labels.bind_name }}{{ $value }}"

# OmniMessage API
- alert: OmniMessageAPIUnreachable
  expr: |
    count(count_over_time({job="omnimessage-smpp"} |= "api.*connection refused"[5m])) > 0
  for: 1m
  labels:
    severity: critical
  annotations:
    summary: "OmniMessage API"
    description: "SMPPOmniMessage APIAPI_BASE_URL"

# OmniMessage API
- alert: OmniMessageAPITimeout
  expr: |
    count(count_over_time({job="omnimessage-smpp"} |= "api.*timeout"[5m])) > 5
  for: 2m
  labels:
    severity: warning
  annotations:
    summary: "OmniMessage API"
    description: "APIOmniMessage"

# SMPPNoMessageFlow
- alert: NoMessageFlow
  expr: rate(smpp_messages_sent_total[10m]) == 0 and rate(smpp_messages_received_total[10m]) == 0
  for: 30m
  labels:
    severity: warning
  annotations:
    summary: " - OmniMessage"
    description: "30mOmniMessage API"
```

prometheus.yml

```
rule_files:
- '/etc/prometheus/rules/smpp-alerts.yml'
```

Web

Web UIPrometheus

URL https://your-server:8087

SMPP →

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5.

- API
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◆ ◆ ◆ ◆

??? smpp_connection_status

- $\diamond\diamond 0 = \diamond\diamond\diamond\diamond\diamond\diamond\diamond\diamond\diamond\diamond\diamond\diamond\diamond\diamond\diamond$
- $\diamond\diamond\diamond\diamond = \diamond\diamond\diamond\diamond\diamond$

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◆◆◆ smpp_delivery_failures_total

- $\begin{array}{|c|c|c|} \hline ? & ? & ? \\ \hline \end{array} = \begin{array}{|c|c|c|c|c|c|c|c|c|c|c|c|} \hline ? & ? & ? & ? & ? & ? & ? & ? & ? & ? & ? & ? & ? & ? \\ \hline \end{array}$
- $\begin{array}{|c|c|c|c|c|} \hline ? & ? & ? & ? & ? \\ \hline \end{array} = \begin{array}{|c|c|c|c|c|c|c|} \hline ? & ? & ? & ? & ? & ? & ? \\ \hline \end{array}$

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◆◆◆ smpp_messages_sent_total◆◆

- $\diamond\diamond\diamond\diamond = \diamond\diamond\text{TPS}\diamond\diamond\diamond\diamond\diamond\diamond\diamond\diamond$
- $\diamond\diamond\diamond\diamond\text{API}\diamond\diamond$

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??? smpp_bind_failures_total

- $\diamond \diamond = \diamond \diamond \diamond \diamond \diamond \diamond \diamond \diamond \diamond \diamond$
- $\diamond \diamond \diamond \diamond \diamond \diamond \text{system_id} \diamond \diamond \diamond$

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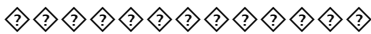
- [CONFIGURATION.md](#) - 🗂🗂🗂🗂🗂
- [OPERATIONS.md](#) - 🗂🗂🗂
- [TROUBLESHOOTING.md](#) - 🗂🗂🗂
- [README.md](#) - 🗂🗂🗂🗂🗂🗂



◆◆ OmniMessage ◆◆◆◆◆

- ## ❖❖ OmniMessage ❖❖❖❖❖

◆ ◆ ◆ ◆



- URL: `https://your-server:8087`
-

[illegible]

3. $\diamond \diamond \diamond \diamond \diamond \diamond$

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4. ? ? ? ? ? ?

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5. ?? Prometheus ??

- curl http://localhost:4000/metrics
- ? ? ? Grafana ? ? ?
- ? ? ? ? ? ? ? ? ? ?

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?? SMPP ??

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SMPP ?

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- ? ? ? /opt/omnimessage-smpp/config/runtime.exs
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- `?? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ?`
- `?? ? ? ? ? ? ? ? ? ? ? ? ?`
- `?? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ?`

`?? ? Web UI ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ?`

`?? ? CONFIGURATION.md ? ? ? ? ? ? ? ? ? ? ? ?`

`?? ? ? ? ? ? ? ? ? ?`

`?? ? ? ? ? ? ? ? ? ? SMPP ? ? ?`

`?? ? ? ? ? ? ? ? ? ? ? ? ?`

- SMPP `?? ? ? ? ? ? /IP`
- `?? ? ? ? ? ? 2775`
- `?? ID ? ? ? ? ?`
- `??`
- `?? ? ? ? ? ? ? ? ? ? ? ? ?`
- TPS `??`

`?? ? ? ? ? ? ? ? ? ?`

`?? A ? ? ? Web UI ? ? ? ?`

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`?? ? ?`

1. `?? ? ? ? ? ? ? ? ? ?`

- `?? Web UI https://your-server:8087`
- `?? ? ? SMPP → ? ? ? ? ? ?`

2. `?? ? ? ? ? ? ?`

- `?? "?? ? ? ? ? ? ? ? ? ? ?"`
- `?? ? ? ? ? ?`
 - `?? ? vodafone_uk ? ? ? ? ? ? ? ?`
 - `?? ? smpp.vodafone.co.uk`
 - `?? ? 2775`
 - `?? ID ? your_username`
 - `?? ? your_password`
 - `?? ? ? ? Transceiver`
 - `TPS ? ? ? 100`
 - `?? ? ? ? ? ? ? 1000`
- `?? ? "?? ?"`

3. 安装配置

- 安装依赖
- 配置 SMPP → 配置
- 配置 10-30 分钟“配置”配置
- 配置

4. 配置

- 配置
- 配置
- 配置
- 配置

安装配置

配置

配置

1. 安装配置

```
sudo nano /opt/omnimessage-smpp/config/runtime.exs
```

2. 配置

```
config :omnimessage_smpp, :binds, [  
  # 配置...  
  
  # 配置  
  %{  
    name: "vodafone_uk",  
    mode: :client,  
    bind_type: :transceiver,  
    host: "smpp.vodafone.co.uk",  
    port: 2775,  
    system_id: "your_username",  
    password: "your_password",  
    tps_limit: 100,  
    queue_check_frequency: 1000  
  }  
]
```

3. 配置

```
# 配置 nano 配置 Ctrl+X, Y, Enter  
  
# 配置
```

```
sudo systemctl restart omnimessage-smpp
```

4. 

-  SMPP → 
- 
-  “”
- 

5. 

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- 







1. 

-  IDpartner_name
- 
- 

2. 

-  IP 
-  TPS 
- 



 **A** **Web UI**





1. 

-  Web UI<https://your-server:8087>
-  SMPP → 

2. 

- `“”`
- `partner_acme`
- `ID` `acme_corp`
- `secure_password_123`
- `IP` `203.0.113.0/24`
- `TPS` `50`
- `1000`
- `“”`

3.

-
-

4.

- `IP`
- `2775`
- `ID` `acme_corp`
- `secure_password_123`
-

5.

- `SMPP` →
-
-
- `IP`

`B`

1.

```
sudo nano /opt/omnimessage-smpp/config/runtime.exs
```

2.

```
# server_binds
config :omnimessage_smpp, :server_binds, [
  # ...
  #
```

```
%{
  name: "partner_acme",
  system_id: "acme_corp",
  password: "secure_password_123",
  allowed_bind_types: [:transmitter, :receiver, :transceiver],
  ip_whitelist: ["203.0.113.0/24"],
  tps_limit: 50,
  queue_check_frequency: 1000
}
]

# 配置omnimessage-smpp
config :omnimessage_smpp, :listen, %{
  host: "0.0.0.0",
  port: 2775,
  max_connections: 100
}
```

3. 配置omnimessage-smpp

```
sudo systemctl restart omnimessage-smpp
```

4. 配置omnimessage-smpp

- 配置IP
- 配置2775
- 配置ID为acme_corp
- 配置secure_password_123
- 配置tps_limit为50

5. 配置omnimessage-smpp

- 配置SMPP →
- 配置
- 配置
- 配置IP

配置omnimessage-smpp

配置TPS为50 IP为203.0.113.0/24

配置omnimessage-smpp

配置A Web UI

配置omnimessage-smpp

配置omnimessage-smpp

1. 1234567

- Web UI https://your-server:8087
- 123456789 SMPP → 1234567
- 123456789 SMPP → 1234567

2. 1234567

- 123456789
- 12 "12" 12
- 123456789
■ 1234567 TPS 1234567 IP 1234567/12
- 12 "12"

3. 123456789

- 1234567891011121314
- 12345678
- 12345 SMPP → 12345678

4. 1234567

- 12345678910111213
- 1234567891011121314
- 12345678910111213

12 B123456789

123456789101112131415161718

123

1. 123456789

```
sudo nano /opt/omnimessage-smpp/config/runtime.exs
```

2. 123456789

- :binds :server_binds 123456789
- 123456789
■ 1234567 TPS 1234567 IP 1234567/12
- 123

```
%{  
  name: "vodafone_uk",  
  # ... 123456  
  tps_limit: 150, # 100 12  
  password: "new_password" # 123456  
}
```

3. ❶❷❸❹❺❻❼❽❾

```
sudo systemctl restart omnimessage-smpp
```

4. ❶❷❸❹❺

- ❶❷❸❹❺ SMPP → ❶❷❸❹
- ❶❷❸❹❺❻❼❽❾❿
- ❶❷❸❹❺❻❼❽❾❿
- ❶❷❸❹❺❻

❶❷❸❹❺

❶❷❸❹❺❻ SMPP ❶❷

❶❷❸

1. ❶❷❸❹❺❻❼❽❾

- ❶❷❸❹❺❻❼❽❾❿
- ❶❷❸❹❺❻

2. ❶❷ **Web UI** ❶❷❸❹❺

- ❶❷❸❹❺ SMPP → ❶❷❸❹
- ❶❷❸❹
- ❶❷ “❶❷❸❹❺”
- ❶❷❸❹

3. ❶❷❸❹❺

- ❶❷❸❹❺ SMPP → ❶❷❸❹❺❻❼❽❾❿
- ❶❷❸❹❺
- ❶❷ “❶❷❸”
- ❶❷❸❹❺

4. ❶❷❸❹❺❻

- ❶❷❸❹❺❻❼❽❾❿ - ❶❷❸❹❺❻
- ❶❷❸❹❺❻❼❽❾❿❿

❶❷❸❹❺❻

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3. ???? ? ? ? ?

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1. ???? ? ? ? ?

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2. ???? ? ? ? ? ?

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- ? ? dest_smsc ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ?
- ? ? deliver_after ? ? ? ? ? ? ? ? ? ?

3. ???? ? ? ? ?

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```
ping -c 3 carrier-smpp-server.com
telnet carrier-smpp-server.com 2775
```

2. ? ? ? ? ? ? ? ?

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- ? ? ? ? SMPP → ? ? ? ?
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- ? ? " ? ? ? ? " ? ?
- ? ? 10-30 ?
- ? ? ? ? ? ? ? ? ? ? " ? ? ? "

5. ? ? ? ? ? ? ? ? ?

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- ? ? ? [TROUBLESHOOTING.md](#)

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- ???/?????
- IP ????????
- ?????/??

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1. ????

- ??? SMPP → ?????
- ????? ID ???
- ?????

2. ?? IP ?????

- ????? IP ?????
- ????? IP ???

3. ??????

- ????????
- ??????
- ??????

4. ?????

- ??????? Web UI ???
- ?? "?????" ?????

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?? **Prometheus** ??

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```
curl http://localhost:4000/metrics | grep smpp_connection_status
```

?????

```
smpp_connection_status{bind_name="vodafone_uk",...} 1
smpp_connection_status{bind_name="att_us",...} 1
```

????? 1?????

4. 配置

- 配置
- 配置 TPS
- 配置

配置

配置

- 配置
- 配置
- 配置

配置

```
# 配置
sudo systemctl status omnimessage-smpp

# 配置
sudo systemctl restart omnimessage-smpp

# 配置
sudo systemctl status omnimessage-smpp

# 配置
sudo journalctl -u omnimessage-smpp -n 50
```

配置 Web UI

1. 配置 30-60
2. 配置 SMPP →
3. 配置 1-2
4. 配置

配置

配置

```
# 配置
sudo cp /opt/omnimessage-smpp/config/runtime.exs \
/opt/omnimessage-smpp/config/runtime.exs.backup.$(date +%Y%m%d)

# 配置
sudo tar -czf /tmp/smpp-certs-$(date +%Y%m%d).tar.gz \
/opt/omnimessage-smpp/priv/cert/
```

配置

```
# 1. 1.1.1.1
sudo cp /opt/omnimessage-smpp/config/runtime.exs.backup.YYYYMMDD \
/opt/omnimessage-smpp/config/runtime.exs

# 1.1.1.1
sudo systemctl restart omnimessage-smpp
```

1.1.1.1

1.1.1.1.1.1

1.1.1

1. 1.1.1.1.1.1

```
sudo systemctl status omnimessage-smpp
```

2. 1.1.1.1.1.1.1.1.1.1

```
sudo systemctl start omnimessage-smpp
```

3. 1.1.1.1.1.1.1.1.1.1.1.1

```
sudo journalctl -u omnimessage-smpp -n 100
```

4. 1.1.1.1.1.1.1.1

- 1.1.1.1.1.1.1.1.1.1
- 1.1 SSL 1.1.1.1.1.1
- 1.1.1.1.1.1.1.1df -h
- 1.1.1.1.1.1free -h

5. 1.1.1.1.1.1.1.1.1.1.1.1

1.1.1.1.1.1.1.1.1.1.1.1.1.1

1.1.1

1. 1.1.1.1.1.1.1.1

- 1.1.1.1 SMPP → 1.1.1.1
- 1.1.1.1.1.1.1.1.1.1
- 1.1 "1.1.1.1"

2. 1.1.1.1.1

- 1.1.1.1.1.1.1.1

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1. ? ? **TPS** ? ? ?

- ? ? ? ? SMPP → ? ? ? ?
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-    Prometheus/Grafana  
-         > 98%

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-        TPS  
-      

- [CONFIGURATION.md](#) -      
- [MONITORING.md](#) -   Prometheus  
- [TROUBLESHOOTING.md](#) -     
- [README.md](#) -    



OmniMessage

SMPP OmniMessage Core OmniMessage

OmniMessage

-
-
- API
- "Connection refused", "Timeout", "HTTP 503", "Connection reset"



1. OmniMessage

```
#   
curl -k -v https://omnimessage-core.example.com:8443/api/system/  
health
```

```
#   
ssh gateway-server 'curl -k https://omnimessage-  
core.example.com:8443/api/system/health'
```

2. API URL

```
#   
grep -A1 'api_base_url' /opt/omnimessage-smpp/config/runtime.exs
```

```
#   
ping omnimessage-core.example.com  
nc -zv omnimessage-core.example.com 8443
```

3. API

```
#  API   
sudo journalctl -u omnimessage-smpp -f | grep -i  
'api\|omnimessage\|connect'
```

```
# 
```

```
sudo journalctl -u omnimessage-smpp -n 200 | grep -i error
```





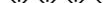

❖❖ OmniMessage ❖❖❖

- ```

1. ?? OmniMessage ? ? ? ?
2. ? ? ? ? ? ? ? ? ? ?
3. ? ? ? ? ? ? ? ? ? SMPP_POLL_INTERVAL ?
4. ?? OmniMessage ? ? ? ? ? ? ?

```

## ❖❖ OmniMessage ❖❖❖❖❖❖❖❖❖❖❖❖❖

1.  HTTPS
2.  DNS  nslookup omnimessage-core.example.com
3.   traceroute omnimessage-core.example.com
4.  HTTPS  SSL 

**API URL**

1. `?? /opt/omnimessage-smpp/config/runtime.exs`
2. `?? api_base_url ???? ???? ???? HTTPS?`
3. `??? ? sudo systemctl restart omnimessage-smpp`













?

-  "Disconnected" 
- 
- 

◆ ◆ ◆ ◆ ◆ ◆ ◆ ◆ ◆ ◆ ◆ ◆

1.      

???

```
DNS
nslookup smpp.carrier.com
```

```
ping -c 3 smpp.carrier.com
```

```
telnet smpp.carrier.com 2775
nc -zv smpp.carrier.com 2775
```

•

- DNS IP
- ping
- 

## 2.

•

- "bind failed" "authentication error"
- Web UI SMPP → Client Peers → system\_id

•

- 
- 
- 

## 3. IP

•

- 
- IP

•

- IP

```
curl ifconfig.me
```

- IP IP
- IP IP

## 4.

•

```
sudo iptables -L -n | grep 2775
UFW Ubuntu/Debian
```

```
sudo ufw status | grep 2775
```

```
firewalld RHEL/CentOS
sudo firewall-cmd --list-ports | grep 2775
```

```
Ubuntu/Debian
sudo ufw allow out 2775/tcp
```

```
RHEL/CentOS
sudo firewall-cmd --permanent --add-port=2775/tcp
sudo firewall-cmd --reload
```

---

- 
- `smpp_disconnection_total`
- 

## 1.

```
#
ping -c 100 smpp.carrier.com | grep loss
```

```
#
netstat -s | grep -i error
```

- 
- ISP
- 

## 2.

- "enquire\_link timeout"
-

???

- ? ? ? ? ? 30 ?
- ? ? ? ? ? ? ? ? ? ? ? ? ? ?
- ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ?

### 3. TPS ? ? ? ?

???

- ? ? ? ? ? ? ? ?
- ? ? ? ? ? ? ? ?

???

- ?? tps\_limit ??
- ? TPS ? ? ? ? ? ? ? ? ? ? 70-80%
- ? ? ? ? ? ? ? ? ? ? ? ?

### 4. ? ? ? ? ? ? ? ?

???

- ? ? ? ? ? ? ? ? ?
- ? ? ? ? ? ? ? ?

???

- ? ? ? ? ? ? ? ?
- ? ? ? ? ? ? ? ? ? ? ? ? ? ?

---

???

???

???

- ? ? ? ? ? ? ? ?
- smpp\_messages\_sent\_total ? ? ?
- ? ? ? ? ? ? ? ?

???

### 1. ? ? ? dest\_smsc ? ?

???

- Web UI → Queue → dest\_smsc
- SMPP → Live Status

- dest\_smsc
- dest\_smsc
- dest\_smsc NULL

## 2.

- Web UI → Queue → deliver\_after
- 

- deliver\_after
- 

- 
- 

## 3. TPS

- 
- 

- tps\_limit
- 
- [CONFIGURATION.md](#)

## 4.

- 
-

```
1 1 1 1
sudo systemctl restart omnimessage-smpp

1 1 1 1
sudo journalctl -u omnimessage-smpp -f
```

---

1 1 1 1 1 1

1 1 1

- smpp\_delivery\_failures\_total 1 1
- 1 1 1 1 1 "submit\_sm\_resp" 1 1 1 1 1 1
- 1 1 1 1 1 1 1 1 1

1 1 1 1 1 1 1 1 1 1 1

## 1. 1 1 1 1 1 1 1 1

1 1 1

- 1 1 1 1 1 1 1 1 1 1
- 1 1 1 1 1 1 1 1 1

1 1 1 1 1 1 1

- 0x00000000B - 1 1 1 1 1
- 0x000000001 - 1 1 1 1 1 1
- 0x000000003 - 1 1 1 1

1 1 1 1 1

- 1 1 1 1 1 1 1 1 1 E.164 1
- 1 1 1 1 1 1 1 1 1 1 1 1 1
- 1 1 1 1 1 1 1 1

## 2. 1 1 1 1 1 1 1

1 1 1

- 1 1 1 1 1
- 1 1 1 1 1
- 1 1

1 1 1 1 1

- GSM-7 1 1 1 1 160 1 1 1
- UCS-2 1 1 1 1 70 1 1 1

- `openssl req -x509 -newkey rsa:2048 -keyout key.pem -out cert.pem -days 365`
- `openssl x509 -req -in cert.pem -x509t rsa:sha256 -key key.pem -out cert.pem`

### 3. `openssl`

`openssl`

- `openssl req -x509 -newkey rsa:2048 -keyout key.pem -out cert.pem -days 365`
- `openssl x509 -req -in cert.pem -x509t rsa:sha256 -key key.pem -out cert.pem`

`openssl`

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`openssl`

- `openssl req -x509 -newkey rsa:2048 -keyout key.pem -out cert.pem -days 365`
- `openssl x509 -req -in cert.pem -x509t rsa:sha256 -key key.pem -out cert.pem`

## Web UI `Web`

`Web`

`Web`

- `https://your-server:8087`
- `https://your-server:8087`

`https://your-server:8087`

### 1. `https://your-server:8087`

`https://your-server:8087`

```
sudo systemctl status omnimessage-smpp
```

`https://your-server:8087`

```
00000000
sudo systemctl start omnimessage-smpp

00000000
sudo journalctl -u omnimessage-smpp -n 50
```

## 2. 8087

```
sudo ufw status | grep 8087
#
sudo firewall-cmd --list-ports | grep 8087
```

```
Ubuntu/Debian
sudo ufw allow 8087/tcp

RHEL/CentOS
sudo firewall-cmd --permanent --add-port=8087/tcp
sudo firewall-cmd --reload
```

## 3. SSL

- 00000000
- 00000000

- 0000000000000000
- 000000 SSL
- 0000000000000000

```
ls -l /opt/omnimessage-smpp/priv/cert/
```

## 4. URL

- 0000 HTTPS HTTP
  - 00000000 IP/000
  - 00 8087
-

## Web UI

- 
- 
- 

1.

- Ctrl+F5
- cookies

2.

- F12
- JavaScript
- 

3.

- ChromeFirefoxEdge
- 

4.

```
sudo journalctl -u omnimessage-smpp -f
```

## Prometheus

- curl http://localhost:4000/metrics
- Prometheus
- 

1.

◆ ◆ ◆ ◆ ◆

**2.**      

?

# 

# 







- 
-  Prometheus  4000 

**3.**     

?

- `⚡⚡⚡ /metrics⚡⚡⚡⚡ /prometheus ⚡ /stats⚡`
- `⚡⚡⚡ 4000⚡⚡⚡⚡⚡⚡ 8087⚡`



?

- 
- 
- 



1. 

-          
-      
-  Prometheus      `increase()`  `rate()`

2.  $\diamondsuit \diamondsuit \diamondsuit \diamondsuit \diamondsuit \diamondsuit \diamondsuit$

- 

-           
-           

### 3.

-           
-          
-    Prometheus      

**CPU**    

```
top -p $(pgrep -f omnimessage-smpp)
```

-      
-    
-    

-            
-   TPS  
-      CPU    

```
ps aux | grep omnimessage-smpp
```

-        
-       

-        
-       
-           

??????

???

- ???????
- ?????
- ??????

???

1. TPS ?? - ???????
2. queue\_check\_frequency - ?????
3. ?? API ????? - ?????
4. ???????????

?????

- ??????????? TPS
- ?? queue\_check\_frequency ?????
- ?????? API
- ???????

---

????

?? ? ? ? ? ? ? ? ?

???

- ???????????
- ?????? "syntax error" ? "parse error"

???

```
?? Elixir ??
/opt/omnmessage-smpp/bin/omnmessage-smpp eval "File.read!('config/
runtime.exs')"
```

?????

- map ???????
- ???????" vs '?
- ???????????
- ?????? import Config

?????

- ??????

- `cd /opt`
- `cd /opt Elixir`

`cd /opt`

`cd /opt`

- `cd /opt`
- `cd /opt`

`cd /opt`

```
cd /opt
sudo systemctl restart omnimessage-smpp

cd /opt
sudo systemctl status omnimessage-smpp

cd /opt
sudo journalctl -u omnimessage-smpp -n 50
```

---

`cd /opt`

`cd /opt`

`cd /opt`

1. `cd /opt`

```
cd /opt
df -h

cd /opt
free -h

CPU cd /opt
uptime
```

2. `cd /opt`

```
sudo systemctl status omnimessage-smpp
```

3. `cd /opt`

```
sudo journalctl -u omnimessage-smpp -n 200
```

4. `cd /opt`

```
sudo systemctl restart omnimessage-smpp
```

5.      

-     
-   **SSL**     
-     
-        

6.          

```
   
sudo cp /opt/omnimessage-smpp/config/runtime.exs.backup \
/opt/omnimessage-smpp/config/runtime.exs

 
sudo systemctl restart omnimessage-smpp
```

7.         

---

1.    cat /opt/omnimessage-smpp/VERSION
2.     

```
sudo journalctl -u omnimessage-smpp -n 200 > /tmp/smpp-logs.txt
```

3.       

```
sudo cp /opt/omnimessage-smpp/config/runtime.exs /tmp/config.exs
  /tmp/config.exs      
```

4.     

```
curl http://localhost:4000/metrics > /tmp/metrics.txt
```

5.     

```
uname -a > /tmp/system-info.txt
free -h >> /tmp/system-info.txt
df -h >> /tmp/system-info.txt
```

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- ◆◆◆ ◆◆◆◆◆◆◆◆

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- [CONFIGURATION.md](#) - ◆◆◆◆◆
- [MONITORING.md](#) - ◆◆◆◆◆◆
- [README.md](#) - ◆◆◆◆◆

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