

Samsung OfficeServ™ 7000 Series

Clearfly SIP Trunks

Setup Guide

September 2014





Samsung Documentation

The following documents can be found on Samsung's GSBN Site.

1. [OfficeServ 7000 Series SIP Trunking Applications & Best Practices](#)
2. [OfficeServ 7000 Series SIP Services Technical Manual](#)
3. [OfficeServ 7000 SIP Services: Related MMC's](#)
4. [Also check Samsung Product Bulletins](#)

Samsung OfficeServ Requirements

1. MP Software Version 4.22 or greater
 - a. V4.53 or later is recommended
2. Latest Firmware Version on OAS or MGI16/64
 - a. Must be compatible with MP SW Version
3. SIP Trunk License
 - a. The number of licenses must equate to the number of active SIP Trunks supplied by Clearfly.
 - b. If burstable trunks have been requested a SIP Trunk license must be activated for those as well.
4. Sufficient MGI and MPS channels

	Local IP Phone	Remote IP Phone	Digital, Analog or VM
SIP Trunk	2 MPS or MGI channels	2 MPS or MGI channels	1 MGI Channel

Samsung OfficeServ Router/Firewall Port Forwarding

Service Type	Port Number	Protocol	Remarks
SIP Trunk	5060	UDP	DM 5.2.13 Pointed to the IP Address of the MP
MGI 16/64	30,000-30,XXX	UDP	DM 2.2.2 Pointed to the IP Address of the MGI Card
MPS	40,000-40,XXX	UDP	DM 2.2.15



Samsung Configuration

Basic Programming Overview

1. Enter SIP Trunk License (DM 2.1.4)
 - a. Verify correct number of SIP Trunk License
2. Verify Public and Private IP Addresses for MP card (DM 2.1.0 & 2.1.1)
3. Verify IP address for MGI Card if used (DM 2.2.2)
4. Enter SIP Account Information and enable SIP Server (DM 5.2.13)
5. Enter DID translation information (DM 3.2.3)
6. Enter outbound CLI (DM 2.4.3)
7. Verify Trunk Group includes SIP Trunk numbers – Default is 8501 ~ (DM4.1.2)
 - a. If you are only using SIP Trunks in that group, Group type should be SIP
 - b. If you have mixed trunks (SIP and POTS) Group type should be Mixed
8. Set Toll Restriction to block unwanted International calls (DM 4.8)

Clearfly SIP Account Information Set-up (DM 5.2.13)

Item	Registered Account	Static Account	Remarks
SIP Carrier Name	Clearfly	Clearfly	Reminder only – Info not used
SIP Server Enabled	Enable	Enable	Must Enable
SIP Service Available	Yes	Yes	Will show Yes if communication is established with Clearfly
Registrar Address	Supplied by Clearfly	N/A	Optional Field
Registrar Port	5060	5060	Clearfly uses 5060, so no need to change
Outbound Proxy	sc.cfly.co	peer.cfly.co	Domain name or IP address
Alternative Outbound Proxy	0.0.0.0	0.0.0.0	Not Required



Item	Registered Account	Static Account	Remarks
Outbound Proxy Port	5060	5060	Clearlyfly uses 5060, so no need to change
Proxy Domain Name			Not Required
Local Domain Name			Not Required
DNS Server 1	Must Have	Must Have	Supplied by ISP
DNS Server 2	Optional	Optional	Supplied by ISP
User Name	Supplied by Clearlyfly (Must Have)	N/A	Usually Same as Auth User
Auth Username	Supplied by Clearlyfly (Must Have)	N/A	
Auth Password	Supplied by Clearlyfly (Must Have)	N/A	
Regist Per Use	Disabled	Disabled	Not Used
Session Timer	None	None	
Session Expire Time	1800	1800	
Trunk Reg Expire Time	1800	1800	
Alive Notify	None	Options	Options message is used to check connectivity if required
Alive Notify Time	1800	1800	
IMS Option	Disable	Disable	
P Asserted ID Use	Primary	None	Primary = P-Asserted-ID header contains primary number & FROM header contains secondary number
Privacy	Disable	Disable	
SIP Peering	Disable	Disable	
Send CLI Table	1	1	If you are using a different CLI table as primary change accordingly
Supplementary Type	PBX Managed 2	PBX Managed 2	
302 Response	Disable	Disable	
SIP Destination	To Header	To Header	
Codec Auto Nego	Enable	Enable	



Item	Registered Account	Static Account	Remarks
Hold Re-invite	Enable	Enable	
URI Type	SIP	SIP	
SIP Signal Type	UDP	UDP	
E.164 Support	Disable	Disable	
PRACK Support	Disable	Disable	
Hold Mode	Send Only	Send Only	

Optional Samsung SIP Programming Steps

To prevent unwanted SIP Traffic set Carrier Exclusive to Enabled (DM 5.2.12)

- Enabling this option will allow the OfficeServ to accept calls only from the IP addresses that where in the active SIP trunk provider fields entered in DM 5.2.13

Testing Samsung – Clearfly Connectivity

Testing can be accomplished prior to turn up of service.

1. Make outbound call
 - a. Dial Trunk Group or 8501 (Default SIP Trunk Number)
 - b. Dial Number
 - c. If outbound caller id (CLI) programmed in DM 2.4.3 is different from Clearfly's Billing Telephone Number for this account and you are using a registered account, P-Inserted-ID in DM 5.2.13 must be set to Primary
2. Test incoming call
 - a. DID Translation table must be programmed to receive incoming call (DM 3.2.3)