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Exam : 4A0-265

**Title : Nokia Optical Diagnostics
and Troubleshooting**

Version : DEMO

1. Which of the following commands is used to retrieve the total output power level?

- A. show interface am2125a 1/6/lineout
- B. show interface am2125a 1/6/lineout detail
- C. show interface am212 5a 1/6/lineout pm
- D. show interface am2125a 1/6/lineout wavekey

Answer: B

Explanation:

The command show interface am2125a 1/6/lineout detail is used to retrieve the total output power level of the AM2125A amplifier module. This command displays detailed information about the lineout interface, including the current optical power, wavelength, and status. The total output power level is shown as Output Power (dBm) in the output of this command¹.

References: Nokia Optical Diagnostics and Troubleshooting Course | Nokia

2. Which of the following statements best describes the output of the command: show xc 1?

- A. OCH trail name, ITU channel, administrative/operational states, protection states, and Wave Keys for both directions.
- B. A list of cross-connections, including A-end, Z-end, frequency, ID number, OCH trail name, and administrative/operational states.
- C. A list of boards that this cross-connection passes through on the local node, along with administrative/operational states, expected power levels, and measured power levels.
- D. A list of all boards on all nodes that this cross-connection passes through, along with expected power levels, measured power levels, and allowed power deviations.

Answer: B

Explanation:

The command show xc 1 displays a list of cross-connections, including A-end, Z-end, frequency, ID number, OCH trail name, and administrative/operational states. A cross-connection is a logical connection between two ports on an optical network element that allows the transmission of an optical signal from one port to another. The command can be used to view the configuration and status of the cross-connections on a node or a network. The other options are incorrect because they either describe a different command or provide incorrect information.

References: Nokia Optical Diagnostics and Troubleshooting Course, OAM and Diagnostics Guide

3. Which of the following CLI commands displays a list of the expected and measured output power for the channels whose admin state is up?

- A. config wavekey power detail
- B. show wavekey wtsource
- C. config wavekey summary
- D. show wavekey wtsource power

Answer: D

Explanation:

The command show wavekey wtsource power displays a list of the expected and measured output power for the channels whose admin state is up. This command is useful to monitor the power levels of the channels that are encoded with Wave Keys, which are unique identifiers for wavelength tracking. The command output shows the channel number, wavelength, Wave Key ID, Wave Key Code, expected

output power, measured output power, and power difference for each channel¹. The command can be used on both OTs and amplifiers that support WT capability².

References: Nokia Optical Diagnostics and Troubleshooting Course | Nokia, Optical User Guide - Nokia

4. Suppose a channel-related alarm is reported on an 1830 PSS node, and is related to a possible Wave Keys clock source issue.

What is the recommended order for the following troubleshooting steps?

- A. 1. Retrieve the channel power trace.
- 2. Determine the active clock reference source.
- 3. Switch to alternate clock source (PF).
- 4. Replace the suspect PF.
- B. 1. Retrieve the channel power trace.
- 2. Replace the suspect PF.
- 3. Determine the active clock reference source.
- 4. Switch to alternate clock source (PF).
- C. 1. Determine the active clock reference source.
- 2. Replace the suspect PF.
- 3. Retrieve the channel power trace.
- 4. Switch to alternate clock source (PF).
- D. 1. Replace the suspect PF.
- 2. Retrieve the channel power trace.
- 3. Switch to alternate clock source (PF).
- 4. Determine the active clock reference source.

Answer: A

Explanation:

The recommended order for the troubleshooting steps is A, as follows:

Retrieve the channel power trace. This step is useful to identify the affected channel and its power level, as well as to check if there are any fluctuations or anomalies in the power trace that could indicate a clock source issue¹.

Determine the active clock reference source. This step is necessary to verify which clock source is currently used by the node, and if it matches the expected configuration. The clock source can be either a local oscillator (LO) or a phase-locked loop (PLL) that synchronizes with an external reference². The active clock source can be determined by using the command `show interface ot 1/1/lineout detail`³.

Switch to alternate clock source (PF). This step is helpful to isolate the problem and confirm if the suspect PF is indeed causing the channel-related alarm. By switching to an alternate clock source, such as another PF or an external reference, the node can recover from the alarm if the original clock source was faulty⁴.

Replace the suspect PF. This step is the final solution to resolve the issue and restore the normal operation of the node. The suspect PF should be replaced with a new one that has the same specifications and configuration as the original one⁵.

References: Nokia Optical Diagnostics and Troubleshooting Course | Nokia, Optical User Guide - Nokia, Alcatel-Lucent 1830 PSS-8 and PSS-16 Photonic Service Switch

5. Suppose a Raman amplifier has been plugged into slot 1/8.

Which command should the user enter to retrieve the total optical power detected at the ingress interface?

- A. show interface 1/8 opin
- B. show interface 1/8 power
- C. show Interface 1/8/LINEIN
- D. show interface 1/8/UNEIN detail

Answer: D

Explanation:

The command show interface 1/8/UNEIN detail is used to retrieve the total optical power detected at the ingress interface of a Raman amplifier. This command displays detailed information about the UNEIN interface, which is the unidirectional east input interface of the Raman amplifier. The total optical power detected at the UNEIN

interface is shown as Input Power (dBm) in the output of this command¹.

References: Nokia Optical Diagnostics and Troubleshooting Course | Nokia