

FiberSmart

Project Document

For

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2 Version Control

3 Project Overview

3.1 Floorplan

This is cerebras new data center (CG2), the data center is located on 1002 Embarcadero, Stockton CA 95203.

This project key requirement include:

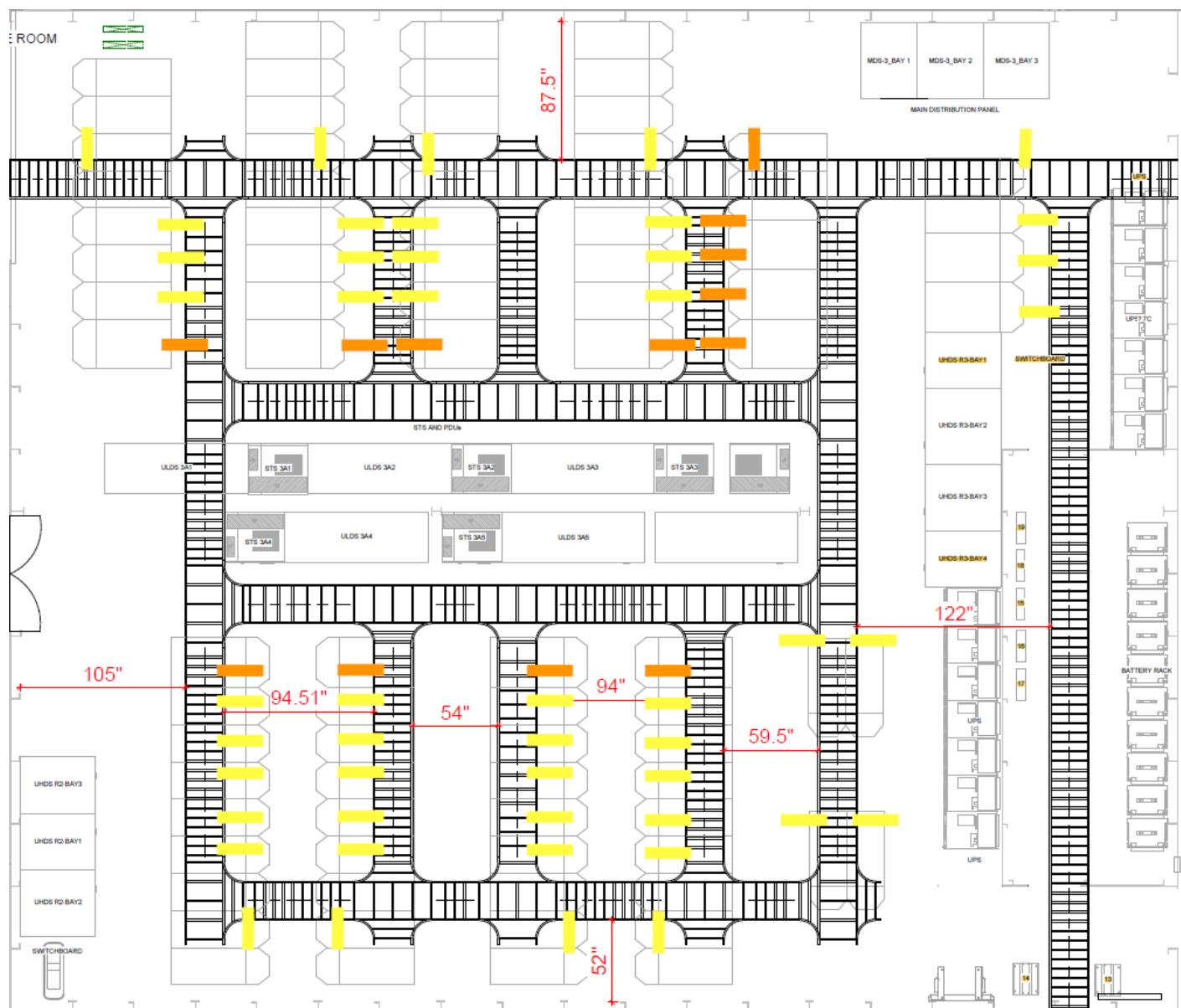
- Twelve spine rack: SWX001-SWX012.
- Sixty-eight WSE rack: WSE001-WSE068.

Each spine rack include:

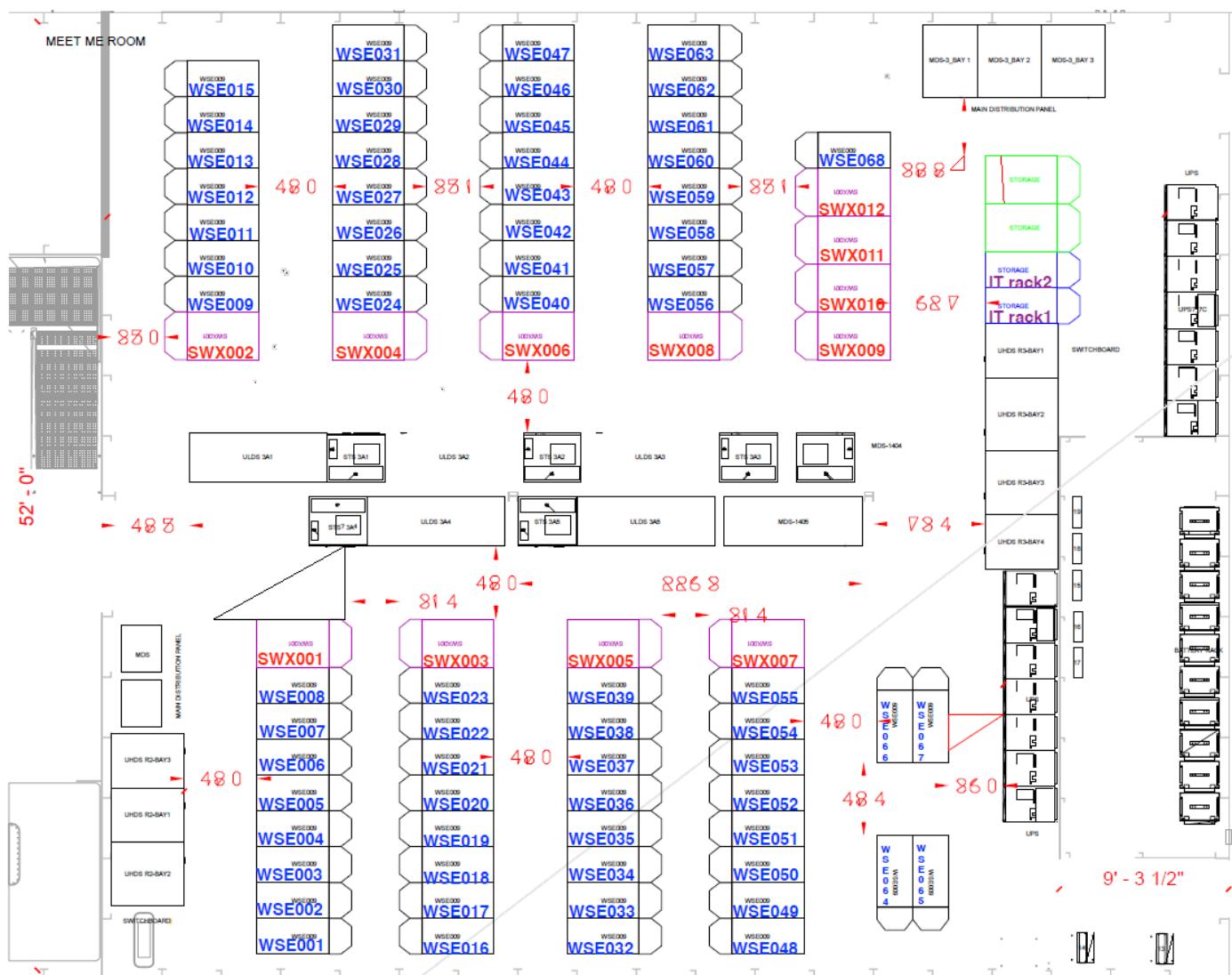
- OM4, 68x 12F MTP (Base-8) connections are from 68x WSE CS-2 engine.
- OM4, 68x 12F MTP (Base-8) connections are from 68x WSE memX switch.
- OM4, CS-2 12x 12F MTP connections are connected to swarmX switch.
- OM4, memX switch 12x 12F MTP connections are connected to swarmX switch.
- OM4, odd item number memX switch LC duplex connections are connected to SWX001.
- OM4, even item number memX switch LC duplex connections are connected to SWX001.

3.2 Floorplan

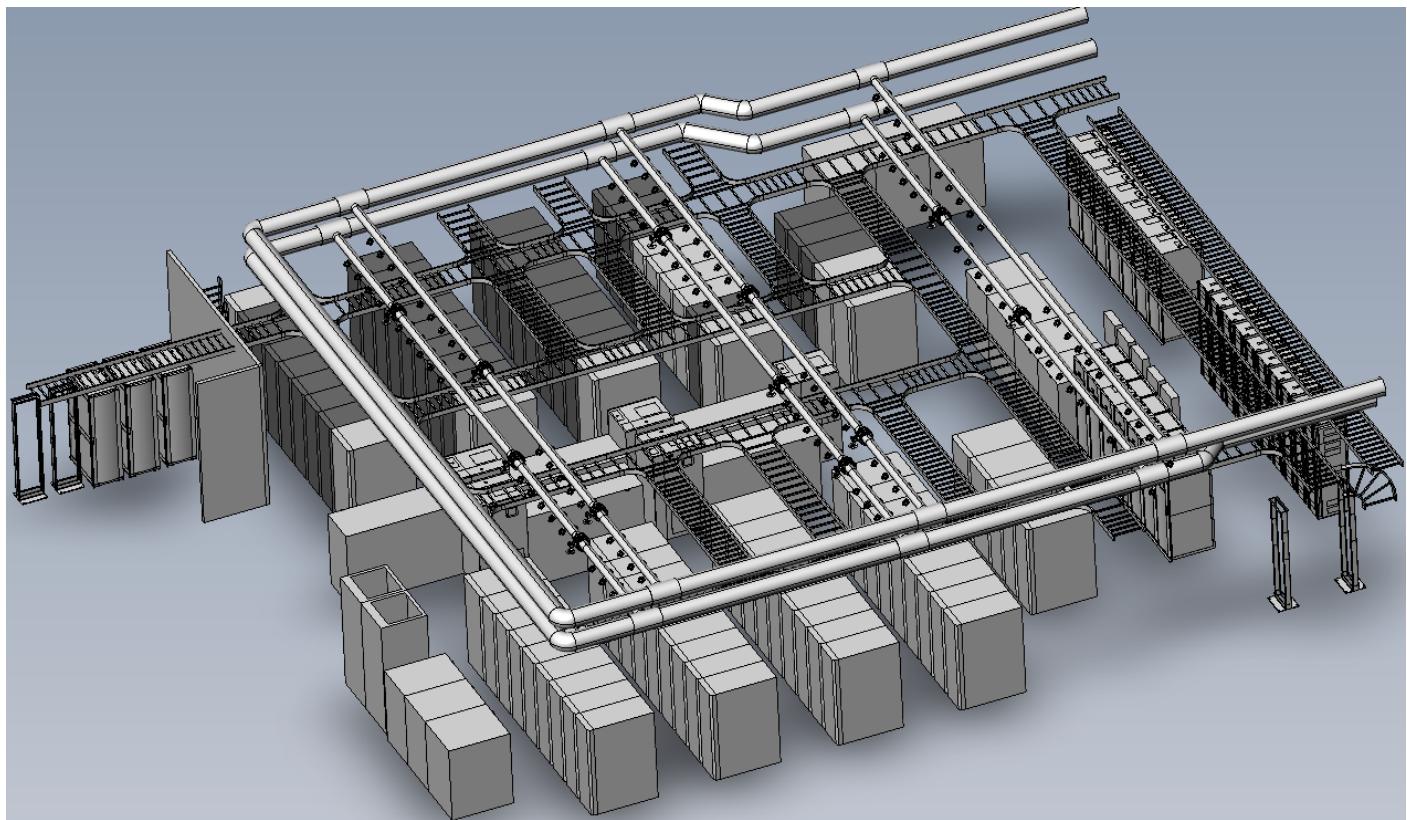
The image shows data center layout and ladder location.



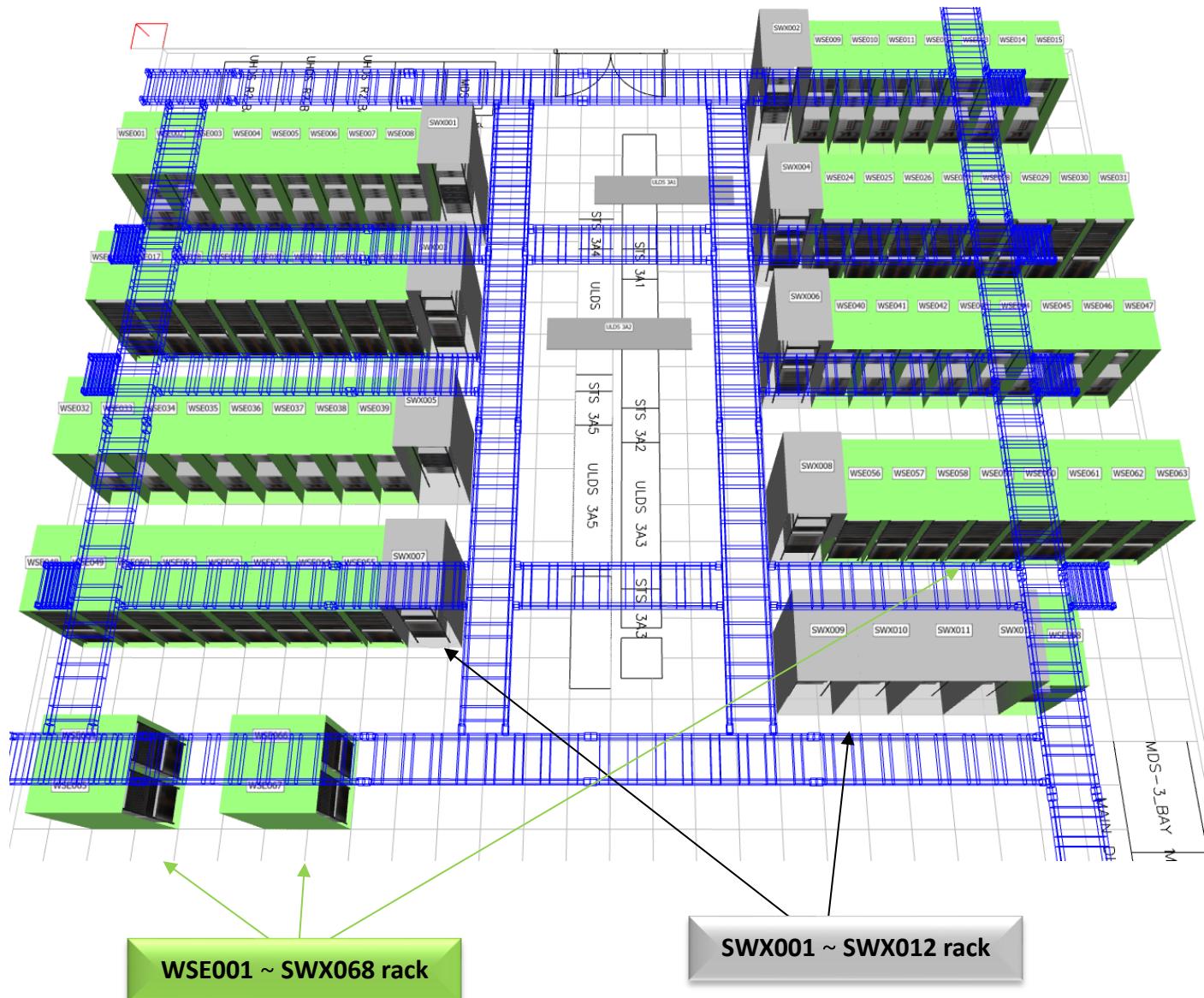
The image shows rack naming.



The image shows 3D view.



The image shown data center dc twin view.



3.3 Kit Overview

The following table is kit list

Line #	Part No	Description
1	98CR-CG2-LAB-KIT1	(1). Fiber Cable Bundle,16x 12F Elite MTP (Base 8) Male to Female, Polarity B, Corning 8F Magenta OFNP Jacket with Black Mesh,96 pcs (Detail length see BOM) ; (2). Fiber Cable Bundle,4x 12F Elite MTP (Base 8) Male to Female, Polarity B, Corning 8F Magenta OFNP Jacket with Black Mesh,100FT(AVG),24 pcs ; (3). Fiber Cable Bundle, 8x Duplex LC to LC, Corning Duplex Magenta OFNP Jacket with Black Mesh, 90FT (AVG),16pcs; (4). Fiber Cable Bundle, 2x Duplex LC to LC, Corning Duplex Magenta OFNP Jacket with Black Mesh, 50FT(AVG),4pcs.

4 Kit Detail

4.1 Kit 1 - {98CR-CG2-LAB-KIT1}

4.1.1 SWX001 rack item information, SWX001 as example, SWX002 ~ SWX012 all rack same as SWX001.

Name	SWX001	Make	Panduit	Location	98CR-CG2
Alias		Model	DN8822B	Front Faces	West
Type		Class / Subclass	Cabinet	Aisle Label	
Function		Mounting	Free-Standing	Row Label	
		Weight	250.00 lbs RUs 45	Position in Row	0
		H x W x D	91.1 x 31.5 x 47.20 in		
Contact		Serial Number		Location Reference	
Contact		Asset Tag Number		Status	Planned
Team		eAsset Tag Number			
Customer					

SWX001 Elevation

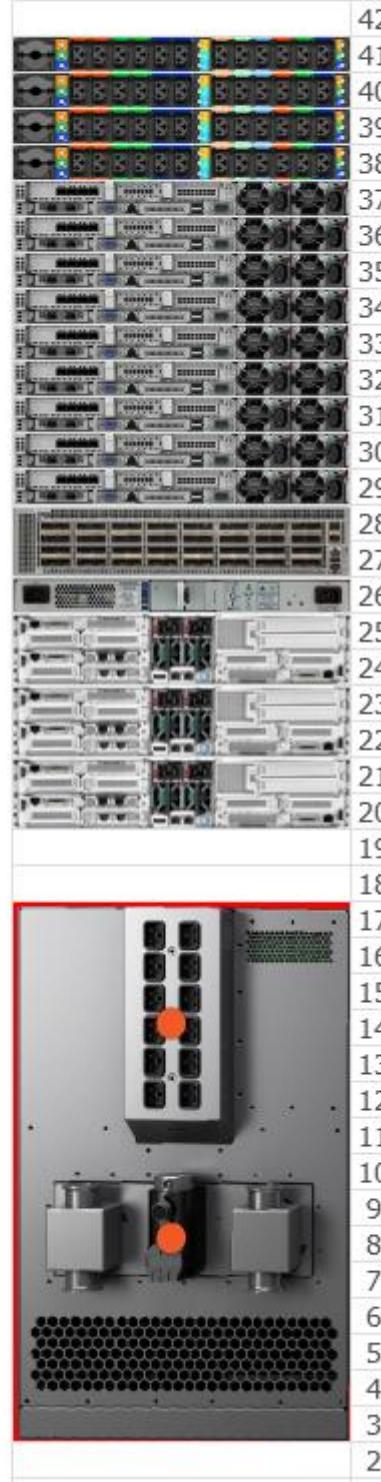
SWX001	SWX001
Front View	Front View
	45
CS-WSE001-PD01	44
CS-WSE001-PD02	43
	42
	41
	40
	39
	38
	37
	36
SWX001-SX-SR01-04	35
	34
SWX001-SX-SR05-08	33
	32
SWX001-MG-SW01	31
	30
	29
	28
	27
	26
	25
	24
SWX001-SX-SW01	23
	22
	21
	20
	19
	18
	17
SWX001-SX-SR09-12	16
	15
SWX001-SX-SR13-16	14
	13
SWX001-SX-SR17-20	12
	11
SWX001-SX-SR21-24	10
	9
	8
	7
	6
	5
	4
	3
	2
	1

4.1.2 WSE001 rack item information, WSE001 as example, WSE002 ~ WSE068 all rack same as WSE001.

Name	WSE001	Make	Panduit	Location	98CR-CG2
Alias		Model	DN6222B	Front Faces	West
Type		Class / Subclass	Cabinet	Aisle Label	
Function		Mounting	Free-Standing	Row Label	
		Weight	0.00 lbs RUs 42	Position in Row	0
		H x W x D	80.5 x 23.6 x 47.20 in		
Contact		Serial Number		Location Reference	
Contact		Asset Tag Number		Status	Planned
Team		eAsset Tag Number			
Customer					

WSE001 Elevation

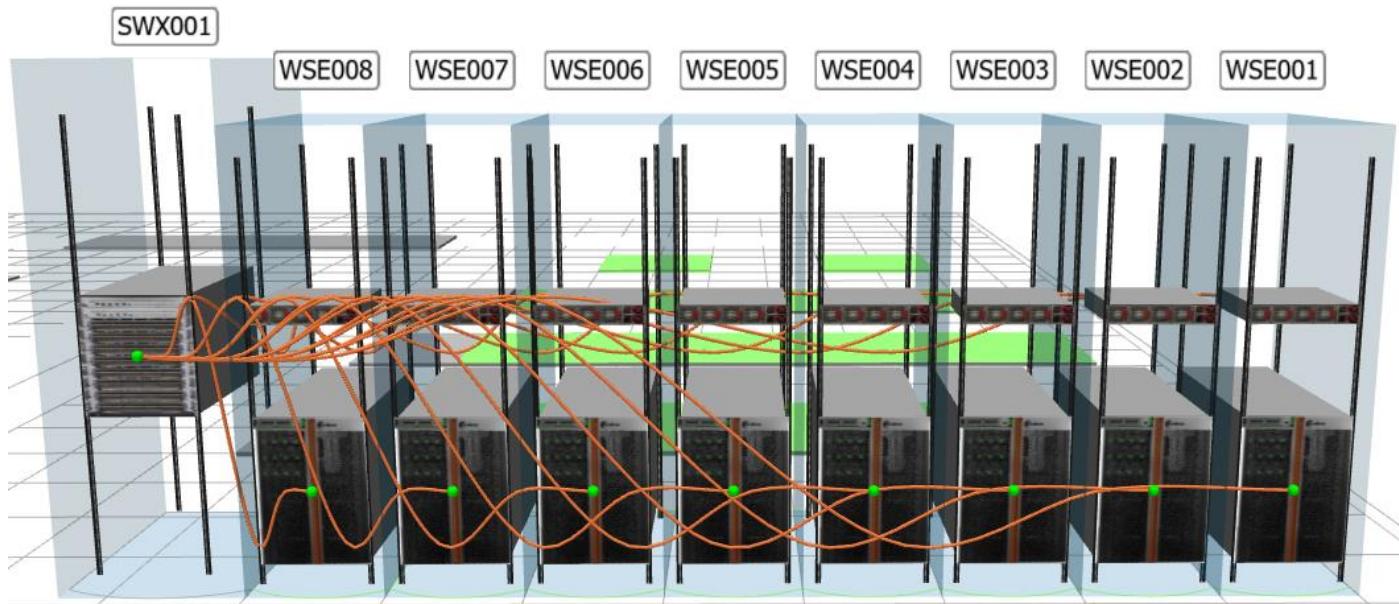
WSE001		WSE001	
		Back View	
			42
WSE001-PD-01-01	41		41
WSE001-PD-01-02	40		40
WSE001-PD-01-03	39		39
WSE001-PD-01-04	38		38
WSE001-MG-SR-01-01	37		37
WSE001-WK-SR-01-01	36		36
WSE001-WK-SR-01-02	35		35
WSE001-WK-SR-01-03	34		34
WSE001-WK-SR-01-04	33		33
WSE001-WK-SR-01-05	32		32
WSE001-WK-SR-01-06	31		31
WSE001-WK-SR-01-07	30		30
WSE001-WK-SR-01-08	29		29
WSE001-MX-SW-01-01	28		28
WSE001-MG-SW-01-01	27		27
WSE001-MX-SR-01-01-04	26		26
WSE001-MX-SR-01-05-08	25		25
WSE001-MX-SR-01-09-12	24		24
	23		23
	22		22
	21		21
	20		20
	19		19
	18		18
	17		17
	16		16
	15		15
	14		14
	13		13
	12		12
	11		11
CS#1	10		10
	9		9
	8		8
	7		7
	6		6
	5		5
	4		4
	3		3
	2		2
	1		1



4.1.3 Trunk Cables

4.1.3.1 SWX001 to WSE001 ~ WSE008 Cable Connection

The following image shown SWX001 to WSE001 ~ WSE008 cable routing.



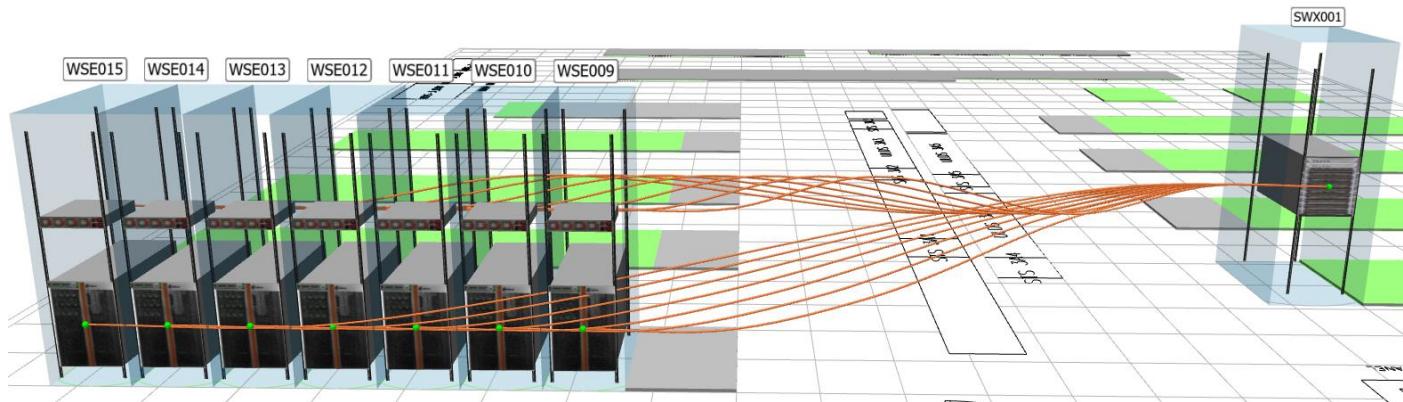
The following table shown SWX001 to WSE001 ~ WSE008 cable connection.

Starting Item Name	Starting Port Name	Cord 1 Length(ft)	Ending Item Name	Ending Port Name
SWX001-SX-SW01	2-P37	55	CS#1	P0
SWX001-SX-SW01	2-P38	53	CS#2	P0
SWX001-SX-SW01	2-P39	51	CS#3	P0
SWX001-SX-SW01	2-P40	49	CS#4	P0
SWX001-SX-SW01	2-P41	47	CS#5	P0
SWX001-SX-SW01	2-P42	45	CS#6	P0
SWX001-SX-SW01	2-P43	43	CS#7	P0
SWX001-SX-SW01	2-P44	41	CS#8	P0
SWX001-SX-SW01	2-P25	53	WSE001-MX-SW-01-01	P01
SWX001-SX-SW01	2-P26	51	WSE002-MX-SW-01-01	P01
SWX001-SX-SW01	2-P27	49	WSE003-MX-SW-01-01	P01
SWX001-SX-SW01	2-P28	47	WSE004-MX-SW-01-01	P01
SWX001-SX-SW01	2-P29	45	WSE005-MX-SW-01-01	P01
SWX001-SX-SW01	2-P30	43	WSE006-MX-SW-01-01	P01
SWX001-SX-SW01	2-P31	41	WSE007-MX-SW-01-01	P01
SWX001-SX-SW01	2-P32	39	WSE008-MX-SW-01-01	P01

Note: Item and port name refer to section [4.1.1](#), [4.1.2](#).

4.1.3.2 SWX001 to WSE009 ~ WSE015 Cable Connection

The following image shown SWX001 to WSE009 ~ WSE015 cable routing.



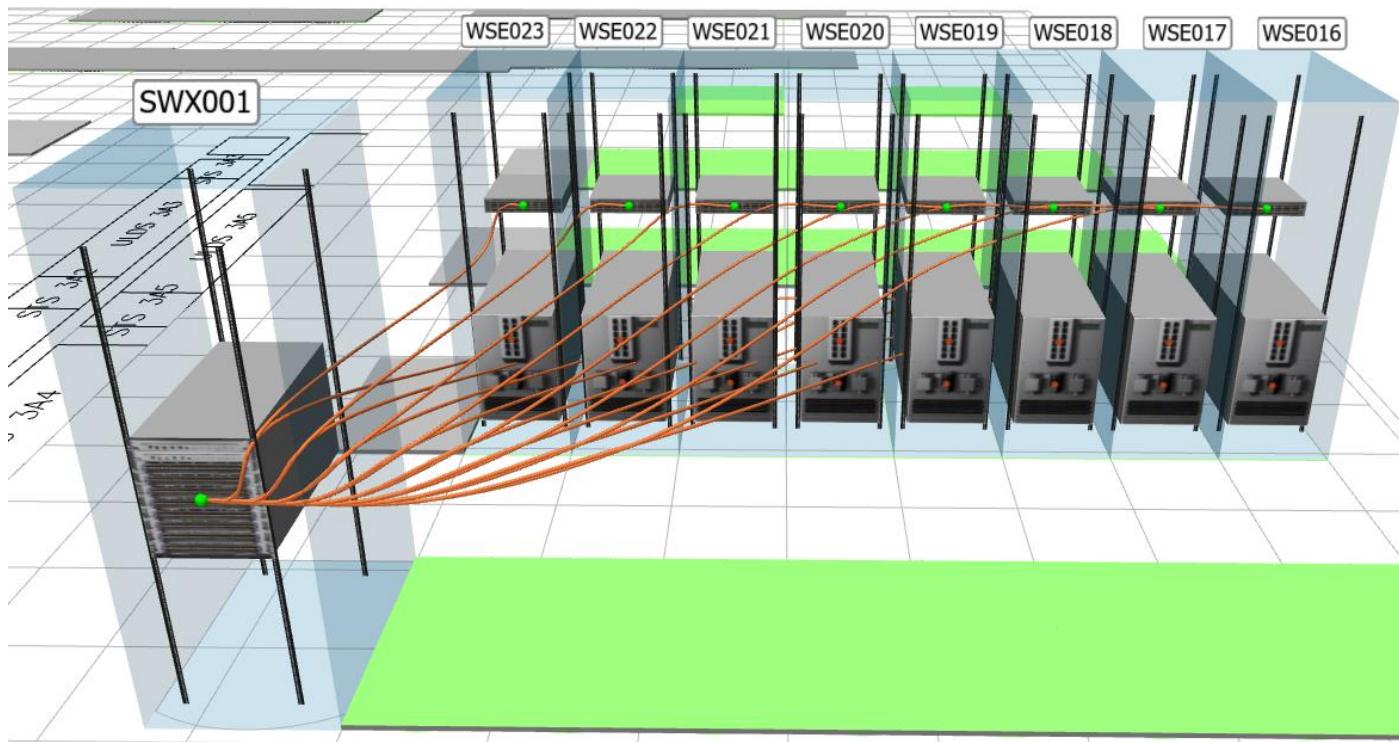
The following table shown SWX001 to WSE009 ~ WSE015 cable connection.

Starting Item Name	Starting Port Name	Cord 1 Length(ft)	Ending Item Name	Ending Port Name
SWX001-SX-SW01	2-P45	60	CS#9	P0
SWX001-SX-SW01	2-P46	62	CS#10	P0
SWX001-SX-SW01	2-P47	64	CS#11	P0
SWX001-SX-SW01	2-P48	66	CS#12	P0
SWX001-SX-SW01	3-P37	68	CS#13	P0
SWX001-SX-SW01	3-P38	70	CS#14	P0
SWX001-SX-SW01	3-P39	72	CS#15	P0
SWX001-SX-SW01	2-P33	59	WSE009-MX-SW01-01	P0
SWX001-SX-SW01	2-P34	61	WSE010-MX-SW01-01	P01
SWX001-SX-SW01	2-P35	63	WSE011-MX-SW01-01	P01
SWX001-SX-SW01	2-P36	65	WSE012-MX-SW01-01	P01
SWX001-SX-SW01	3-P25	67	WSE013-MX-SW01-01	P01
SWX001-SX-SW01	3-P26	69	WSE014-MX-SW01-01	P01
SWX001-SX-SW01	3-P27	71	WSE015-MX-SW01-01	P01

Note: Item and port name refer to section [4.1.1](#), [4.1.2](#).

4.1.3.3 SWX001 to WSE016 ~ WSE023 Cable Connection

The following image shown SWX001 to WSE016 ~ WSE023 cable routing.



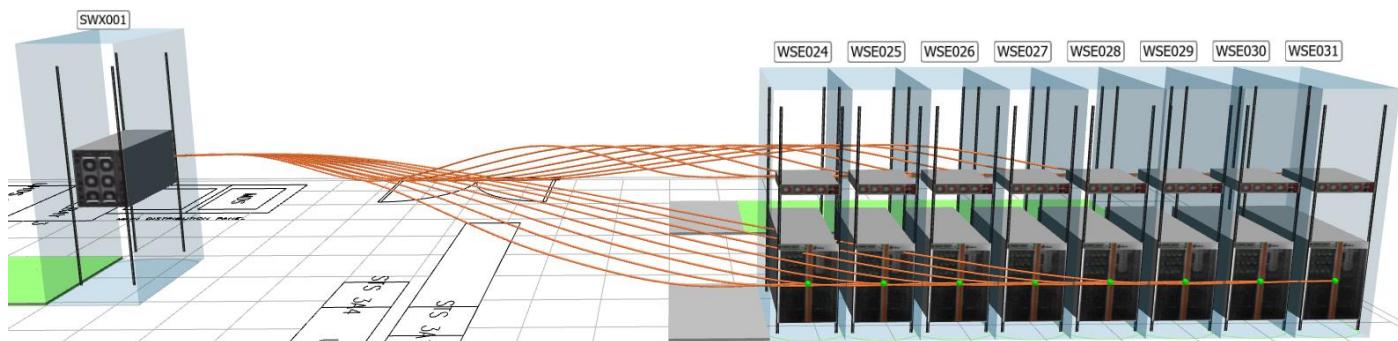
The following table shown SWX001 to WSE016 ~ WSE023 cable connection.

Starting Item Name	Starting Port Name	Cord 1 Length(ft)	Ending Item Name	Ending Port Name
SWX001-SX-SW01	3-P40	76	CS#16	P0
SWX001-SX-SW01	3-P41	74	CS#17	P0
SWX001-SX-SW01	3-P42	72	CS#18	P0
SWX001-SX-SW01	3-P43	70	CS#19	P0
SWX001-SX-SW01	3-P44	68	CS#20	P0
SWX001-SX-SW01	3-P45	66	CS#21	P0
SWX001-SX-SW01	3-P46	64	CS#22	P0
SWX001-SX-SW01	3-P47	62	CS#23	P0
SWX001-SX-SW01	3-P28	74	WSE016-MX-SW01-01	P01
SWX001-SX-SW01	3-P29	72	WSE017-MX-SW01-01	P01
SWX001-SX-SW01	3-P30	70	WSE018-MX-SW01-01	P01
SWX001-SX-SW01	3-P31	68	WSE019-MX-SW01-01	P01
SWX001-SX-SW01	3-P32	66	WSE020-MX-SW01-01	P01
SWX001-SX-SW01	3-P33	64	WSE021-MX-SW01-01	P01
SWX001-SX-SW01	3-P34	62	WSE022-MX-SW01-01	P01
SWX001-SX-SW01	3-P35	60	WSE023-MX-SW01-01	P01

Note: Item and port name refer to section [4.1.1](#), [4.1.2](#).

4.1.3.4 SWX001 to WSE024 ~ WSE031 Cable Connection

The following image shown SWX001 to WSE024 ~ WSE031 cable routing.



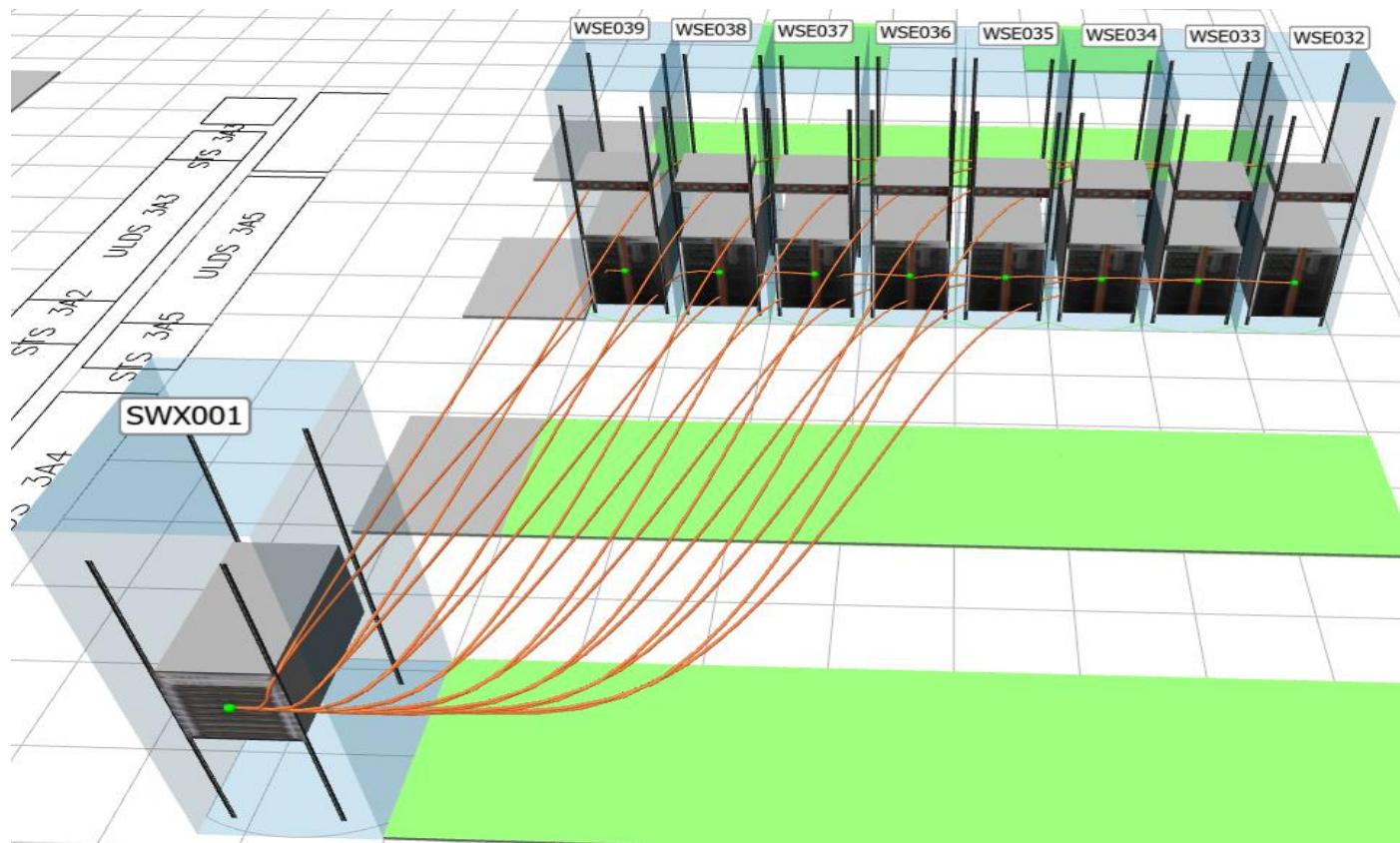
The following table shown SWX001 to WSE024 ~ WSE031 cable connection.

Starting Item Name	Starting Port Name	Cord 1 Length(ft)	Ending Item Name	Ending Port Name
SWX001-SX-SW01	3-P48	76	CS#24	P0
SWX001-SX-SW01	4-P37	78	CS#25	P0
SWX001-SX-SW01	4-P38	80	CS#26	P0
SWX001-SX-SW01	4-P39	82	CS#27	P0
SWX001-SX-SW01	4-P40	84	CS#28	P0
SWX001-SX-SW01	4-P41	86	CS#29	P0
SWX001-SX-SW01	4-P42	88	CS#30	P0
SWX001-SX-SW01	4-P43	90	CS#31	P0
SWX001-SX-SW01	3-P36	75	WSE024-MX-SW01-01	P01
SWX001-SX-SW01	4-P25	77	WSE025-MX-SW01-01	P01
SWX001-SX-SW01	4-P26	79	WSE026-MX-SW01-01	P01
SWX001-SX-SW01	4-P27	81	WSE027-MX-SW01-01	P01
SWX001-SX-SW01	4-P28	83	WSE028-MX-SW01-01	P01
SWX001-SX-SW01	4-P29	85	WSE029-MX-SW01-01	P01
SWX001-SX-SW01	4-P30	87	WSE030-MX-SW01-01	P01
SWX001-SX-SW01	4-P31	89	WSE031-MX-SW01-01	P01

Note: Item and port name refer to section [4.1.1](#), [4.1.2](#).

4.1.3.5 SWX001 to WSE032 ~ WSE039 Cable Connection

The following image shown SWX001 to WSE032 ~ WSE039 cable routing.



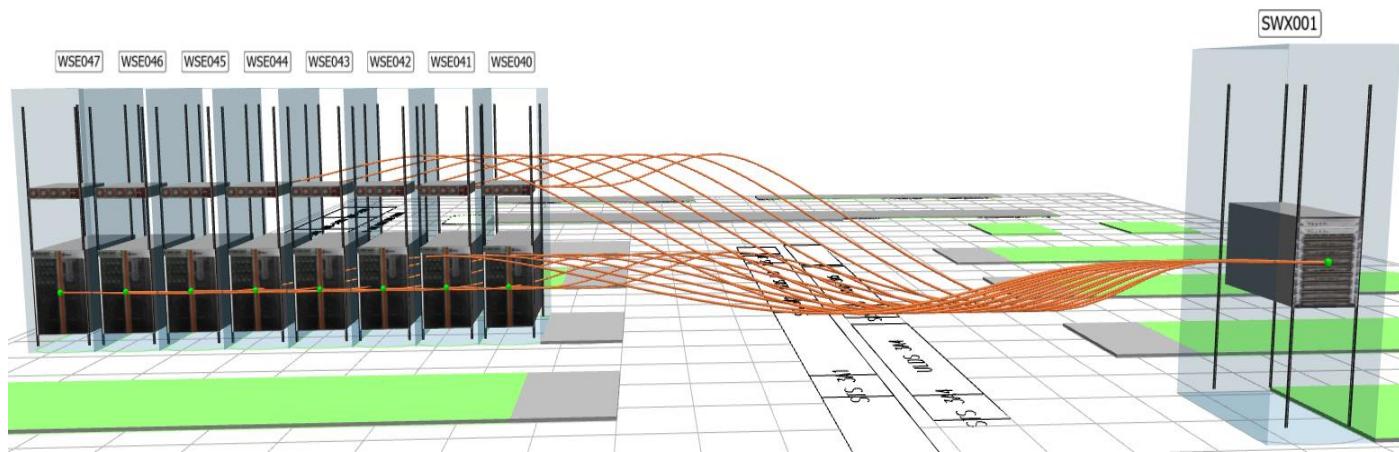
The following table shown SWX001 to WSE032 ~ WSE039 cable connection.

Starting Item Name	Starting Port Name	Cord 1 Length(ft)	Ending Item Name	Ending Port Name
SWX001-SX-SW01	4-P44	82	CS#32	P0
SWX001-SX-SW01	4-P45	80	CS#33	P0
SWX001-SX-SW01	4-P46	78	CS#34	P0
SWX001-SX-SW01	4-P47	76	CS#35	P0
SWX001-SX-SW01	4-P48	74	CS#36	P0
SWX001-SX-SW01	5-P37	72	CS#37	P0
SWX001-SX-SW01	5-P38	70	CS#38	P0
SWX001-SX-SW01	5-P39	68	CS#39	P0
SWX001-SX-SW01	4-P32	81	WSE032-MX-SW01-01	P01
SWX001-SX-SW01	4-P33	79	WSE033-MX-SW01-01	P01
SWX001-SX-SW01	4-P34	77	WSE034-MX-SW01-01	P01
SWX001-SX-SW01	4-P35	75	WSE035-MX-SW01-01	P01
SWX001-SX-SW01	4-P36	73	WSE036-MX-SW01-01	P01
SWX001-SX-SW01	5-P25	71	WSE037-MX-SW01-01	P01
SWX001-SX-SW01	5-P26	69	WSE038-MX-SW01-01	P01
SWX001-SX-SW01	5-P27	67	WSE039-MX-SW01-01	P01

Note: Item and port name refer to section [4.1.1](#), [4.1.2](#).

4.1.3.6 SWX001 to WSE040 ~ WSE047 Cable Connection

The following image shown SWX001 to WSE040 ~ WSE047 cable routing.



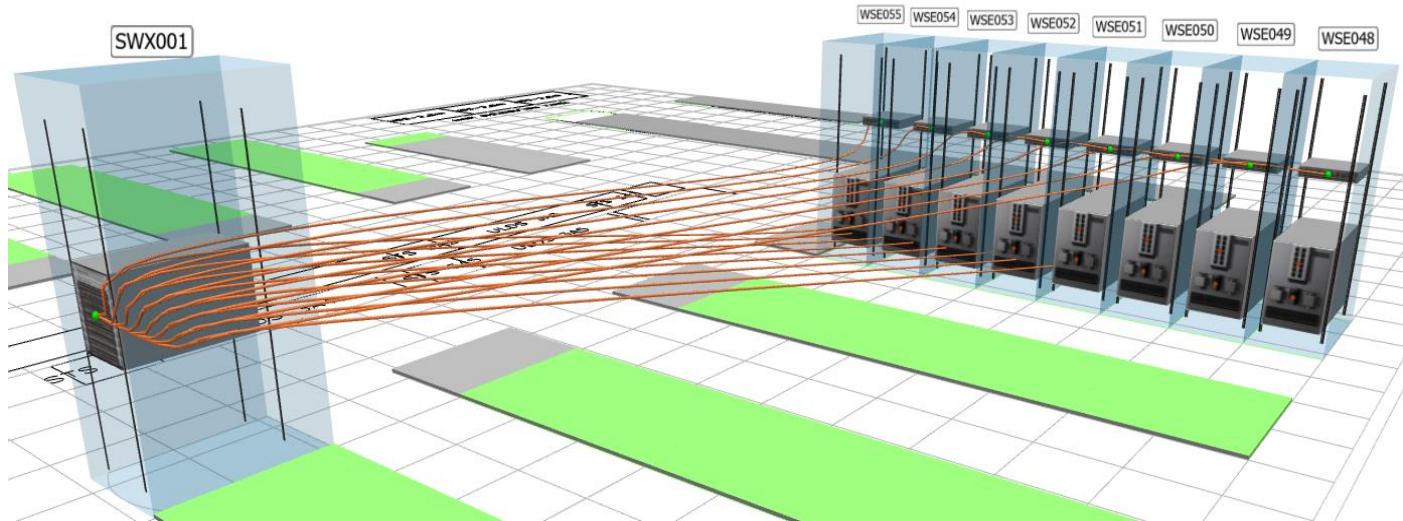
The following table shown SWX001 to WSE040 ~ WSE047 cable connection.

Starting Item Name	Starting Port Name	Cord 1 Length(ft)	Ending Item Name	Ending Port Name
SWX001-SX-SW01	5-P40	75	CS#40	P0
SWX001-SX-SW01	5-P41	77	CS#41	P0
SWX001-SX-SW01	5-P42	79	CS#42	P0
SWX001-SX-SW01	5-P43	81	CS#43	P0
SWX001-SX-SW01	5-P44	83	CS#44	P0
SWX001-SX-SW01	5-P45	85	CS#45	P0
SWX001-SX-SW01	5-P46	87	CS#46	P0
SWX001-SX-SW01	5-P47	89	CS#47	P0
SWX001-SX-SW01	5-P28	74	WSE040-MX-SW01-01	P01
SWX001-SX-SW01	5-P29	76	WSE041-MX-SW01-01	P01
SWX001-SX-SW01	5-P30	78	WSE042-MX-SW01-01	P01
SWX001-SX-SW01	5-P31	80	WSE043-MX-SW01-01	P01
SWX001-SX-SW01	5-P32	82	WSE044-MX-SW01-01	P01
SWX001-SX-SW01	5-P33	84	WSE045-MX-SW01-01	P01
SWX001-SX-SW01	5-P34	86	WSE046-MX-SW01-01	P01
SWX001-SX-SW01	5-P35	88	WSE047-MX-SW01-01	P01

Note: Item and port name refer to section [4.1.1](#), [4.1.2](#).

4.1.3.7 SWX001 to WSE048 ~ WSE055 Cable Connection

The following image shown SWX001 to WSE048 ~ WSE055 cable routing.



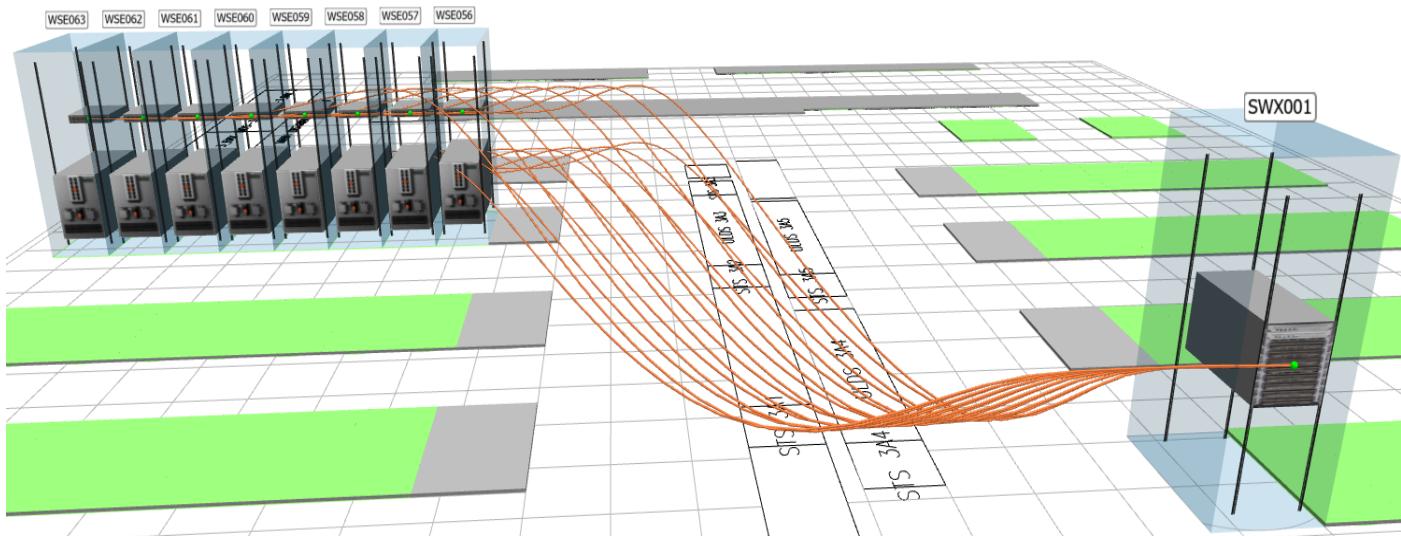
The following table shown SWX001 to WSE048 ~ WSE055 cable connection.

Starting Item Name	Starting Port Name	Cord 1 Length(ft)	Ending Item Name	Ending Port Name
SWX001-SX-SW01	5-P48	92	CS#48	P0
SWX001-SX-SW01	6-P37	90	CS#49	P0
SWX001-SX-SW01	6-P38	88	CS#50	P0
SWX001-SX-SW01	6-P39	86	CS#51	P0
SWX001-SX-SW01	6-P40	84	CS#52	P0
SWX001-SX-SW01	6-P41	82	CS#53	P0
SWX001-SX-SW01	6-P42	80	CS#54	P0
SWX001-SX-SW01	6-P43	78	CS#55	P0
SWX001-SX-SW01	5-P36	90	WSE048-MX-SW01-01	P01
SWX001-SX-SW01	6-P25	88	WSE049-MX-SW01-01	P01
SWX001-SX-SW01	6-P26	86	WSE050-MX-SW01-01	P01
SWX001-SX-SW01	6-P27	84	WSE051-MX-SW01-01	P01
SWX001-SX-SW01	6-P28	82	WSE052-MX-SW01-01	P01
SWX001-SX-SW01	6-P29	80	WSE053-MX-SW01-01	P01
SWX001-SX-SW01	6-P30	78	WSE054-MX-SW01-01	P01
SWX001-SX-SW01	6-P31	76	WSE055-MX-SW01-01	P01

Note: Item and port name refer to section [4.1.1](#), [4.1.2](#).

4.1.3.8 SWX001 to WSE056 ~ WSE063 Cable Connection

The following image shown SWX001 to WSE056 ~ WSE063 cable routing.



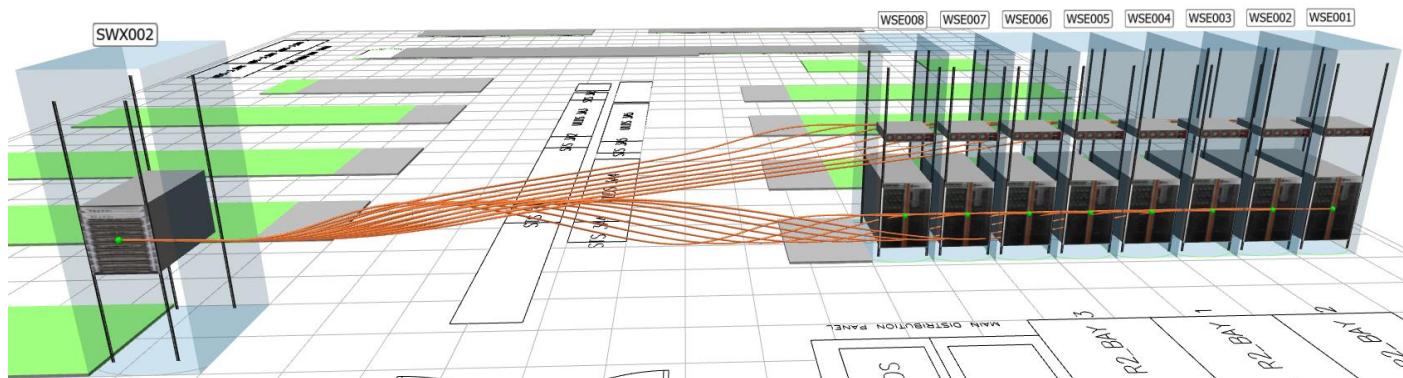
The following table shown SWX001 to WSE056 ~ WSE063 cable connection.

Starting Item Name	Starting Port Name	Cord 1 Length(ft)	Ending Item Name	Ending Port Name
SWX001-SX-SW01	6-P44	92	CS#56	P0
SWX001-SX-SW01	6-P45	94	CS#57	P0
SWX001-SX-SW01	6-P46	96	CS#58	P0
SWX001-SX-SW01	6-P47	98	CS#59	P0
SWX001-SX-SW01	6-P48	100	CS#60	P0
SWX001-SX-SW01	7-P36	102	CS#61	P0
SWX001-SX-SW01	7-P37	104	CS#62	P0
SWX001-SX-SW01	7-P38	106	CS#63	P0
SWX001-SX-SW01	6-P32	90	WSE056-MX-SW01-01	P01
SWX001-SX-SW01	6-P33	92	WSE057-MX-SW01-01	P01
SWX001-SX-SW01	6-P34	94	WSE058-MX-SW01-01	P01
SWX001-SX-SW01	6-P35	96	WSE059-MX-SW01-01	P01
SWX001-SX-SW01	6-P36	98	WSE060-MX-SW01-01	P01
SWX001-SX-SW01	7-P25	100	WSE061-MX-SW01-01	P01
SWX001-SX-SW01	7-P26	102	WSE062-MX-SW01-01	P01
SWX001-SX-SW01	7-P27	104	WSE063-MX-SW01-01	P01

Note: Item and port name refer to section [4.1.1](#), [4.1.2](#).

4.1.3.9 SWX002 to WSE001 ~ WSE008 Cable Connection

The following image shown SWX002 to WSE001 ~ WSE008 cable routing.



The following table shown SWX002 to WSE001 ~ WSE008 cable connection.

Starting Item Name	Starting Port Name	Cord 1 Length(ft)	Ending Item Name	Ending Port Name
SWX002-SX-SW01	2-P37	74	CS#1	P1
SWX002-SX-SW01	2-P38	72	CS#2	P1
SWX002-SX-SW01	2-P39	70	CS#3	P1
SWX002-SX-SW01	2-P40	68	CS#4	P1
SWX002-SX-SW01	2-P41	66	CS#5	P1
SWX002-SX-SW01	2-P42	64	CS#6	P1
SWX002-SX-SW01	2-P43	62	CS#7	P1
SWX002-SX-SW01	2-P44	60	CS#8	P1
SWX002-SX-SW01	2-P25	73	WSE001-MX-SW-01-01	P02
SWX002-SX-SW01	2-P26	71	WSE002-MX-SW-01-01	P02
SWX002-SX-SW01	2-P27	69	WSE003-MX-SW-01-01	P02
SWX002-SX-SW01	2-P28	67	WSE004-MX-SW-01-01	P02
SWX002-SX-SW01	2-P29	65	WSE005-MX-SW-01-01	P02
SWX002-SX-SW01	2-P30	63	WSE006-MX-SW-01-01	P02
SWX002-SX-SW01	2-P31	61	WSE007-MX-SW-01-01	P02
SWX002-SX-SW01	2-P32	59	WSE008-MX-SW-01-01	P02

Note: Item and port name refer to section [4.1.1](#), [4.1.2](#).

7 Product Specification

7.1 Fiber Trunk Cable Specification

Cabling123's w-Ignite MPO/MTP® provide great plug and play capabilities for data center and other high-density applications. The MPO connector terminates 12 / 16 / 24 fiber and achieves the highest density inter connect, replacing up to 24 individuals' fiber connections. This provides an effective way to achieve high density in a small space. MPO patch cords are high quality fiber optic patch cords that are designed to meet or exceed industry specification. Each patch cord is pre-terminated, expertly polished, and tested for low insertion loss and back reflection. This ensures peak optical performance, while saving time and effort during on-site installation.



12F MPO Connector

Features & Benefits

- Excellent optical performance.
- Terminated and individually tested.
- Ready to Install On-Site.
- High-Density interconnect replacing up to 24.
- Alignment achieved with high precision guide pins.
- Identification label provides traceability.
- Base cable plenum rated for code compliance.
- Customized harness cables available.

Applications

- Data Center Networking.
- Telecommunication Networks.
- Enterprise.
- Test Labs.
- Storage.

Optical Performance Specifications

Fiber Type			MM	MM Elite	SM		SM Elite
Wavelength (nm)			850 & 1300		1310 & 1550		
Polishing			PC		UPC	APC	
Insertion Loss (dB)	MPO	Typical	0.20	0.10		0.25	0.10
	Max		0.60	0.35		0.70	0.35
		LC	0.20		0.30	0.30	
Return Loss (dB)	MPO					-55	-60
	LC				-50	-60	