Configuring Cisco UC560 for Spitfire SIP Trunks

This document is a guideline for configuring Spitfire SIP trunks onto Cisco UC560 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.

SIP Trunk Configuration

- Navigate to Configure/Telephony/Ports and Trunks/SIP Trunk.
- Under Service provider on the Left hand side click on “Add” and configure as below.

- **Account Information:**
- Voice Codec: G711ulaw
- Proxy Server (primary): spitfiretsp.net
- Proxy Server (secondary): Leave Blank
- Registrar Server: 83.218.143.23
- Outbound Proxy Server: 83.218.143.23
- Maximum Number of Calls: Check Trunk Details
- Digest Authentication:
- Username – Base number dropping the first 0 and replacing it with 44 (example 442075013046)
- Password: Check Trunk Details
- Domain Name Service:
- SIP Domain Name – spitfiretsp.net
- DNS Server Address – 217.13.128.17

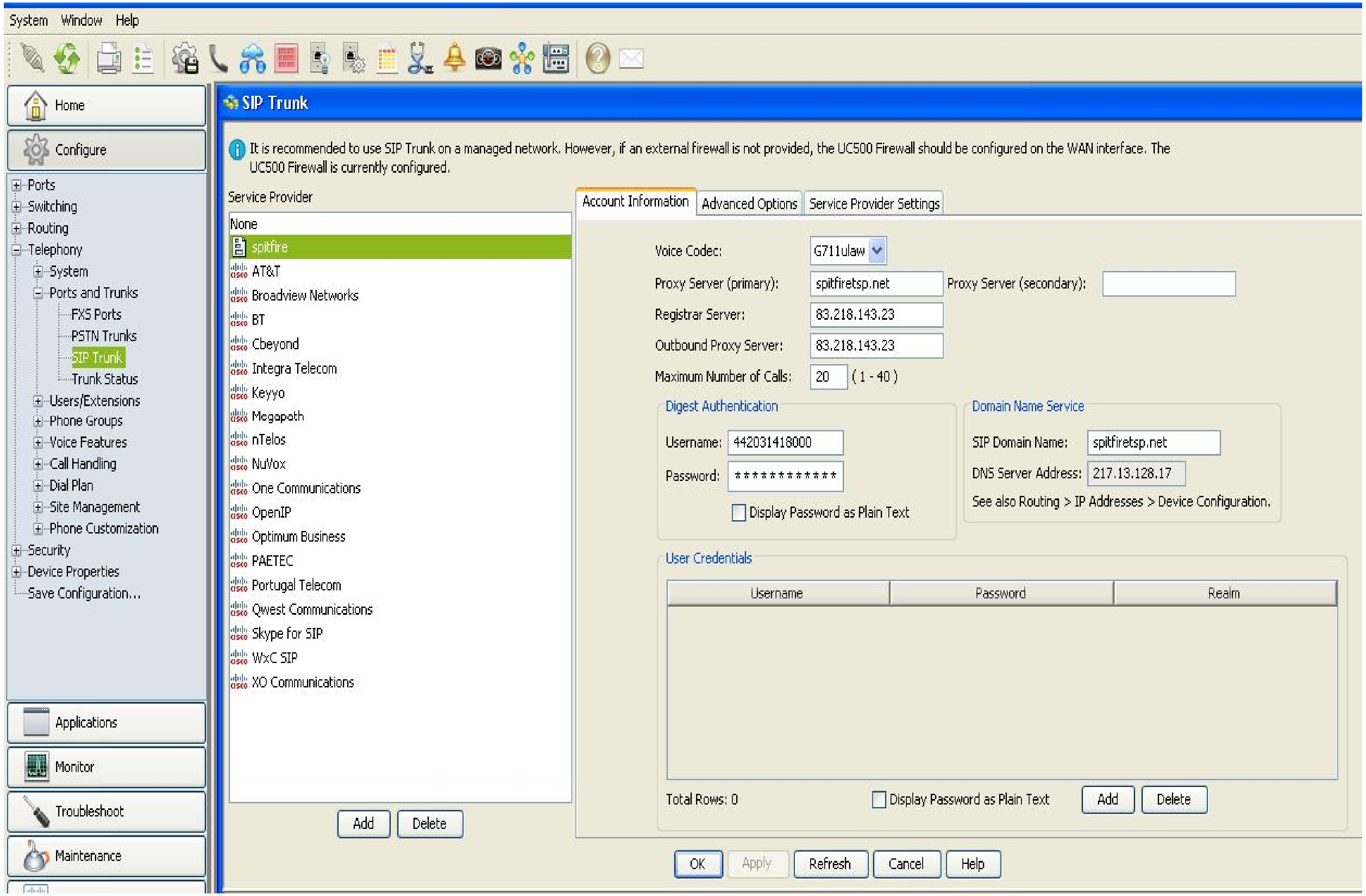
SIP Trunk Configuration

- **Advanced Options:**
- Enable Toll Fraud Protection – Checked
- Timers and retries:
- Registrar Server Expiry – 1800
- Number of Register Retries – 10
- Number of Invite retries – 2
- Connect Timer – 100
- Proxy Server Keepalive Timer (active) - 100

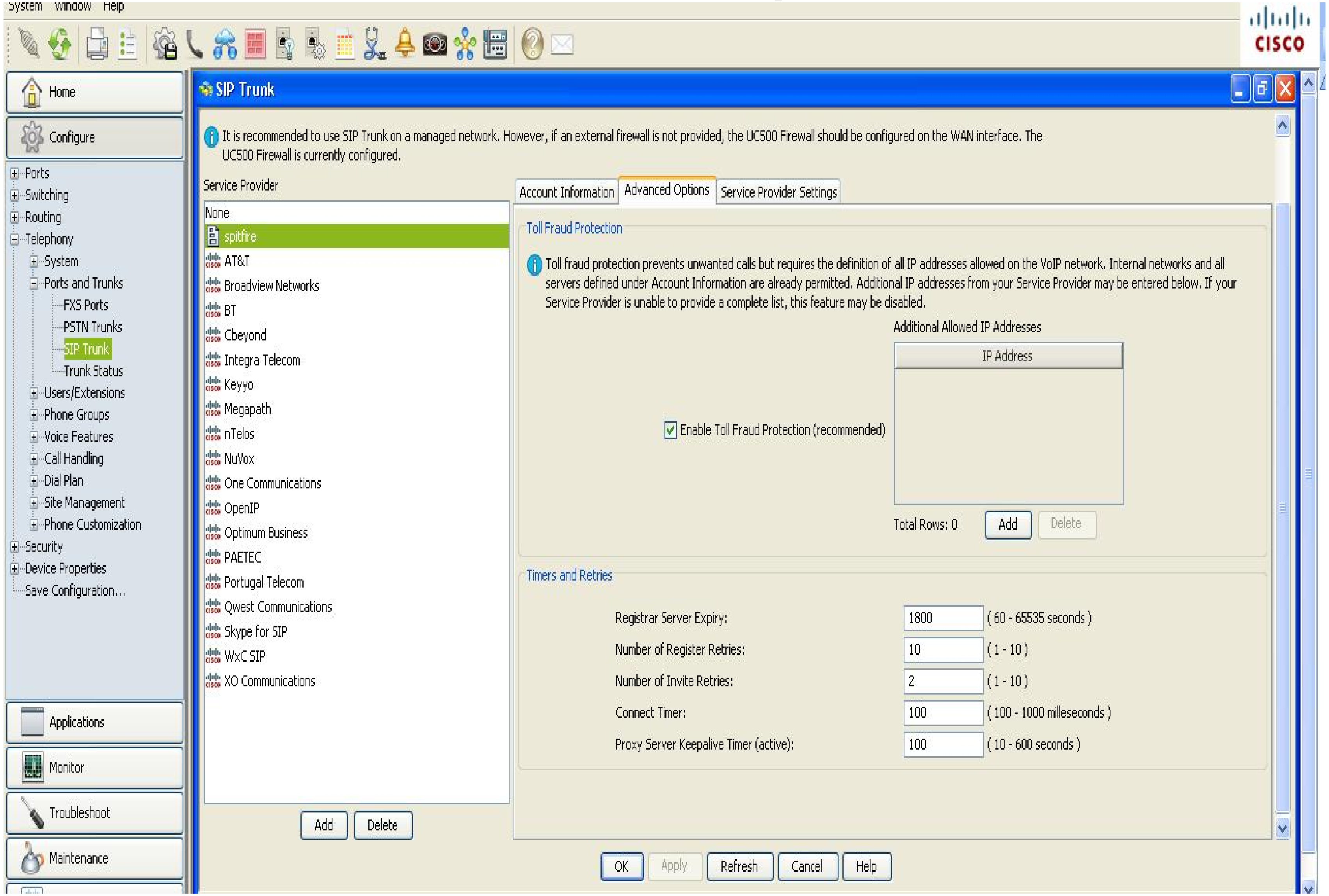
SIP Trunk Configuration

- **Service Provider Settings:**
- General:
- Service Provider Name – spitfire
- Preferred Voice Codec – G711ulaw
- Fax Protocol – T38
- DTMF Method – RFC 2833   RTP Payload – 101
- DID Registration – Check (register Caller ID Main Number)
- Numbering Plan Locale – UK
- Alternate Voice Codec – G711alaw

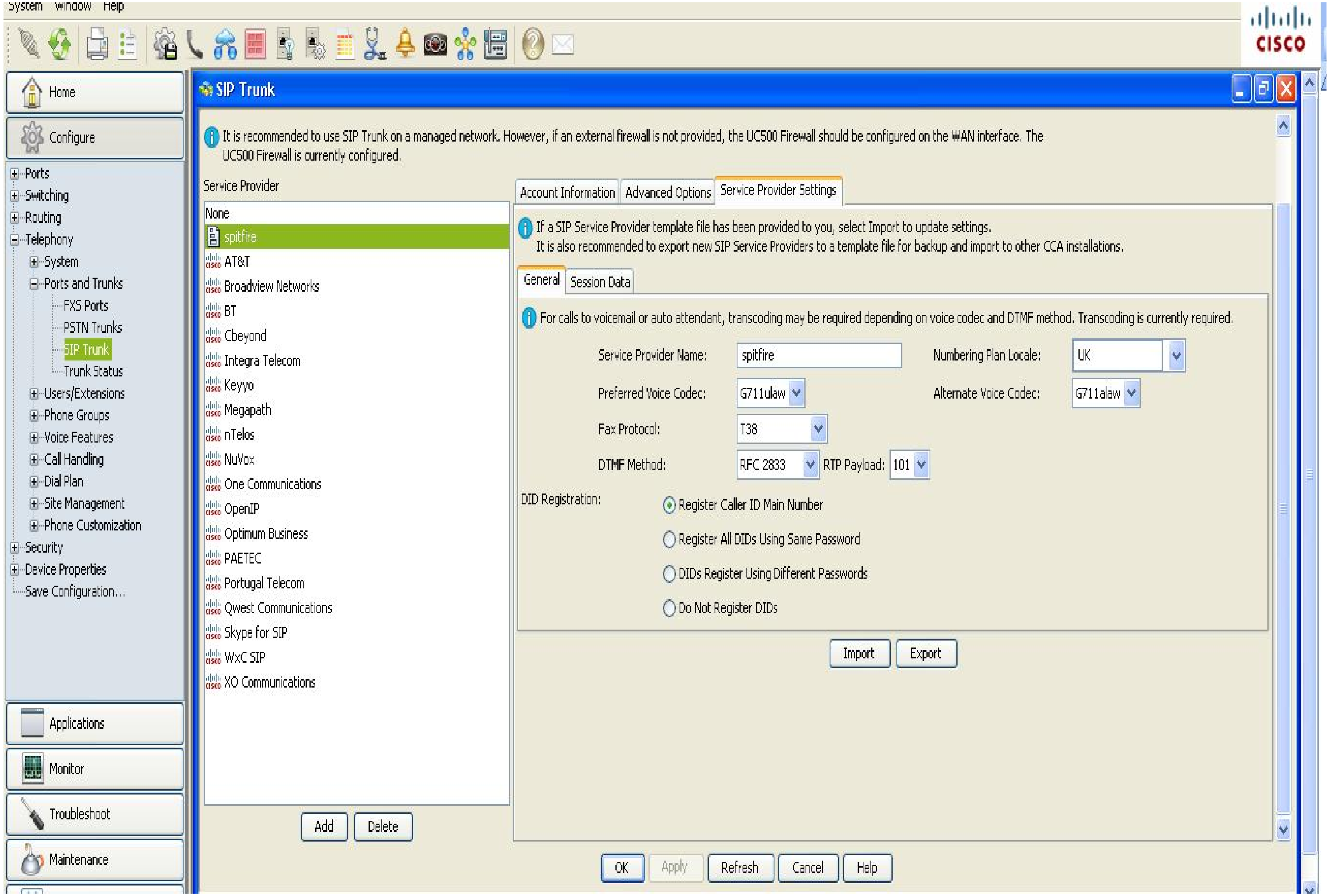
Account Information



Advanced Options



Service Provider Settings



Configuring Incoming Calls and Outgoing Presentation

- Navigate to Configure/Telephony/Dial Plan and expand the options.
- Click on **Incoming** and select the **Direct Dialing tab**, from here you can configure the DID for both users and groups by selecting “Add”.

Direct Dial to Internal User Extensions

Description: ▲	DID Range Start	DID Range End	Internal Number Start	Internal Number End	Trunks
8001	442031418001	442031418001	8001	8001	SIP Trunk
8002	442031418002	442031418002	8002	8002	SIP Trunk
8003	442031418003	442031418003	8003	8003	SIP Trunk
8004	442031418004	442031418004	8004	8004	SIP Trunk
8005	442031418005	442031418005	8005	8005	SIP Trunk
8011	442031418011	442031418011	8011	8011	SIP Trunk

Total Rows: 21

Add Modify Delete

Direct Dial to Auto-Attendant, Groups, Operator

Description:	DID Range Start	DID Range End	Destination Type	Destination	Trunks
TeamWealth	442031418020	442031418020	BLAST_GROUP	Blast Group:3(8020)	SIP Trunk
TESTDIV	442031418050	442031418050	HUNT_GROUP	Hunt Group:10(5009)	SIP Trunk
TeamSys	442031418010	442031418010	BLAST_GROUP	Blast Group:2(8010)	SIP Trunk
GQR	442031418000	442031418000	BLAST_GROUP	Blast Group:1(8000)	SIP Trunk
CityIntern	442031418080	442031418080	BLAST_GROUP	Blast Group:4(8080)	SIP Trunk
Rostron	442031418100	442031418100	HUNT_GROUP	Hunt Group:1(8100)	SIP Trunk

OK Apply Refresh Cancel Help

Outgoing Call Options

Outgoing Call Handling | PSTN Trunk Groups | Caller ID

Numbering Plan Locale: UK-8-Digit-Local-Numbers

Default Access Code: 9

Digit Collection Timeout [2-120]: 5 seconds

Outgoing Numbers

Permissions	Description	Access Code ▲	Begins With	Number of Digits	Dial Pattern	Trunk Priority	Configure Priority
International	International	9	00[1-9]	Variable	900[1-9]T	SIP then PSTN	Configure Priority
Local	Non-Emergency Police/Health Ser	9	1[01]1	3	91[01]1	SIP then PSTN	Configure Priority
Local	Local Rate NGN - <= 10 digits	9	0845	Variable	90845T	SIP then PSTN	Configure Priority
Local	local direct dial	9	[2-9]	8	9[2-9]xxxxxxx	SIP then PSTN	Configure Priority
Local	Local Rate NGN - 11 digit	9	0845	11	90845xxxxxxx	SIP then PSTN	Configure Priority
Local-Plus	Level1 Services	9	15[0-4]	Variable	915[0-4]T	SIP then PSTN	Configure Priority
Local-Plus	Speaking Clock	9	123	3	9123	SIP then PSTN	Configure Priority
National	Services of Social Value	9	116	6	9116xxx	SIP then PSTN	Configure Priority
National	National Non Geo - 11 digits	9	0870	11	90870xxxxxxx	SIP then PSTN	Configure Priority

OK | Apply | Refresh | Cancel | Help

Setting Caller ID

- Click on the spitfire SIP Trunk to highlight it.
- To program individual DID presentation you will need to select “Add” and then insert the extension number along with the DID you wish to present on Outgoing Calls.