



Configuring SARK V3 for Spitfire SIP Trunks

This document is a guideline for configuring Spitfire SIP trunks onto SARK and includes the settings required for Inbound DDI routing and Outbound CLI presentation. The settings contained within have been tested and are known to work at the time of testing.

SIP trunk details such as account number and password will be provided separately.

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This guide assumes that you have read the documentation provided by Sark and have logged into the device – please note that some of the instructions in this guide may need to be adapted dependant on your configuration.

SIP Trunk Configuration

Asterisk > Apps > Create a new Object

TESTSARK650 - Create a new Custom App

Context Name:

Description:

Span:

Tenant:

Custom App
Fill out a context name, span and description for your app.
Write your application in the freeform window. You can include any valid Asterisk dialplan code.

```
exten => _.,1,Set(parseDDI=${SIP_HEADER(To)})
exten => _.,n,Set(parseDDI=${CUT(CUT(parseDDI,@,1),:,2)})
exten => _.,n,Goto(from-trunk,${parseDDI},1)
```

- Select **Asterisk**, **Apps** and select **Create a new object** from the menu
- Fill in the following details on the **Create a new Custom App** screen
 - **Context Name:** ddi_custom_route
 - **Description:** Spitfire SIP Headers
 - **Span:** External
 - **Tenant:** Default
- Next copy and paste the following script into the Sark

```
exten => _.,1,Set(parseDDI=${SIP_HEADER(To)})
exten => _.,n,Set(parseDDI=${CUT(CUT(parseDDI,@,1),:,2)})
exten => _.,n,Goto(from-trunk,${parseDDI},1)
```
- Click **Save & Continue**
- Click **COMMIT**

THIS IS VERY IMPORTANT AS THIS ALLOWS THE PBX TO ROUTE TO DDIs ON INCOMING CALLS.

PLEASE BE AWARE THAT THIS SCRIPT MAY NEED TO BE MODIFIED DEPENDING ON YOUR

CONFIGURATION.

End points > Trunks > Create a new object

TESTSARK650 - Trunk

Carrier:

- Custom
- GeneralAX2
- GeneralSIP**
- PTT_CLID
- PTT_CLID_Class
- PTT_DID_Class
- PTT_DID_Group
- SeaToSail
- mSDN

- Select **End points > Trunks** and click **Create a new object**
- Select **GeneralSIP** and click **Continue**

TESTSARK650 - Trunk Create: Carriertype is VOIP

DID Number:

URI/IP address:

Username:

Password:

Registration String:

Name:

- Fill in the following details on the **Trunk Create: Carriertype is VOIP** screen
 - **DiD Number:** SpitfireTrunk – THIS SHOULD NOT BE THE DID NUMBER
 - **URI/IP address:** 83.218.143.16
 - **Username:** 44XXXXXXXXXX – Supplied by Spitfire
 - **Password:** Supplied by Spitfire
 - **Registration String:** YES
 - **Name:** SpitfireTrunk
 - Click **Save & Continue**
 - Click **COMMIT**
- **The registration string now must be edited to allow calls to DDIs**
 - Remove the /44XXXXXXXXXX from the end of the string

Call Routing

Endpoints > Trunks > SpitfireTrunk > Routing



The screenshot shows the 'GeneralSIP/SpitfireTrunk Settings' interface with the 'Routing' tab selected. On the left is a sidebar menu with 'System' highlighted. The main area contains several settings: 'Active?' is set to 'YES', 'Tenant' is 'default', 'Fax detect' is 'NO', 'Line Preselect' is empty, 'Switch on CLIP' is 'NO', 'Transformation mask' is empty, 'Open' is 'ddi_custom_route', 'Closed' is 'ddi_custom_route', and 'Name' is 'SpitfireTrunk'. On the right side, there are four circular icons: a red 'X', a blue document with a checkmark, a red checkmark, and a blue trash can.

- Now that the trunk is created, click **Edit** and select the **Routing** tab
- Select the following settings from the dropdown menu
 - **Open:** ddi_custom_route
 - **Closed:** ddi_custom_route
- Click **Save & Continue**

Endpoints > Trunks > SpitfireTrunk > Peer



The screenshot shows the 'GeneralSIP/SpitfireTrunk Settings' interface with the 'Peer' tab selected. The sidebar menu is the same as in the previous screenshot. The main area shows 'Asterisk peer' set to 'peer/2499'. Below this is a large text area containing the following configuration lines:

```
type=peer
host=82.218.149.12
qualify=3000
canmoh=yes
usename=441891377985
fromuser=442691377985
secret=XXXXXXXXXX
insecure=port,invite
disallow=all
allow=slan
allow=slan
sendrpid=yes
trustrpid=no
```

On the right side, there are four circular icons: a red 'X', a blue document with a checkmark, a red checkmark, and a blue trash can.

- Now select the **Peer** tab
- Add the following lines to the peer details
 - sendrpid=yes
 - trustrpid=no
- Click **Save & Continue**

Endpoints > Trunks > SpitfireTrunk > Peer



- Now select the **User** tab
- Copy and paste the following line into the Sark
context=ddi_custom_route
- Click **Save & Continue**
- Click **COMMIT**

YOU SHOULD NOW A TABLE THAT LOOKS LIKE THE ONE IN THE FOLLOWING SCREENSHOT

442031410068	default		DiD	LOCAL	N/A	2101	2101	N/A	✓	✎	🗑
442031410069	default		DiD	LOCAL	N/A	2104	2104	N/A	✓	✎	🗑
SpitfireMain	default	Spitfire.	VOIP	83.218.143.16	39 ms	ddi_cust.	ddi_cust.	✓	✓	✎	🗑

Inbound DDIs

End points > Trunks > Create a new object

TESTSARK650 - Trunk

Carrier:

- Custom
- GeneralAX2
- GeneralSIP
- PTT_CLID
- PTT_CLID_Class
- PTT_DiD_Class
- PTT_DiD_Group**
- SailToSail
- mISDN

End points
Extensions
Trunks
Templates
Routing
ACD
Features
System
Asterisk
CDRs

X
→

- Select **End points > Trunks** and click **Create a new object**
- Select **PTT_DiD_Group** and click **Continue**

TESTSARK650 - Trunk Create: Carriertype is DiD

DID Start:

DID End:

Add CLI Prefix:

Alert-info string:

Smartlink:

Name:

End points
Extensions
Trunks
Templates
Routing
ACD
Features
System
Asterisk
CDRs

X
→
✓

- Enter the first and last numbers of your DDI range supplied by Spitfire
- Click **Save & Continue**
- Click **OK**
- Click **COMMIT**

YOU SHOULD NOW A TABLE THAT LOOKS LIKE THE ONE IN THE FOLLOWING SCREENSHOT

TESTSARK650 - Updates have been Committed

Line	Tenant	Name	Type	IP Address	Lat	Open	Closed				
442891377985	default		DiD	LOCAL	N/A	Operator	Operator	N/A	✓		
442891377986	default		DiD	LOCAL	N/A	Operator	Operator	N/A	✓		
442891377987	default		DiD	LOCAL	N/A	Operator	Operator	N/A	✓		
SpitfireTrunk	default	Spitfire.	VOIP	83.218.143.13	38 ms	ddi_cust.	ddi_cust.	✓	✓		



End points > Trunks > Selected DDI > Routing

PTT_DiD_Group/442891377985 Settings

Routing Line

Active? YES

Tenant

Fax detect NO

Switch on CLIP NO

Open

Closed

Name

Operator
Operator
Hangup
IVRS
Default IVR
QUEUES
EXTENSIONS
2001
CALL GROUPS
RINGALL
DISA
DISA
CALLBACK
GET VOICEMAIL
Ratnava Voicemail
LEAVE VOICEMAIL
#2001
Siblings
Trunks
SpitfireTrunk
Custom Apps

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- Now that the DDIs are created, select one and click **Edit**
- In the **Routing** tab, select an internal destination for this DDI