

PRIMERGY BX400 System Unit

System configurator and order-information guide

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Change report

PRIMERGY Server

Instructions

This document contains basic product and configuration information that will enable you to configure your system via System-Architect.

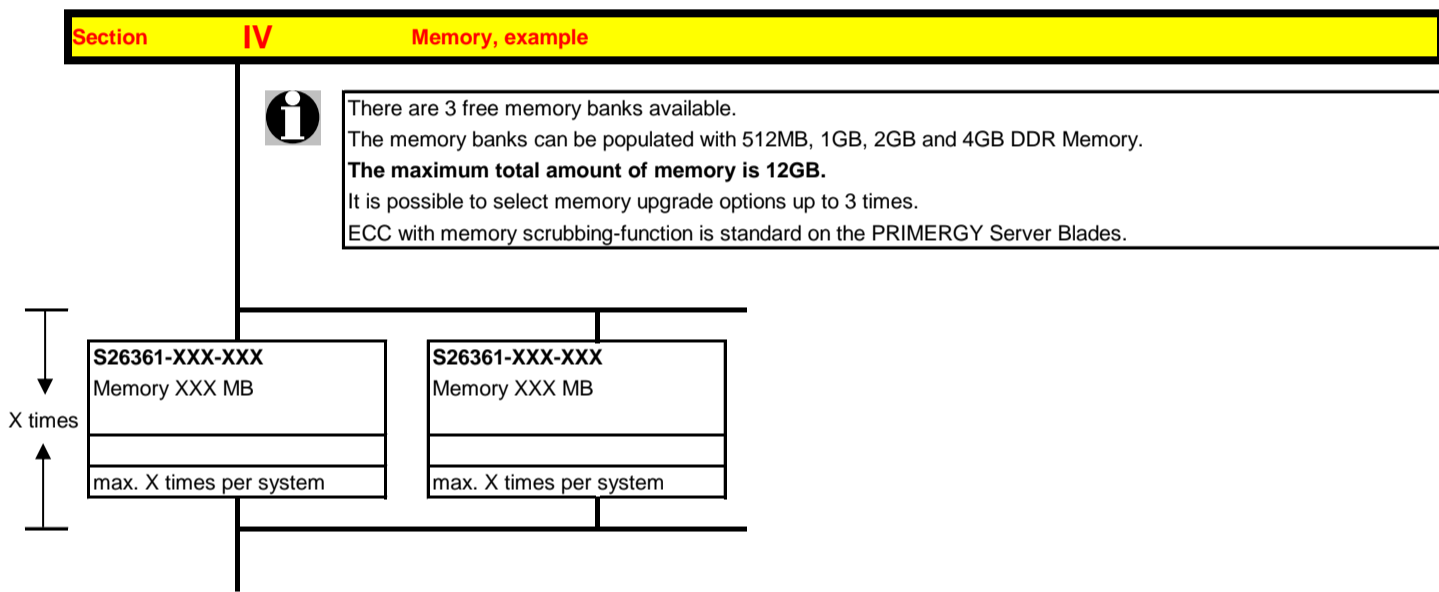
Only the tool "System-Arcitect" will ensure a fast and proper configuration of your PRIMERGY server or your complete PRIMERGY Rack system.

Please pay attention to the naming conventions: **BX400 S1** System unit 1st generation

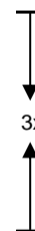
You can configure your individual PRIMERGY server in order to adjust your specific requirements.

The System configurator is divided into several chapters that are identical to the current price list and PC-/ System-Architect.

Please follow the lines. If there is a junction, you can choose which way or component you would like to take. Go through the configurator by following the lines from the top to the bottom.



In one chapter you can only select as many components (here 3x) as the arrow indicates.



Please note that there are information symbols which indicate necessary information.



For further information see:

http://ts.fujitsu.com/products/standard_servers/index.html

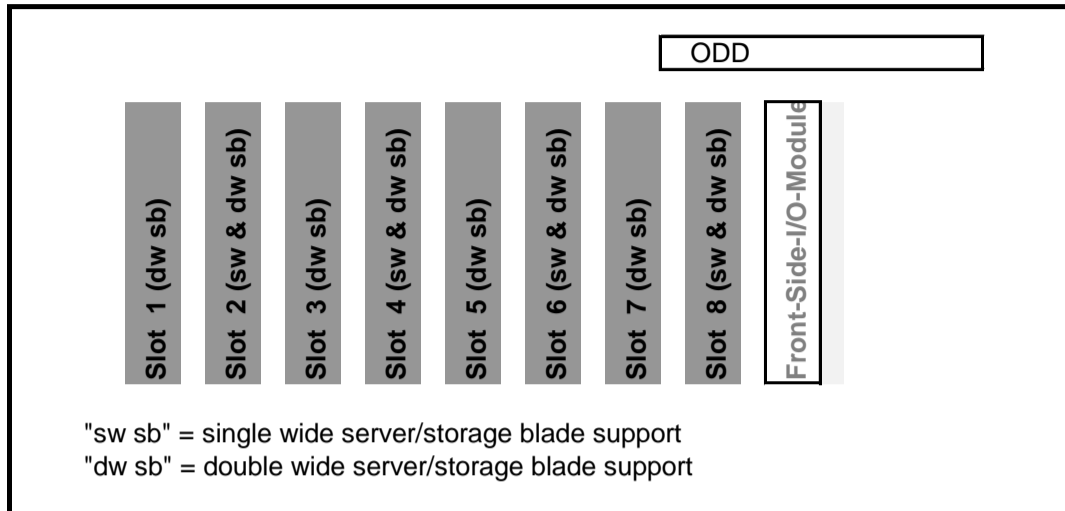
(internet)

https://partners.ts.fujitsu.com/com/order-supply/configurators/primergy_config/Pages/Currentconfigure (extranet)

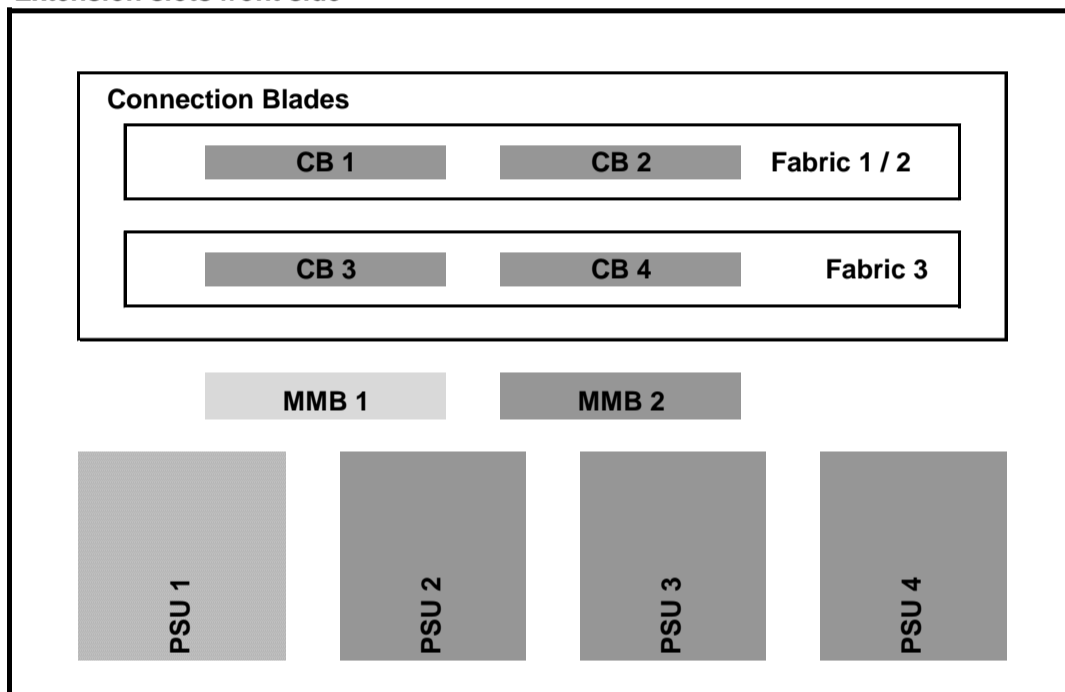
Prices and availability see price list and PC-/ System-Architect
Subject to change and errors excepted

Configuration diagram BX400 S1 System Unit

Extension slots front side



Extension slots front side



Key:

 Included in basic unit

 Option

PSU slots 2, 3 and 4 can also be equipped with fan modules.
 (see next page for details on power and cooling)

Section I System Unit BX400 S1

S26361-K1335-V201
 The System Unit BX400 S1 consists of:

- * 6U chassis including
- * Rack mounting kit suitable for
 - PRIMERGY 19" PRIMECENTER Rack, FJ new rack and 3rd party racks (e.g. Rittal)
 - 1 pair of carrier rails and 1 bracket for DC-Rack
- * 1 Hot-plug PSU 1600W (230V) / 1100W (115V) with 2 fans at the rear side without power cable

* Drives / bays / slots

- 8 empty slots for 8 Server Blades at front side.
- 4 empty slots for Connection Blades at rear side
- 2 empty slots for additional hot-plug power supplies or fan modules at rear side

* 1 hot-plug Management Blades

* Front-Side-I/O-Module (FSIOM) provides 2x USB, 1x LAN, 1x serial port and 1 slot for front panel or LCD module

External Interfaces:

- 1x RS-232-C (serial, 9 pin) per Management Blade
- 2x Gb Ethernet per Management Blade
- 2x USB per Management Blade
- 1x VGA, 1x serial and 4x USB at front side of each Server Blade via special cable
- 2x USB at front side by FSIOM
- 1x Gb Ethernet (RJ45) at front side by FSIOM (redirected MMB LAN port)
- 1x RS-232-C (serial, 9 pin) at front side by FSIOM (redirected MMB serial port)

Cables (shipped with each System Unit):

- 1x special cable with 4x USB for external CD/FD, serial RS232 and 1x VGA for Server Blade front side connection.

Software:

- ServerView Suite Software package incl. ServerStart, ServerBooks, Management Software and Updates

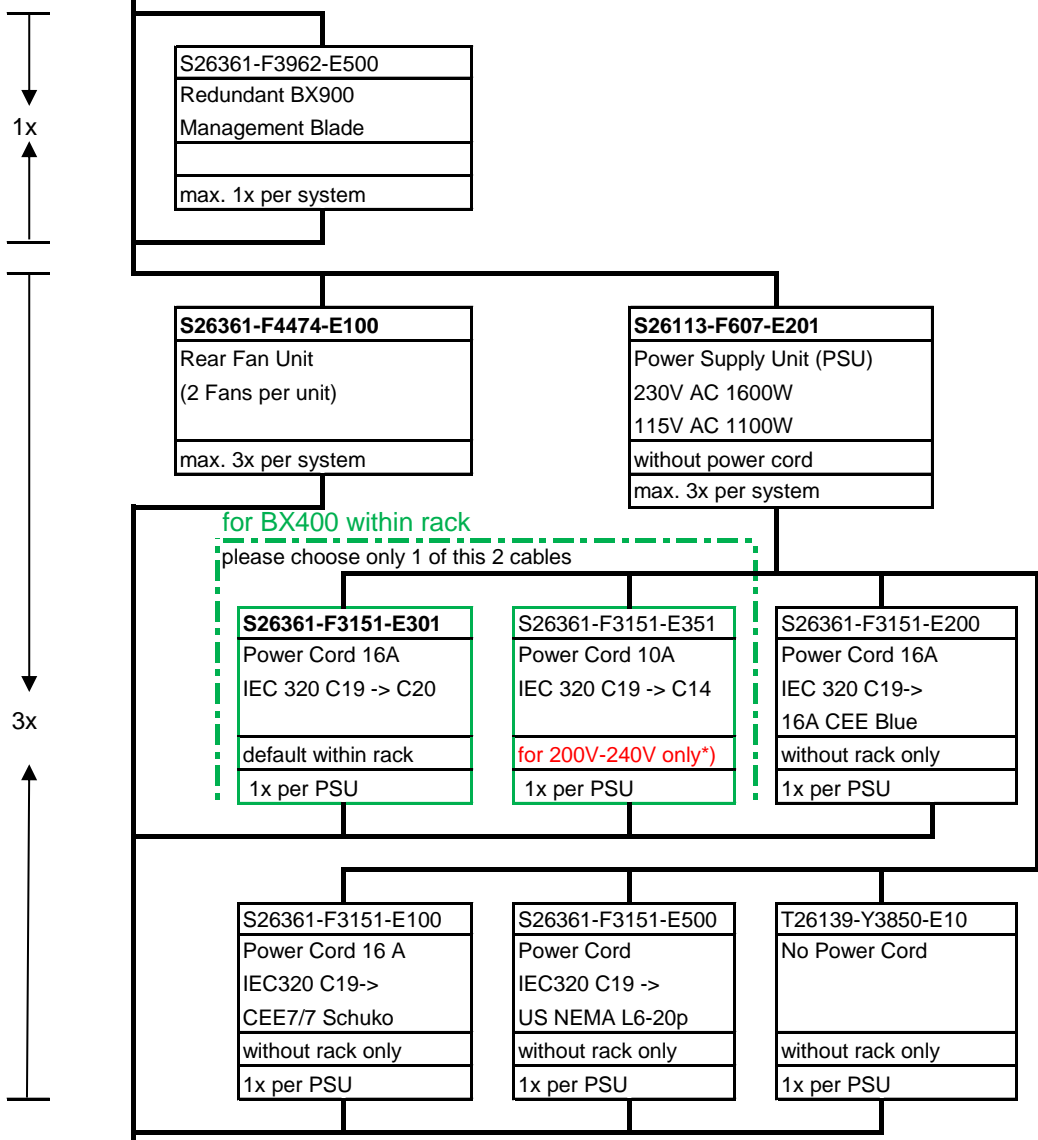
Note: At least one Server Blade must be integrated in the System Unit ex works.
 Server Blades can also be ordered for further extension later!

In total the number of configured PSU and Fan units must be three (3) !

- if no additional PSU is configured 3 Fan units must be configured
- if 1 additional PSU is configured 2 Fan units must be configured
- if 2 additional PSUs are configured 1 Fan unit must be configured
- if 3 additional PSUs are configured no Fan unit must be configured

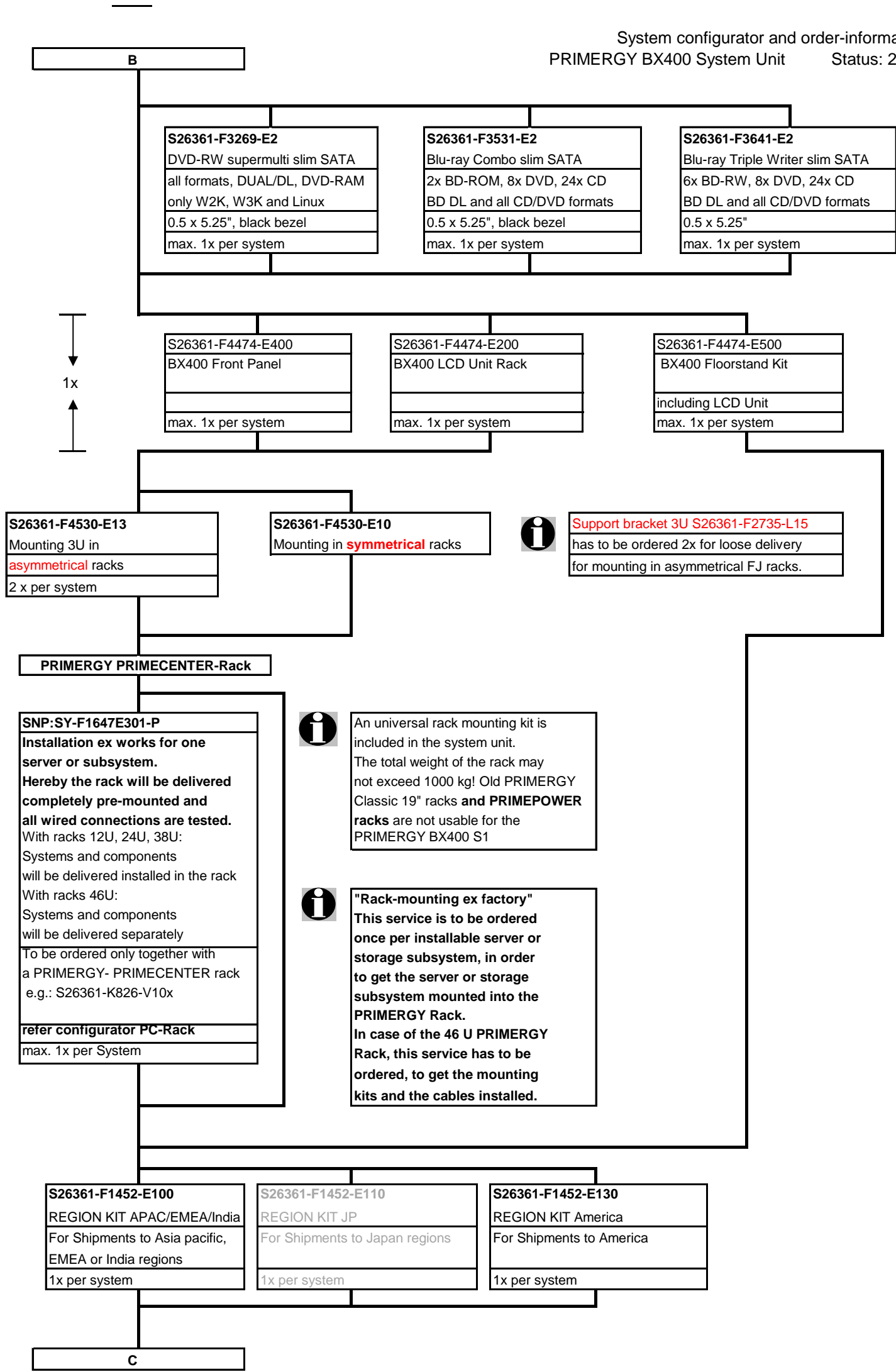
Power and cooling considerations

Number of PSU	Number of FAN	Max. Dual Server Blades	PSU Redundancy 230V	PSU Redundancy 115V
1	3	4	1+0	1+0
2	2	8	2+0	2+0
3	1	8	3+0	3+0
4	0	8	2+2	3+1
4	0	8	3+1	3+1



***) in System architect please change the default 16A connection to a 10A connection for all PSU**

B

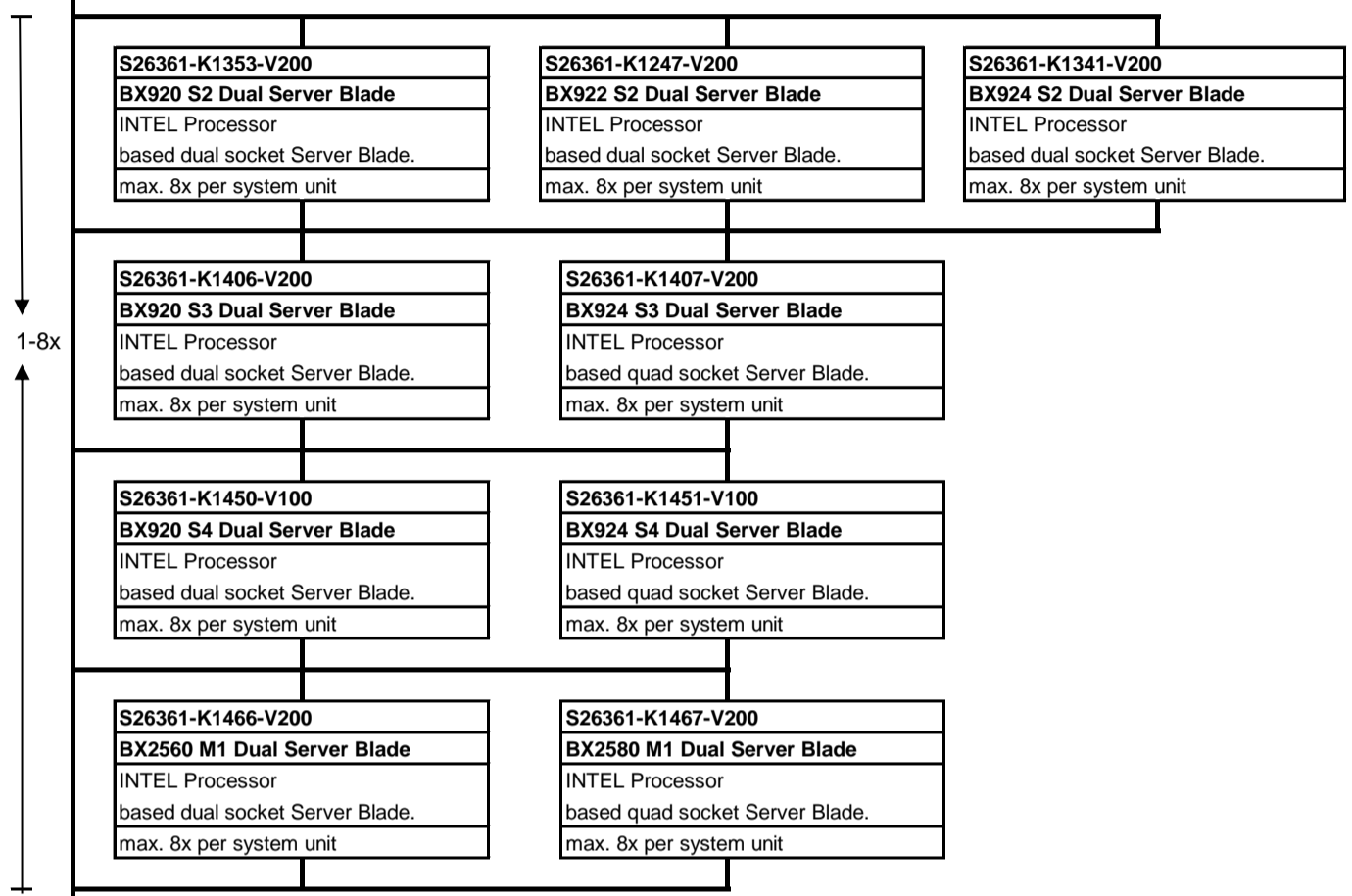


i For more configuration information see the separate Server Blade configurator at:
https://partners.ts.fujitsu.com/com/order-supply/configurators/primergy_config/current/Pages/default.aspx

D

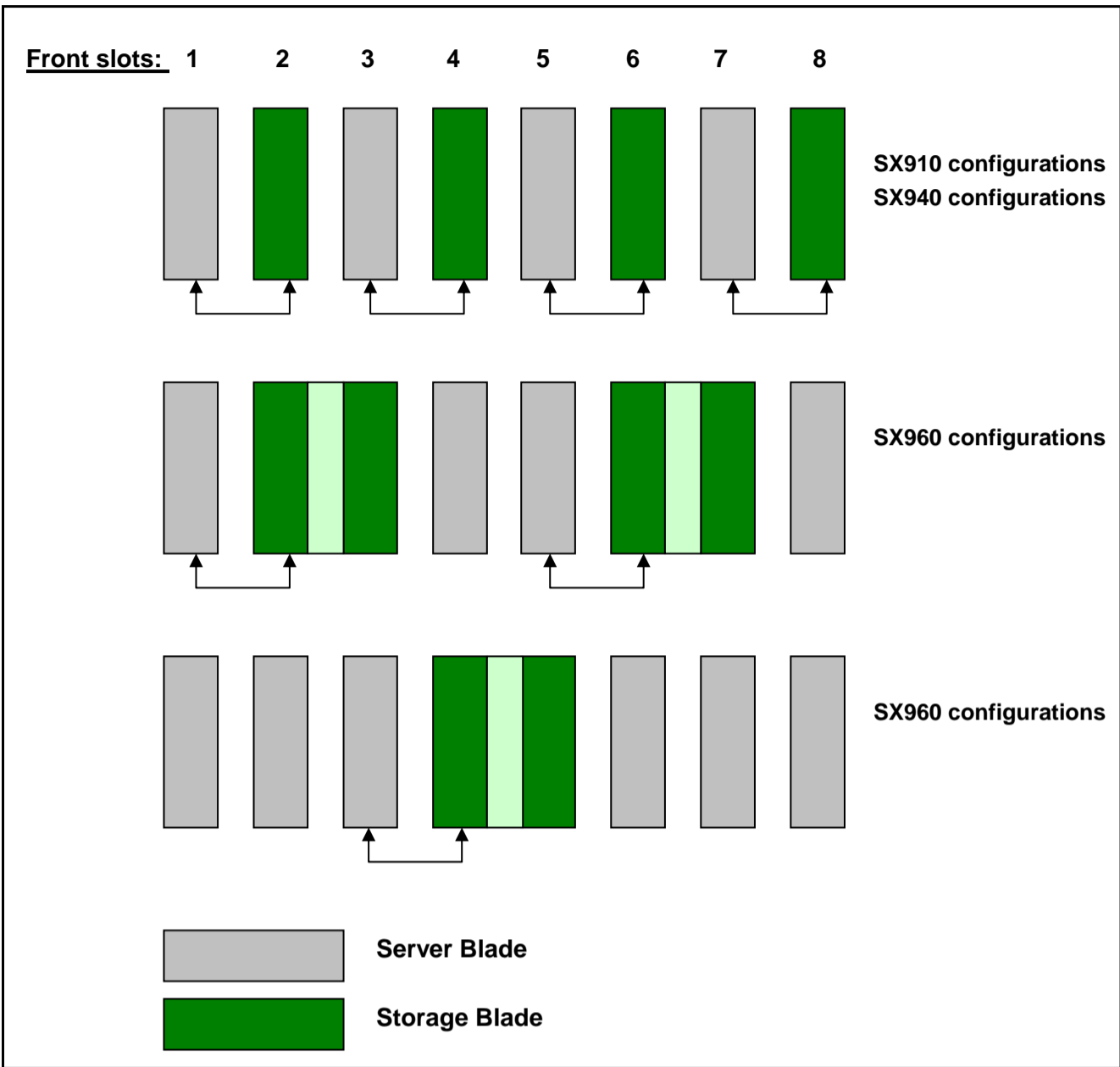
Section II BX900 Server Blades in System Unit BX400 S1

For the BX400 the defined BX900 Server Blades can be used!
 All described Server Blades can be mixed in on System Unit with the explained exceptions.
For more configuration information see the separate Server Blade configurator at:
https://partners.ts.fujitsu.com/com/order-supply/configurators/primergy_config/current/Pages/default.aspx

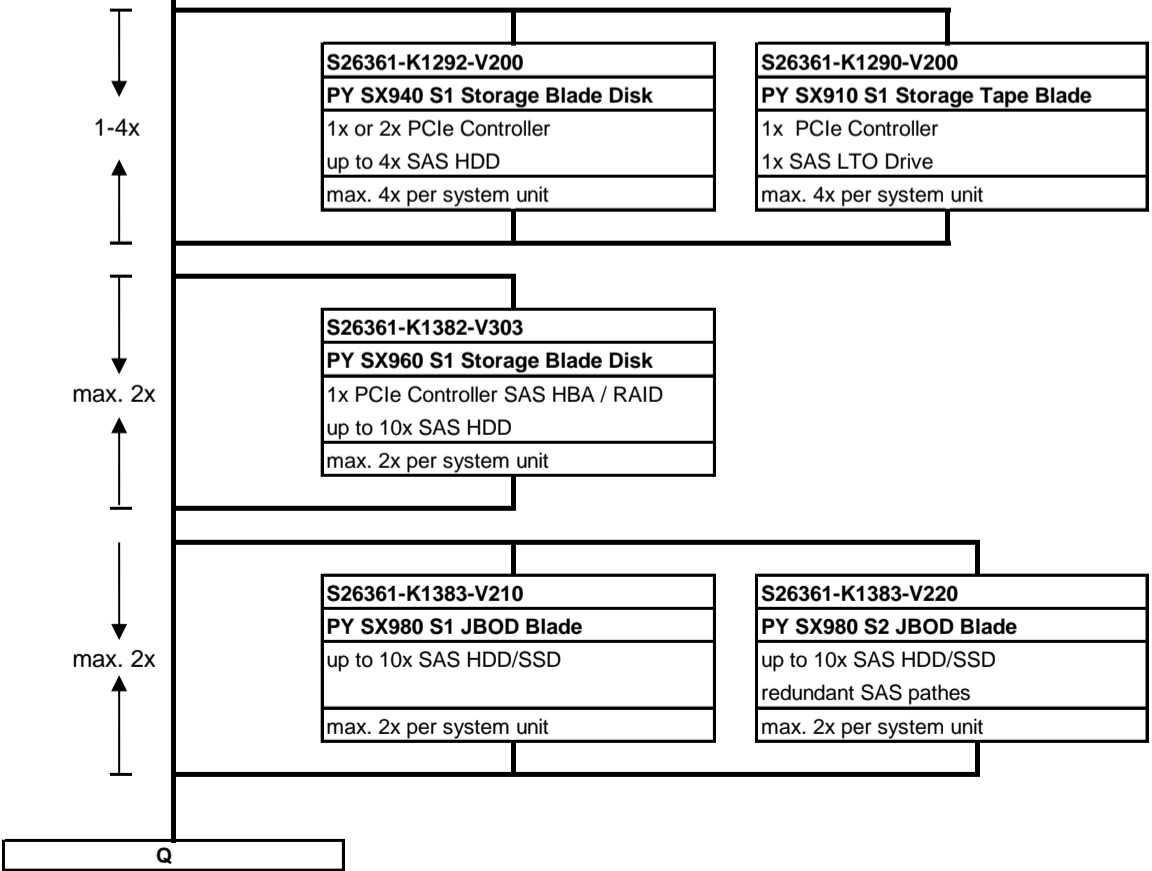


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Section III BX900 Storage Blades in System Unit BX400 S1



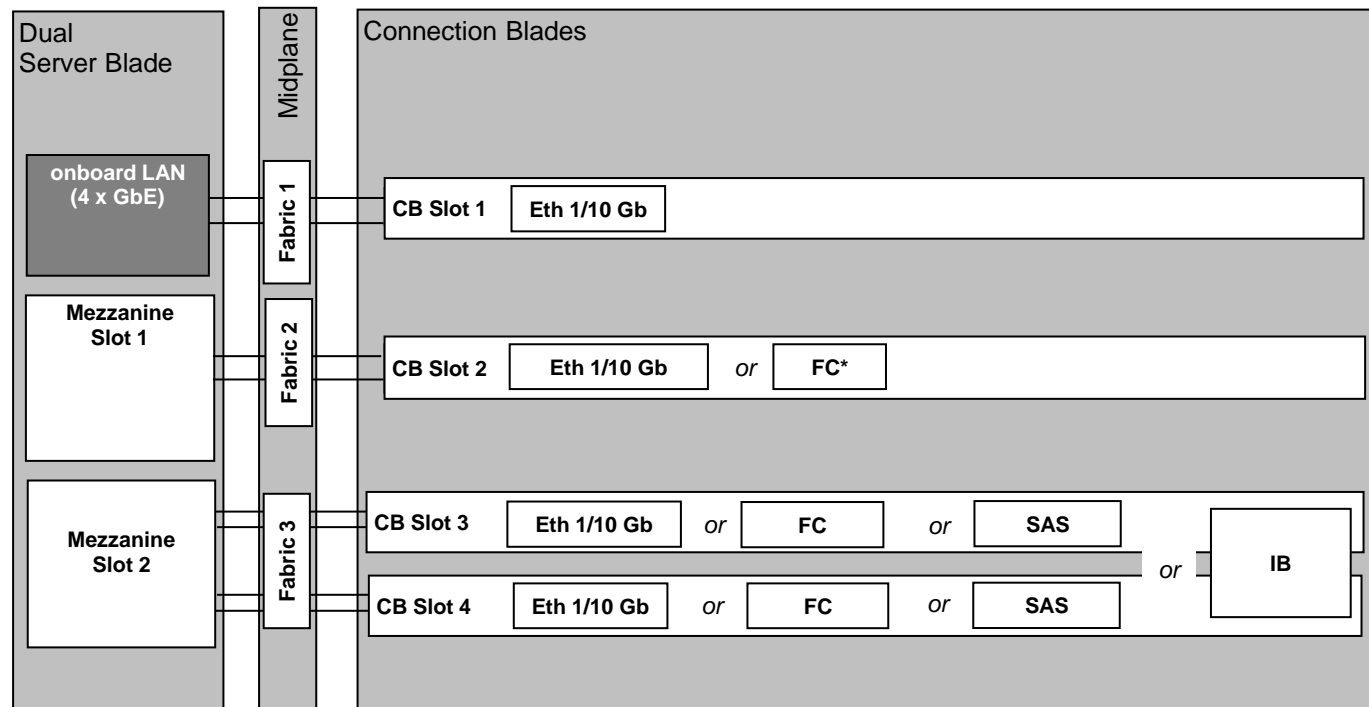
i All described Storage Blades can be inserted into the designated slots of the System Unit.
 For more configuration information see the separate Server Blade configurator at:
https://partners.ts.fujitsu.com/com/order-supply/configurators/primergy_config/current/Pages/default.aspx



Section IV Connection Blade Overview



Each PRIMERGY BX9xx Server Blade comes with onboard Ethernet LAN channels and special connectors for the optional mezzanine cards.
Example BX920 S2: 4 x 1GbE onboard and 2 x Mezzanine slots



Connection Blades released for BX400 S1 System Unit :

Order number	Connection Blade Type	installable in CB Slot	Downlink ports (internal)	Uplink ports (external)
S26361-K1304-V100	PY CB Eth Switch/IBP 1Gb 36/12	1/2/3/4	36x 1Gb Eth	8x 1Gb Eth (RJ45) 4x 1Gb SFP
S26361-K1304-V101	PY CB Eth Switch/IBP 1Gb 36/8+2	1/2/3/4	36x 1Gb Eth	8x 1Gb Eth (RJ45) 2x 10Gb Eth SFP+
S26361-K1366-V100	PY CB Eth Switch/IBP 1Gb 18/6	1/2/3/4	18x 1Gb Eth	6x 1Gb (RJ45)
S26361-K1304-V200	PY CB Eth Switch/IBP 10Gb 18/8	1/2/3/4	18x 10Gb Eth	8x 10Gb Eth SFP+
S26361-K1533-V100	PY CB Eth Switch 10/40Gb 18/8+2	1/2/3/4	18x 10Gb Eth	x 1
S26361-K1429-V100	PY CB DCB Switch 10Gb 18/6 (Brocade)	1/2/3/4	18x 10Gb Eth	x
S26361-K1429-V200	PY CB DCB SW 10Gb 18/6/6 Enterprise (1/2/3/4	18x 10Gb Eth	x
S26361-K1440-V100	PY CB FEX B22F 10Gb 16/8 (Cisco)	1/2/3/4	16x 10Gb Eth	8x 10Gb Eth SFP+
S26361-K1440-V110	PY CB FEX B22F FET 10Gb 16/8 (Cisco)	1/2/3/4	16x 10Gb Eth	8x 10Gb Eth SFP+
S26361-K1365-V18	PY CB Eth Pass Thru 1/10Gb 18/18	1/2/3/4	18x 8Gb Eth	18x 1/10Gb Eth SFP+
S26361-K1305-V14	FC Switch 8Gb 18/8 14 Port (Brocade)	2/3/4	18x 8Gb FC	8x 8Gb SFP+
S26361-K1305-V26	FC SW 8G 18/8 26 Port (Brocade)	2/3/4	18x 8Gb FC	8x 8Gb SFP+
S26361-K1305-V126	FC SW 8G 18/8 26 Perform (Brocade)	2/3/4	18x 8Gb FC	8x 8Gb SFP+
S26361-K1527-V14	PY CB FC Switch 16Gb 18/8 14 (Brocade)	2/3/4	18x 16Gb FC	8x 16Gb FC (SFP+)
S26361-K1527-V26	PY CB FC Switch 16Gb 18/8 26 (Brocade)	2/3/4	18x 16Gb FC	8x 16Gb FC (SFP+)
S26361-K1527-V27	PY CB FC Switch 16Gb 18/8 26 E (Brocade)	2/3/4	18x 16Gb FC	8x 16Gb FC (SFP+)
S26361-K1363-V18	PY CB FC Pass Thru 8G 18/18	3/4	18x 8Gb FC	8x 8Gb SFP+
S26361-K1336-V200	PY CB IB Switch 40Gb 18/18	3/4	18x 40Gb IB	18x 40Gb IB (QSFP)
S26361-K1391-V300	PY CB SAS Switch 6Gb 18/6	3/4	18x 6Gb SAS	6x 6Gb SAS (SFF8088)



There is no Connection Blade included in the System Unit.

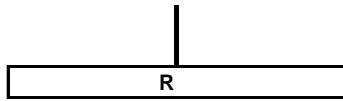
Mezzanine Cards released for BX9xx Server Blades

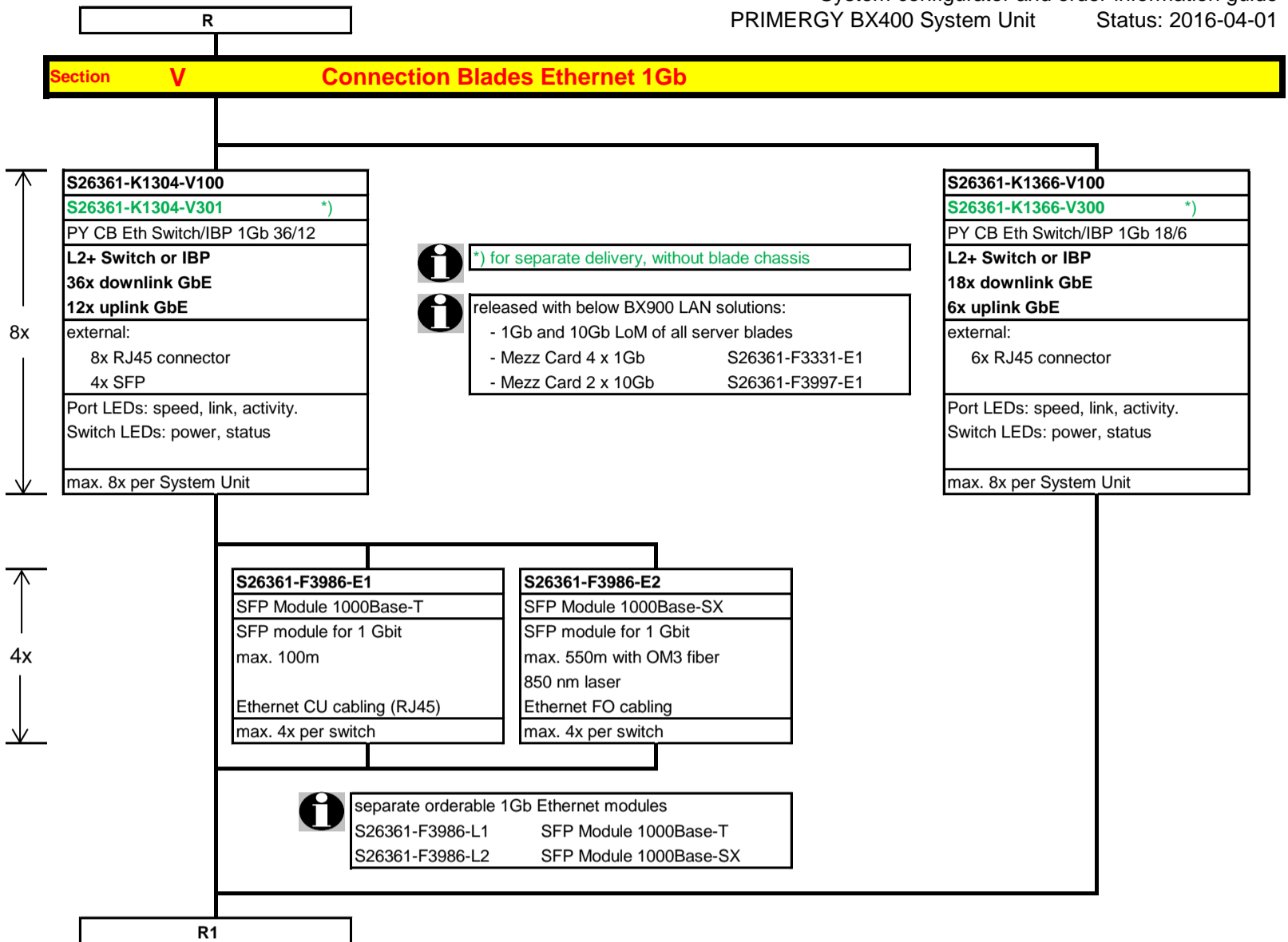
	System	BX920 S2	BX920 S3	BX920 S4	BX922 S2	BX924 S2	BX924 S3	BX924 S4
		omboard LAN ports	4x 1GbE	2x 10GbE	4x 1GbE	4x 1GbE	2x 10GbE	2x 10GbE
	mezzanie slots	2 slots	2 slots	2 slots	2 slots	2 slots	2 slots	2 slots
Eth 1Gb 4 Port	S26361-F3331-E1	X	X	X	X	X	X	X
FC 8Gb 2 Port	S26361-F3874-E1	X	X	X	X	X	X	X
FC 16Gb 2 Port	S26361-F4994-E402							X
IB 40Gb 2 Port	S26361-F3992-E2	X	X	X	X	X	X	X
IB 56Gb 2 Port	S26361-F4534-E1		X				X	X
Eth 10Gb 2 Port	S26361-F3997-E1	X	X	X	X	X	X	X
SAS HBA Mezz	S26361-F4480-E1	X	X	X	X	X	X	X
SAS RAID Mezz	S26361-F4481-E1	X	X	X	X	X	X	X
CNA 10GB BE3	S26361-F3592-E532		X				X	X

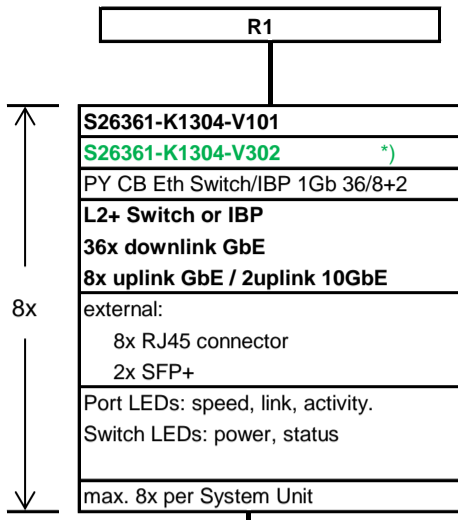
Supportmatrix for Ethernet Connection Blades

Order number	Codename	LAN on Motherboard								Eth 4x 1Gb F3331-E1	Eth 2x 10Gb F3997-E1	Eth 2x 10Gb F3592-E502	Eth 2x 10Gb F3592-E532	FC 2x 8Gb F3874-E1	FC 2x 16Gb F4994-E402
		BX920 S1/S2	BX920 S3/S4	BX2560 M1	BX922 S2	BX924 S2	BX924 S3/S4	BX2580 M1	BX960 S1						
S26361-K1304-V100	SB11A	X	X	X	X	X	X	X	X	X	X	X	X	X	X

		^	^	^	^	^	^	^	^	^	^	^	^	^	^	^
S26361-K1304-V101	SB11	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
S26361-K1366-V100	SB6	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
S26361-K1304-V200	SBAX2	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
S26361-K1533-V100	SBAX3	---	X	X	---	---	X	X	---	---	---	---	---	X	---	---
S26361-K1429-V100	Harrier	---	X	X	---	---	X	X	---	---	---	---	X	X	---	---
S26361-K1429-V200	Harrier	---	X	X	---	---	X	X	---	---	---	---	X	X	---	---
S26361-K1440-V100	FEX	---	X	X	---	---	X	X	---	---	---	---	---	X	---	---
S26361-K1440-V110	FEX	---	X	X	---	---	X	X	---	---	---	---	---	X	---	---
S26361-K1365-V18	Eth Pass Thru	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
S26361-K1305-V14	BR 5450	---	---	---	---	---	---	---	---	---	---	---	---	---	X	---
S26361-K1305-V126	BR 5450	---	---	---	---	---	---	---	---	---	---	---	---	---	X	---
S26361-K1305-V26	BR 5450	---	---	---	---	---	---	---	---	---	---	---	---	---	X	---
S26361-K1527-V14	BR 6545	---	---	---	---	---	---	---	---	---	---	---	---	---	X	X
S26361-K1527-V26	BR 6545	---	---	---	---	---	---	---	---	---	---	---	---	---	X	X
S26361-K1527-V27	BR 6545	---	---	---	---	---	---	---	---	---	---	---	---	---	X	X
S26361-K1363-V18	FC Pass Thru	---	---	---	---	---	---	---	---	---	---	---	---	---	X	---

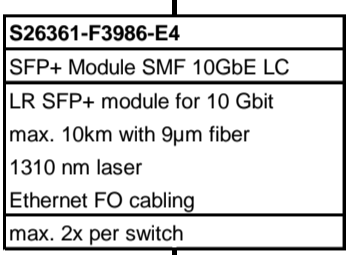
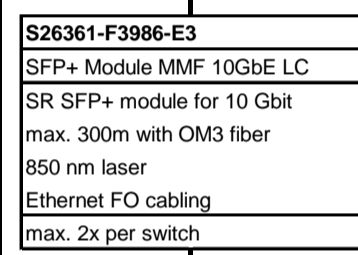
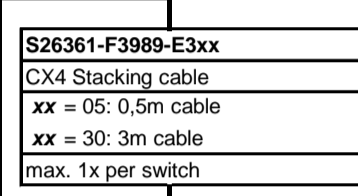






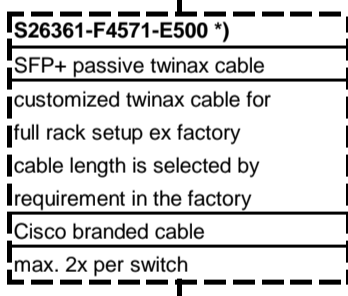
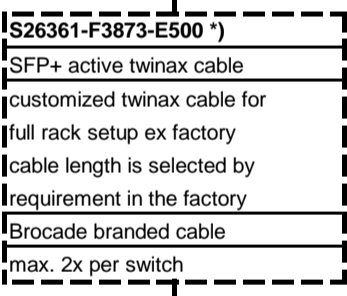
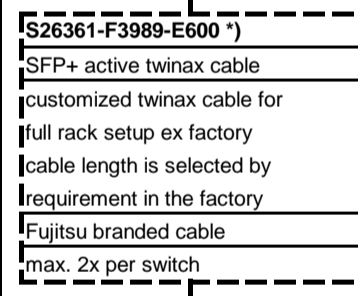
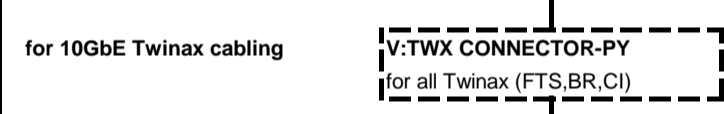
i *) for separate delivery, without blade chassis

i released with below BX900 LAN solutions:
 - 1Gb and 10Gb LoM of all server blades
 - Mezz Card 4 x 1Gb S26361-F3331-E1
 - Mezz Card 2 x 10Gb S26361-F3997-E1



i separate orderable 10Gb Ethernet modules
 S26361-F3986-L3 SFP+ Module MMF 10GbE LC
 S26361-F3986-L4 SFP+ Module SMF 10GbE LC

8x
 2x

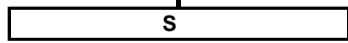


i *) in SA only shown in cabling view

i separate orderable 10Gb Ethernet cables

S26361-F3989-L102	SFP+ active twinax cable 2m
S26361-F3989-L105	SFP+ active twinax cable 5m
S26361-F3989-L110	SFP+ active twinax cable 10m
S26361-F3873-L501	SFP+ active twinax cable 1m
S26361-F3873-L503	SFP+ active twinax cable 3m
S26361-F3873-L505	SFP+ active twinax cable 5m
S26361-F4571-L101	SFP+ passive twinax cable 1m
S26361-F4571-L103	SFP+ passive twinax cable 3m
S26361-F4571-L105	SFP+ passive twinax cable 5m
S26361-F4571-L107	SFP+ active twinax cable 7m
S26361-F4571-L110	SFP+ active twinax cable 10m

S26361-F3873-L5xx are Brocade branded cables
 S26361-F4571-L1xx are Cisco branded cables



S

Section V a Connection Blades Ethernet 10Gb

6x	S26361-K1304-V200
	S26361-K1304-V303 *)
	PY CB Eth Switch/IBP 10Gb 18/8
	EHM, L2+ Switch or IBP
	18x downlink / 8x uplink 10GbE
	EHM (End-Host-Mode) is default
external:	8x SFP+ / SFP
Port LEDs: link, activity	Switch LEDs: power, status
	max. 6x per System Unit

*) for separate delivery, without blade chassis

i released with below BX900 LAN solutions:

- 1Gb and 10Gb LoM of all server blades
- Mezz Card 4 x 1Gb S26361-F3331-E1
- Mezz Card 2 x 10Gb S26361-F3997-E1
- Mezz Card MC-CNA102E S26361-F3592-E502
- Mezz Card MC-CNA112E S26361-F3592-E532

i The 10Gb Connection Blade is released for:
fabric 1 - 3 (CB 1 - 6) of the System Unit.

S26361-F3986-E1	S26361-F3986-E2
SFP Module 1000Base-T	SFP Module 1000Base-SX
SFP module for 1 Gbit	SFP module for 1 Gbit
max. 100m	max. 550m with OM3 fiber
Ethernet CU cabling (RJ45)	Ethernet FO cabling
max. 8x per switch	max. 8x per switch

i separate orderable 1Gb Ethernet modules

S26361-F3986-E1	SFP Module 1000Base-T
S26361-F3986-E2	SFP Module 1000Base-SX

S26361-F3986-E3	S26361-F3986-E4
SFP+ Module MMF 10GbE LC	SFP+ Module SMF 10GbE LC
SR SFP+ module for 10 Gbit	LR SFP+ module for 10 Gbit
max. 300m with OM3 fiber	max. 10km with 9µm fiber
850 nm laser	1310 nm laser
Ethernet FO cabling	Ethernet FO cabling
max. 8x per switch	max. 8x per switch

i separate orderable 10Gb Ethernet modules

S26361-F3986-L3	SFP+ Module MMF 10GbE LC
S26361-F3986-L4	SFP+ Module SMF 10GbE LC

V:TWX CONNECTOR-SP
for FTS and BR Twinax only

S26361-F3989-E600 *)	S26361-F3873-E500 *)
SFP+ active twinax cable	SFP+ active twinax cable
customized twinax cable for full rack setup ex factory	customized twinax cable for full rack setup ex factory
cable length is selected by requirement in the factory	cable length is selected by requirement in the factory
Fujitsu branded cable	Brocade branded cable
max. 8x per switch	max. 8x per switch

*) in SA only shown in cabling view

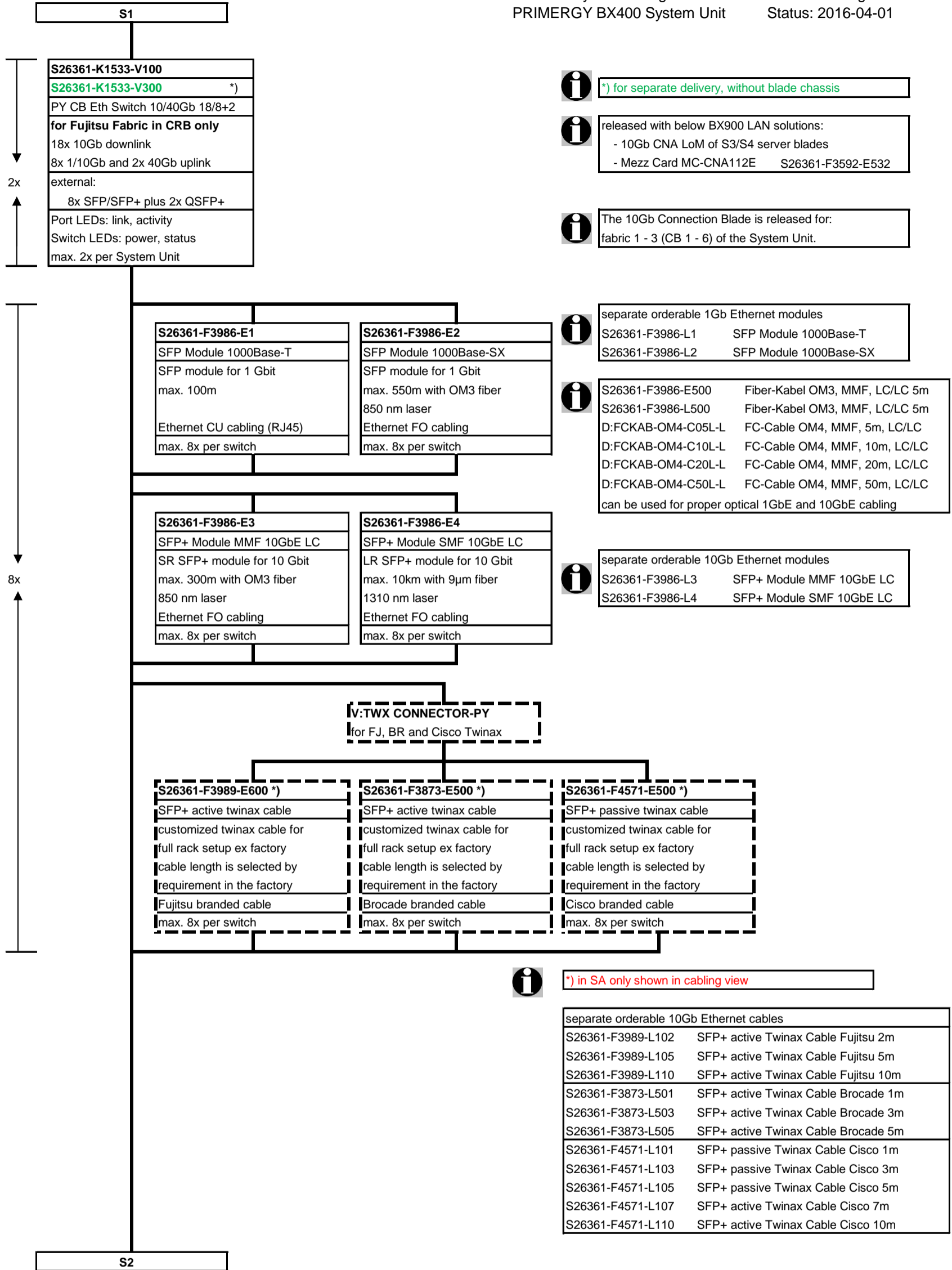
i separate orderable 10Gb Ethernet cables

S26361-F3989-L102	SFP+ active twinax cable 2m
S26361-F3989-L105	SFP+ active twinax cable 5m
S26361-F3989-L110	SFP+ active twinax cable 10m
S26361-F3873-L501	SFP+ active twinax cable 1m
S26361-F3873-L503	SFP+ active twinax cable 3m
S26361-F3873-L505	SFP+ active twinax cable 5m
S26361-F4571-L101	SFP+ passive twinax cable 1m
S26361-F4571-L107	SFP+ active twinax cable 7m
S26361-F4571-L110	SFP+ active twinax cable 10m

S26361-F3873-L5xx are Brocade branded cables
 S26361-F4571-L1xx are Cisco branded cables

8x

S1



i *) for separate delivery, without blade chassis

i released with below BX900 LAN solutions:
 - 10Gb CNA LoM of S3/S4 server blades
 - Mezz Card MC-CNA112E S26361-F3592-E532

i The 10Gb Connection Blade is released for:
 fabric 1 - 3 (CB 1 - 6) of the System Unit.

i separate orderable 1Gb Ethernet modules
 S26361-F3986-L1 SFP Module 1000Base-T
 S26361-F3986-L2 SFP Module 1000Base-SX

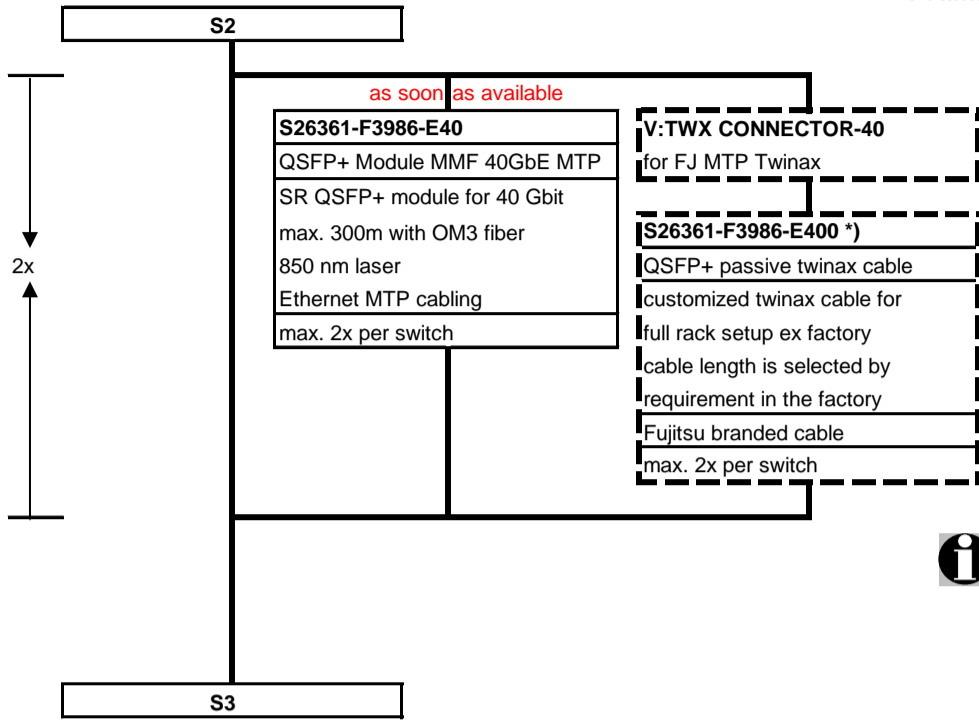
i S26361-F3986-E500 Fiber-Kabel OM3, MMF, LC/LC 5m
 S26361-F3986-L500 Fiber-Kabel OM3, MMF, LC/LC 5m
 D:FCKAB-OM4-C05L-L FC-Cable OM4, MMF, 5m, LC/LC
 D:FCKAB-OM4-C10L-L FC-Cable OM4, MMF, 10m, LC/LC
 D:FCKAB-OM4-C20L-L FC-Cable OM4, MMF, 20m, LC/LC
 D:FCKAB-OM4-C50L-L FC-Cable OM4, MMF, 50m, LC/LC
 can be used for proper optical 1GbE and 10GbE cabling

i separate orderable 10Gb Ethernet modules
 S26361-F3986-L3 SFP+ Module MMF 10GbE LC
 S26361-F3986-L4 SFP+ Module SMF 10GbE LC

i *) in SA only shown in cabling view

separate orderable 10Gb Ethernet cables

S26361-F3989-L102	SFP+ active Twinax Cable Fujitsu 2m
S26361-F3989-L105	SFP+ active Twinax Cable Fujitsu 5m
S26361-F3989-L110	SFP+ active Twinax Cable Fujitsu 10m
S26361-F3873-L501	SFP+ active Twinax Cable Brocade 1m
S26361-F3873-L503	SFP+ active Twinax Cable Brocade 3m
S26361-F3873-L505	SFP+ active Twinax Cable Brocade 5m
S26361-F4571-L101	SFP+ passive Twinax Cable Cisco 1m
S26361-F4571-L103	SFP+ passive Twinax Cable Cisco 3m
S26361-F4571-L105	SFP+ passive Twinax Cable Cisco 5m
S26361-F4571-L107	SFP+ active Twinax Cable Cisco 7m
S26361-F4571-L110	SFP+ active Twinax Cable Cisco 10m

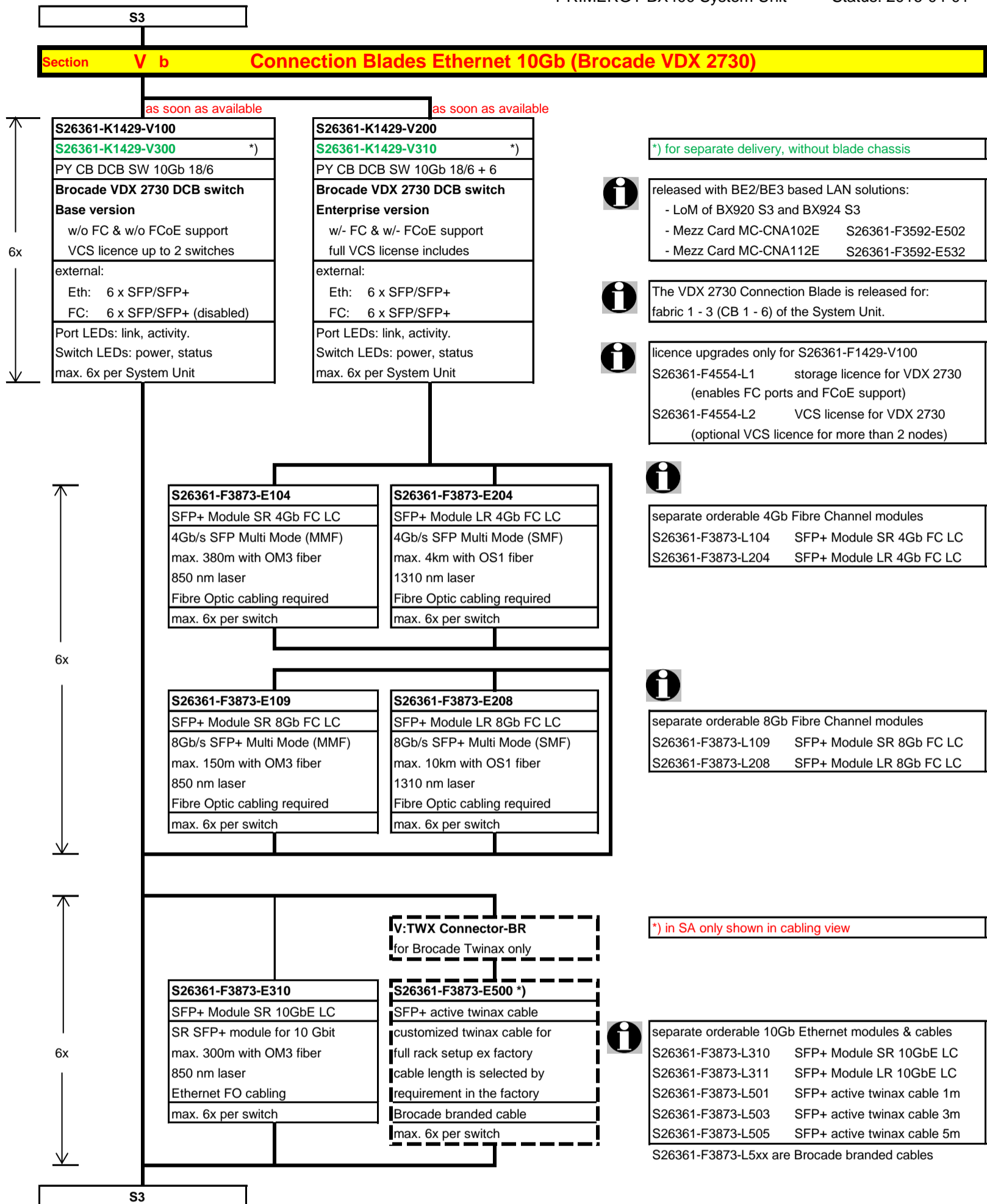


i separate orderable 10Gb Ethernet modules
 S26361-F3986-L40 SFP+ Module SMF 10GbE LC

D:FCKAB-MTP-C05-L MTP cable 5m MTP-female MTP-female
 D:FCKAB-MTP-C10-L MTP cable 10m MTP-female MTP-female
 D:FCKAB-MTP-C20-L MTP cable 20m MTP-female MTP-female
 D:FCKAB-MTP-C50-L MTP cable 50m MTP-female MTP-female
 D:FCKAB-MTP-C100-L MTP cable 100m MTP-female MTP-female
 can be used for proper optical 40GbE cabling

***) in SA only shown in cabling view**

i separate orderable 40Gb Ethernet cables
 S26361-F3989-L402 QSFP+ passive Twinax Cable Fujitsu 2m
 S26361-F3989-L405 QSFP+ passive Twinax Cable Fujitsu 5m
 S26361-F3989-L410 QSFP+ active Twinax Cable Fujitsu 10m



*) for separate delivery, without blade chassis

i released with BE2/BE3 based LAN solutions:
 - LoM of BX920 S3 and BX924 S3
 - Mezz Card MC-CNA102E S26361-F3592-E502
 - Mezz Card MC-CNA112E S26361-F3592-E532

i The VDX 2730 Connection Blade is released for:
 fabric 1 - 3 (CB 1 - 6) of the System Unit.

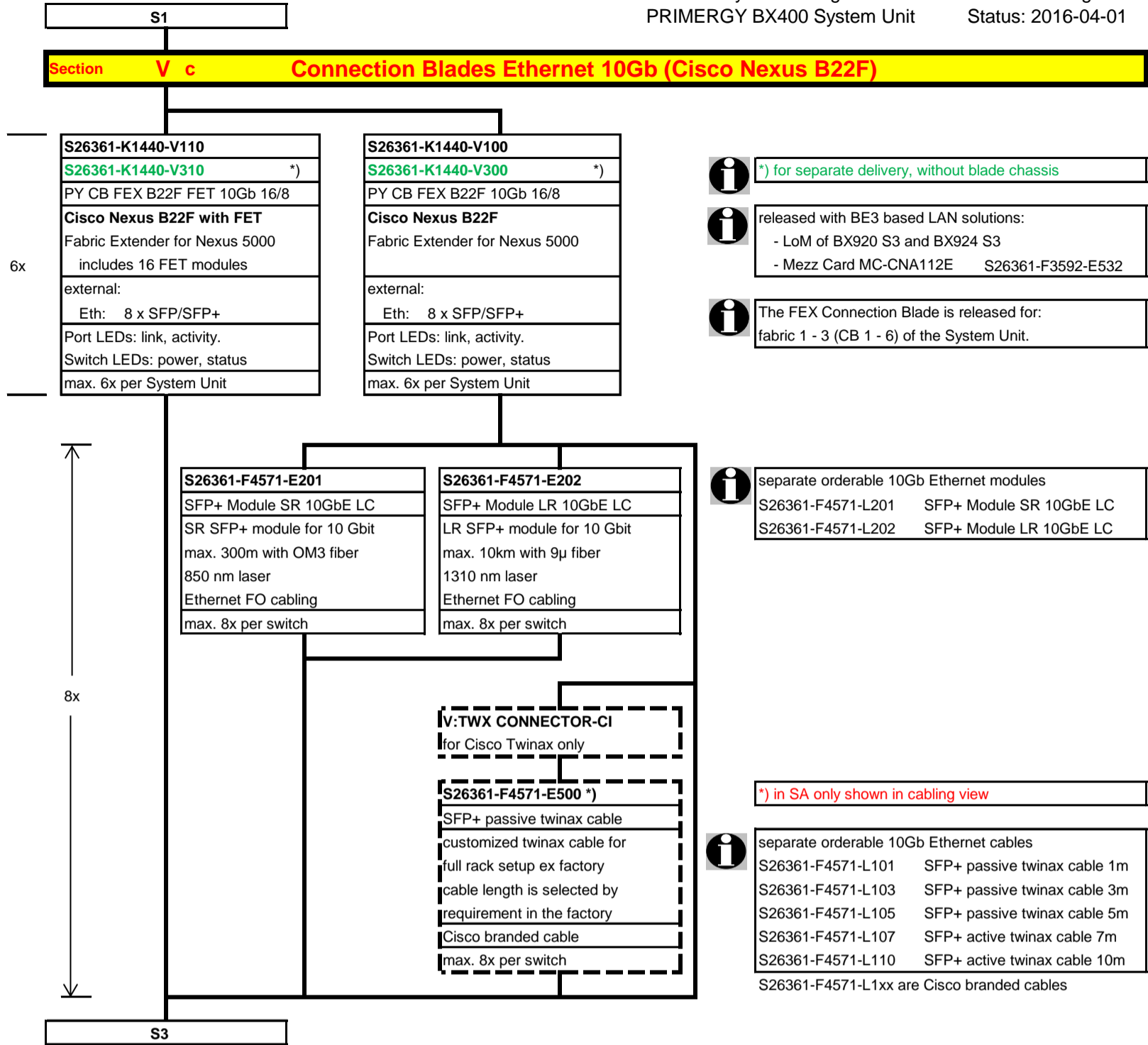
i licence upgrades only for S26361-F1429-V100
 S26361-F4554-L1 storage licence for VDX 2730
 (enables FC ports and FCoE support)
 S26361-F4554-L2 VCS license for VDX 2730
 (optional VCS licence for more than 2 nodes)

i separate orderable 4Gb Fibre Channel modules
 S26361-F3873-L104 SFP+ Module SR 4Gb FC LC
 S26361-F3873-L204 SFP+ Module LR 4Gb FC LC

i separate orderable 8Gb Fibre Channel modules
 S26361-F3873-L109 SFP+ Module SR 8Gb FC LC
 S26361-F3873-L208 SFP+ Module LR 8Gb FC LC

* in SA only shown in cabling view

i separate orderable 10Gb Ethernet modules & cables
 S26361-F3873-L310 SFP+ Module SR 10GbE LC
 S26361-F3873-L311 SFP+ Module LR 10GbE LC
 S26361-F3873-L501 SFP+ active twinax cable 1m
 S26361-F3873-L503 SFP+ active twinax cable 3m
 S26361-F3873-L505 SFP+ active twinax cable 5m
 S26361-F3873-L5xx are Brocade branded cables



i *) for separate delivery, without blade chassis

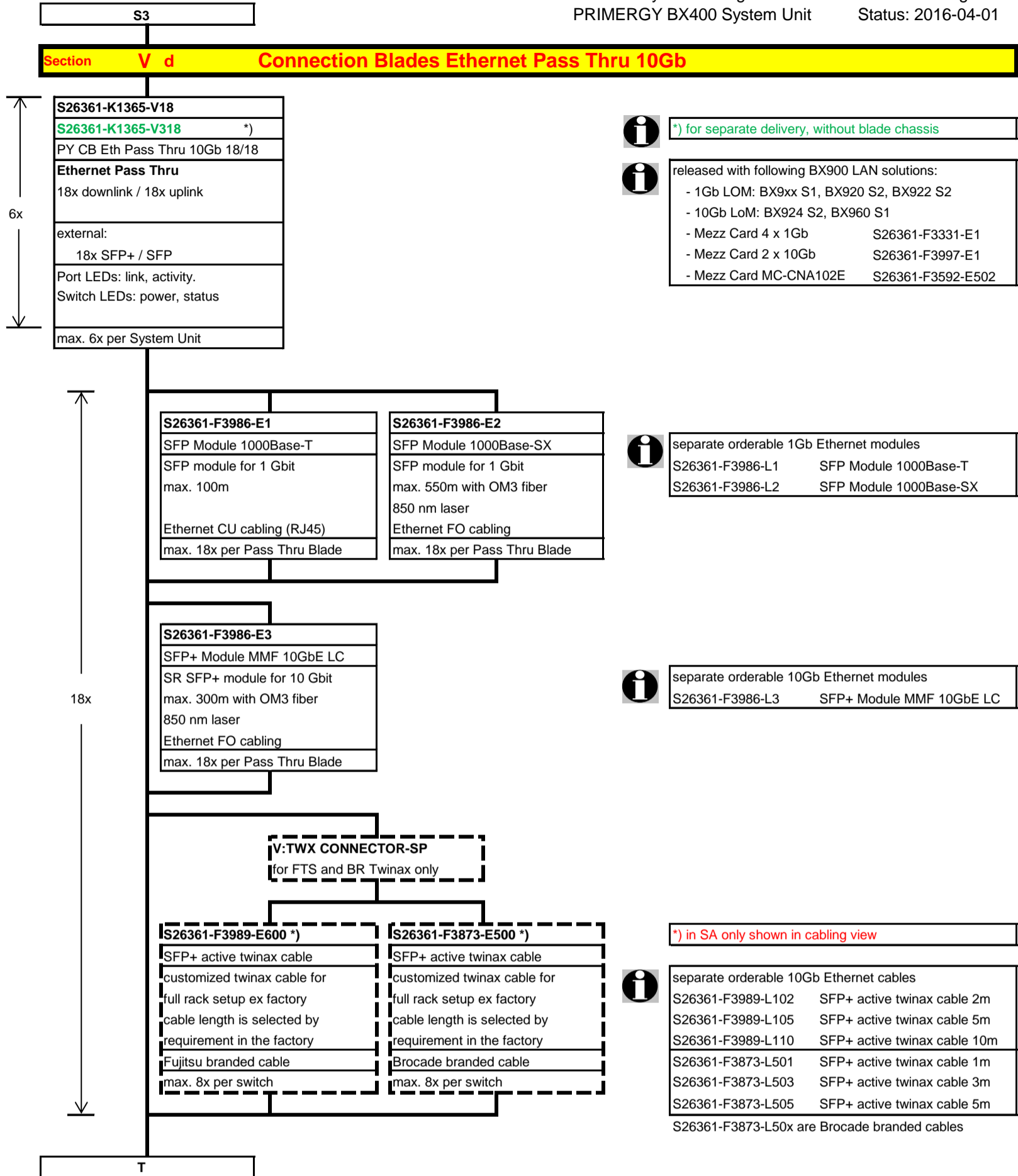
i released with BE3 based LAN solutions:
 - LoM of BX920 S3 and BX924 S3
 - Mezz Card MC-CNA112E S26361-F3592-E532

i The FEX Connection Blade is released for:
 fabric 1 - 3 (CB 1 - 6) of the System Unit.

i separate orderable 10Gb Ethernet modules
 S26361-F4571-L201 SFP+ Module SR 10GbE LC
 S26361-F4571-L202 SFP+ Module LR 10GbE LC

i *) in SA only shown in cabling view

i separate orderable 10Gb Ethernet cables
 S26361-F4571-L101 SFP+ passive twinax cable 1m
 S26361-F4571-L103 SFP+ passive twinax cable 3m
 S26361-F4571-L105 SFP+ passive twinax cable 5m
 S26361-F4571-L107 SFP+ active twinax cable 7m
 S26361-F4571-L110 SFP+ active twinax cable 10m
 S26361-F4571-L1xx are Cisco branded cables



i *) for separate delivery, without blade chassis

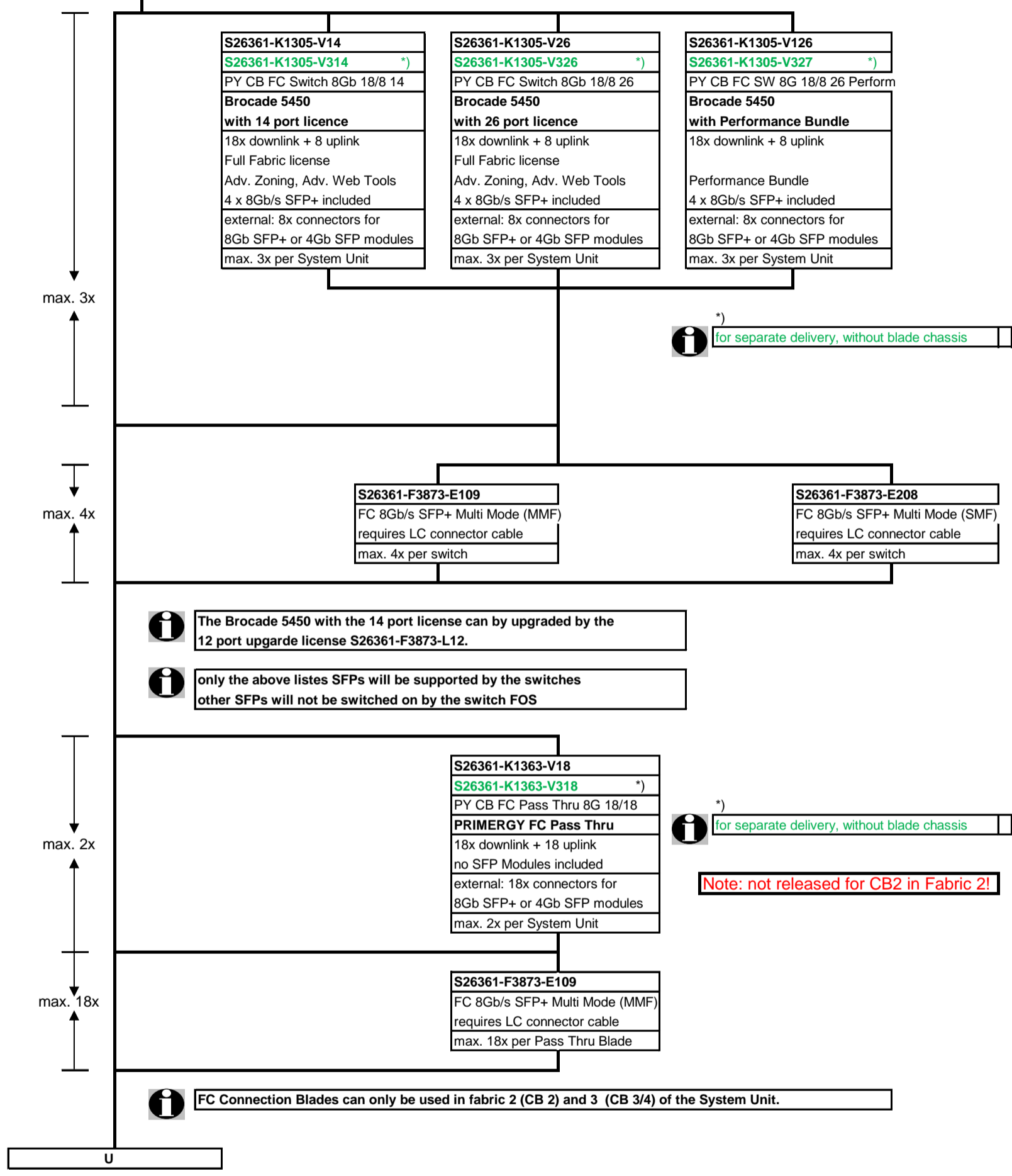
i released with following BX900 LAN solutions:
 - 1Gb LOM: BX9xx S1, BX920 S2, BX922 S2
 - 10Gb LoM: BX924 S2, BX960 S1
 - Mezz Card 4 x 1Gb S26361-F3331-E1
 - Mezz Card 2 x 10Gb S26361-F3997-E1
 - Mezz Card MC-CNA102E S26361-F3592-E502

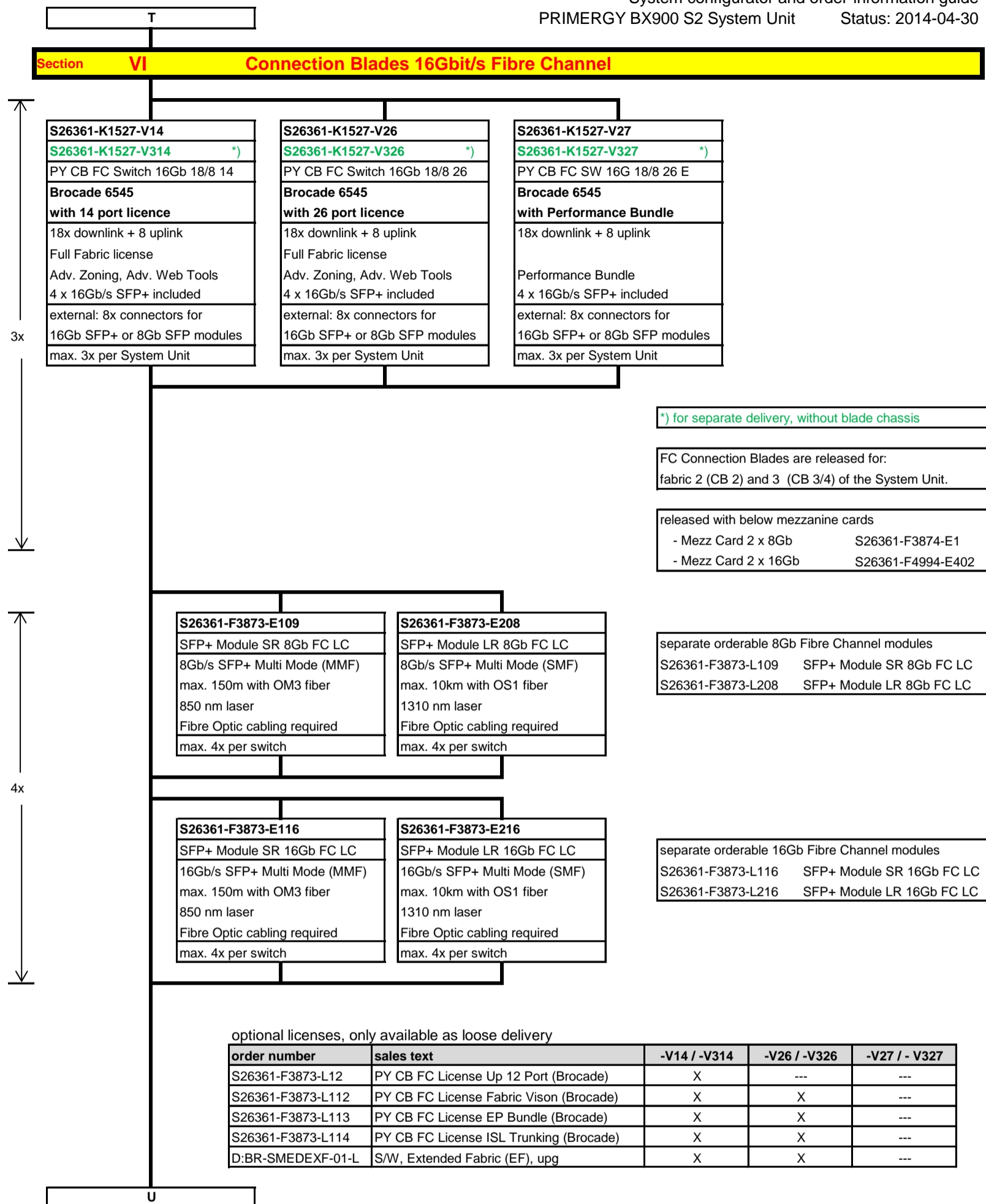
i separate orderable 1Gb Ethernet modules
 S26361-F3986-L1 SFP Module 1000Base-T
 S26361-F3986-L2 SFP Module 1000Base-SX

i separate orderable 10Gb Ethernet modules
 S26361-F3986-L3 SFP+ Module MMF 10GbE LC

i *) in SA only shown in cabling view
 separate orderable 10Gb Ethernet cables
 S26361-F3989-L102 SFP+ active twinax cable 2m
 S26361-F3989-L105 SFP+ active twinax cable 5m
 S26361-F3989-L110 SFP+ active twinax cable 10m
 S26361-F3873-L501 SFP+ active twinax cable 1m
 S26361-F3873-L503 SFP+ active twinax cable 3m
 S26361-F3873-L505 SFP+ active twinax cable 5m
 S26361-F3873-L50x are Brocade branded cables

Section VI Connection Blades 8Gb Fibre Channel





Section VI Connection Blades 16Gbit/s Fibre Channel

S26361-K1527-V14 S26361-K1527-V314 *) PY CB FC Switch 16Gb 18/8 14 Brocade 6545 with 14 port licence 18x downlink + 8 uplink Full Fabric license Adv. Zoning, Adv. Web Tools 4 x 16Gb/s SFP+ included external: 8x connectors for 16Gb SFP+ or 8Gb SFP modules max. 3x per System Unit	S26361-K1527-V26 S26361-K1527-V326 *) PY CB FC Switch 16Gb 18/8 26 Brocade 6545 with 26 port licence 18x downlink + 8 uplink Full Fabric license Adv. Zoning, Adv. Web Tools 4 x 16Gb/s SFP+ included external: 8x connectors for 16Gb SFP+ or 8Gb SFP modules max. 3x per System Unit	S26361-K1527-V27 S26361-K1527-V327 *) PY CB FC SW 16G 18/8 26 E Brocade 6545 with Performance Bundle 18x downlink + 8 uplink Performance Bundle 4 x 16Gb/s SFP+ included external: 8x connectors for 16Gb SFP+ or 8Gb SFP modules max. 3x per System Unit
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*) for separate delivery, without blade chassis

FC Connection Blades are released for:
fabric 2 (CB 2) and 3 (CB 3/4) of the System Unit.

released with below mezzanine cards
 - Mezz Card 2 x 8Gb S26361-F3874-E1
 - Mezz Card 2 x 16Gb S26361-F4994-E402

S26361-F3873-E109 SFP+ Module SR 8Gb FC LC 8Gb/s SFP+ Multi Mode (MMF) max. 150m with OM3 fiber 850 nm laser Fibre Optic cabling required max. 4x per switch	S26361-F3873-E208 SFP+ Module LR 8Gb FC LC 8Gb/s SFP+ Multi Mode (SMF) max. 10km with OS1 fiber 1310 nm laser Fibre Optic cabling required max. 4x per switch
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separate orderable 8Gb Fibre Channel modules
 S26361-F3873-L109 SFP+ Module SR 8Gb FC LC
 S26361-F3873-L208 SFP+ Module LR 8Gb FC LC

S26361-F3873-E116 SFP+ Module SR 16Gb FC LC 16Gb/s SFP+ Multi Mode (MMF) max. 150m with OM3 fiber 850 nm laser Fibre Optic cabling required max. 4x per switch	S26361-F3873-E216 SFP+ Module LR 16Gb FC LC 16Gb/s SFP+ Multi Mode (SMF) max. 10km with OS1 fiber 1310 nm laser Fibre Optic cabling required max. 4x per switch
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separate orderable 16Gb Fibre Channel modules
 S26361-F3873-L116 SFP+ Module SR 16Gb FC LC
 S26361-F3873-L216 SFP+ Module LR 16Gb FC LC

optional licenses, only available as loose delivery

order number	sales text	-V14 / -V314	-V26 / -V326	-V27 / -V327
S26361-F3873-L12	PY CB FC License Up 12 Port (Brocade)	X	---	---
S26361-F3873-L112	PY CB FC License Fabric Vison (Brocade)	X	X	---
S26361-F3873-L113	PY CB FC License EP Bundle (Brocade)	X	X	---
S26361-F3873-L114	PY CB FC License ISL Trunking (Brocade)	X	X	---
D:BR-SMEDEXF-01-L	S/W, Extended Fabric (EF), upg	X	X	---

U

Section VII Connection Blade InfiniBand

max. 1x

S26361-K1336-V200
S26361-K1336-V300 *)
PY CB IB Switch 40Gb 18/18
InfiniBand Connection Blade
18x downlink + 18x uplink
Double wide- Single height
Non blocking
Quad Data Rate (QDR x4)
18x QSFP modules included
external: 18x QSFP connectors for uplink ports
max. 1x per System Unit

*) **i** for separate delivery, without blade chassis

S26361-F2749-E1
Service for Blade installation in the System Unit.
Hereby the BX900 S1 will be delivered completely configured and tested with the Blade integrated.
1x per Switch Blade

max. 18x

S26361-F3996-E500
InfiniBand Cu Cable 40Gb customized
QSFP, 1m and 3m
max. 18x per switch

i If additional length of copper cable or optical cable are needed, then they must be ordered from the cable vendor directly
 Copper cable are also available for loose delivery as
 S26361-F3996-L101, QSFP, 40Gb, 1m
 S26361-F3996-L103, QSFP, 40Gb, 3m

i IB Connection Blades can only be used in fabric 3 (CB 3/4) of the System Unit.

V

V

Section VIII Connection Blade SAS

max. 2x

S26361-K1391-V300
S26361-K1391-V400
PY CB SAS Switch 6Gb 18/6
SAS Connection Blade
18 ports internal
6 ports external (SFF8088)
Single wide - Single height
1x per SX980 S1

as soon as available

i ^{*)} for separate delivery, without blade chassis

S26361-F2749-E1
Service for Blade installation in the System Unit.
Hereby the BX900 S1 will be delivered completely configured and tested with the Blade integrated.
1x per Switch Blade

i

i SAS Connection Blades can only be used in fabric 3 (CB 3) of the System Unit

End BX900 System Unit

10 GbE Twinax Cabling

TWINAX-Cabling with virtual SFP+ modules

Virtual SFP+ modules	Used in	Supported cables	Comment
V:TWX CONNECTOR BR (Brocade)	CB VDX 2730 S26361-K1429-Vxxx Ext. Switch Brocade 8000 EBR800 Ext. Switch VDX 6720-60 S26361-K1452-V100 Ext. Switch VDX 6720 for DI-Blocks D:VDX6720-16-R-M	S26361-F3873-E500 EBR800-TWX-1M-L EBR800-TWX-3M-L EBR800-TWX-5M-L	Brocade customized Brocade 1m Brocade 3m Brocade 5m
V:TWX CONNECTOR CI (Cisco)	CB FEX B22F S26361-K1440-V100	S26361-F4571-E500 S26361-F4571-L110	Cisco customized
V:TWX CONNECTOR PY (FTS)	CB SB11 S26361-K1304-V101 / V301 10GB LAN controller D2755 S26361-F3629-E2 / E202 / E702 10Gb CNA OCe10102 S26361-F3592-E2 / E202	S26361-F3989-E600 S26361-F3873-E500 EBR800-TWX-1M-L EBR800-TWX-3M-L EBR800-TWX-5M-L S26361-F4571-E500 S26361-F4571-L110	FTS customized Brocade customized Brocade 1m Brocade 3m Brocade 5m Cisco customized Cisco 10m
V:TWX CONNECTOR SP	CB SBAX2 S26361-K1304-V200 / V300 CB Ethernet Pass Thru S26361-K1365-V18 / V318	S26361-F3989-E600 S26361-F3873-E500 EBR800-TWX-1M-L EBR800-TWX-3M-L EBR800-TWX-5M-L	FTS customized Brocade customized Brocade 1m Brocade 3m Brocade 5m

<i>Product number</i>	<i>Connector</i>	<i>Description</i>
V:TWX CONNECTOR-BR	FC TWX 10G connector BR	Twinax Connector Brocade
V:TWX CONNECTOR CI	FC TWX 10G connector CI	Twinax Connector Cisco
V:TWX CONNECTOR PY	FC TWX 10G connector PY	Twinax Connector Primergy
V:TWX CONNECTOR SP	FC TWX 10G connector SBAX	Twinax Connector SBAX2 und PasThru

Rack-specified Twinax-cable for graphical Cabling within the PRIMECENTER M1 Rack:

S26361-F3873-E500	SFP+ activ Twinax Cable Brocade custom	2x FC TWX 10G connector BR
S26361-F3989-E600	SFP+ aktives Twinax Kabel kundenspez.	2x FC TWX 10G connector PY
S26361-F4571-E500	SFP+ passive Twinax Kabel Cisco custom	2x FC TWX 10G connector CI

Twinax-cable for graphical Cabling outside the PRIMECENTER M1 Rack (between racks):

EBR800-TWX-1M-L	SFP+ active Twinax cable BRCD 1m UPG	2x FC TWX 10G connector BR
EBR800-TWX-3M-L	SFP+ active Twinax cable BRCD 3m UPG	2x FC TWX 10G connector BR
EBR800-TWX-5M-L	SFP+ active Twinax cable BRCD 5m UPG	2x FC TWX 10G connector BR
S26361-F4571-L110	SFP+ active Twinax cable Cisco 10m	2x FC TWX 10G connector CI

In Addition the optional configurable Twinax-cable options (not for graphical cabling in systemarchitect usable!)
(to find under chapter "Hardware – Options" of the Blade system units BX900S2 and BX400S1)

S26361-F3873-L501	Brocade 1m
S26361-F3873-L503	Brocade 3m
S26361-F3873-L505	Brocade 5m
S26361-F4571-L101	Cisco 1m
S26361-F4571-L103	Cisco 3m
S26361-F4571-L105	Cisco 5m
S26361-F4571-L107	Cisco 7m
S26361-F3989-L102	FTS 2m
S26361-F3989-L105	FTS 5m
S26361-F3989-L110	FTS 10m

Change Report

Date	Order number	Changes
12.12.2014		Add BX2560 M1 and BX2580 M1 Server Blade
10.12.2014		Updates in tab "Connection Blade Overview"
13.06.2014	S26361-K1527-V*	PY CB FC Switch 16Gb 18/8 14/26/E (Brocade) added
07.03.2014	S26361-K1423-V*	PY CB IB Switch 56Gb 18/8 removed from CB overview
03.03.2014	S26361-K1382-Vxxx	SX960 hardware change V20x-> V303
03.03.2014	S26361-K1423-V*	PY CB IB Switch 56Gb 18/8 removed
16.05.2013	S26361-K1391-V300	Number of SAS CB increased
01.12.2012	10GbE Twinax Cabling	added sheet "Twinax cabling with virtual SFP+ modules"
17.07.2012	S26361-F4571-E/Lxxx	Added SFP+ and Twinax cable for Cisco Nexus B22F
17.07.2012	S26361-K1440-V1x0/V3x0	Added 10GbE Cisco switches Cisco Nexus B22F
29.06.2012	S26361-F3873-E500/Lxxx	Added Twinax cable for DCB switch VDX 2730
29.06.2012	S26361-K1427-Vx00	Added 10GbE Brocade switches VDX 2730
14.06.2012		Added BX920 S3 and BX924 S3 Server Blade
28.03.2012	S26361-F3873-E108	Update of SFP Modul section
30.01.2012	S26361-F3641-E2	new Blue-ray Triple Writer added
11.01.2012	S26361-K1335-V200	basic unit removed due to VS65
22.12.2011	S26361-F3986-E4	added SFP+ Module SMF 10GbE LC
19.12.2011	S26361-F3989-L102	Info for Twinax Cable added
29.09.2011	S26113-F607-E201	PSU w/o power cable added
29.09.2011	S26361-K1335-V201	new basic unit due to regional kit and PSU w/o power cord
31.01.2011	S26361-K13xx-V3xx	new Connection Blades for loose delivery added
28.01.2011		Power cable added to PSU part list
25.01.2011		corrected power notation of PSUs
12.01.2011	S26361-K1365-V18	Ethernet Path trough added
12.01.2011	S26361-F3151-E3x1	Selection for power cord inserted
01.11.2010		First Release