Subscriber Data Management

Roadmap to Hardware Documentation

910-6561-001 Revision B July 2013



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Chapter 1

Introduction

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About this Manual

This document is an aid to navigate the respective manufacturer online documentation related to the Tekelec Subscriber Data Management (SDM) product. This document provides links to typical hardware-related user information. The referenced documentation includes hardware descriptions and operation information.

The hardware included with SDM utilizes the HP ProLiant G6/G7/Gen8 line of servers mounted in a cabinet. Dependent upon customer order and system configuration delivered, the cabinet may be powered by either an AC or DC input from the customer site. There are separate cabinet assemblies for AC or DC installations.

The individual customer ordered system configuration dictates the components installed in the cabinet.

Scope and Audience

Note: All personnel must be aware of and conform to the safety information provided throughout the documentation included with this product.

Testing, system software, or applications software are not discussed in this manual.

Organization

This manual is organized into the following chapters:

- Introduction provides information about the manual and installation support.
- *Roadmap* points to the respective manufacturer documentation for typical user information.

Documentation Admonishments

Admonishments are icons and text throughout this manual that alert the reader to assure personal safety, to minimize possible service interruptions, and to warn of the potential for equipment damage.

Table 1: Admonishments



DANGER:

(This icon and text indicate the possibility of *personal injury*.)

WARNING : (This icon and text indicate the possibility of <i>equipment damage</i> .)
CAUTION : (This icon and text indicate the possibility of <i>service interruption</i> .)

Customer Care Center

The Tekelec Customer Care Center is your initial point of contact for all product support needs. A representative takes your call or email, creates a Customer Service Request (CSR) and directs your requests to the Tekelec Technical Assistance Center (TAC). Each CSR includes an individual tracking number. Together with TAC Engineers, the representative will help you resolve your request.

The Customer Care Center is available 24 hours a day, 7 days a week, 365 days a year, and is linked to TAC Engineers around the globe.

Tekelec TAC Engineers are available to provide solutions to your technical questions and issues 7 days a week, 24 hours a day. After a CSR is issued, the TAC Engineer determines the classification of the trouble. If a critical problem exists, emergency procedures are initiated. If the problem is not critical, normal support procedures apply. A primary Technical Engineer is assigned to work on the CSR and provide a solution to the problem. The CSR is closed when the problem is resolved.

Tekelec Technical Assistance Centers are located around the globe in the following locations:

Tekelec - Global

Email (All Regions): support@tekelec.com

USA and Canada

Phone:

1-888-FOR-TKLC or 1-888-367-8552 (toll-free, within continental USA and Canada)

1-919-460-2150 (outside continental USA and Canada)

TAC Regional Support Office Hours:

8:00 a.m. through 5:00 p.m. (GMT minus 5 hours), Monday through Friday, excluding holidays

• Caribbean and Latin America (CALA)

<u>Phone:</u>

+1-919-460-2150

TAC Regional Support Office Hours (except Brazil):

10:00 a.m. through 7:00 p.m. (GMT minus 6 hours), Monday through Friday, excluding holidays

• Argentina

Phone:

0-800-555-5246 (toll-free)

• Brazil

<u>Phone:</u>

0-800-891-4341 (toll-free)

TAC Regional Support Office Hours:

8:00 a.m. through 5:48 p.m. (GMT minus 3 hours), Monday through Friday, excluding holidays

• Chile

<u>Phone:</u> 1230-020-555-5468

Colombia

Phone:

01-800-912-0537

• Dominican Republic

Phone:

1-888-367-8552

• Mexico

Phone:

001-888-367-8552

• Peru

Phone:

0800-53-087

• Puerto Rico

<u>Phone:</u>

1-888-367-8552 (1-888-FOR-TKLC)

• Venezuela

Phone:

0800-176-6497

• Europe, Middle East, and Africa

Regional Office Hours:

8:30 a.m. through 5:00 p.m. (GMT), Monday through Friday, excluding holidays

• Signaling

Phone:

+44 1784 467 804 (within UK)

Software Solutions

Phone:

+33 3 89 33 54 00

• Asia

• India

Phone:

+91-124-465-5098 or +1-919-460-2150

TAC Regional Support Office Hours:

10:00 a.m. through 7:00 p.m. (GMT plus 5 1/2 hours), Monday through Saturday, excluding holidays

• Singapore

<u>Phone:</u>

+65 6796 2288

TAC Regional Support Office Hours:

9:00 a.m. through 6:00 p.m. (GMT plus 8 hours), Monday through Friday, excluding holidays

Emergency Response

In the event of a critical service situation, emergency response is offered by the Tekelec Customer Care Center 24 hours a day, 7 days a week. The emergency response provides immediate coverage, automatic escalation, and other features to ensure that the critical situation is resolved as rapidly as possible.

A critical situation is defined as a problem with the installed equipment that severely affects service, traffic, or maintenance capabilities, and requires immediate corrective action. Critical situations affect service and/or system operation resulting in one or several of these situations:

- A total system failure that results in loss of all transaction processing capability
- Significant reduction in system capacity or traffic handling capability
- Loss of the system's ability to perform automatic system reconfiguration
- Inability to restart a processor or the system
- Corruption of system databases that requires service affecting corrective actions
- Loss of access for maintenance or recovery operations
- Loss of the system ability to provide any required critical or major trouble notification

Any other problem severely affecting service, capacity/traffic, billing, and maintenance capabilities may be defined as critical by prior discussion and agreement with the Tekelec Customer Care Center.

Related publications

For a detailed description of the available SDM documentation, refer to the *SDM Documentation Roadmap* included with your SDM documentation set.

Locate Product Documentation on the Customer Support Site

Access to Tekelec's Customer Support site is restricted to current Tekelec customers only. This section describes how to log into the Tekelec Customer Support site and locate a document. Viewing the document requires Adobe Acrobat Reader, which can be downloaded at www.adobe.com.

1. Log into the *Tekelec Customer Support* site.

Note: If you have not registered for this new site, click the **Register Here** link. Have your customer number available. The response time for registration requests is 24 to 48 hours.

- 2. Click the **Product Support** tab.
- **3.** Use the Search field to locate a document by its part number, release number, document name, or document type. The Search field accepts both full and partial entries.
- 4. Click a subject folder to browse through a list of related files.
- 5. To download a file to your location, right-click the file name and select **Save Target As**.

Chapter

2

Roadmap

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- General Descriptions and Hardware Features....12
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- Subscriber Data Management (SDM) Platform Configurations.....15

Introduction

Note: Viewing the user online documentation requires Internet access. For the most current user documentation, always reference the latest manufacturer online documentation.

Not all components, features, or documents referenced in this aid may be installed or used. For any questions related to available components or hardware features, contact your Sales representative. For assistance with the content of the referenced user documentation or help with procedures, contact the Tekelec *Customer Care Center*.

General Descriptions and Hardware Features

This category directs you to the manufacturer online documentation that provides general descriptions of equipment including hardware features available.

Note: Not all features presented in the manufacturer documentation may be supported by this configuration. Contact the Tekelec *Customer Care Center* for additional information.

- *HP BladeSystem c-Class architecture technology brief* provides a general explanation of c-Class architecture and describes how the components within BladeSystem c-Class work together.
- Important Safety Information For Server, Storage, Power, Networking, and Rack Products contains important safety information concerning Server, Storage, Power, Networking, and Rack Products.
- The *HP Intelligent Rack Family User Guide* provides additional installation information for the HP642 series cabinet.
- *HP ProLiant Intel-based 300-series G6 and G7 servers* describes the key technologies implemented in Intel-based HP ProLiant 300-series G6 and G7 servers.
- Technologies in the HP BladeSystem c7000 Enclosure describes the HP BladeSystem c7000 Enclosure.
- *HP ProLiant BL460c G6 Server Blade User Guide* describes the ProLiant BL460c blade server.
- HP ProLiant BL460c Gen8 Server Blade User Guide describes the ProLiant BL460c Gen8 blade server.
- *HP ProLiant BL620c G7 Server Blade User Guide* describes the ProLiant BL620c blade server.
- *HP ProLiant DL360 G6 Server User Guide* describes the HP ProLiant DL360 G6 Server system features and components.
- *HP ProLiant DL380 G6 Server User Guide* describes the HP ProLiant DL380 G6 Server system features and components.
- *HP ProLiant DL380p Gen8 Server User Guide* describes the HP ProLiant DL380p Gen8 Server system features and components.
- *Cisco Catalyst Blade Switch 3020 for HP Hardware Installation Guide* describes the Catalyst 3020 switch, as well as system features and components.
- *Catalyst 4900 Series Switch Installation Guide* describes the Cisco Catalyst 4900 series switches, as well as system features and components.
- *Catalyst 4948E and Catalyst 4948E-F Switch Installation Guide* describes the Cisco Catalyst 4849E and 4948E-F switches, as well as system features and components.
- 1Gb Ethernet Pass-Thru Module describes the 1Gb Ethernet Pass-Thru Module.
- *Telect 100A 4-Position Demarcation Circuit Breaker panel,* ±24V/-48V describes the Telect 100A 4-Position Demarcation DC Power Distribution Panel.

- *Telect 100A Dual-feed 4/4 TPA/GMT, -48V* describes the Telect 100A Dual-feed DC Power Distribution Panel.
- *HP 252663 Modular Power Distribution Unit with Extension Bars* describes the AC Power Distribution Unit.

User Operations - LEDs

This category directs you to specific sections of the manufacturer online doumentation on LED indicators for the specified equipment.



WARNING: Customers do not perform installation procedures; these procedures are performed by Tekelec authorized personnel. Contact the Tekelec *Customer Care Center* for assistance with any procedure.



WARNING: Performing any procedure not authorized or approved by Tekelec may void any or all Tekelec warranties. Contact the Tekelec *Customer Care Center* for assistance with any procedure.

- Information describing LED functions of the 3020 switch can be found in this document: *Cisco Catalyst Blade Switch 3020 for HP Hardware Installation Guide*.
- The LED functions of the Cisco Catalyst 4900 Series Switch can be found in this document: *Catalyst 4900 Series Switch Installation Guide*.
- The LED functions of the Cisco Catalyst 4948E/4948E-F Switch can be found in this document: *Catalyst 4948E and Catalyst 4948E-F Switch Installation Guide*.
- *HP ProLiant DL360 G6 Server User Guide* provides information describing LED functions of the DL 360 G6 server.
- *HP ProLiant DL380 G6 Server User Guide* provides information describing LED functions of the DL 380 G6 server.
- *HP ProLiant DL380p Gen8 Server User Guide* provides information describing LED functions of the DL 380p Gen8 server.
- See the *HP ProLiant BL460c G6 Server Blade User Guide* for information describing LED functions of the BL460c G6 server.
- See the *HP ProLiant BL460c Gen8 Server Blade User Guide* for information describing LED functions of the BL460c Gen8 server.
- See *Telect 100A 4-Position Demarcation Circuit Breaker panel* for information describing the Telect 100A 4-Position Demarcation DC Power Distribution Panel LEDs.
- See *Telect 100A Dual-feed 4/4 TPA/GMT, -48V* for information describing the Telect 100A Dual-feed DC Power Distribution Panel LEDs.

FRU Procedures



CAUTION: The procedures presented are for informational purposes only. Contact Tekelec *Customer Care Center* for replacement of any FRUs.

FRU Procedures Performed By Customer

The following are FRU procedures customers may be authorized to perform. Contact the Tekelec *Customer Care Center* for assistance with any procedure.



WARNING: Performing any procedure not authorized or approved by Tekelec may void any or all Tekelec warranties.

WARNING

- Hot-plug SAS hard drive removal and replacement of the HP ProLiant DL360 G6 Server Maintenance and Service Guide
- Hot-plug SAS hard drive removal and replacement of the HP ProLiant DL380 G6 Server Maintenance and Service Guide
- Hot-plug power supply removal and replacement of the HP ProLiant DL360 G6 Server Maintenance and Service Guide
- Hot-plug power supply removal and replacement of the HP ProLiant DL380 G6 Server Maintenance and Service Guide
- Hot-plug SAS hard drive removal and replacement of the HP ProLiant DL380p Gen8 Server Maintenance and Service Guide
- Hot-plug power supply removal and replacement of the HP ProLiant DL380p Gen8 Server Maintenance and Service Guide

FRU Procedures Performed By Tekelec Personnel

The following are cabinet-level FRU procedures only performed by authorized Tekelec personnel.



WARNING: Customers do not perform these procedures; these procedures are performed by Tekelec authorized personnel.





WARNING: Performing any procedure not authorized or approved by Tekelec may void any or all Tekelec warranties.

WARNING

- To remove the ProLiant DL360 G6 Server from the rack, use Preparation procedures of HP ProLiant DL360 G6 Server Maintenance and Service Guide.
- To remove the ProLiant DL380 G6 Server from the rack, use *Preparation procedures* of *HP ProLiant* DL380 G6 Server Maintenance and Service Guide.
- To remove the ProLiant DL380 G8 Server from the rack, use *Removal and replacement procedures* of HP ProLiant DL380 Gen8 Server Maintenance and Service Guide.
- To remove the Catalyst 4900 Series Switch from the rack, use the section *Rack-Mounting the Switch* of Catalyst 4900 Series Switch Installation Guide.
- To remove the AC Power Distribution Unit (HP 252663-D72 or 252663-B31 Modular Power Distribution • Unit)
 - To remove the AC PDU extension bar (Extension Bars, HP 252663-D72 or 252663-B31 Modular) *Power Distribution Unit*)

Subscriber Data Management (SDM) Platform Configurations

Cabinet configurations are specific to customer requirements. Refer to *General Descriptions and Hardware Features* for the components that may be installed in an SDM c-Class cabinet.

Examples of possible cabinet configuration and component placement involving Gen6 hardware:

- Figure 1: Example of EAGLE XG c-Class Cabinet Configuration (DC)
- Figure 2: Example of EAGLE XG c-Class Cabinet Configuration (AC)

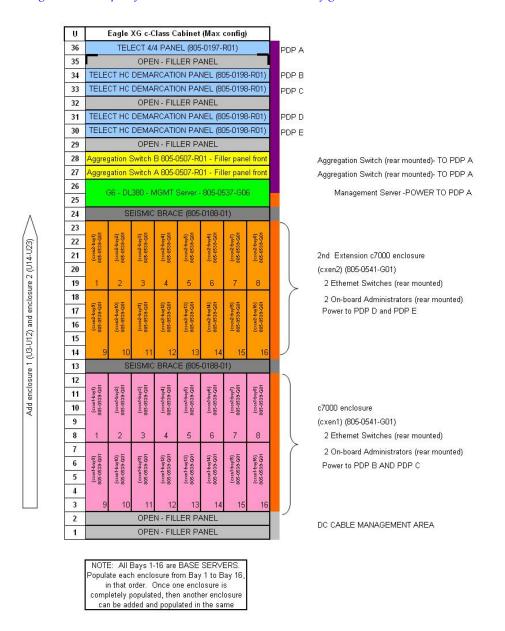


Figure 1: Example of EAGLE XG c-Class Cabinet Configuration (DC)

Roadmap

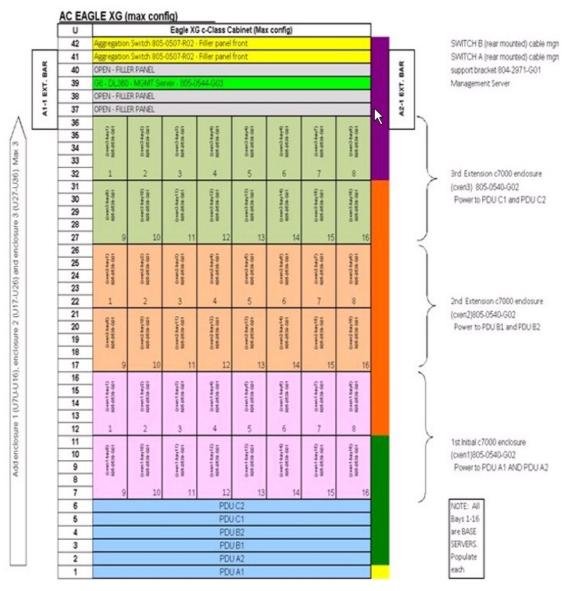


Figure 2: Example of EAGLE XG c-Class Cabinet Configuration (AC)

Examples of possible cabinet configuration and component placement involving Gen8 hardware:

- Figure 3: AC Cabinet with Cisco 4948E-F, (3) Encl, (1 DL380/2 DL360)
- Figure 4: AC Cabinet with Cisco 4948E-F, (2) Encl, (6 DL380/12 DL360)
- Figure 5: AC Cabinet with Cisco 4948E-F, (1) Encl, (11 DL380/ 12 DL360)
- Figure 6: DC Cabinet with 2 Enclosures, 2 Switches, Rack Mount Server
- Figure 7: DC Cabinet with 1 Enclosure, 2 Switches, Rack Mount Server

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Figure 3: AC Cabinet with Cisco 4948E-F, (3) Encl, (1 DL380/ 2 DL360)

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		34							05-059				
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	- 3	32					SERV	ERG (8	05-059	9-XX)			
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		13	(cxen1-bay1)	(cxen1-bay2)	(cxen1-bay3)	(cxen1-bay4)	(cxen1-bay5)	(cxen1-bay6)	(cxen1-bay 7)	(cxen1-bay8)			
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		11	(6			12)		14)					
		10	(cxen1-bay9)	ent-bay10)	ant-bay11)	en1-bay12)	en1-bay13)	en1-bay14)	en1-bay15)	ent-bay16)			
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		7	9	10	11	12	13	14	15	16			
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		5				PDU							
		4				PDU							
	2	3				PDU							
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		1				PDU	A1						

Figure 4: AC Cabinet with Cisco 4948E-F, (2) Encl, (6 DL380/ 12 DL360)

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		36						ER C (8					
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		34				-	SERV	ERE (8	05-059	9-XX)			
		33	SERV	ER C - E	805-060	J9-XX	SERV	ER F (8	05-059	9-XX)			
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		31	SERV	ER D - C	805-060	19-77	SERV	ER H (8	05-059	9-XX)			
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A3-3 EXT. BAR	A3-4	17	SERV	ER K - 8	805-060	09-XX	-	FILLER		-	B3-4 EXT	B3-3 EXT. BAR	L
	-	16	-	0	6	9	-	-	-	-			
		15	(cxen1-bay1)	(cxen1-bay2)	(cxen1-bay3)	(cxen1-bay4)	(cxen1-bay5)	(cxen1-bay6)	(cxen1-bay7)	(cxen1-bay8)			
		14	-1-I	-1-I	-1-L	1-1-1	-1-	E	1-1-1	n1-1			
		13	(cxe	(cxe	(cxe	(cxe	(cxe	(cxe	(cxe	(cxe			
		12	1	2	3	4	5	6	7	8			
		11	(6	10)	11)	12)	13)	14)	15)	16)			
		10	(cxen1-bay9)	(cxen1-bay10)	(cxen1-bay11)	01-bay12)	n1-bay13)	ent-bay14)	ent-bay15)	in1-bay16)			
		9	ent	ent	ent				ent	ent			
		8	(cx	(cx	(CX	(cx)	(cx)	(cx	(cxe	(cxe			
		7	9	10	11	12	13	14	15	16			
		6				PDU							
		5				PDU							
		4				PDU							
		3				PDU							
		2				PDU					5		
		1				PDU	AI						

Figure 5: AC Cabinet with Cisco 4948E-F, (1) Encl, (11 DL380/ 12 DL360)

I

Roadmap

U			Cab	inet (N	lax co	nfig)						
44	PDP A - TELECT 4/4 PANEL (805-0197-R01)											
43	PDP B - TELECT 4/4 PANEL (805-0197-R01)											
42	OPEN - FILLER PANEL											
41	PDP C - TELECT HC DEMARCPANEL (805-0198-R01)											
40	PDP D - TELECT HC DEMARCPANEL (805-0198-R01)											
39	OPEN - FILLER PANEL											
38	PDP E - TELECT HC DEMARCPANEL (805-0198-R01)											
37	PDP F - TELECT HC DEMARCPANEL (805-0198-R01)											
36	Г		OPE	N - FILI	LER P/	NEL						
35	-				Number of Street, or other							
34		SWITCH	IB									
33	-				3							
32	5	WITCH	A		1012			#				
31	DL	380 - S	ERVER	RA	DL360-	SERVER	A (915-0	0607369				
30			609-XX()		DL360-	SERVER	B (995-0	0007400				
29	DI	380 - S	ERVER	RB	DL360-	SERVER	C (005-0	0607-R0Q				
28			509-XX)		DL360-	SERVER	D (815-	617-203				
27	DL	380 - S	ERVER	RC	DL350 -	SERVER	E (105-0	poc.788				
26			609-XX		DL360-	SERVER	F (105-0	887-50g				
25		SE	ISMIC	BRACI	E (805-	0188-G	01)					
24												
23	1000	() () () ()	() () () ()	(ying)	Gine Children	(gine	(read day) 805-0536-0213	(11112 (11112))))))))))				
22	[croi2-boal] 305-0556-031	(cros2-boy2) 005-0556-0213	(cron2-boy3) 805-0556-0313	(read bayd) (05-059-033	(read bay) 805-0596-031	(read bay6) 805-0596-033	5.05%	5 0000				
21	- 2	502	502	58	202	0.08	08	0.6				
20	1	2	3	4	5	6	7	8				
19												
18	Elso.	(0)A	Class COS-	(QA)	(0)A	(ave)	(1) (1)	5				
17	501-50 -0035-	Seal-b	(cont-bag) 305-000-000	(0)44(0) 805-0556-000	(Inval-bas)) 805-0555-000	(cond-by/d) 805-0536-020	(0)/w1/0/moj 808-0895-000	(multitude) 805-0596-000	(Ilya4.5mm) 200, 8630, 203	(Muddauf) (944-00100-1444		
16	58	28	5.0	28	28	28	-8	the state				
15	9	10	11	12	13	14	15	16				
14				BRACE		0188-G						
13							1.000	11 12				
12	1440	1-600	1-600	Here ((inter	(ying	(inter	(mag)				
11	(com14140) 801-0536-620	(con1teg2) 501-0536-GO	(cm14rg3) 801-0556-GCC	(contribut) 201-0516-GO	(contray) 881-0816-000	(matheys) 805-866-000	(mathy) 805-866-200	(mu11mg2) 001-0516-020X				
10	-8	-8	-8	-8	-8	-8	-8	-8				
9	1	2	3	4	5	6	7	8				
8								47				
7	(internal)	art0]	1000 - ECC	NIR)	ants]	(I) in the	wy S)	Field				
6	(contrags) 801-0156-500	[craf-bay0] 805-0156-GOC	(cent-bag1) 805-0186-0:00	[crud-bryR] 801-0156-GCC	[enuldayt3] 895-0586-000	[multibritk] 805-0156-02CC	[end by5] 81-0156-0205	14-81				
5	- 28	7.8	2.8	28	28	28	28	Constitution (Constitution)				
4	9	10	11	12	13	14	15	16				
3				OPE	EN							
2			OPE	N - FILI	LER P/	NEL						
1			OPE	N - FIL	LER P/	WEL						



Figure 6: DC Cabinet with 2 Enclosures, 2 Switches, Rack Mount Server

Roadmap

U	Cabinet (Max config)											
44	PDP A - TELECT 4/4 PANEL (805-0197-R01)											
43	PDP B - TELECT 4/4 PANEL (805-0197-R01)											
42	OPEN - FILLER PANEL											
41	PDP C - TELECT HC DEMARCPANEL (805-0198-R01)											
40	PDP D - TELECT HC DEMARCPANEL (805-0198-R01)											
39	OPEN - FILLER PANEL											
38	PDP E - TELECT 4/4 PANEL (805-0197-R01)											
37	Γ			N - FILI				.,				
36				N - FILI								
35	° [1			19				
34		SWIT	CHB		- THE P							
33	8					*****		8				
32		SWIT	CHA		-							
31		200 0	COVE	2.4	DL380 -	SERVER	A (205-0	607-100				
30			ERVER 509-XX)			SERVER		0607-10K)				
29	-					SERVER		007-XX)				
29			ERVER			SERVER)607-XX)				
20						SERVER		(607-XX)				
			ERVER 509-XX)			SERVER		607-XX				
26	-			-								
25			ERVER 609-XX)			SERVER		0607-XX)				
24						SERVER		0607-XX)				
23	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		ERVER			SERVER		607-HX)				
22						SERVER		(607-XX)				
21			ERVE			SERVER		607-XK)				
20				20100			L (805-0	-				
19			ERVER				ER PA					
18		00-00	509-XX)				ER PA					
17	1		ERVER				ER PA					
16	_	(005-00	509-XX)	-			ER PA	NEL				
15		_		N - FILI								
14		SE	ISMIC	BRACE	E (805-	0188-G	01)	-				
13	ęΧ	X	ΞX	ŦX	(SX	ΞŽ	=×	εX				
12	(cont-boyl) 005-0506-GXX	[cma1-boy2] 805-0536-02XX	[count-bay3] 005-0556-GXX	[comHosy4] 805-0596-000	(count-bay5) 005-00506-GXX	[cm1-bay6] 05-0556-GX	(cont-bay?) 805-0596-GXX	[cont-bay8] 805-0556-GX				
11	(cxc 005-0	1cm 805-0	[cm 005-0	fc:e 805-0	[cm	fcm 805-0	[cm	[Cos 805-0				
10												
9	1	2	3	4	5	6	7	8				
8	e X	e X	εŏ	۵X	ω×	a X	s ک	-500 101-6131				
7	(cccn1-buyd) 05-0536-GXX	(comheay10) 05-0536-GXX	(cont-beyl)) 05-0536-QX	(cont-bayl2) 805-0536-GX)	(cxent-bey13) 05-0536-QX)	(cont-bayl4) 05-0536-G00	(czent-brayf5) 05-0536-QX)	(%) 8 205-1				
6	(cccn1-bvy9) 805-0536-GXX	(01/e4-1000) 805-0536-0XX	(cont-beyf) 005-0536-QXX	[cont-bay12] 805-0536-033	(cxm1-bay13) 805-0536-QXX	(cont-bayt4) 805-0536-GXX	(czent-beyd5) 805-0536-QXX	(countribut %) 81				
5					186							
4	9	10	11	12	13	14	15	16				
3			ODE	OPE		MEL						
1			OPE OPE			ANEL						
			VIL		LEN IT	HTLL						



Figure 7: DC Cabinet with 1 Enclosure, 2 Switches, Rack Mount Server