



600-211

Implementing Cisco Service Provider Mobility
CDMA Networks

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SUCCESS GUIDE TO CISCO CERTIFICATION

Exam Summary – Syllabus – Questions

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Introduction to 600-211 Exam on Implementing Cisco Service Provider Mobility CDMA Networks

A great way to start the Cisco Service Provider Mobility CDMA to LTE Specialist (SPCDMA) preparation is to begin by properly appreciating the role that syllabus and study guide play in the Cisco 600-211 certification exam. This study guide is an instrument to get you on the same page with Cisco and understand the nature of the Cisco Service Provider Mobility CDMA to LTE exam.

Our team of experts has composed this Cisco 600-211 exam preparation guide to provide the overview about Cisco Implementing Cisco Service Provider Mobility CDMA Networks exam, study material, sample questions, practice exam and ways to interpret the exam objectives to help you assess your readiness for the Cisco SPCDMA exam by identifying prerequisite areas of knowledge. We recommend you to refer the simulation questions and practice test listed in this guide to determine what type of questions will be asked and the level of difficulty that could be tested in the Cisco Service Provider Mobility CDMA to LTE certification exam.

Cisco 600-211 Certification Details:

Exam Name	Implementing Cisco Service Provider Mobility CDMA Networks
Exam Number	600-211 SPCDMA
Exam Price	\$300 USD
Duration	90 minutes
Number of Questions	65-75
Passing Score	Variable (750-850 / 1000 Approx.)
Recommended Training	Implementing Cisco Service Provider Mobility CDMA Networks – (SPCDMA)
Exam Registration	PEARSON VUE
Sample Questions	Cisco 600-211 Sample Questions
Practice Exam	Cisco Service Provider Mobility CDMA to LTE Specialist Practice Test

Cisco 600-211 Exam Syllabus:

Section	Weight	Objectives
CDMA	4%	1 Identify key functions of CDMA and basic understanding of architecture and interfaces 2 Describe the attach procedure and call flow
MIP/Proxy MIP/Simple IP	9%	1 Simple IP a) Describe Simple IP protocol and interfaces 2 Mobile IP a) Describe Mobile IP protocol and interfaces b) Describe Mobile IP registration/registration revocation c) Describe MIPv4 in foreign agent mode 3 Proxy MIP a) Describe proxy MIPv6 protocol and interfaces b) Describe dual stack mobile IPv6 protocol and interfaces c) Describe integration with LTE networks
Diameter (MPC centric)	11%	1 Define and understand diameter base protocol 2 Understand transport layer functionality of diameter protocol 3 Understand and implement diameter routing agents 4 Understand diameter peer discovery 5 Understanding diameter message processing 6 Understanding diameter error handling mechanism 7 Describe and understand diameter re-authorization procedure 8 Describe and understand DCCA model
Tunneling Protocols	12%	1 Basics of tunneling and encryption a) Identify application of tunneling in wireless data networks 2 Generic Routing Encapsulation (GRE) a) Identify applications of GRE in wireless data networks b) Configure GRE tunnels

Section	Weight	Objectives
		<p>c) Troubleshoot GRE tunnels</p> <p>3 Layer 2 Tunneling Protocol (L2TP)</p> <p>a) Identify applications of L2TP in wireless data networks</p> <p>b) Describe LNS selection and load balancing</p> <p>c) Describe L2TP over IPSec</p> <p>d) Configuring L2TP tunnels</p> <p>e) Troubleshoot L2TP tunnels</p> <p>4 Internet Protocol Security (IPsec)</p> <p>a) Configure IPSec tunnels on the GGSN</p> <p>b) Identify applications of IPSec tunnels as applied to mobile wireless networks</p> <p>c) Describe IPSec for IPv6</p> <p>d) Troubleshoot IPSec</p> <p>5 MPLS over BGP</p> <p>a) Describe MPLS over BGP in mobile packet core networks</p> <p>b) Configure MPLS over BGP</p> <p>c) Troubleshoot MPLS over BGP</p>
Home Agent (3G CDMA)	11%	<p>1 Network functions HA</p> <p>a) Describe the HA architecture and interfaces</p> <p>b) Describe the IPv4 and IPv6 address allocation to UE</p> <p>c) Explain the basic functions of EVDO-RevA QoS</p> <p>2 Authentication and Authorization</p> <p>a) Configure and implement RADIUS authentication and authorization</p> <p>3 Accounting and Charging</p> <p>a) Configure and implement RADIUS Accounting</p> <p>b) Configure and implement Online Charging (OCS) via Gy interface</p> <p>c) Configure and implement Offline Charging (OFCS) via Rf/Ga interface</p> <p>d) Configure and implement the Enhanced Charging Service</p> <p>e) Configure and implement EDR/UDR</p> <p>f) Configure and implement policy and charging control via Gx interface</p> <p>4 SGi Termination</p> <p>a) Configure and implement various tunneling GRE, IP-in-IP, IPSec</p>

Section	Weight	Objectives
PDSN/Foreign Agent (3G CDMA node)	13%	<p>1 Network functions PDSN</p> <ul style="list-style-type: none"> a) Describe the PDSN architecture and interfaces b) Describe IPv4 address allocation to UE for Simple IP c) Configure SIP/PMIP/MIP <p>2 Authentication and Authorization</p> <ul style="list-style-type: none"> a) Configure and implement RADIUS authentication and authorization <p>3 Accounting and Charging</p> <ul style="list-style-type: none"> a) Configure and implement RADIUS accounting b) Configure and implement the enhanced charging service c) Configure and implement EDR/UDR <p>4 Configure and implement RP interfaces to RNC/PCF</p>
HSGW (4G EHRPD node)	20%	<p>1 Network functions HSGW</p> <ul style="list-style-type: none"> a) Basic understanding of HSGW architecture and interfaces b) Basic understanding of HSGW call flows MIP/PMIP/QoS c) Basic understanding of MAG service on HSGW d) Basic understanding of LMA service on PGW e) Basic understanding of PGW selection f) Optimized and non-optimized handover between 3GPP and non-3GPP <p>2 Authentication and Authorization</p> <ul style="list-style-type: none"> a) Configure and implement STa diameter authentication and authorization <p>3 Accounting and Charging</p> <ul style="list-style-type: none"> a) Configure and implement Online charging (OCS) via Gy interface b) Configure and implement Offline charging (OFCS) <p>4 Policy</p> <ul style="list-style-type: none"> a) Configure and implement policy via Gxa interface <p>5 Radio Network Interface</p> <ul style="list-style-type: none"> a) Configure and implement RP interfaces to eRNC

Section	Weight	Objectives
Inline Services	20%	<p>1 Packet Inspection</p> <ul style="list-style-type: none"> a) Explain common L7 applications b) Describe packet processing by the traffic inspection engine c) Describe and configuration of rules to be used for traffic inspection d) Describe and configuration of the charging rules e) Configure charging policies f) Design and configuration of rule bases, and designs the priorities for the rules and their corresponding charging policies g) Describe Handling of VOIP traffic h) Configure post processing rules i) Troubleshoot packet Inspection <p>2 P2P Detection</p> <ul style="list-style-type: none"> a) Configure the rules for the various P2P applications b) Describe mechanism of updating the software to detect newer P2P applications <p>3 Content Filtering</p> <ul style="list-style-type: none"> a) Describe the various content filtering mechanisms available b) Describe ICAP protocol c) Configure content filtering d) Troubleshoot content filtering <p>4 Firewall Policies</p> <ul style="list-style-type: none"> a) Describe the basics of stateful attacks b) Configure access rules c) Troubleshoot firewall policies <p>5 NAT</p> <ul style="list-style-type: none"> a) Configure NAT IP Pools and Port Chunk Groups to be used b) Configure the NAT accounting records c) Troubleshoot NAT <p>6 Event Based Charging</p> <ul style="list-style-type: none"> a) Configure Event Data Records (EDRs) b) Configuration flow based charging records (Enhanced GCDR Records) c) Describe report generation using EDRs for different types <p>7 Fraud Detection</p> <ul style="list-style-type: none"> a) Describe DNS snooping

Section	Weight	Objectives
		b) Explain the various mechanisms available for detection of tethered traffic c) Describe updating the database for the list of known tethered devices d) Configure fraud detection e) Troubleshoot fraud detection 8 HTTP Header Enrichment a) Describe HTTP header enrichment b) Configure HTTP header enrichment c) Troubleshoot HTTP header enrichment

600-211 Sample Questions:

01. What interface uses PMIPv6?

- a) S1
- b) S2a
- c) S6a
- d) STa

02. What is the default port used for in Mobile IP Registration messages between FA and HA?

- a) UDP port 434
- b) TCP port 3868
- c) TCP port 434
- d) UDP port 3868

03. What protocol is used to initiate a PPP negotiation between Mobile and PDSN?

- a) IPCP
- b) PAP
- c) CHAP
- d) LCP

04. Where does the UE/Mobile obtain its IPv6 prefix?

- a) The address prefix from HSGW VSNCP message
- b) The address prefix from HSGW Router Advertisement
- c) The address prefix from HSGW Neighbor Solicitation
- d) The address prefix from HSGW Router Solicitation

05. Which command can be used to view NAT statistics per IP pool on the Cisco ASR 5000?

- a) show nat statistics?
- b) show ip-pool statistics
- c) show active-charging nat statistics?
- d) show ecs nat statistics?

06. Which interface carries signaling information between PCF and PDSN?

- a) A8
- b) A9
- c) A10
- d) A11

07. Which is an attribute in MIP RRQ?

- a) Correlation ID
- b) NAS-Identifier
- c) Framed-IP-Address
- d) Care-of-Address
- e) Framed-Interface-ID

08. Which network element sends the Re-Auth-Request?

- a) OCS
- b) HA
- c) PDSN
- d) RNC

09. Which reference point is defined as S103?

- a) SGW and PGW
- b) PGW and HSGW?
- c) HSGW and MME
- d) HSGW and SGW?

10. Which task facility in the Cisco ASR 5000 maintains Diameter connections?

- a) diamproxy
- b) diameter
- c) demuxmgr
- d) connproxy

Answers to 600-211 Exam Questions:

Question: 01	Question: 02	Question: 03	Question: 04	Question: 05
Answer: b	Answer: a	Answer: d	Answer: b	Answer: c
Question: 06	Question: 07	Question: 08	Question: 09	Question: 10
Answer: d	Answer: d	Answer: a	Answer: d	Answer: a

Note: If you find any typo or data entry error in these sample questions, we request you to update us by commenting on this page or write an email on feedback@nwexam.com