



Planning Worksheets

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This chapter provides a variety of worksheets that you can use to plan your Cisco PGW 2200 Softswitch configuration. You can find a variety of planning worksheets for you to copy and fill in. Each worksheet contains one or more sample entries for the provisioning component and blank rows for you to fill in for your configuration.



Tip

We recommend that you keep a blank copy of each worksheet in case you need additional copies.



Tip

Some tables provide space to plan many provisioning components, but other tables provide space to plan only one component. If you need to plan more components than the space provided in the worksheets, print out additional copies.

Table A-1 External Device Worksheet Example

Device IP Address (x.x.x.x)	Device Name	Description
10.15.7.34	as5300-34	Media Gateway 5300-34

Table A-2 Originating Point Code Configuration Parameters

Name	Netaddr	Netind	Description	OPC Type	True OPC
OPC1	22.22.23	2	Cisco PGW 2200 Softswitch 1 OPC	TRUEOPC	OPC1

Table A-2 *Originating Point Code Configuration Parameters (continued)*

Name	Netaddr	Netind	Description	OPC Type	True OPC

Table A-3 *Destination Point Code Configuration Parameters*

Name	Netaddr	Netind	Description
DPC1	32.32.33	2	DPC 1

Table A-4 *Adjacent Point Code Configuration Parameters*

Name	Netaddr	Netind	Description
STP1	12.12.13	2	STP 1 point code

Table A-5 *QSIG/Q.931 Over BRI Backhaul Signaling Service Worksheet Example*

Name	External Node	Q.931 Call Model Side	MDO File	Customer Group ID	Call Reference Length	Description
brisvc1	va-3640-01		ETS_300_102		1	BRI path to va-3640-01

Table A-5 QSIG/Q.931 Over BRI Backhaul Signaling Service Worksheet Example (continued)

Name	External Node	Q.931 Call Model Side	MDO File	Customer Group ID	Call Reference Length	Description

Table A-6 Linkset Configuration Parameters

Name	Point Code	Type	Protocol	Description
Lnkset-1	DPC-1	IP	SS7-ANSI	Linkset 1 to ITP-L 1

Table A-7 C7 IP Link Configuration Parameters

MML Parameter Name	Configuration Setting
NAME	ss7lnk1
SESSIONSET	slt1
PRIORITY	1
TIMESLOT	0
SLC	0
LNKSET	lnkset1
DESC	SS7 link 0 for lnkset1 to 2611-1
NAME	
SESSIONSET	slt1
PRIORITY	
TIMESLOT	
SLC	
LNKSET	
DESC	

Table A-8 IP-Link Configuration Parameters

MML Parameter Name	Value
NAME	eiplnk1
DESC	sigeisup1
SVC	sigeisup1
IPADDR	IP_Addr_1
PORT	8001
PEERADDR	172.24.235.205
PEERPORT	8001
PRIORITY	1
NEXTHOP	0.0.0.0
NETMASK	255.255.255.255
NAME	
DESC	
SVC	
IPADDR	
PORT	
PEERADDR	
PEERPORT	
PRIORITY	
NEXTHOP	
NETMASK	
NAME	
DESC	
SVC	
IPADDR	
PORT	
PEERADDR	
PEERPORT	
PRIORITY	
NEXTHOP	
NETMASK	

Table A-9 SS7 Route Worksheet Example

Name	OPC	DPC	Linkset	Priority	Description
ss7rt1	opc	dpc1	lnkset1	1	SS7 Route to dpc1 by stp1
ss7rt2	opc	dpc2	lnkset2	1	SS7 Route to dpc1 by stp2

Table A-10 Nailed Trunk Worksheet Example

Trunk ID	Source Signaling Service	Source Span	Source Time slot/CIC	Dest Sig Service	Dest Span	Dest Time Slot/CIC	Span Size
101	ss7srv	fixed	1	signal1	fixed	1	1

Table A-11 Switched Trunk Worksheet Example

Trunk ID	Trunk Group Number	Span	CIC	Coding Unit	End Point	Span Size
10101	25535	100	1	signal1	fixed	1

Table A-12 SS7 Subsystem Worksheet Example

Parameter	Parameter Value		
Name of APC or TCAP/IP service	apc1		
Protocol family			
APC of the mated STP	apc2		
Priority			
Local SSN			
STP/SCP Index			
Transport protocol	SCCP		
OPC	ROUTING_KEY_ID		
Routing Key	rtkey1		
SUA Key			
Remote SSN	5		

Table A-13 External Node Configuration Parameters

Name	Type	ISDN Signaling Type	Group	Description
Gw1	AS5300			AS5300 gateway 1

Table A-14 Media Gateway Signaling Service Configuration Parameters

MML Parameter Name	Configuration Setting
NAME	
MDO	
EXTNODE	
SIDE	
CUSTGRPID	

Table A-14 Media Gateway Signaling Service Configuration Parameters (continued)

MML Parameter Name	Configuration Setting
CUSTGRPTBL	
ABFLAG	
CRLEN	
DESC	
PATHSIZE	
PORT	
PEERPORT	
SIGSLOT	
SIGPORT	
SIGPORTSKIP	
BACKUP	

Table A-15 MGCP Signaling Service Worksheet Example

Name	Ext Node	Description
MGCpth1	Gw1	MGCP path to Gw1

Table A-16 SS7 Signaling Service Configuration Parameters

Name	Side	MDO	DPC	Custgrpld	OPC

Table A-17 SS7 Signaling Service Worksheet Example

Service Type	Name	Description	Protocol Type	Customer Group ID
SS7	ss7svc1	SS7 service to DPC1	ANSISS7_ STANDARD	7777

Table A-18 Cisco ITP-L Linkset Worksheet Example

Description	Linkset	Card Interface	Linkset Type	Linkset Rate	Protocol	Cisco ITP-L IP Address	MGC IP Address
Signaling Link 1 to ITP-L1	ls-stpa	T1	A link	64 kbps	SS7-ANSI	10.15.7.5	10.15.7.8
Signaling Link 2 to ITP-L1	ls-stpb	T1	A link	64 kbps	SS7-ANSI	10.15.7.5	10.15.7.8

Table A-19 IP Link Worksheet Example

Name	Description	Service	IP Address	Port	Peer IP Address	Peer Port	Priority	IP Route
MGC-lnk1	IP link for MGCP service to Gw1	mgcpsr-1	IP_Addr1	2427	175.24.235.155	2427	1	

Table A-20 Backhaul TCP Link Worksheet Example

Name	Signaling Type	Local IP Address	Local Port Number	Destination IP Address	Destination Port Number	External Node	IP Route	Description
britcp1	bri	175.25.211.17	1024	175.25.211.17	1024	va-3640-01	n-a	IP route to va-3640-01

Table A-21 Session Set Parameters

MML Parameter Name	Value
NAME	
IPADDR1	
IPADDR2	
PORT	
PEERADDR1	
PEERADDR2	
PEERPORT	
EXTNODE	
TYPE	

Table A-22 IP Route Worksheet Example

Name	Destination	Subnet Mask	Next Hop	IP Address	Priority	Description
iproute1	itp1	255.255.255.0	itp2	175.25.211.17	1	IP route to itp1

Table A-23 IP FAS Signaling Service Worksheet Example

Name	External Node	Q.931 Call Model Side	MDO File	Customer Group ID	A-B Flag	Call Reference Length	Description
brisvc1	va-3640-01		ETS_300_102			1	BRI path to va-3640-01

Table A-24 DPNSS Signaling Service Worksheet Example

Name	External Node	Customer Group ID	DPNSS Side	Signaling Port	Signaling Slot	Description
dpnsvc2	va-3660-20		A	0	0	IUA DPNSSpath to GW

Table A-25 D-Channel Worksheet Example

Name	Signaling Type	Priority	Link	Slot	Port	Subunit	Description
brichan1	bri	1	britcp1	0	4	1	bri d-channel 1

Table A-26 M3UA Key Worksheet Example

Name	OPC	DPC	Routing Context	Service Indicator	Network Appearance	Description
m3key1	opc1	dpc1	14	ISUP	700	M3UA key 1

Table A-27 M3UA Route Worksheet Example

Name	DPC	External Node	OPC	Description
m3rte1	dpc1	itp1	opc1	M3UA route 1

Table A-28 SCTP Association Worksheet Example

Parameter	Parameter Value					
Name	assoc1					
Description	association 1					
Signaling Type	M3UA					
SGP name	sgp1					
First local address	175.23.211.15					
Second local address (optional)	n/a					
Local SCTP port number (optional)	2905					
Highest priority destination address	117.52.16.20					
Lowest priority destination address (optional)						
Destination SCTP port number (optional)						

Table A-28 SCTP Association Worksheet Example (continued)

Parameter	Parameter Value					
External node name	itp1					
First IP route name (optional)	iproute1					
Second IP route name (optional)	iproute2					
Number of bytes to advertise for the local receive window. (optional)						
Maximum number of times to retransmit SCTP INIT message (optional)						
Maximum initial timer retransmission value (optional)						
Maximum number of retransmissions over all destination address before the association is declared failed (optional)						
Maximum time after a datagram is received before a SCPT SACK is sent (optional)						
Maximum time SCTP will wait for other outgoing datagrams for bundling (optional)						
Minimum value allowed for the retransmission timer (optional)						
Maximum value allowed for the retransmission timer (optional)						
Time between heartbeats (optional).						
IP Precedence (optional)						
Differential Service Code Point (optional)						
Maximum number of retransmissions to either peer address 1 or 2 before it is declared failed (optional)						

Table A-29 SGP Worksheet Example

Name	External Node	Description
sgp1	itp1	SGP for itp1

Table A-30 SS7 Route Worksheet Example

DPC	Linkset	OPC	Priority
dpc1	lnkset1	opc1	1

Table A-31 SS7 Signaling Service Worksheet Example

Name	Q.931 Call Model Side	MDO File Name	DPC	Customer Group ID	OPC or Route Key ID	Description
ss7svc1	network	ansi_ss7	dpc1	0000	m3rtkey1	SS7 signaling service 1

Table A-32 SUA Key Worksheet Example

Name	OPC	APC	Local SSN	Routing Context	Network Appearance	Description
suakey1	opc1	apc1	70	ISUP	7000	SUA key 1

Table A-32 SUA Key Worksheet Example (continued)

Name	OPC	APC	Local SSN	Routing Context	Network Appearance	Description

Table A-33 SUA Route Worksheet Example

Name	APC	External Node	OPC	Remote SSN	Description
suarte1	apc1	itp1	opc1	100	SUA route 1

Table A-34 SIP Data Path Worksheet Example

Name	MDO File Name	Description
sipsrv1	va-3660-20	path to Unity

Table A-35 SIP Link Worksheet Example

Name	Signaling Service	Priority	IP Address	Port	Description
brichan1	bri	1	britcp1	4	bri d-channel 1

Table A-35 SIP Link Worksheet Example (continued)

Name	Signaling Service	Priority	IP Address	Port	Description

Table A-36 SIP and EISUP Profiles Worksheet Example

Profile Name	Type	Trust Level	Topology Hiding	Property	Value	Profile Reference	SIP Header Table Name
spf1	SIP	0	1	ACCRspCntlInhibit	1		outsiph1
				ADigitCCPrefix	0		
spf2	EISUP	1	2			epf1	

Table A-37 Common Profiles Worksheet Example

Profile Name	Type	Property	Value
epf1	Common	Glare	0
gpf1	Group	cgpninclude	1

Table A-38 Domain Profile Worksheet Example

Profile Name	Domain	Direction	Property	Value
dpf1	cisco.com	Inbound	populatesdpinfoincdr	1
dpf2	bt.com	Outbound		

Table A-38 Domain Profile Worksheet Example (continued)

Profile Name	Domain	Direction	Property	Value

Table A-39 Trunk Group Profile Assignments Worksheet Example

Trunk Group Number	Profile Name
1	spf1
2	gpf1

Table A-40 SIP Header Tables Worksheet Example

Table Name	Type	Comments
insight1	Inbound	
outsight1	Outbound	

Table A-41 Inbound SIP Header Table Worksheet Example

Header Name	Index	Message	Condition	Treatment	DW1 Condition	DW2 Condition	DW3 Condition	DW4 Condition	DW1 Treatment	DW2 Treatment	DW3 Treatment	DW4 Treatment
Remote-Party_id	1	INVITE	2	4	User=	Rpi-			;User=phone	;rpi-screen=no		
Referred-By	2	REFER	4	6	Pgw.com	Cisco.com			CallerDomain.com	Pgw.com		

Table A-42 Outbound SIP Header Table Worksheet Example

Header Name	Index	Apply Policy	Message	Condition	Treatment	Condition DW1	Condition DW2	Treatment DW1	Treatment DW2
Retry-After	1	Trusted	503	2	5	Duration=		;Duration=100	;Reason=overload
Referred-By	2	ALL	REFER	2	6	CallerDomainA		CallerDomainA.com	PGWA.com

Table A-43 Gateway Pool Worksheet Example

Profile Name	Gateway Announcement Support	Gateway Codec Support	Gateway DTMF Support	Gateway Tone Support	Gateway Selection Method
DBE-Profile1	0	0	1	0	1

Table A-43 Gateway Pool Worksheet Example

Profile Name	Gateway Announcement Support	Gateway Codec Support	Gateway DTMF Support	Gateway Tone Support	Gateway Selection Method