**Vendor:** Motorola Solutions

**Exam Code:** MSC-241

**Exam Name:** Design and Deploy for MOTOTRBO Solutions EMEA

**Version:** Demo

## QUESTION NO: 1

A MOTOTRBO repeater is installed on top of a tall building located in a downtown area. The repeater provides excellent coverage to a large area. This is a single repeater, connected to a four-stack dipole antenna via a duplexer and low loss cable. Unfortunately, some of the users are complaining that the radio signal is very poor in the downtown area, and in some places, close to the repeater, they get no signal at all. What is the MOST likely explanation for this?

**A.** The antenna is faulty or repeater is faulty.
**B.** A duplexer should not be used on a tall building.
**C.** The radiation pattern of the antenna and its HAAT (Height Above Average Terrain) is resulting in overshoot.
**D.** Any one of these could explain what the users are experiencing.

**Answer: C**

## QUESTION NO: 2

When a Master Repeater in an IP Site Connect system is behind a NAT firewall router, what IP address is used in all peer repeaters for the Master Repeater?

**A.** The LAN address of the master repeater
**B.** The Limited Broadcast IP address of the LAN subnet
**C.** The WAN address of the router
**D.** The DHCP address assigned by the router

**Answer: C**

## QUESTION NO: 3

A two-way radio site with flat terrain and very little ground clutter has a unity gain transmit antenna with a measured Effective Radiated Power (ERP) at 40 Watts. What can be expected if the antenna is changed to a 6 dB gain omnidirectional antenna (select TWO)?

**A.** Radio receive signal strength closer to the horizon decreases.
**B.** Radio receive strength closer to the horizon increases.
**C.** Radio receive signal strength directly below the site increases.
**D.** Radio receive signal strength directly below the site decreases.

**Answer: B,D**

## QUESTION NO: 4

A Capacity Plus system is operating at a remote site with a WAN connection to a local service shop for monitoring with RDAC. An IP networking failure caused an outage to the remote site. How will this impact the Capacity Plus system's performance?

**A.** Repeaters will not be able to assign the next Rest Slot.
**B.** The increased end-to-end IP Latency will result in garbled voice audio.
**C.** The IP network failure will prevent voice calls from being assigned across all repeaters.
**D.** RDAC will not be able to monitor system, but no impact to Capacity Plus system performance.

**Answer: D**

## QUESTION NO: 5

When a Master Repeater is behind a NAT firewall router what must be configured in the router to ensure that all traffic destined to the Master Repeater is routed correctly?

**A.** DHCP server - The master repeater uses a DHCP address assigned by the router.
**B.** Enable Port forwarding - All traffic targeted to the master repeaters source port must be port forwarded to the master repeater's IP address.
**C.** Route table - All WAN traffic targeted to the router's WAN address must be routed to the master repeater's LAN address.
**D.** Disable Port forwarding

**Answer: B**

## QUESTION NO: 6

How does a radio obtain its Air IP Address? It is:

**A.** Provided by DHCP.
**B.** Received during ARS registration.

**C.** Provided by the repeater.

**D.** Derived by DMR ID of the radio.

**E.** Provided by the presence notifier during registration.

**Answer: E**

## QUESTION NO: 7

What is the purpose of RF antenna isolation?

**A.** Reduce the antenna wind load on the tower.

**B.** Protect the RF equipment from lightning strikes.

**C.** Reduce the harmful effects of external transmit carriers.

**D.** Electrically insulate the antenna from the mounting structure.

**Answer: C**

## QUESTION NO: 8

Services and/or applications such as Text Messaging, Telemetry, and GPS, that are loaded in the radio, are uniquely identified by which of the following?

**A.** TCP port

**B.** UDP port

**C.** IP address of the application

**D.** Application ID

**Answer: B**

## QUESTION NO: 9

MOTOTRBO IP Site Connect uses which of the following Internet Protocol packets for communication between repeaters?

**A.** TCP

**B.** UDP
**C.** SNMP
**D.** SIP

**Answer: B**

**QUESTION NO: 10**

You are in the process of staging a Capacity Plus system for a new client. Your project manager has asked you to perform in-house testing of the repeaters without RF networking equipment by terminating the output of the PA. Given this request, which of the following statements is TRUE?

**A.** The RF output can be unterminated.
**B.** This can be done with a Network Analyzer.
**C.** This can be done with a 50 Ohm RF"dummy"load.
**D.** This can be done with a wattmeter with a capacity of 100 watts or more.

**Answer: C**

**QUESTION NO: 11**

In a MOTOTRBO subscriber radio, the beacon interval for IP site connect:

**A.** Controls how often the radio will transmit to the repeater.
**B.** Defines the period of time in which the radio expects to receive a beacon from a repeater.
**C.** Defines the period of time that the radio transmits the GPS coordinates.
**D.** Controls how often the radio will pause transmitting to receive a beacon from another subscriber unit.

**Answer: B**

**QUESTION NO: 12**

You are trying to take advantage of a one antenna configuration for a new IP Site Connect system. In order to do this, the inputs from several repeaters are coupled together into one coaxial transmission line using a:

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**A.** Duplexer
**B.** VSWR normalizer
**C.** Receiver multi-coupler
**D.** Tower top RF pre-amplifier

**Answer: C**

**QUESTION NO: 13**

The modulation type that MOTOTRBO employs is:

**A.** AM - Amplitude
**B.** SSB - Single Side Band
**C.** FM - Frequency Modulation
**D.** 4-level Frequency Shift Keying (4FSK)

**Answer: D**

**QUESTION NO: 14**

What is the purpose of the Master repeater in a Capacity Plus system?

**A.** To allocate a channel to a call
**B.** To help a repeater in discovering other repeaters
**C.** To select the next Rest channel
**D.** To help a radio find the Rest channel
**E.** To register the presence of a radio

**Answer: B**

**QUESTION NO: 15**

Ordering a premium option to enable a premium feature will generate which of the following?

**A.** The assembly of a hardware kit

**B.** An entitlement ID that is received via e-mail

**C.** A physical USB key that is connected between the programming radio and the radio

**D.** A special sequence to press the radio buttons that will enable the feature

**Answer: B**

**QUESTION NO: 16**

How do you disable co-channel interference detection on a Capacity Plus repeater?

**A.** Un-check the RSSI threshold field in the Radio Wide Screen for the repeater in the CPS.

**B.** Un-check the RSSI threshold field in the digital repeater channel of a repeater.

**C.** Disconnect the monitor receiver radio.

**D.** Set the RSSI threshold to -110 dBm.

**E.** Set the RSSI threshold to -40 dBm.

**Answer: E**

**QUESTION NO: 17**

Which of the following Channel Access methods is NOT supported when using the enhanced feature Enhanced Channel Access (ECA) in a Capacity Plus system?

**A.** Always

**B.** Channel Free

**C.** Color Code Free

**D.** All access methods are supported

**Answer: A**

**QUESTION NO: 18**

Your MOTOTRBO customer requires a large circular coverage pattern in an urban area. Which of the following antennas would be BEST suited for this requirement?

**A.** Yagi-Uda antenna
**B.** Four stack folded dipole
**C.** End-fed half-wave antenna
**D.** High gain collinear antenna

**Answer: B**

**QUESTION NO: 19**

Given a Capacity Plus system with subscriber talk-in signal strength greater than -80 dBm, what will happen if the RF interference on the rest slot at a site is -108 dBm and the programmed RSSI threshold in the repeater is -110 dBm?

**A.** This will have no effect on the system and the interference will be ignored.
**B.** The repeater will attempt to decode the interference as voice traffic.
**C.** The rest channel will move to another repeater.
**D.** The repeater will power itself off.

**Answer: C**

**QUESTION NO: 20**

Which of the following BEST quantifies the radio capacity of a Capacity Plus system with both slots configured as trunked channels?

**A.** Greater than a single site MOTOTRBO digital system
**B.** Less than a single site F1OTOTRBO digital system
**C.** The same as an IP Site Connect system with both slots as wide area channels
**D.** Equal to a single site MOTOTRBO digital system

**Answer: A**

**QUESTION NO: 21**

Which of the following statements is TRUE for a Capacity Plus system?

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**A.** It requires a dedicated control channel.
**B.** It requires a centralized controller.
**C.** It requires a dedicated controller.
**D.** None of the above statements is true.

**Answer: D**

## QUESTION NO: 22

When planning your coverage requirements for a Capacity Plus system design, it is important to identify the following items (select THREE):

**A.** How many system users require a field radio
**B.** How many users will be in a noisy environment
**C.** The location of the network operations center (NOC)
**D.** Which system users need to communicate with each other
**E.** How many system users require Forward Error Correction and how many do not
**F.** Where are system users transmitting and receiving from when communicating with other system users

**Answer: A,D,F**

## QUESTION NO: 23

Which of the following are TRUE statements about operating a MOTOTRBO repeater in a Capacity Plus configuration?

**A.** One of its logical channels can work in trunked mode and the other logical channel can work in data revert mode.
**B.** Both logical channels can work in trunked mode.
**C.** Both logical channels can work in data revert mode.
**D.** Only A & B are true (C is false)
**E.** Only B & C are true (A is false)
**F.** A, B, & C are true

**Answer: F**

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