HP

HPE6-A49 Exam

Aruba Certified Design Expert 8 Written Exam

Version: 8.0

Question: 1

Refer to the exhibits.
Exhibit 1. Existing wiring plan:

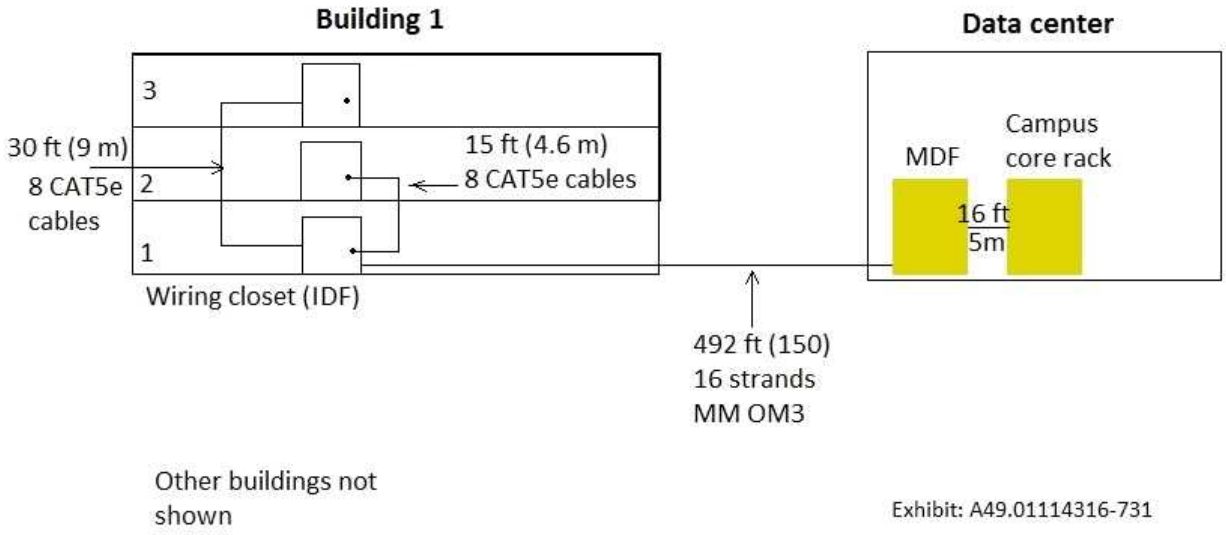


Exhibit 2. Current proposal:

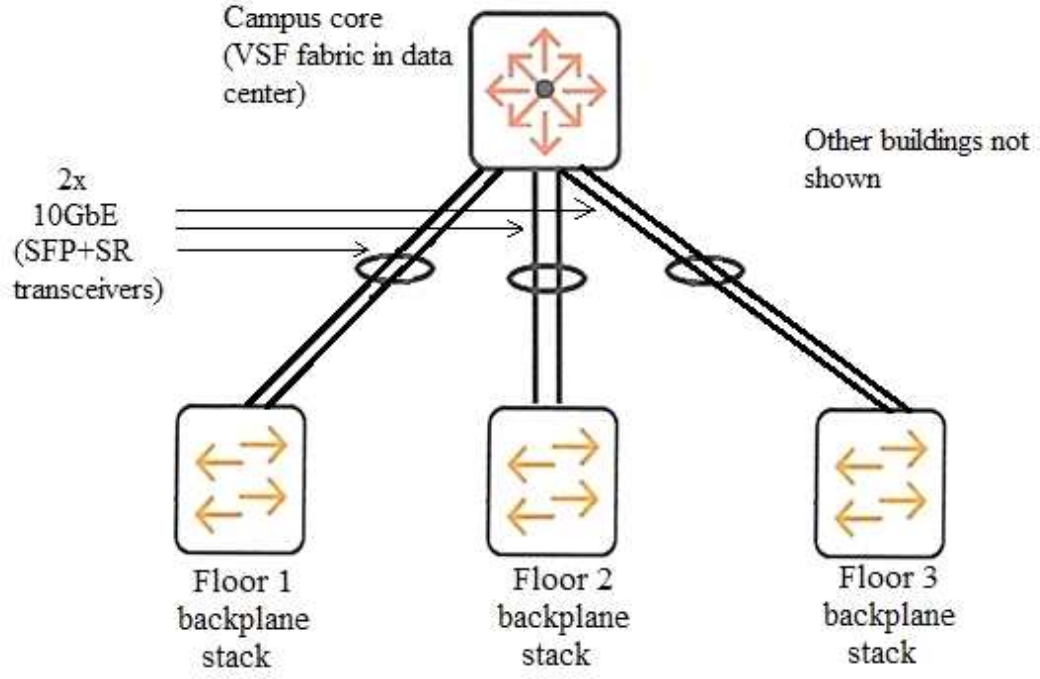


Exhibit: A49.01114316-732

A customer has a building that needs a switch upgrade. The customer would like at least 20Gbps for the uplink bandwidth out of each closet. The building writing plan is shown in Exhibit 1. The customer will not consider any cable upgrades at this point. The current proposal is shown in Exhibit 2.
Which correction must architect make to the proposal to meet the customer requirements?

A. Change the SR transceivers for each link between the writing closet switches and the network core to LRM transceivers.
B. Add an aggregation layer, and connect writing closet switches to the aggregation layer on Smart Rate ports.
C. Add an aggregation layer, and connect writing closet switches to the aggregation layer with SFP+ SR transceivers.
D. Add a mode conditioning cable for each link between the writing closet switches and the network core.

Answer: D

Question: 2

What is one customer requirement that can drive the need for a relatively dense AP deployment, in which the coverage areas of at least three AP radios overlap?

A. support for beacon management
B. AP operation as hybrid AMs for IDS/WIPS
C. the deployment of dual 5GHz radio APs

D. location tracking of wireless IoT devices

Answer: D

Question: 3

Refer to the exhibit.

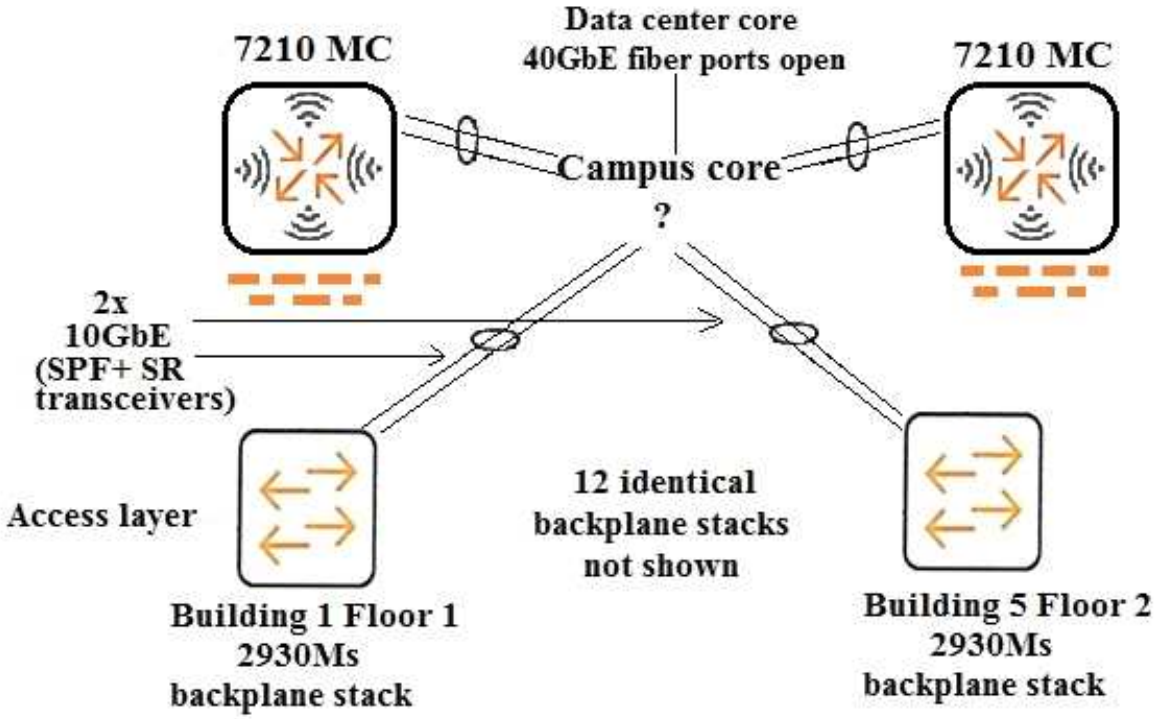
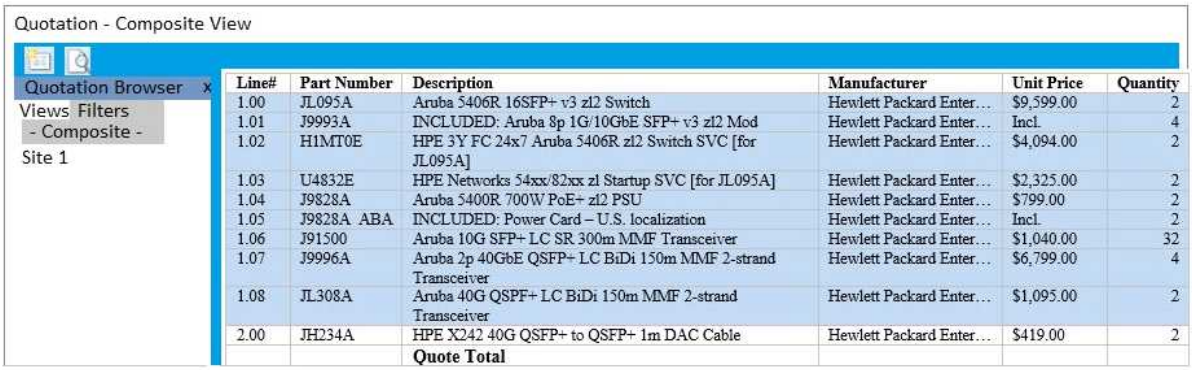


Exhibit: A49.01114316-77

An architect has planned the wireless and wired access layers for a network upgrade. The entire solution must support 9,000 wireless devices and 2,250 wired endpoints.
The campus core must meet these requirements:
no more than 4:1 oversubscription on the links to the data center
switch-level redundancy
near instant failover if one core switch fails
link aggregations between access layer and core
same switch software used across the entire campus
Which exhibit shows a campus core that meets the customer needs?

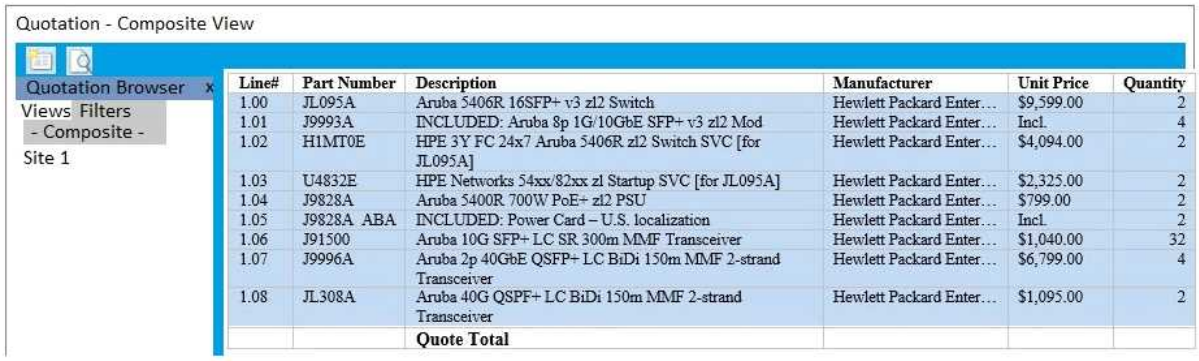
A


Quotation - Composite View

Quotation Browser x
Views Filters
- Composite -
Site 1

Line#	Part Number	Description	Manufacturer	Unit Price	Quantity
1.00	JL095A	Aruba 5406R 16SFP+ v3 zl2 Switch	Hewlett Packard Enter…	$9,599.00	2
1.01	J9993A	INCLUDED: Aruba 8p 1G/10GbE SFP+ v3 zl2 Mod	Hewlett Packard Enter…	Incl.	4
1.02	H1MT0E	HPE 3Y FC 24x7 Aruba 5406R zl2 Switch SVC [for JL095A]	Hewlett Packard Enter…	$4,094.00	2
1.03	U4832E	HPE Networks 54xx/82xx zl Startup SVC [for JL095A]	Hewlett Packard Enter…	$2,325.00	2
1.04	J9828A	Aruba 5400R 700W PoE+ zl2 PSU	Hewlett Packard Enter…	$799.00	2
1.05	J9828A ABA	INCLUDED: Power Card – U.S. localization	Hewlett Packard Enter…	Incl.	2
1.06	J91500	Aruba 10G SFP+ LC SR 300m MMF Transceiver	Hewlett Packard Enter…	$1,040.00	32
1.07	J9996A	Aruba 2p 40GbE QSFP+ LC BiDi 150m MMF 2-strand Transceiver	Hewlett Packard Enter…	$6,799.00	4
1.08	JL308A	Aruba 40G QSPF+ LC BiDi 150m MMF 2-strand Transceiver	Hewlett Packard Enter…	$1,095.00	2
2.00	JH234A	HPE X242 40G QSFP+ to QSFP+ 1m DAC Cable	Hewlett Packard Enter…	$419.00	2
		Quote Total			

B


Quotation - Composite View

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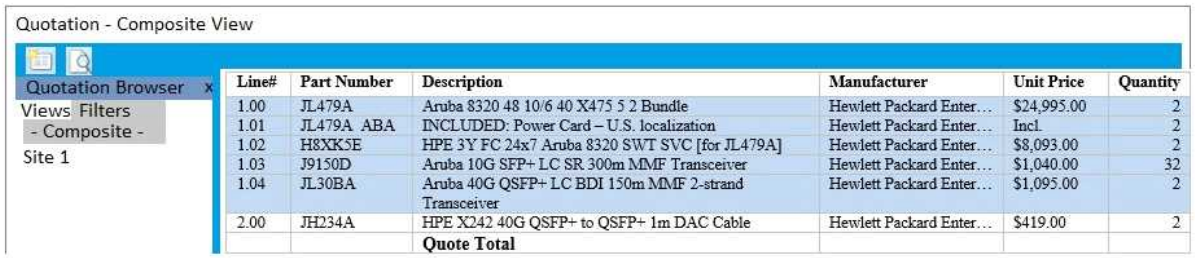
Views Filters
- Composite -
Site 1

Line#	Part Number	Description	Manufacturer	Unit Price	Quantity
1.00	JL095A	Aruba 5406R 16SFP+ v3 zl2 Switch	Hewlett Packard Enter…	$9,599.00	2
1.01	J9993A	INCLUDED: Aruba 8p 1G/10GbE SFP+ v3 zl2 Mod	Hewlett Packard Enter…	Incl.	4
1.02	H1MT0E	HPE 3Y FC 24x7 Aruba 5406R zl2 Switch SVC [for JL095A]	Hewlett Packard Enter…	$4,094.00	2
1.03	U4832E	HPE Networks 54xx/82xx zl Startup SVC [for JL095A]	Hewlett Packard Enter…	$2,325.00	2
1.04	J9828A	Aruba 5400R 700W PoE+ zl2 PSU	Hewlett Packard Enter…	$799.00	2
1.05	J9828A ABA	INCLUDED: Power Card – U.S. localization	Hewlett Packard Enter…	Incl.	2
1.06	J91500	Aruba 10G SFP+ LC SR 300m MMF Transceiver	Hewlett Packard Enter…	$1,040.00	32
1.07	J9996A	Aruba 2p 40GbE QSFP+ LC BiDi 150m MMF 2-strand Transceiver	Hewlett Packard Enter…	$6,799.00	4
1.08	JL308A	Aruba 40G QSPF+ LC BiDi 150m MMF 2-strand Transceiver	Hewlett Packard Enter…	$1,095.00	2
		Quote Total			

C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Views Filters
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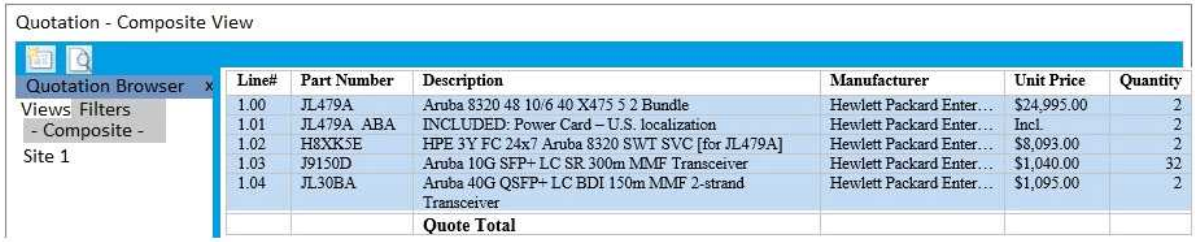
Site 1

Line#	Part Number	Description	Manufacturer	Unit Price	Quantity
1.00	JL479A	Aruba 8320 48 10/6 40 X475 5 2 Bundle	Hewlett Packard Enter…	$24,995.00	2
1.01	JL479A ABA	INCLUDED: Power Card – U.S. localization	Hewlett Packard Enter…	Incl.	2
1.02	H8XK5E	HPE 3Y FC 24x7 Aruba 8320 SWT SVC [for JL479A]	Hewlett Packard Enter…	$8,093.00	2
1.03	J9150D	Aruba 10G SFP+ LC SR 300m MMF Transceiver	Hewlett Packard Enter…	$1,040.00	32
1.04	JL30BA	Aruba 40G QSFP+ LC BDI 150m MMF 2-strand Transceiver	Hewlett Packard Enter…	$1,095.00	2
2.00	JH234A	HPE X242 40G QSFP+ to QSFP+ 1m DAC Cable	Hewlett Packard Enter…	$419.00	2
		Quote Total			

D


Quotation - Composite View

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Views Filters
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Site 1

Line#	Part Number	Description	Manufacturer	Unit Price	Quantity
1.00	JL479A	Aruba 8320 48 10/6 40 X475 5 2 Bundle	Hewlett Packard Enter…	$24,995.00	2
1.01	JL479A ABA	INCLUDED: Power Card – U.S. localization	Hewlett Packard Enter…	Incl.	2
1.02	H8XK5E	HPE 3Y FC 24x7 Aruba 8320 SWT SVC [for JL479A]	Hewlett Packard Enter…	$8,093.00	2
1.03	J9150D	Aruba 10G SFP+ LC SR 300m MMF Transceiver	Hewlett Packard Enter…	$1,040.00	32
1.04	JL30BA	Aruba 40G QSFP+ LC BDI 150m MMF 2-strand Transceiver	Hewlett Packard Enter…	$1,095.00	2
		Quote Total			

A. Option A
B. Option B
C. Option C
D. Option D

Answer: B

Question: 4

A customer has an existing Aruba network, which currently supports up to 9,000 wireless client devices. The existing network includes these components:
Four 7210 MCs
Five 7030 MCs
200 AP-303HRs
300 AP-345s
The customer wants to convert to an ArubaOS 8.x architecture. The architect plans to deploy a virtual MM.
Which exhibit shows the correct BOM for the MM?

A

Quotation - Composite View

Quotation Browser x
Views Filters
- Composite -
Site 1

Line#	Part Number	Description	Manufacturer	Unit Price	Quantity	Total	Price List
1.00	JY895AAE	Aruba MM-VA-500 Mobility Master SW E-LTU	Hewlett Packard Enter…	$10,495.00	1	$10,495.00	USA Price List (USD)
1.01	HSU09E	Aruba 1Y FC 24x7 MM-VA-500 ELTU SVC [for JY895AAE]	Hewlett Packard Enter…	$1,616.00	1	$1,616.00	USA Price List (USD)
1.02	JW471AAE	Aruba-LIC-ENT Enterprise (LIC-AP LIC-PEF LIC-RFP and LIC-…	Hewlett Packard Enter…	$300.00	300	$90,000.00	USA Price List (USD)
1.03	H2XW3E	Aruba 1Y FC 24x7 License On Bundle SVC [for JW471AAE	Hewlett Packard Enter…	$46.00	300	$13,800.00	USA Price List (USD)
		Quote Total				**$115,911**	

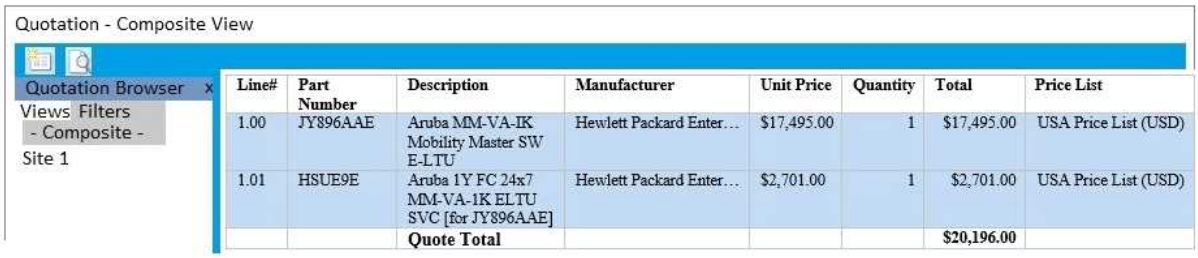
B

Quotation - Composite View

Quotation Browser x
Views Filters
- Composite -
Site 1

Line#	Part Number	Description	Manufacturer	Unit Price	Quantity	Total	Price List
1.00	JY896AAE	Aruba MM-VA-IK Mobility Master SW E-LTU	Hewlett Packard Enter…	$17,495.00	1	$17,495.00	USA Price List (USD)
1.01	HSUE9E	Aruba 1Y FC 24x7 MM-VA-500 ELTU SVC [for JY895AAE]	Hewlett Packard Enter…	$2,701.00	1	$2,701.00	USA Price List (USD)
1.02	JW471AAE	Aruba-LIC-ENT Enterprise (LIC-AP LIC-PEF LIC-RFP and LIC-…	Hewlett Packard Enter…	$300.00	500	$150,000.00	USA Price List (USD)
1.03	H2XW3E	Aruba 1Y FC 24x7 License On Bundle SVC [for JW471AAE	Hewlett Packard Enter…	$46.00	500	$23,000.00	USA Price List (USD)
		Quote Total				**$193,196**	

C


Quotation - Composite View

Quotation Browser

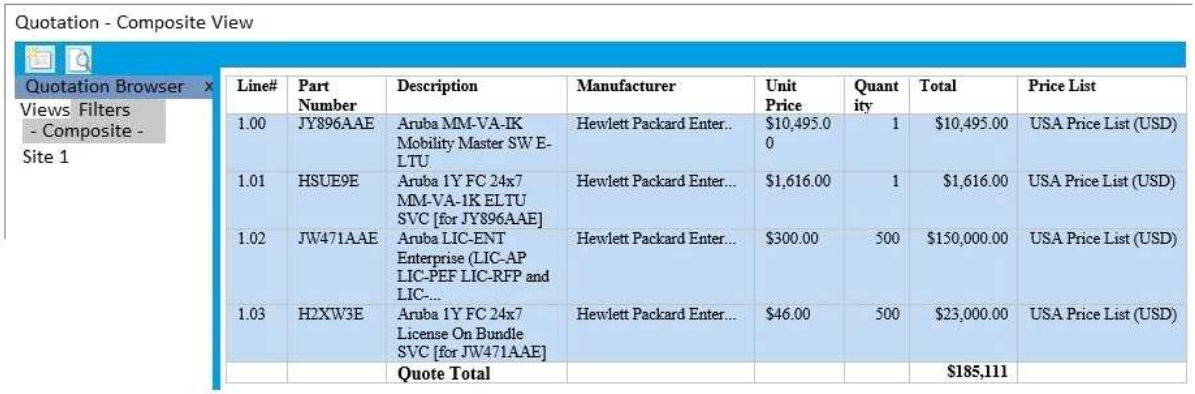
Views Filters

- Composite -

Site 1

Line#	Part Number	Description	Manufacturer	Unit Price	Quantity	Total	Price List
1.00	JY896AAE	Aruba MM-VA-IK Mobility Master SW E-LTU	Hewlett Packard Enter…	$17,495.00	1	$17,495.00	USA Price List (USD)
1.01	HSUE9E	Aruba 1Y FC 24x7 MM-VA-1K ELTU SVC [for JY896AAE]	Hewlett Packard Enter…	$2,701.00	1	$2,701.00	USA Price List (USD)
		Quote Total				**$20,196.00**	

D


Quotation - Composite View

Quotation Browser

Views Filters

- Composite -

Site 1

Line#	Part Number	Description	Manufacturer	Unit Price	Quantity	Total	Price List
1.00	JY896AAE	Aruba MM-VA-IK Mobility Master SW E-LTU	Hewlett Packard Enter..	$10,495.00	1	$10,495.00	USA Price List (USD)
1.01	HSUE9E	Aruba 1Y FC 24x7 MM-VA-1K ELTU SVC [for JY896AAE]	Hewlett Packard Enter...	$1,616.00	1	$1,616.00	USA Price List (USD)
1.02	JW471AAE	Aruba LIC-ENT Enterprise (LIC-AP LIC-PEF LIC-RFP and LIC-...	Hewlett Packard Enter...	$300.00	500	$150,000.00	USA Price List (USD)
1.03	H2XW3E	Aruba 1Y FC 24x7 License On Bundle SVC [for JW471AAE]	Hewlett Packard Enter...	$46.00	500	$23,000.00	USA Price List (USD)
		Quote Total				**$185,111**	

A. Option A
B. Option B
C. Option C
D. Option D

Answer: C

Question: 5

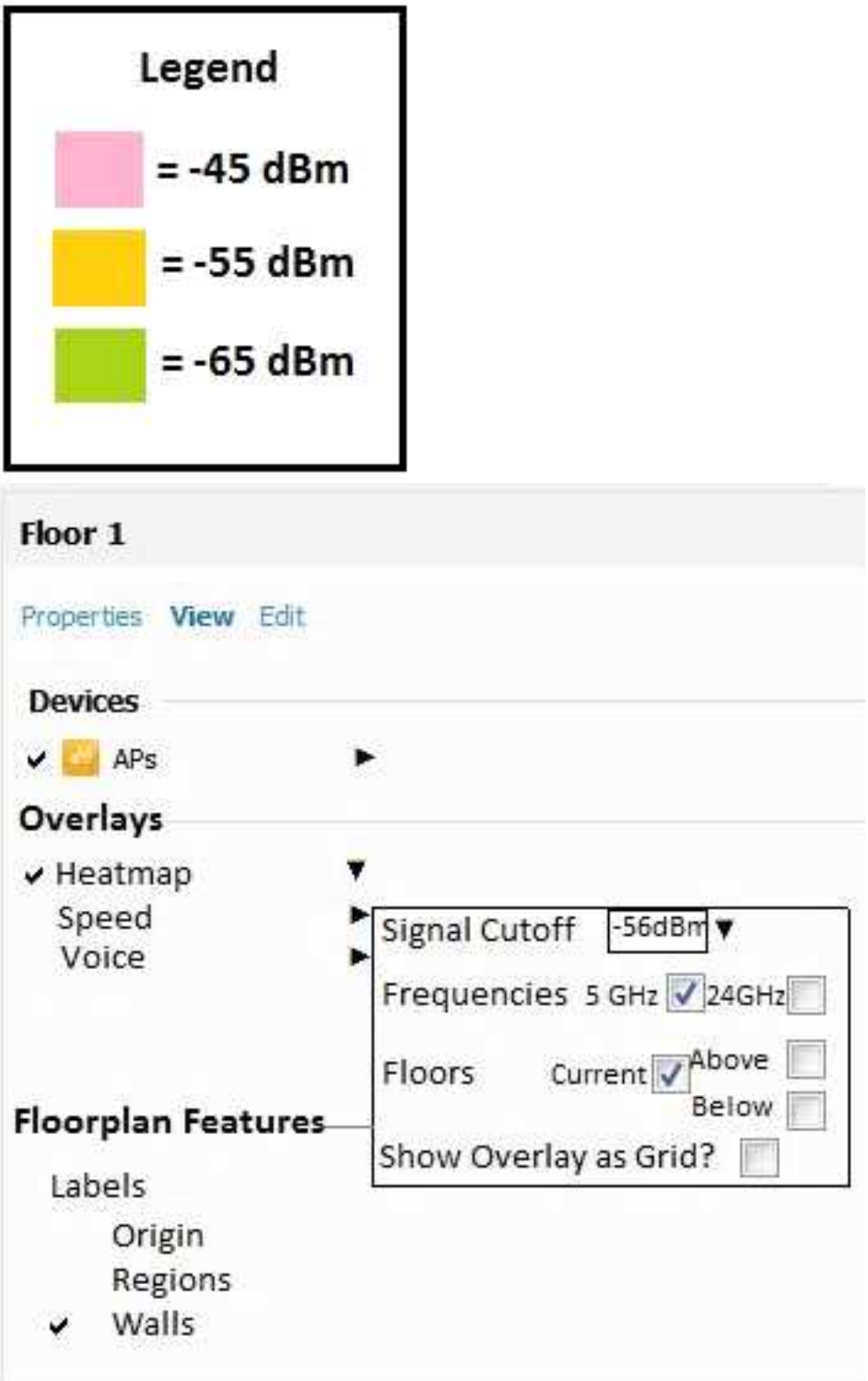
A customer has multiple medium and large branch sites, each of which requires between 8 and 16 APs and supports between 200 and 600 wireless clients. Every branch site has an internet connection, which it uses to reach the central data center. The customer would prefer the WAN links to be optimized in the solution.
Each side handles between 1 and 2 Gbps of traffic, most of which goes to the central data center. The data center has 7210 controllers for terminating the VPN connections.
Which branch office solution best meets the customer needs?

A. CAPs and branch office controllers with an SD-WAN license
B. IAPs and no branch office controllers
C. CAPs and branch office controllers
D. RAPs and no branch office controllers

Answer: B

Question: 6

Exhibit:



A hospital needs an upgrade to 802.11ac for its wireless network. The wireless network supports:
wireless medical devices
medical staff voice communicators
laptops in nurse stations
medical staff tablets
visitor and patient personal devices

All of these devices support both the 2.4GHz and 5GHz band. Assuming about a max throughput of 150 Mbps per AP, the hospital would like to support about 4 Mbps per client.
The architect has used VisualRF to plan the AP placement on one of the floors, which the hospital expects will need to support about 800 wireless devices. The exhibits show heatmaps from this plan. The architect also plans to deploy APs in stairwells between floors.
How well does the plan meet the requirements?

A. The current AP placement fails to account for the lead-lined walls that are common in patient and exam rooms.
B. The current AP placement fails to provide adequate signal for the voice communicators in several areas.
C. The current AP placement meets coverage requirements, but does not meet capacity requirements.
D. The current AP placement meets the customer requirements in terms of coverage and capacity.

Answer: D