BLACKBIRD FOR TRAINING

Aruba Advanced Mobility Troubleshooting & Solutions

8 – 12 November 2027
Barcelona (Spain)



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Introduction

Modern organizations rely on wireless networks as the foundation of their digital infrastructure, supporting cloud services, enterprise applications, Internet of Things IoT environments, hybrid workplaces, and business-critical operations. As Aruba Mobility solutions continue to expand across government agencies, telecommunications providers, oil and gas companies, financial institutions, healthcare organizations, educational sectors, and large enterprises, the ability to effectively troubleshoot, diagnose, and optimize wireless networks has become an essential competency for IT professionals.

The Aruba Advanced Mobility Troubleshooting & Solutions course provides a comprehensive and practical approach to understanding Aruba wireless environments, identifying network issues, analyzing system performance, and implementing effective troubleshooting strategies. Participants will gain in-depth knowledge of Aruba Mobility architecture, wireless communication processes, diagnostic methodologies, and industry best practices for maintaining secure, reliable, and high-performing wireless infrastructures.

Throughout this one-week program, participants will learn how to troubleshoot connectivity issues, authentication failures, roaming problems, RF interference, and wireless performance challenges. The course also covers advanced diagnostic tools, system logs, command-line troubleshooting techniques, policy analysis, and performance optimization methods that enable participants to identify root causes quickly and implement sustainable solutions.

Combining technical instruction with practical exercises and real-world case studies, this course equips participants with the knowledge and hands-on skills required to improve network reliability, reduce downtime, enhance user experience, and optimize Aruba Mobility deployments across enterprise environments.

Course Objectives

By the end of this course, participants will be able to:



- Understand the Aruba Mobility Architecture and the operation of enterprise wireless network components.
- Analyze connectivity, authentication, roaming, and network service issues affecting Aruba wireless environments.
- Utilize Aruba diagnostic tools, system logs, and monitoring utilities to identify and troubleshoot network problems efficiently.
- Troubleshoot Aruba Access Points, Mobility Controllers, Gateways, and associated wireless services.
- Optimize wireless network performance through RF management, coverage analysis, channel planning, and interference mitigation.
- Apply Aruba security best practices, access control policies, and user management techniques to maintain secure wireless environments.
- Implement structured troubleshooting methodologies to minimize network downtime and improve operational stability.
- Develop practical solutions that enhance the reliability, availability, and overall performance of Aruba Mobility infrastructures.

Course Outlines

Day One: Understanding Aruba Mobility Architecture and Troubleshooting Methodology

- Introduction to Aruba Mobility Architecture and its core components.
- Reviewing enterprise wireless network design principles.
- Understanding packet flow within Aruba wireless environments.
- Applying structured troubleshooting methodologies.
- Identifying common network faults and operational issues.
- Using monitoring and diagnostic tools to evaluate network health.

Day Two: Troubleshooting Wireless Connectivity and Network Services

- Diagnosing wireless client connectivity issues.
- Troubleshooting authentication and authorization processes.
- Resolving DHCP and DNS service problems.
- Analyzing Access Point performance and operational status.
- Investigating roaming issues and client mobility challenges.
- Performing practical troubleshooting exercises based on real operational scenarios.

Day Three: Optimizing Wireless Performance and RF Management

- Evaluating wireless network performance indicators.
- Managing RF interference and signal optimization.
- Optimizing wireless channels and transmission power settings.
- Utilizing spectrum analysis tools for wireless diagnostics.
- Improving Quality of Service QoS and user experience.
- Applying practical optimization techniques through hands-on exercises.



Day Four: Advanced Aruba Troubleshooting Techniques

- Troubleshooting Mobility Controllers and Gateway services.
- Analyzing system logs and interpreting error messages.
- Using CLI commands for advanced diagnostics.
- Resolving wireless security policy issues.
- Troubleshooting VLAN, routing, and tunnel-related problems.
- Examining advanced enterprise troubleshooting case studies.

Day Five: Network Reliability, Optimization, and Best Practices

- Developing a structured network troubleshooting strategy.
- Applying Aruba best practices for wireless network maintenance.
- Improving network stability and reducing service interruptions.
- Solving advanced troubleshooting scenarios in enterprise environments.
- Reviewing key technical concepts and operational best practices.
- Completing practical assessments and discussing recommended technical solutions.

Why Attend this Course: Wins & Losses!

- Diagnose and resolve complex Aruba Mobility infrastructure issues using structured troubleshooting methodologies.
- Improve the availability, reliability, and overall performance of enterprise wireless networks.
- Strengthen technical expertise in troubleshooting Aruba Access Points, Mobility Controllers, Gateways, and wireless client connectivity.
- Analyze authentication, roaming, RF interference, DHCP, DNS, VLAN, and routing issues with greater confidence.
- Utilize Aruba diagnostic tools, system logs, CLI commands, and monitoring utilities to identify root causes efficiently.
- Optimize wireless network performance through effective RF management, channel planning, and coverage analysis.
- Apply Aruba best practices to reduce network downtime, improve user experience, and maintain secure wireless environments.
- Enhance professional capabilities in supporting, maintaining, and optimizing Aruba enterprise mobility solutions across public and private sector organizations.

Conclusion

Reliable and high-performing wireless networks are fundamental to supporting modern digital enterprises. As organizations increasingly depend on Aruba Mobility solutions to deliver secure connectivity, seamless mobility, and uninterrupted business operations, the ability to diagnose, troubleshoot, and optimize wireless infrastructures becomes an essential technical capability.



The Aruba Advanced Mobility Troubleshooting & Solutions course provides participants with a structured and practical framework for understanding Aruba wireless architecture, applying advanced troubleshooting methodologies, analyzing network performance, and implementing effective optimization strategies. Throughout the one-week program, participants progressively develop the technical knowledge and practical skills required to investigate connectivity issues, troubleshoot authentication failures, optimize RF performance, analyze system logs, diagnose Mobility Controller and Access Point issues, and implement corrective actions based on Aruba best practices.

The course emphasizes practical problem-solving through realistic troubleshooting scenarios, enabling participants to strengthen analytical thinking, improve operational efficiency, minimize network downtime, and maintain consistent wireless service quality. By combining technical concepts with hands-on exercises and structured troubleshooting workflows, participants gain practical experience that can be immediately applied within enterprise environments.

Upon successful completion of this course, participants will possess the expertise required to troubleshoot complex Aruba Mobility environments, improve wireless network reliability, optimize infrastructure performance, and support business continuity through effective network operations. These capabilities enable organizations to maximize the value of their Aruba investments while ensuring secure, resilient, and high-performing wireless networks capable of meeting current operational demands and future technological requirements.

