

Nokia.4A0-205.v2023-07-03.q15

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NEW QUESTION: 1

WDM allows transmission systems to:

- A. Transport multiple signals transparently, onto several wavelengths, all together over one single fiber
- B. Increase the bit rate of each client signal by spreading it over multiple wavelengths
- C. Share a single signal among multiple fibers doing load balancing, and thus increasing the reliability of the optical transmission
- D. Allocate different signals to different time slots

Answer: (SHOW ANSWER)

WDM (Wavelength Division Multiplexing) allows transmission systems to transport multiple signals transparently, onto several wavelengths, all together over one single fiber. This allows for increased capacity, as many different signals can be transmitted at the same time and along the same fiber. Other advantages include improved signal integrity and reduced signal attenuation.

NEW QUESTION: 2

Which statement is correct about the NFM-T network map?

- A. It automatically represents all nodes grouped by the location string assigned during the NE creation.
- B. It represents all supervised nodes grouped by alarm status (with a different color).
- C. It allows context sensitive navigation and represents nodes and related physical connections with different colors. depending on the active alarms.
- D. It allows the graphical visualization of the services deployed in the network with the details of the boards involved in the service.

Answer: (SHOW ANSWER)

The NFM-T network map provides a graphical view of the network with different colors used to represent each node, physical connection, and active alarm. It allows the user to quickly identify any issues in the network and provides context sensitive navigation.

NEW QUESTION: 3

Which application generates the commissioning file(s)?

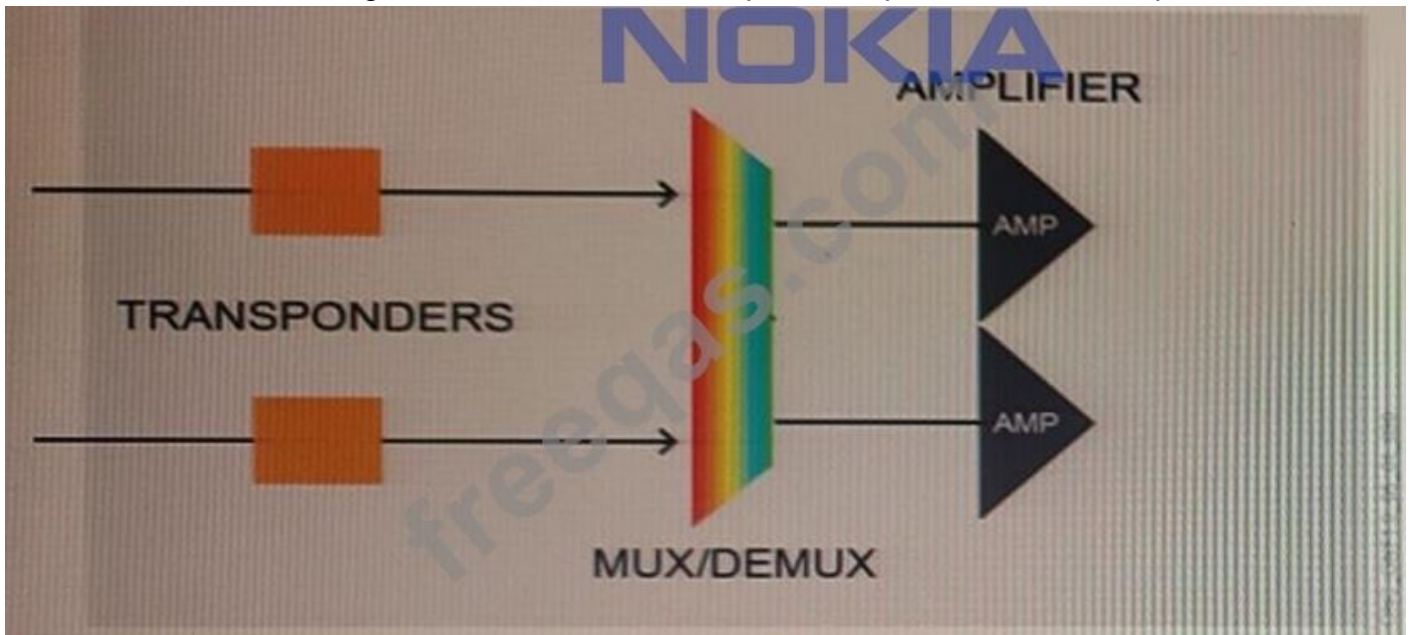
- A. NFM-T
- B. NSP
- C. CPB
- D. EPT

Answer: C (LEAVE A REPLY)

The CPB (Commissioning Parameter Builder) application is used to generate the commissioning files for a Nokia 1830 Photonic Service Switch (PSS-1). The CPB application allows the user to create multiple commissioning files [1][2], which can be used to configure a variety of different features on the device. The CPB also allows users to view, edit and modify the commissioning files before they are uploaded to the device. The NSP (Network Service Platform) and EPT (Element Provisioning Tool) are used to manage the devices and network elements within the network, but do not generate commissioning files.

NEW QUESTION: 4

With reference to the image, where is the OPS card placed to provide the OMSP protection?



- A. Between the mux/demux and the amplifier
- B. Between the transponders and the mux/demux
- C. Before the transponder, on the client side, towards the external device
- D. After the amplifiers

Answer: C (LEAVE A REPLY)

NEW QUESTION: 5

Which use case is most suitable for the deployment of a star topology?

- A. Access networks, for collecting traffic towards the main central node
- B. ASON networks, to protect traffic via GMPLS protocols

- C. Backbone networks, for supporting protection routes
- D. SNCP-protected links

Answer: A (LEAVE A REPLY)

A star topology is a network design where all devices are connected to a central hub, which acts as a central point of control and management for the network. This type of topology is commonly used in access networks, where a central node is used to aggregate traffic from multiple users or devices, and then forward it to the core network. This design allows for efficient use of resources and easy management of the network.

Reference:

"Computer Networking: A Top-Down Approach" by James Kurose and Keith Ross (Chapter 3)

"Data Communications and Networking" by Behrouz A. Forouzan (Chapter 2)

NEW QUESTION: 6

With reference to trails and services, which of the following sentences is correct?

- A. Trails are transported over services; that is, trails are clients with respect to services.
- B. A trail can interconnect three ports, while a service always two.
- C. Services are transported over trails; that is, services are clients with respect to trails.
- D. A service is always associated to a single wavelength, while a trail can involve multiple wavelengths.

Answer: C (LEAVE A REPLY)

Services are transported over trails; that is, services are clients with respect to trails. A service is a logical connection that is used to transport data from one point to another. It is created over a trail, which is a physical connection that is established by using multiple wavelengths. As such, services are clients with respect to trails, as they are transported over them.

NEW QUESTION: 7

How are the EPT systems related to NFM-T when CPB is performed?

- A. The systems are not reported on CPB, as this is transparent to the user and the whole network is validated and provisioned in one step
- B. The systems are displayed on the CPB panel, however they cannot be individually selected as they need to run all together
- C. The systems are displayed on the CPB panel and they can be individually selected
- D. The systems are not reported on CPB, but only through the Equipment Manager

Answer: C (LEAVE A REPLY)

The EPT systems are displayed on the CPB (Commissioning Parameter Builder) panel and they can be individually selected. This allows the user to configure the network elements in the network and provision them according to their specific requirements. The systems are not reported on CPB, but through the Equipment Manager. The Equipment Manager is the interface used to configure the network elements and the EPT systems. The NFM-T is not related to the CPB and does not affect the CPB process.

NEW QUESTION: 8

A user needs to check for interface details against the commands is the correct one?

- A. show interface 11starla 1/17/L1 detail
- B. config card 11star1a interface 1/17 detail
- C. 11starla 1/17 port-detail
- D. config interface detail 1/17/L1

Answer: A (LEAVE A REPLY)

show interface 11starla 1/17/L1 detail is the correct command to check for interface details. This command will display detailed information about the specified interface, including its status, configuration, and statistics.

NEW QUESTION: 9

Which mechanisms can be put in place to increase network survivability?

- A. Protection, where backup resources are pre-allocated and reserved; or restoration, where each trail can be recovered thanks to a 1+1 protection mechanism
- B. Protection, where backup resources are allocated upon failure; or restoration, where each trail can be recovered thanks to a 1+1 protection mechanism
- C. Protection, where backup resources are allocated upon failure; or restoration, where backup resources are pre-allocated and reserved
- D. Protection, where backup resources are pre-allocated and reserved; or restoration, where backup resources are allocated upon failure.

Answer: D (LEAVE A REPLY)

There are two main mechanisms that can be put in place to increase network survivability: protection and restoration. Protection involves pre-allocating and reserving backup resources so that they are ready in case of a failure. Restoration involves allocating backup resources upon failure and using a 1+1 protection mechanism to recover each trail. This ensures that the network is able to re-route traffic in the event of a failure, increasing the overall survivability of the network.

NEW QUESTION: 10

Is it possible to select the fiber type independently for each segment while designing a network in EPT?

- A. Yes, during the link creation through the wizard
- B. No, a unique type is allowed per design for all segments
- C. No, as the fiber type is selected for links only and it's one for whole design
- D. Yes, during the segment creation phase or editing

Answer: D (LEAVE A REPLY)

Yes, during the segment creation phase or editing. It is possible to select the fiber type independently for each segment while designing a network in EPT. This can be done during the segment creation phase or when editing an existing segment. This allows for more flexibility when designing the network and allows for more efficient use of resources.

NEW QUESTION: 11

Which statement is correct about node synchronization?

- A. Node synchronization is executed to align the time of the node to the time of the NFM-T platform
- B. Node synchronization is executed to test the reachability of a node
- C. Full synchronization retrieves the correlated alarms from the node
- D. Full synchronization retrieves all items from the node (NE parameters, Ports, Alarms, Internal Links, etc)

Answer: ([SHOW ANSWER](#))

Node synchronization is a process of keeping the NFM-T database in sync with the nodes in the network. The synchronization process will download all the items from the node, including NE parameters, ports, alarms, internal links, etc., to the NFM-T database. This ensures that the NFM-T database is up to date and the network is running efficiently.

NEW QUESTION: 12

Which macro steps can be executed via CPB?

- A. Node creation, systems validation and system provisioning
- B. Power adjustment and generation of the system loss report
- C. Systems validation, system provisioning, power adjustment
- D. Node supervision, system validation and system provision

Answer: A ([LEAVE A REPLY](#))

Node creation, systems validation and system provisioning. The CPB (Commissioning Parameter Builder) application is used to generate commissioning files for a Nokia 1830 Photonic Service Switch (PSS-1) and can be used to create new nodes, validate the system configuration, and provision the system with the appropriate settings and parameters. Power adjustment and generation of system loss report are not related to CPB.

NEW QUESTION: 13

Which of the following sentences about FlexGrid is false?

- A. FlexGrid allows a more efficient channel spacing.
- B. Channels in FlexGrid systems are allocated with a granularity of 27.5GHz.
- C. FlexGrid systems use specific sets of boards. Old generation WDM systems need to be upgraded to support FlexGrid.
- D. The FlexGrid is currently standardized by ITU-T.

Answer: C ([LEAVE A REPLY](#))

FlexGrid is a flexible grid technology that allows for variable channel spacing and bandwidth allocation. It uses the same sets of boards as the traditional fixed grid systems and it does not require upgrading the old generation WDM systems.

Reference:

"Flexible Grid Optical Networks: From Concepts to Realizations" by Diomidis S. Michalopoulos and George K. Karagiannidis

"Flexible Grid and Flexible Spectrum Optical Networks" by Diomidis S. Michalopoulos and George K. Karagiannidis

"Flexible Grid Optical Networks" by Diomidis S. Michalopoulos and George K. Karagiannidis

NEW QUESTION: 14

Is it possible to mix PSS-24x and PSS-8x shelves In an SWDM configuration?

- A. Yes, as both can be equipped within the same node
- B. No, as they are not compatible and cannot be used within the same node
- C. Yes, but the PSS-24X shelf must be configured as a master
- D. Yes, but the PSS-8X shelf must be configured as a master

Answer: (SHOW ANSWER)

No, it is not possible to mix PSS-24x and PSS-8x shelves in an SWDM (Short Wavelength Division Multiplexing) configuration. The two shelves are not compatible, and cannot be used within the same node.

NEW QUESTION: 15

In which window(s) does the attenuation reach its minimum peak?

- A. First window (850 nm)
- B. Second window (1300 nm)
- C. Third window (1550 nm)
- D. Both first and second windows

Answer: (SHOW ANSWER)

The third window (1550 nm) is where the attenuation reaches its minimum peak. This is because the materials used in fiber optic cables have minimal absorption in this wavelength range. The first and second windows (850 nm and 1300 nm respectively) have higher attenuation due to the materials used in the fiber optic cables.

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