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iPECS SMB eMG Expansion (iPECS SMBSW-TRA-01-023)

15. Oct, 2015 Ericsson-LG Enterprise



REVISION HISTORY

ISSUE	DATE	DESCRIPTION OF CHANGES
1.0	15-Oct-15	Initial release

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eMG80E Capacity

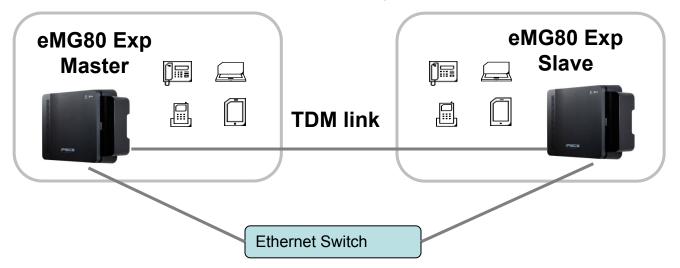
eMG80E Capacity

		1 st KSU	2 nd KSU	Мах	
Total	Max Port	222	44	222	Extension + Trunk + VM
Trunk	Max Port	74(56)	12	74 (66)	() : Ports except remote G/W
	Analog	12	12	24	
	PRI / T1 / E1	30	-	30	
	IP (SIP/H.323)	16	-	16	
Extension	Max Prot	140 (36)	32	140 (68)	() : Port except IP, DECT
	SLT	31	32	63	
	Digital	24	24	48	
	Hybrid	*23	24	47	Port 1 : DKT only
	IP	32	-	32	Max Relay Channel: 16 Ch
	DECT	48	-	48	Max base channel : 24 Ch
VMIB	Max Port	8	-	8	



Configuration

- eMG80 expansion is support by TNET feature
 - TDM voice connection is connected by TDM link.



- WTIB should be installed in master system (not in slave)
- One PRIB/BRIB line should be connected to master system if PRIB/BRIB is used in slave system.
- IP device (IP phone, UCS client, iPCR, Application) & VOIP trunk is need to be installed in master.
- Could you use expansion slave system to expand TDM port (DTIB/SLIB/LCOB/BRIB/PRIB etc.)



eMG80 Master system Configuration

/	PECS eMG800 Web Admin ×		No. Longing Solder-	second from the owner.	
+	- → C 🕼 https://192.168.150.106/a_inde	x.html			☆ 〓
	Apps 🚺 IN-HOUSE-UCP_600 🚺 UCP_100 🚺 eMG_3	800 📝 eMG80_STP1 🚪	eMG80_P1 📝 eMG80 STP2		
		Administration	Maintenance		Change Language Log Out
	System ID & Numbering Plans	Favorite PGM	T-NET Basic Attribute.	× T-NET CM attributes(331)	
	Station Data				
	Board Based Data	Order ↓ª	Attribute	Value	Save
	CO Line Data	÷	T-NET Enable		
	System Data				
	Station Group Data				
	ISDN Line Data				
<	SIP Data				
	Tables Data				
	Networking Data				45
	T-NET Data ~				
	T-NET Basic Attributes(330) T-NET CM attributes(331) T-NET LM attributes(332) T-NET FoPSTN Table (333)				
	T-NET Control Contact(334) T-NET Music/Alarm(335~336)				
	[Version] Appl(R1.0.2), Boot(A.0Aa), Kernel(-), H/W(0)		Copyright Ericsson-LG E	Enterprise Co., Ltd. 2013.	

• Enable TNET in eMG80 master system (eMG80N-EXPM license should be installed)



eMG80 Master Site Configuration

	'a_index.htr					
PECS ECS eMG80	A	Iministration Ma	aintenance		Change L	anguage
Board Based Data						
CO Line Data	<	Favorite PGM	T-NET LM attributes(332)			
System Data						S
Station Group Data	Index		Value	Range		
ISDN Line Data		MAC Address	b40edcb565fa			
SIP Data		IP Address IPKTS Port	192.168.150.113 5588	0001-9999		
Tables Data	1	Total number of port	100	000-999		
		Multicast IP Address	239.20.19.1			
Networking Data		Zone Number		1 - 32		
H.323 Routing Table		MAC Address				
T-NET Data		IP Address				
		IPKTS Port	5588	0001-9999		
T-NET Basic Attributes(330)	2	Total number of port	0	000-999		
T-NET CM attributes(331)		Multicast IP Address	239.20.19.1			
T-NET LM attributes(332)		Zone Number		1 - 32		
T-NET FoPSTN Table (333)		MAC Address				
T-NET Control Contact(334)		IP Address				
T-NET Music/Alarm(335~336)		IPKTS Port	5588	0001-9999	85	
Zone Data	3	Total number of port	0	000-999	\sim	
		Multicast IP Address	239.20.19.1	000-000		
Device Login		Zono Number	233.20.19.1	1 32		

- Assign MAC/IP and total port number of eMG80 slave system.
 - The "total number of port" should be lager than CCM attribute of eMG80 slave system.



eMG80 slave system Configuration

	👔 iPECS eMG800 Web Admin 🗙 📝 iPECS eMG800	Web A	dmii ×	Name And Address of the Owner, or other	states in the local division in the local di			- 0 ×	3
*	> C & https://192.168.150.114/a_	inde	.html					\$	Ξ
	Apps 📝 IN-HOUSE-UCP_600 📝 UCP_100 📝	eMG_8	00 📝 eMG80_STP1	eMG80_P1 eMG80 STP2					
	iPECS iPECS eMG800		Administration	Maintenance			 Change Language	Log Out	
	Board Based Data								_
	CO Line Data	<	Favorite PGM	T-NET Basic Attribute.	× 0			× ~	<
	System Data							Save	
	Station Group Data		Order <u>↓</u> ª	Attribute	Value				
	ISDN Line Data	1		T-NET Enable	ON V				
	SIP Data								
	Tables Data								
,	Networking Data								
``	T-NET Data								
9	T-NET Basic Attributes(330)								
	T-NET CM attributes(331)								
	T-NET LM attributes(332)					5			
	T-NET FoPSTN Table (333)								
	T-NET Control Contact(334)								
	T-NET Music/Alarm(335~336) T-NET ISDN Clock Priority(337)								
	T-NET ISON Clock Phoney(337)								
	Zone Data								
	Device Login 👻								
1	[Version] Appl(R1.0.2), Boot(A.0Aa), Kernel(-), H/	W(0)		Copyright Ericsson-LG E	interprise Co., Ltd. 2013.				

 Enable TNET in eMG80 slave system(eMG80-EXPS license should be installed) All station and CO device will be registered to master system and license will be checked in master if eMG80N-EXPS license is used.
 if Temp license is used then TNET should be enabled for all device in PGM 132.

TNET should be enabled for other device (not station and CO line) in PGM 132.



eMG80 slave system Configuration

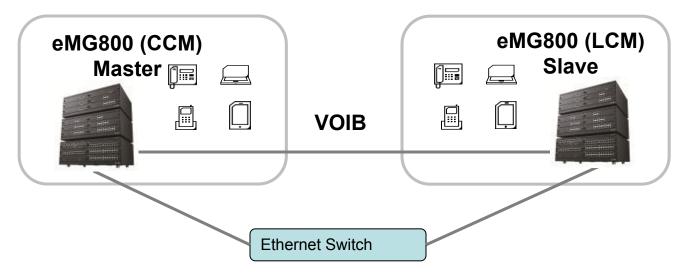
PECS ECS eMG80	Adr	ninistration M	laintenance			Change Language Log C
Board Based Data	*					
CO Line Data	<	Favorite PGM	T-NET LM attributes(332)	T-NET CM attributes(331)		
System Data	1					Sa
Station Group Data	Order <u>↓</u> ª	a Attribute		Value	Range	,
ISDN Line Data	1	Register Enable	ON T			
SIP Data	2	CM Server Type CM 1	eMG/UCP IP Address : 192.168.150.111	MAC Address : b40edcb56512		
Tables Data	4	CM 2	IP Address : 0.0.0.0	MAC Address :		
abits Data	5	IPKTS Port Number	5588		0001-9999	
Networking Data	6	Total number of port	100		0000-9999	
1.323 Routing Table	7	Polling Count	5		00-99	
	8	Polling Interval	2		00-99	
T-NET Data	9	Zone Number			1 - 32	
T-NET Basic Attributes(330)						
T-NET CM attributes(331)						
T-NET LM attributes(332)						
T-NET FoPSTN Table (333)						
T-NET Control Contact(334)					3	
T-NET Music/Alarm(335~336)						
Zone Data						
Device Login						

- Select master system type
- Assign MAC/IP address of slave system and total number of port that can be registered to master.



Configuration

• eMG800 expansion is support by TNET feature



- WTIB should be installed in master system (not in slave)
- IP device (IP phone, UCS client, iPCR, Application) & VOIP trunk is need to be installed in master.
- Could you use expansion slave system to expand TDM port (DTIB/SLIB/LCOB/BRIB/PRIB etc.)



eMG800 Master system Configuration

	iPECS eMG800 Web Admin 🗙		No. Longing Solder-	solution in the second in the	
*	> C & https://192.168.150.106/a_index.	html			☆ ≡
	Apps 🚺 IN-HOUSE-UCP_600 🚺 UCP_100 🚺 eMG_800	0 📝 eMG80_STP1 📲	🛿 eMG80_P1 🛛 📝 eMG80 STP2		
		Administration	Maintenance		Change Language Log Out
	System ID & Numbering Plans	Favorite PGM	T-NET Basic Attribute.	× T-NET CM attributes(331)	×
	Station Data				
	Board Based Data	Order ↓ª	Attribute	Value	Save
	CO Line Data	-	T-NET Enable	ON V	
	System Data				
	Station Group Data				
	ISDN Line Data				
<	SIP Data				
	Tables Data				\searrow
	Networking Data				M2
	T-NET Data ~				
	T-NET Basic Attributes(330) T-NET CM attributes(331)				
	T-NET LM attributes(332)				
	T-NET FoPSTN Table (333)				
	T-NET Control Contact(334) T-NET Music/Alarm(335~336)				
	[Version] Appl(R1.0.2), Boot(A.0Aa), Kernel(-), H/W(0)		Copyright Ericsson-LG E	Enterprise Co., Ltd. 2013.	

• Enable TNET in eMG800 master system (eMG800-EXPM license should be installed)



eMG800 Master Site Configuration

O Line Data	<	Favorite PGM	T-NET CM attributes(331)	× O	
ystem Data					
tation Group Data	Order <u>↓</u> ª	Attribute		Value	Range
SDN Line Data	1	Register Enable	ON V		
	2	CM Server Type	eMG/UCP •		
IP Data	3	CM 1	IP Address : 0.0.0.0	MAC Address :	
ables Data	4	CM 2	IP Address : 0.0.0.0	MAC Address :	
ables Data	5	IPKTS Port Number	5588		0001-9999
etworking Data	6	Total number of port	0		0000-9999
.323 Routing Table	7	Polling Count	5		00-99
	8	Polling Interval	2		00-99
-NET Data ~	9	Zone Number	[1]		1 - 32
T-NET Basic Attributes(330)				J	
T-NET CM attributes(331)					
T-NET LM attributes(332)					
T-NET FoPSTN Table (333)	-				
T-NET Control Contact(334)					
T-NET Music/Alarm(335~336)					
one Data					
evice Login					

• Assign zone number for master system (eg, 1)



eMG800 Master Site Configuration

PECS eMG800					Change Language	_
Board Based Data						
CO Line Data	<	Favorite PGM	Zone Attribute(439)	T-NET LM attributes(332)		
System Data						Save
Station Group Data	Index		Value	Range		
ISDN Line Data		MAC Address	b40edcbf55fa			
		IP Address	192.168.150.113			
SIP Data	1	IPKTS Port	5588	0001-9999		
Tables Data		Total number of port	600	000-999		
		Multicast IP Address	239.20.19.1			
Networking Data		Zone Number	2	1 - 32		
H.323 Routing Table		MAC Address				
T-NET Data v		IP Address				
	2	IPKTS Port	5588	0001-9999		
T-NET Basic Attributes(330)	2	Total number of port	0	000-999		
T-NET CM attributes(331)		Multicast IP Address	239.20.19.1			
T-NET LM attributes(332)		Zone Number		1 - 32		
T-NET FoPSTN Table (333)		MAC Address				
T-NET Control Contact(334)		IP Address				
T-NET Music/Alarm(335~336)		IPKTS Port	5588	0001-9999		
T-NET ISDN Clock Priority(337)	3	Total number of port	0	000-999		
Zone Data		Multicast IP Address	239.20.19.1			

- Assign MAC/IP and total port number of eMG800 slave system. The "total number of port" should be lager than CCM attribute of eMG800 slave system.
- Assign zone number for slave system (eg, 2)



eMG800 slave system Configuration

	👔 iPECS eMG800 Web Admi 🛛 🗙 📝 iPECS eMG800	Web Ad	dmii ×	Man Sunghap Solder				- 0 ×
+	> C 🛛 😹 https://192.168.150.114/a	index	html					☆ =
	Apps 📝 IN-HOUSE-UCP_600 📝 UCP_100 📝	eMG_80	00 📝 eMG80_STP1	MG80_P1 MG80 STP2				
	PECS eMG800		Administration	Maintenance			 Change Language	Log Out
	Board Based Data	_						
	CO Line Data	<	Favorite PGN	T-NET Basic Attribute	×			× >
	System Data							Save
	Station Group Data		Order La	Attribute	Value			
	ISDN Line Data	1		T-NET Enable	ON T			
	SIP Data							
	Tables Data							
4	Networking Data							
	T-NET Data							
	T-NET Basic Attributes(330)							
	T-NET CM attributes(331)							
	T-NET LM attributes(332)					5		
	T-NET FoPSTN Table (333)							
	T-NET Control Contact(334) T-NET Music/Alarm(335~336)							
	T-NET ISDN Clock Priority(337)							
	Zone Data							
	Device Login							
1	[Version] Appl(R1.0.2), Boot(A.0Aa), Kernel(-), H	/W(0)		Copyright Ericsson-LG E	nterprise Co., Ltd. 2013.			

 Enable TNET in eMG800 slave system(eMG800-EXPS license should be installed) All station and CO device will be registered to master system and license will be checked in master if eMG800-EXPS license is used.
 if Temp license is used then TNET should be enabled for all device in PGM 132.

TNET should be enabled for other device (not station and CO line) in PGM 132.



eMG800 slave system Configuration

oard Based Data						
O Line Data	<	Favorite PGM	Zone Attribute(439)	T-NET LM attributes(332)	T-NET CM attribute	s(331) × O
ystem Data						Sav
tation Group Data	Order <u>↓</u> a	Attribute		Value	F	tange
SDN Line Data	1	Register Enable	ON V			
SDN Line Data	2	CM Server Type	eMG/UCP 🔻			
IP Data	3	CM 1 (Active)	IP Address : 192.168.150.113	MAC Address : B40EDC2	81BAF	
ables Data	4	CM 2	IP Address : 0.0.0.0	MAC Address :	0	
ables Data	5	IPKTS Port Number	5588		00	01-9999
etworking Data	6	Total number of port	600		00	00-9999
.323 Routing Table	7	Polling Count	5		00	-99
	8	Polling Interval	2		00	-99
-NET Data 🗸	9	Zone Number	1		1	- 32
	19-19- 19-					
T-NET Basic Attributes(330) T-NET CM attributes(331)						
T-NET LM attributes(332)						
T-NET FoPSTN Table (333)						
T-NET Control Contact(334)						
T-NET Music/Alarm(335~336)						
T-NET ISDN Clock Priority(337)						

- Select master system type
- Assign MAC/IP address of slave system and total number of port that can be registered to master.
- Assign zone number for master system (eg, 1)



Assign VOIB/VMIB for each zone

3	RTP Relay Rule	If Need 🔻				
4	1st RTP Relay Device Slot Seq.	[19]				
5	2nd RTP Relay Device Slot Seq.					
6	VM Device Slot Seq.	1: 21 2: 3:				

• Assign VOIB and VMIB slot number for zone 1

eg, 19 is VOIB slot number and 21 is VMIB slot number of master(zone 1)

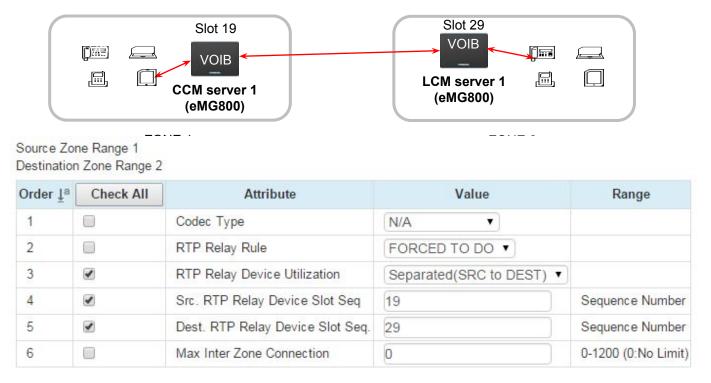
3	RTP Relay Rule	If Need 🔻
4	1st RTP Relay Device Slot Seq.	29
5	2nd RTP Relay Device Slot Seq.	
6	VM Device Slot Seq.	1: 30 2: 3:
-		

• Assign VOIB and VMIB slot number for zone 2

eg, 29 is VOIB slot number and 30 is VMIB slot number of slave(zone 2)



Assign VOIB for inter zone (1 <-> 2)



This configuration could be used to expand number of TDM port of eMG800.

•Assign two RTP relay deice for inter zone in PGM 441

eg, 19 is VOIB slot number of master(zone 1), 29 is VOIB slot number of slave(zone2)



Your Communications Solution