

Amendment No. 1 - DISTRICT CATEGORIES

No	DISTRICT	TYPE OF DISTRICT	SLT Active SP	NSLT Active SP	Active Total	Terminated SP	Total	Prepayment	Streetlight	Grand Total
	Accra East		361	139,675	140,036	32,276	172,312		21	172,333
1	Dodowa District	A	20	23,563	23,583	953	24,536			
2	Kwabanya District	A	6	34,408	34,414	4,786	39,200			
3	Legon District	A	56	20,041	20,097	8,143	28,240			
4	Makola District	A	124	21,631	21,755	4,960	26,715			
5	Mampong District	B	5	14,938	14,943	1,267	16,210			
6	Roman Ridge District	A	54	24,584	24,638	7,262	31,900			
7	Teshie District	A	96	510	606	4,905	5,511			
	Accra West		240	55,922	56,162	59,568	115,730		7	115,737
1	Ablekuma District	A	1	3,483	3,484	8,055	11,539			
2	Achimota District	A	16	161	177	12,799	12,976			
3	Bortianor District	A	14	476	490	11,706	12,196			
4	Dansoman District	A	5	165	170	10,847	11,017			
5	Kaneshie District	A	113	342	455	5,520	5,975			
6	Korle-bu District	A	68	150	218	8,571	8,789			
7	Nsawam District	A	23	51,145	51,168	2,070	53,238			
	Tema		383	101,343	101,726	35,747	137,473		15	137,488
1	Ada District	A	9	27,356	27,365	1,120	28,485			
2	Afiencya District	A	25	15,829	15,854	3,606	19,460			
3	Krobo District	A	24	48,055	48,079	1,937	50,016			
4	North Tema District	A	131	1,199	1,330	6,511	7,841			
5	Nungua District	A	36	2,008	2,044	7,678	9,722			
6	Prampram District	A	41	6,546	6,587	5,721	12,308			
7	South Tema District	A	117	350	467	9,174	9,641			
	Ashanti West		76	271,452	271,528	39,514	311,042		12	311,054
1	Abuakwa District	A	4	51,460	51,464	7,584	59,048			
2	Bekwai District	A	3	37,635	37,638	1,456	39,094			
3	Danyame District	A	31	41,123	41,154	15,801	56,955			
4	Dunkwa District	B	21	15,736	15,757	504	16,261			
5	New Edubiase District	B	1	18,507	18,508	497	19,005			
6	Obuasi District	A	1	47,309	47,310	2,488	49,798			
7	Offinso District	B	4	19,945	19,949	704	20,653			
8	Suame District	A	11	39,737	39,748	10,480	50,228			
	Ashanti East		66	181,516	181,582	66,766	248,348		10	248,358
1	Asokwa District	A	10	7,501	7,511	32,000	39,511			
2	Ayigya District	A	8	23,161	23,169	19,264	42,433			
3	Effiduase District	B	3	29,422	29,425	745	30,170			
4	Konongo District	A	5	38,448	38,453	1,468	39,921			
5	Kwabre District	B	4	31,544	31,548	4,062	35,610			
6	Mampong(Ashanti East) District	B	3	23,334	23,337	1,595	24,932			
7	Manhyia District	A	33	28,106	28,139	7,632	35,771			
	Western		130	250,669	250,799	33,258	284,057		34	284,091
1	Agona District	B	0	16,237	16,237	1,351	17,588			
2	Asankragua District	B	0	14,026	14,026	724	14,750			
3	Axim District	B	6	26,695	26,701	1,017	27,718			
4	Bibiani District	B	6	26,792	26,798	507	27,305			
5	Bogoso District	B	2	33,936	33,938	552	34,490			
6	Enchi District	B	0	9,794	9,794	446	10,240			
7	Half Assini District	B	1	16,502	16,503	1,007	17,510			
8	Juabeso District	B	0	27,415	27,415	1,001	28,416			
9	Sefwi Wiawso District	B	6	33,223	33,229	705	33,934			
10	Sekondi District	A	23	10,598	10,621	7,490	18,111			
11	Takoradi District	A	66	557	623	17,657	18,280			

12	Tarkwa District	A
----	-----------------	---

20 34,894 34,914 801 35,715

No	DISTRICT	TYPE OF DISTRICT
Central		
1	Ajumako District	B
2	Assin-Fosu District	B
3	B. Asikuma District	B
4	Cape-Coast District	A
5	Kasoa North District	A
6	Kasoa South District	A
7	Saltpond District	B
8	Swedru District	B
9	Twifo-Praso District	B
10	Winneba District	A
Eastern		
1	Akim Oda District	A
2	Akim-Tafo District	B
3	Akwatia District	B
4	Asamankese District	B
5	Aseewa District	B
6	Begoro District	B
7	Donkorkrom District	B
8	Kade District	B
9	Kibi District	B
10	Koforidua District	A
11	Mpraeso District	B
12	New Abirem District	B
13	Nkawkaw District	B
14	Suhum District	B

59 205,227 205,286 47,360 252,646 16 252,662

5 18,689 18,694 271 18,965

1 25,673 25,674 914 26,588

0 13,828 13,828 206 14,034

28 17,564 17,592 13,075 30,667

11 29,102 29,113 11,473 40,586

0 17,577 17,577 2,272 19,849

1 25,052 25,053 1,123 26,176

4 20,181 20,185 9,148 29,333

2 22,827 22,829 847 23,676

7 14,734 14,741 8,031 22,772

38 192,432 192,470 43,631 236,101 17 236,118

8 37,189 37,197 2,870 40,067

2 18,088 18,090 3,765 21,855

1 8,030 8,031 493 8,524

2 20,413 20,415 2,160 22,575

3 9,022 9,025 638 9,663

1 6,330 6,331 351 6,682

0 6,411 6,411 733 7,144

2 13,921 13,923 682 14,605

0 5,825 5,825 351 6,176

12 6,597 6,609 21,042 27,651

1 14,260 14,261 780 15,041

5 14,839 14,844 562 15,406

0 12,483 12,483 8,403 20,886

1 19,024 19,025 801 19,826

Volta		
1	Akatsi District	B
2	Dambai District	B
3	Denu District	B
4	Ho District	A
5	Hohoe District	B
6	Jasikan District	B
7	Keta District	B
8	Kpando District	B
9	Kpeve District	B
10	Nkwanta District	B
11	Sogakope District	B

40 191,201 191,241 33,415 224,656 13 224,669

0 21,263 21,263 1,887 23,150

0 6,285 6,285 977 7,262

5 41,767 41,772 2,442 44,214

14 15,667 15,681 12,072 27,753

4 13,839 13,843 7,384 21,227

4 9,867 9,871 818 10,689

3 13,734 13,737 890 14,627

0 16,597 16,597 1,829 18,426

4 17,433 17,437 2,453 19,890

0 9,345 9,345 928 10,273

6 25,404 25,410 1,735 27,145

TOTAL is 81 sites 39 A and 42 B

391,535 0 124 1,810,177

DISTRICT CATEGORIES

No	DISTRICT	TYPE OF DISTRICT	SLT Active SP	NSLT Active SP	Active Total	Terminated SP	Total	Prepayment	Streetlight
1	Dodowa District	A	20	23,563	23,583	953	24,536		
2	Kwabenya District	A	6	34,408	34,414	4,786	39,200		
3	Legon District	A	56	20,041	20,097	8,143	28,240		
4	Makola District	A	124	21,631	21,755	4,960	26,715		
5	Roman Ridge District	A	5	14,938	14,943	1,267	16,210		
6	Teshie District	A	54	24,584	24,638	7,262	31,900		
7	Ablekuma District	A	96	510	606	4,905	5,511		
8	Achimota District	A	1	3,483	3,484	8,055	11,539		
9	Bortianor District	A	16	161	177	12,799	12,976		
10	Dansoman District	A	14	476	490	11,706	12,196		
11	Kaneshie District	A	5	165	170	10,847	11,017		
12	Korle-bu District	A	113	342	455	5,520	5,975		
13	Ada District	A	68	150	218	8,571	8,789		
14	Afiencya District	A	23	51,145	51,168	2,070	53,238		
15	Krobo District	A	9	27,356	27,365	1,120	28,485		
16	North Tema District	A	25	15,829	15,854	3,606	19,460		
17	Prampram District	A	24	48,055	48,079	1,937	50,016		
18	Abuakwa District	A	131	1,199	1,330	6,511	7,841		
19	Bekwai District	A	36	2,008	2,044	7,678	9,722		
20	Danyame District	A	41	6,546	6,587	5,721	12,308		
21	Obuasi District	A	117	350	467	9,174	9,641		
22	Suame District	A	4	51,460	51,464	7,584	59,048		
23	Asokwa District	A	3	37,635	37,638	1,456	39,094		
24	Ayigya District	A	31	41,123	41,154	15,801	56,955		
25	Konongo District	A	21	15,736	15,757	504	16,261		
26	Manhyia District	A	1	18,507	18,508	497	19,005		
27	Sekondi District	A	1	47,309	47,310	2,488	49,798		
28	Takoradi District	A	4	19,945	19,949	704	20,653		
29	Tarkwa District	A	11	39,737	39,748	10,480	50,228		
30	Cape-Coast District	A	10	7,501	7,511	32,000	39,511		
31	Kasoa North District	A	8	23,161	23,169	19,264	42,433		
32	Kasoa South District	A	3	29,422	29,425	745	30,170		
33	Winneba District	A	5	38,448	38,453	1,468	39,921		
34	Akim Oda District	A	4	31,544	31,548	4,062	35,610		
35	Koforidua District	A	3	23,334	23,337	1,595	24,932		
36	Ho District	A	33	28,106	28,139	7,632	35,771		
37	Nsawam District	A	0	14,026	14,026	724	14,750		
38	Nungua District	A	6	26,695	26,701	1,017	27,718		
39	South Tema District	A	0	9,345	9345	928	10,273		

Grand Total

Amendment No. 2

		COMSYS		VODAFONE		GRIDCO		MTN		TIGO		ECG	
DISTRICT/REGION													
FROM	TO		NEW Bandwidth		NEW Bandwidth		NEW Bandwidth		NEW Bandwidth		NEW Bandwidth		NEW Bandwidth
SUB-T/STN-G	PROJECTS OFFICE											1Gbps	
												19Mbps	30 Mps
ACHIMOTA STATION H	PROJECTS OFFICE	20Mbps	30 Mps									1Gbps	
PROJECT OFFICE	TELCO's					100 Mbps							
HERITAGE TOWERS	PROJECTS OFFICE	4Mbps	10 Mps									22Mbps	30 Mps
ELECTRO-VOLTA-	PROJECTS OFFICE	10Mbps	20 Mps									30Mbps	40 Mps
ACCRA EAST													
S/E-MAKOLA	PROJECTS OFFICE											17Mbps	30 Mbps
												1Gbps	
N/E-LEGON	TELCO's					100 Mbps		30 Mbps		30 Mbps			
N/E-LEGON	PROJECTS OFFICE	2Mbps	10 Mbps					45Mbps		2Mbps		1Gbps	
												5.6Mbps	10 Mbps
MAMPONG	PROJECTS OFFICE											2.9Mbps	10 Mbps
												15Mbps	40 Mbps
TESHIE	PROJECTS OFFICE											4Mbps	10 Mbps
KWABENYA	PROJECTS OFFICE	2Mbps	4 Mbps									1Gbps	
												7Mbps	20 Mbps
DODOWA	PROJECTS OFFICE											1Gbps	
												7Mbps	20 Mbps
ACCRA WEST													
REGIONAL OFFICE	PROJECTS OFFICE											1Gbps	
												19Mbps	30 Mbps
S/W-KORLE BU	PROJECTS OFFICE											8.5Mbps	20 Mbps
N/W-ACHIMOTA	PROJECTS OFFICE											1.2Mbps	4 Mbps
												3.5Mbps	10 Mbps
BORTIANOR	PROJECTS OFFICE											5Mbps	10 Mbps
DANSOMAN	PROJECTS OFFICE											3.5Mbps	10 Mbps
KANASHIE	PROJECTS OFFICE											19Mbps	20 Mbps
ABLEKUMA	PROJECTS OFFICE											4.5Mbps	10 Mbps
TEMA													
REGIONAL OFFICE	PROJECTS OFFICE					20Mbps	40 Mbps					1Gbps	
												17Mbps	40 Mbps
SOUTH	PROJECTS OFFICE					20Mbps	40 Mbps					1Gbps	
												16Mbps	30 Mbps
NORTH	PROJECTS OFFICE					20Mbps	40 Mbps					1Gbps	
												8Mbps	15 Mbps
PRAMPAM	PROJECTS OFFICE					20Mbps	40 Mbps					12Mbps	30 Mbps
NUNGUA	PROJECTS OFFICE					20Mbps	40 Mbps					9Mbps	6 Mbps
AFIENYA DISTRICT	PROJECTS OFFICE					20Mbps	40 Mbps					1Gbps	
												11.8Mbps	20 Mbps
ADA	PROJECTS OFFICE							2Mbps	10 Mbps			9.6Mbps	10 Mbps

SOMANYA	PROJECTS OFFICE							2Mbps	10 Mbps			2.5Mbps	6 Mbps
ASHANTI WEST													
KUMASI SOUTH WEST	PROJECTS OFFICE			10Mbps	20 Mbps	20Mbps	30 Mbps						
KUMASI NORTH WEST (SUAME DIST)	PROJECTS OFFICE			10Mbps	20 Mbps	20Mbps	30 Mbps						
BEKWAI	PROJECTS OFFICE			10Mbps	20 Mbps	20Mbps	30 Mbps						
OFFINSO	PROJECTS OFFICE			10Mbps	20 Mbps	20Mbps	30 Mbps	2Mbps	4 Mbps				
ABUAKWA (DENYAME)	PROJECTS OFFICE			10Mbps	20 Mbps	20Mbps	30 Mbps						
OBUASI	PROJECTS OFFICE					20Mbps		2Mbps	4 Mbps				
DUNKWA	PROJECTS OFFICE					20Mbps		2Mbps	4 Mbps				
NEW ADUBIASE	PROJECTS OFFICE	512Kpbs	1 Mbps					2Mbps	4 Mbps	2Mbps	4 Mbps		
ASHANTI EAST													
REGIONAL OFFICE	PROJECTS OFFICE			10Mbps	1 Gbps	20Mbps	1 Gbps						
KONONGO	PROJECTS OFFICE			2Mbps		20Mbps							
EFFIDUASE	PROJECTS OFFICE			10Mbps	20 Mbps	20Mbps	40 Mbp						
MAMPONG	PROJECTS OFFICE							2Mbps	4 Mbps				
KWABRE	PROJECTS OFFICE			10Mbps	20 Mbps	20Mbps	40 Mbp						
AYIGYA	PROJECTS OFFICE			10Mbps	20 Mbps	20Mbps	40 Mbp						
ASOKWA	PROJECTS OFFICE			10Mbps	20 Mbps	20Mbps	40 Mbp						
MANHYIA	PROJECTS OFFICE			10Mbps	20 Mbps	20Mbps	40 Mbp						
WESTERN													
TARKORADI	PROJECTS OFFICE			4Mbps	10 Mbps	20Mbps	40 Mbp						
SEKONDI	PROJECTS OFFICE			4Mbps	10 Mbps	20Mbps	40 Mbp						
BIBIANI	PROJECTS OFFICE	512Kpbs	2 Mbps					2Mbps	4 Mbps	2Mbps	4 Mbps		
SEFWI WIASO	PROJECTS OFFICE	1Mbps	2 Mbps					2Mbps	4 Mbps	2Mbps	4 Mbps		
JUABESO	PROJECTS OFFICE	1Mbps	2 Mbps					2Mbps	4 Mbps	2Mbps	4 Mbps		
ENCHI	PROJECTS OFFICE	512Kpbs	2 Mbps					2Mbps	4 Mbps	2Mbps	4 Mbps		
ASANKRAGWA	PROJECTS OFFICE	512Kpbs	2 Mbps					2Mbps	4 Mbps	2Mbps	4 Mbps		
TARKWA	PROJECTS OFFICE	2Mbps						2Mbps	4 Mbps	2Mbps	4 Mbps		
AXIM	PROJECTS OFFICE	1Mbps						2Mbps	4 Mbps	2Mbps	4 Mbps		
HALF ASSINI	PROJECTS OFFICE	1Mbps	2 Mbps					2Mbps	4 Mbps	2Mbps	4 Mbps		
BOGOSO	PROJECTS OFFICE	1Mbps	2 Mbps					2Mbps	4 Mbps	2Mbps	4 Mbps		
AGONA NKWANTA	PROJECTS OFFICE	1Mbps	2 Mbps					2Mbps	4 Mbps	2Mbps	4 Mbps		
CENTRAL													
REGIONAL OFFICE	PROJECTS OFFICE			4Mbps	8 Mbps	20Mbps	30 Mbps						
BREMAN ASIKUMA	PROJECTS OFFICE			4Mbps	8 Mbps	20Mbps	30 Mbps			2Mbps	4 Mbps		
SALTPOND	PROJECTS OFFICE			4Mbps	8 Mbps	20Mbps	30 Mbps						
AJUMAKO	PROJECTS OFFICE			4Mbps	8 Mbps	20Mbps	30 Mbps			2Mbps	4 Mbps		
SWEDRU	PROJECTS OFFICE			4Mbps	8 Mbps	20Mbps				2Mbps	4 Mbps		
WINNEBA	PROJECTS OFFICE			4Mbps		20Mbps							
TWIFO PRASO	PROJECTS OFFICE	1Mbps	2 Mbps					2Mbps	4 Mbps	2Mbps	4 Mbps		
ASSIN FOSU	PROJECTS OFFICE	1Mbps	2 Mbps					2Mbps	4 Mbps	2Mbps	4 Mbps		
EASTERN													
KIBI	PROJECTS OFFICE	512Kpbs	2 Mbps					2Mbps	4 Mbps				
KOFORIDUA	PROJECTS OFFICE			4Mbps	10 Mbps	20Mbps	30 Mbps						

DONKORKROM	PROJECTS OFFICE	1Mbps	2 Mbps					2Mbps	4 Mbps	2Mbps	4 Mbps		
KADE	PROJECTS OFFICE	1Mbps	2 Mbps							2Mbps	4 Mbps		
ASAMANKESE	PROJECTS OFFICE	1Mbps	2 Mbps					2Mbps		2Mbps			
AKIM ODA	PROJECTS OFFICE	1Mbps	2 Mbps					2Mbps					
NEW ABRIEM	PROJECTS OFFICE	1Mbps	2 Mbps					2Mbps		2Mbps			
MPRAESO	PROJECTS OFFICE	1Mbps	2 Mbps					2Mbps		2Mbps			
ASSESEWA	PROJECTS OFFICE	512Kpbs	1 Mbps					2Mbps	4 Mbps	2Mbps	6 Mbps		
BEGORO	PROJECTS OFFICE	512Kpbs	1 Mbps					2Mbps	4 Mbps	2Mbps	6 Mbps		
AKWATIA	PROJECTS OFFICE							2Mbps	4 Mbps	2Mbps	6 Mbps		
VOLTA													
REGIONAL OFFICE	PROJECTS OFFICE			4Mbps	10 Mbps								
KPANDO	PROJECTS OFFICE			4Mbps	8 Mbps					2Mbps	8 Mbps		
HOHOE	PROJECTS OFFICE			4Mbps	8 Mbps			2Mbps	4 Mbps	2Mbps	8 Mbps		
JASIKAN	PROJECTS OFFICE			4Mbps	8 Mbps			2Mbps	4 Mbps	2Mbps	8 Mbps		
AKATSI	PROJECTS OFFICE			4Mbps	8 Mbps			2Mbps	4 Mbps				
KETA	PROJECTS OFFICE			4Mbps	8 Mbps			2Mbps	4 Mbps	2Mbps	8 Mbps		
DENU	PROJECTS OFFICE			4Mbps	8 Mbps			2Mbps	4 Mbps	2Mbps	8 Mbps		
KPEVE	PROJECTS OFFICE			4Mbps	8 Mbps			2Mbps	4 Mbps	2Mbps	8 Mbps		
SOGAKOPE	PROJECTS OFFICE			4Mbps	8 Mbps					2Mbps	8 Mbps		
DAMBAI	PROJECTS OFFICE	512Kpbs	1 Mbps					2Mbps	4 Mbps	2Mbps	8 Mbps		
NKWANTA	PROJECTS OFFICE	512Kpbs	1 Mbps					2Mbps	4 Mbps	2Mbps	8 Mbps		

Amendment No. 3-Equipment-count

Item Name	Description	Quantity
Infrastructure Project Office		
UPS	UPS	2
AVR	AVR	2
Power	Electrical power (DB)	2
GenSet	Genset	2
Electrical	Electrical General	1
CCTV	CCTV 5.5m * 11m *3m	1
Security systems	Fire Suppuration system 5.5m * 11m *3m	1
Access Control	Access control	1
BMS	Building Management System	1
Racks	racks 42U	9
CRAC	AC for Datacenter 20TR	3
Infrastructure Legon		
UPS	48KVA UPS	2
AVR	AVR 100 KVA	2
Power	Electrical power (DB)	2
GenSet	Gen Set 100 KVA	2
Electrical	Electrical General	1
CCTV	CCTV 5.5m * 11m *3m	1
Security systems	Fire Suppuration system 5.5m * 11m *3m	1
Access Control	Access control	1
BMS	BMS system	1
Racks	racks 42U	5
CRAC	AC for Datacenter 15TR	3
Infrastructure Kumasi		
UPS	UPS	2
AVR	AVR	2
Power	Electrical power (DB)	2
GenSet	Genset	1
Electrical	Electrical General	1
CCTV	CCTV 5.5m * 11m *3m	1
Security systems	Fire suppression system 5.5m * 11m *3m	1
Access Control	Access control	1
Racks	racks 42U	3
CRAC	AC for Datacenter 15TR	2
Infrastructure Subtotal		
Equipment		
DC HBR WAN routers	DC WAN access routers	4
DC HAR CE routers	DC WAN CE routers	8
Remote CE WAN routers	remote sites WAN routers	120
Remote Site PBX	Remote sites PBX	120
Remote User VoIP license	Remotes sites user VoIP license	2400
Centralised VoIP Communication Controller	Enterprise communication server	2
Project Office/ HQ User VoIP license	Project Office and HQ users licenses	500

IP Phone with Video Conference (Exec)	Executive users VoIP phone handsets	50
IP Phone for Advanced users	Advanced users VoIP phone handsets	500
IP Phone for Users	Standard users VoIP phone handsets	1200
Wireless IP Phone for mobility	VoIP Wireless Phone for mobility users	50
Wireless Microphone for conference room	VoIP wireless speakers for conference room	10
Smart Teleconference system for HQ/Project Office	High end video conference	2
Smart Teleconference system regional sites	High end video conference	9
Remote sites PoE switches (8 ports)	PoE 8 ports switch	111
Regional sites PoE switches (48 ports)	48 ports access switch with PoE for regional offices	9
Primary Internal DC Firewall	Primary DC Internal Firewall	2
Primary External DC Firewall	Primary DC External Firewall	2
Legon Firewall	Secondary DC Firewall	2
Kumasi Firewall	Primary DC Internal Firewall	2
DC Core Switch	DC core switches	4
DC Aggregation Switches	DC Aggregation switches	8
DC Access switches	DC Access switches	30
DC High-end Servers blades, VM OS included / x86 servers	DC grade servers for VM hosts	28
DC SAN Storage	DC Storage Area Network for DC and DR with 60T	3
Cabling copper (9600 ft)	DC rack copper cabling	9600
Cabling fiber (1100 ft)	DC rack fiber cabling	1100
Support	Support service	1
Racks		17

Amendment No. 4-Training

The tables below display the indicative training needs. In addition to this training, bidder is expected propose a training project proposal that will ensure the ECG team the skill necessary to take ownership of the system proposed.

	Certification Track	CCNA RS	CCNP RS	CCNA Security	CCNP Security	CCNA DC	CCNP DC	CISSP
Team								
NSS (Network Support Services)	Attendees	10	10	10	10	4	4	3

	Certification Track	IP Fundamentals	CCNA Collaboration	CCNP Collaboration
Team				
Comm & S	Attendees	13	13	13

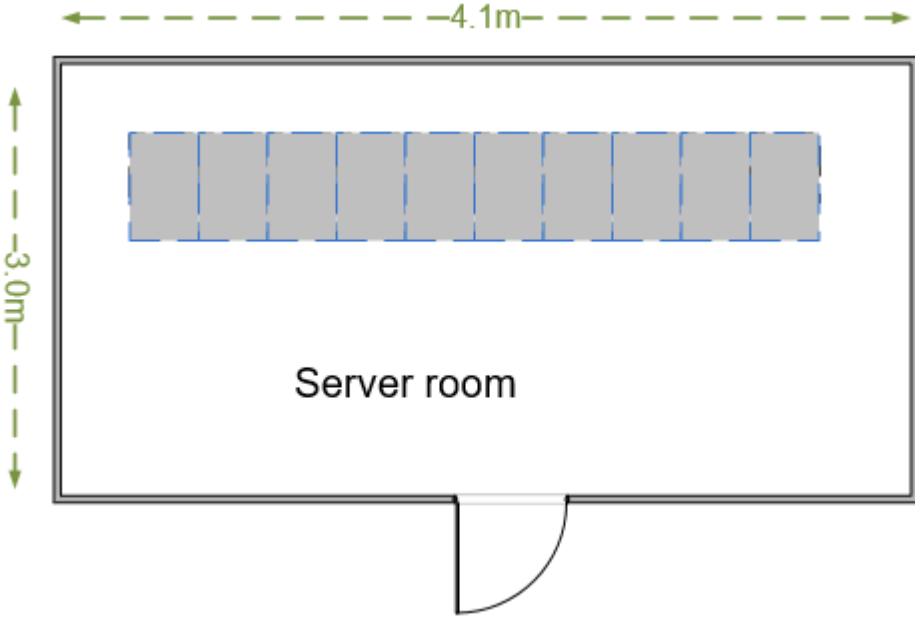
	Certification Track	IP Fundamentals	Citrix or Equivalent Admin	CCNA DC
Team				
Infrastructure Management (IM)	Attendees	13	7	6

Amendment No. 5-List-sites

SUB-T/STN-G
ACHIMOTASTATIONH
PROJECTOFFICE
HERITAGETOWERS
ELECTRO-VOLTA-
S/E-MAKOLA
N/E-LEGON
MAMPONG
TESHIE
KWABENYA
DODOWA
REGIONALOFFICE
S/W-KORLEBU
N/W-ACHIMOTA
BORTIANOR
DANSOMAN
KANASHIE
ABLEKUMA
REGIONALOFFICE
SOUTH
NORTH
PRAMPAM
NUNGUA
AFIENYADISTRICT
ADA
SOMANYA
KUMASISOUTHWEST
KUMASINORTHWEST (SUAMEDISTRICT)
BEKWAI
OFF INSO
ABUAKWA (DENYAME)
OBUASI
DUNKWA
NEWADUBIASE
REGIONALOFFICE
KONONGO
EFFIDUASE
MAMPONG
KWABRE
AYIGYA
ASOKWA
MANHYIA
TARKORADI
SEKONDI
BIBIANI
SEFWIWIASO
JUABESO
ENCHI
ASANKRAGWA
TARKWA
AXIM
HALFASSINI
BOGOSO
AGONANKWANTA
REGIONALOFFICE
BREMANASIKUMA
SALTPOND
AJUMAKO
SWEDRU
WINNEBA
TWIFOPRASO
ASSINFOSU
KIBI
KOFORIDUA
DONKORKROM
KADE
ASAMANKESE
AKIMODA
NEWABRIEM
MPRAESO
ASSESEWA
BEGORO
AKWATIA
REGIONALOFFICE
KPANDO
HOHOE
JASIKAN
AKATSI
KETA
DENU
KPEVE
SOGAKOPE
DAMBAI
NKWANTA

ADDENDUM 6: Layout for Kumasi DR

Floor Layout : Kumasi DR site



ADDENDUM 7:

STORAGE FOR DATA CENTER: Tentative/ minimum storage requirement as per the traffic may be indicated for having baseline for evaluation.

SERVER NAME	MEMORY CAPACITY	% UTILIZATION	HARD DRIVE SIZE	USED SPACE	PROCESSOR
SERVER1	192 GB	61	7.52 TB	5.42 TB	2.60GHZ
SERVER2	32 GB	78.75	1.08 TB	250 GB	2.30ghz
SERVER3	32 GB	41.88	1.08 TB	463 GB	2.30ghz
SERVER4	192 GB	52.1	12.64 TB	230 GB	2.60GHZ
SERVER5	192 GB	65	5.47 TB	260 GB	2.60GHZ
SERVER6	192 GB	40.3	6.01 TB	4.6 TB	2.60GHZ
SERVER7	176 GB	148	12.64 TB	640 GB	2.60GHZ
SERVER8	192 GB	26.86	4.04 TB	2.34 TB	2.60GHZ
SERVER9	192 GB	37.5	4.52 TB	2.06 TB	2.60GHZ
SERVER10	128 GB	97.7	3.83 TB	3.294 TB	2.60GHZ
SERVER11	128 GB	56.9	5.62 TB	3.86 TB	2.60GHZ
SERVER12	128 GB	72.3	6.82 TB	4.21 TB	2.60GHZ
SERVER13	128 GB	87	6.55 TB	4.61 TB	2.60GHZ
SERVER14	16 GB	37.5	1.1 TB	435 GB	2.33GHZ
SERVER15	24 GB	6.25	1.82 TB	80 GB	2.60GHZ
SERVER16	64 GB	4.2	600 GB	557 GB	2.40GHZ
SERVER17	64 GB	21.3	600 GB	438 GB	2.40GHZ
SERVER18	256 GB	58.2	1.09 TB	90 GB	2.60GHZ
SERVER19	256 GB	5.9	1.09 TB	160 GB	2.60GHZ
SERVER20	192 GB	78.9	11.38 TB	3.69 TB	2.60GHZ
SERVER21	192 GB	3.1	11.27 TB	5.89 TB	2.60GHZ
SERVER22	192 GB	56.01	9.09 TB	6.14 TB	2.60GHZ
SERVER23	192 GB	59.2	11.37 TB	9.194 TB	2.60GHZ
SERVER24	48 GB	36.5	1.824 TB	124 GB	2.40GHZ
SERVER25	192 GB	28.6	4 TB	1.61 TB	2.60GHZ
SERVER26	32 GB	48.4	836 GB	654 GB	2.33GHZ
SERVER27	384 GB	28.1	300 GB	257 GB	2.60GHZ
SERVER28	384 GB	42.9	300 GB	238 GB	2.60GHZ
SERVER29	128 GB	22.1	2.371 TB	1.876 TB	2.3GHZ
SERVER30	124 GB	32.3	2.371 TB	1.99 TB	2.60GHZ
SERVER31	12 GB	60	398 GB	314 GB	2.33GHZ
SERVER32	65 GB	50	1.6 TB	1.55 TB	2.33GHZ
SERVER33	128 GB	85	6.54 TB	207.19 GB	2.60GHZ
SERVER34	256 GB	57	1.2 TB	240 GB	2.60GHZ
SERVER35	256 GB	59	1.2 TB	223.02 GB	2.60GHZ
SERVER36	256 GB	49	1.2 TB	341 GB	2.60GHZ
SERVER37	256 GB	50.2	1.2 TB	406.2 GB	2.60GHZ
SERVER38	256 GB	51.03	1.2 TB	391 GB	2.60GHZ

SERVER39	64GB	29.6	550.75GB	2.2GB	2.60GHZ
SERVER40	64GB	73	550.75	2.45GB	2.60GHZ
SERVER41	64GB	71.3	1.4TB	519GB	2.60GHZ
SERVER42	64GB	69.2	1.4TB	521GB	2.60GHZ
SERVER43	64GB	68	1.4TB	622.3GB	2.60GHZ
SERVER44	64GB	77	1.4TB	599GB	2.60GHZ
SERVER45	64GB	72	1.4TB	600GB	2.60GHZ
SERVER46	64GB	64.3	1.4TB	648GB	2.60GHZ
SERVER47	64GB	68	1.4TB	543GB	2.60GHZ
SERVER48	64GB	66.23	1.4TB	601GB	2.60GHZ
SERVER49	64GB	65.1	1.4TB	675GB	2.60GHZ
SERVER50	64GB	69.89	1.4TB	509GB	2.60GHZ
SERVER51	64GB	74	1.4TB	511GB	2.60GHZ
SERVER52	64GB	73.1	1.4TB	572GB	2.60GHZ
SERVER53	64GB	21	1.81TB	956GB	2.10GHZ
SERVER54	64GB	24	1.81TB	899GB	2.10GHZ
SERVER55	64GB	20	1.81TB	908GB	2.10GHZ
SERVER56	64GB	22.1	1.81TB	1.226TB	2.10GHZ
SERVER57	64GB	21	1.81TB	1.1TB	2.10GHZ
SERVER58	64GB	26	1.81TB	967TB	2.10GHZ
SERVER59	64GB	25.03	1.81TB	943TB	2.10GHZ
SERVER60	64GB	23.1	1.81TB	899TB	2.10GHZ
SERVER61	189GB	69	300GB	280GB	3.50GHZ
SERVER62	62GB	78.3	300GB	277GB	3.0GHZ
SERVER63	62GB	78.34	300GB	278GB	3.0GHZ
SERVER64	30GB	57	1TB	896GB	3.0GHZ
SERVER65	7GB	88	720GB	563GB	2.33GHZ
SERVER66	64GB	56	2TB	1TB	2.60GHZ
SERVER67	32GB	64	1.8TB	978GB	3.6GHZ
SERVER68	32G	72	1.2TB	705GB	3.6GHZ
SERVER69	32GB	68	600GB	430GB	2.60GHZ
SERVER70	32GB	28	600GB	320GB	2.60GHZ
SERVER71	32GB	69	600GB	465GB	2.60GHZ
SERVER72	32GB	56.3	1.TB	367GB	2.60GHZ
SERVER73	64GB	39	1.6TB	1.1TB	3.6GHZ
SERVER74	32GB	28	1.8TB	799GB	3.6GHZ
SERVER75	64GB	39	730GB	420GB	2.33GHZ
SERVER76	128GB	41	12TB	2.4TB	3.6GHZ
SERVER77	128GB	38.2	12TB	2.29TB	3.6GHZ
SERVER78	128GB	31	12TB	2.71TB	3.6GHZ
SERVER79	64GB	62	14TB	8TB	3.6GHZ
SERVER80	32GB	32.3	600GB	391GB	3.6GHZ
SERVER81	32GB	29	600GB	420GB	3.6GHZ
SERVER82	64GB	42.11	6TB	2.91TB	3.6GHZ
SERVER83	32GB	44	2TB	891GB	2.33GHZ

SERVER84	16GB	50	500GB	280GB	2.20GHZ
SERVER85	16GB	57	500GB	250GB	2.20GHZ
SERVER86	16GB	61	500GB	240GB	2.20GHZ
SERVER87	32	50	500GB	271GB	2.20GHZ
SERVER88	8GB	70	26.26TB	20.5TB	3.30GHZ
SERVER89	4GB	71	69.9TB	59.1TB	3.40GHZ
SERVER90	8GB	69			

ADDENDUM 8 - Bandwidth of each regional office

Regional Office	Bandwidth
Accra East	1Gbps
Accra West	1Gbps
Ashanti SBU HQ	20Mbps shared ring on Telco1 (Main), 10Mbps on Telco2 (Backup)
Ashanti Adum Office	20Mbps shared ring on Telco1(Main), 10Mbps on Telco2(Backup); shared with Ashanti SBU HQ
Central	20Mbps shared ring on Telco1(Main), 4Mbps on Telco2(Backup)
Eastern	20Mbps shared ring on Telco 1(Main), 4Mbps on Telco2 (Backup)
Tema	1Gbps on ECG (Main), 20Mbps Shared ring on Telco1 (Backup)
Volta	4Mbps on Vodafone Telco2
Western	20Mbps Shared ring on Telco1 GridCo (Main), 4Mbps on Telco2 (Backup)

ADDENDUM 9**Address of each regional office**

ECG OPERATIONAL REGIONS	LOCATION	GPS CORDINATES	
		Latitude	Longitude
ACCRA EAST	Makola	5.54795	-0.20395
ACCRA WEST	Avenor	5.57926	-0.22062
TEMA	Tema, Community 2	5.6394	-0.00803
ASHANTI ADUM OFFICE	Kumasi, Adum	6°41'24.69"N	1°37'24.14"W
ASHANTI SBU HQ	Kumasi, Airport Roundabout	6.708195	-1.60656
WESTERN	Takoradi	4.88911	-1.74984
CENTRAL	Cape Coast	5°34'43.64"N	1° 0'15.16"W
EASTERN	Koforidua	6.09678	-0.25856
VOLTA	Ho	6.611687	-0.4626487

ADDENDUM 10

Address of each branch office

ECG OPERATIONAL REGIONS	LOCATION	GPS COORDINATES		NO. OF OFFICES	TOTAL OFFICES
		Latitude	Longitude		
					This Number does not include a total of about 213 Revenue Collection Points and Customer Service Centers throughout the operational areas
HEADQUARTERS	Projects Office (Head Office Annex)	5°34'1.10"N	0°13'10.00"W	8	140
	Sub Transmission /Station G	5°32'50.21"N	0°12'21.10"W		
	Tema Materials Depot	5°38'52.23"N	0°18.56"E		
	Aluworks Warehouse				
	Tema Bonded Warehouse	5°40'20.53"N	0°1'16.64"W		
	Heritage Towers	5°33'24.88"N	0°12'5.19"W		
	Electro-Volta House (Corporate Head Office)	5°32'58.44"N	0°11'40.92"W		
	Tema Training School	5°39'26.86"N	0°0'58.37"W		

ACCRA EAST	Accra East Regional Office and South East District Office (Makola)	5.54795	-0.20395	8
	North East District Office - Legon	5.655596	-0.180606	
	Mampong District Office	5°55'4.19"N	0°8'8.56"W	
	Roman Ridge District Office	5°35'54.23"N	0°11'32.03"W	
	Teshie District Office	5.6033	-0.12084	
	Osu CSC (near Papaye)			
	Kwabanya District Office	5.66742	-0.23473	
	Dodowa District Office	5°53'16.30"N	0°5'49.63"W	
ACCRA WEST	Accra West Regional Office	5.57926	-0.22062	10
	Regional Stores			
	South West District Office - Korle Bu	5.53492	-0.2333	
	North West District Offices - Achimota	5.63921	-0.24229	
	Nsawam District Office	5.807	-0.344333	
	North Ridge CSC			
	Dansoman District Office	5.54075	-0.265139	
	Dansoman Market CSC			
	Kaneshie District Office	5.57926	-0.22062	
	Ablekuma District Office	5°37'19.14"N	0°18'3.02"W	
TEMA	Tema Regional Office	5.6394	-0.00803	18
	Tema Regional Stores			
	Timber Market CSC			
	Tema Station H			
	Tema South District Office	5°38'28.42"N	0°0'15.91"W	
	Kpone CSC			
	Community 22 CSC			
	Tema North District Office	5°40'17.22"N	0°1'16.50"	

			W	
	Mataheko CSC			
	Nungua Old Township CSC			
	Sakumono CSC			
	Sege CSC			
	Nuaso CSC			
	Prampram District Office	5.71048	0.10977	
	Nungua District Office	5°38'30. 32"N	0° 3'31.35" W	
	Afiencya District Office	5.80127	0.00595	
	Ada District Office	5.80495	0.61544	
	Krobo District Office - Somanya	6° 6'3.60" N	0° 1'28.31" W	
ASHANTI SBU	Adum Office	6°41'24. 69"N	1°37'24. 14"W	27
	Abuakwa Business Center	6.67693	-1.63871	
	Suame Business Center	6.69019 1	- 1.623371	
	Gyinaase CSC			
	Danyame Business Center	6.67669 3	-1.63875	
	Juaso CSC			
	Ashanti SBU Workshop	6°41'21. 93"N	1°37'34. 82"W	
	Obuasi Business Center	6°12'20. 67"N	1°40'14. 06"W	
	Hemang CSC			
	Dunkwa Business Center	5°57'40. 54"N	1°46'29. 96"W	
	New Edubiase Business Center	6° 3'38.81 "N	1°23'34. 15"W	
	Bekwai Business Center	6.45574 9	- 1.581943	
	Kuntense CSC			
	Offinso Business Center	6.45574 9	- 1.581943	
	Agogo CSC			
	Ashanti SBU Headquarters/	6.70819	-1.60656	

	Manhyia Business Center	5			
	Boadi Warehouse				
	Bantama CSC				
	Anwomaso BSP				
	Konongo Business Center	6.62374	-		
		9	1.218264		
	Ayigya Maxima CSC				
	Ejisu CSC				
	Effiduase Business Center	6.84460	-		
		9	1.390689		
	Mampong Business Center	7.00963	-		
		7	1.396414		
	Kwabre Business Center	6.75462	-		
		6	1.599366		
	Ayigya Business Center	6.55658	-1.5812		
	Asokwa Business Center	6.67552	-		
		4	1.603218		
WESTER N	Western Regional Office/ Takoradi District Office	4.88911	-1.74984	16	
	Regional Stores (Ewusiejoe)				
	Takoradi Control Center (Freezones)				
	Sekondi District Office	4.93469	-		
		1	1.710278		
	Bibiani District Office	6°27'22.	2°19'12.		
		28"N	25"W		
	Shama CSC				
	Sefwi Wiawso District Office	6°12'23.	2°29'23.		
		72"N	93"W		
	Juabeso District Office	6°20'31.	2°49'49.		
		34"N	37"W		
	Enchi District Office	5°49'42.	2°49'13.		
		56"N	73"W		
	Asankrangwa District Office	5°48'59.	2°26'1.3		
		15"N	6"W		
	Tarkwa District Office	5°17'59.	1°59'56.		
		53"N	47"W		
	Axim District Office	4°56'38.	2°20'36.		
		58"N	82"W		
	Bogoso Old CSC				
	Half Assini District Office	5°	2°52'23.		
		2'53.48	59"W		
		"N			
	Bogoso District Office	5°	1°59'52.		

		32'55.8 "N	6''W	
	Agona Nkwanta District Office	4°53'27. 92''N	1°57'36. 05''W	
CENTRAL	Central Regional Office	5°34'43. 64''N	1° 0'15.16'' W	15
	Regional Warehouse			
	Cape Coast Control Center			
	Breman Asikuman District Office	5.11492	-1.24314	
	Elmina CSC (Elmina Junction)			
	Saltpond District Office	5.20644	-1.05814	
	Mankessim CSC			
	Ajumako District Office	5.42928	-0.9603	
	Abura CSC			
	Swedru District Office	5°31'31. 40''N	0°41'55. 11''W	
	Winneba District Office	5.37794 7	- 0.642004	
	Kasoa North District Office	5°32'0.8 9''N	0°25'31. 73''W	
	Kasoa South District Office	5°32'5.9 7''N	0°24'44. 79''W	
	Twifo Praso District Office	5°36'33. 59''N	1°32'48. 41''W	
Assin Fosu District Office	5°42'0.0 4''N	1°16'39. 11''W		
EASTERN	Eastern Regional Office	6.09678	-0.25856	16
	Nkawkaw District Office	6.55667 1	- 0.779696 9	
	Suhum District Office	6° 2'28.36 "N	0°26'34. 37''W	
	Kibi District Office	6° 9'29.60 8''N	0°33'32. 819''W	
	Anyinam CSC			

	Donkorkrom District Office	6° 2'28.36 "N	0°26'34. 37"W		
	Akwatia District Office	6° 2'28.36 "N	0°26'34. 37"W		
	Asamankese District Office	5°51'52. 63"N	0°40'7.3 9"W		
	Abetifi CSC				
	Akim Oda District Office	5°55'50. 30"N	0°58'46. 60"W		
	New Abirem District Office	6°20'34. 19"N	0°59'52. 19"W		
	Mpraeso District Office	6°34'32. 00"N	0°45'32. 00"W		
	Ofoase CSC				
	Akim Tafo District Office	6°13'22. 22"N	0°21'52. 45"W		
	Assesewa District Office	6°22'56. 64"N	0° 8'39.91" W		
	Begoro District Office	6°23'16. 19"N	0°22'35. 18"W		
VOLTA	Volta Regional Office/ Ho District Office	6.61168 7	0.462648 7	14	
	Kpando District Office	6.99739	0.300103 9		
	Aflao CSC				
	Hohoe District Office	7.14378	0.47694		
	Jasikan District Office	7.4098	0.45849		
	Akatsi District Office	6° 7'0.84" N	0°46'54. 66"E		
	Keta District Office	5°53'28. 57"N	0°59'5.8 2"E		
	Dzolokpuita CSC				
	Denu District Office	6° 5'56.77 "N	1° 8'57.31" E		
	Kpeve District Office	6°40'47. 99"N	0°19'36. 73"E		
	Sogakope District Office	6° 0'3.38" N	0°36'2.8 4"E		
	Dambai District Office	8° 3'58.50	0°10'44. 65"E		

		"N			
	Peki CSC				
	Nkwanta District Office	8°15'39. 95"N	0°31'3.8 3"E		