



Park Air V5 Training

Product Training

Introduction

Training is a crucial part of the Sapphire offering and the training courses are specifically designed for people responsible for the acquisition, installation, support and maintenance of Park Air ATM communications systems. The courses have been developed by our technical experts, including product design specialists and field support staff. They are all delivered by instructors who themselves have extensive ATM communications experience. Park Air modular courses use 80 minute building blocks to create the right course for every customer and every level of knowledge; bespoke training courses are available on request.

The training modules are described on the following pages.

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1 Configuration of Park Air C4 Cabinets (V5-O-C4CONFIG)

Introduction

This module introduces the Park Air C4 cabinet, explains the design concept and how to identify components and cables located in the cabinet on the system diagram. It includes a hands-on practical on assembling a system into a cabinet.

Target audience

- ATC maintenance engineers and technicians.

Prerequisite

- Experience in VHF/UHF radio communications.

Content

- Features of the cabinet
- Layout of components in the cabinet
- Identification of components from the system diagram
- Identification of cabinet wiring
- Cabinet assembly practical.

2 Introduction to Park Air T6 Radios (V5-O-T6INTRO)

Introduction

This module provides an overview of the Park Air T6 radio. It describes key features and how to connect and operate the radio.

Target audience

- Business managers
- ATC managers and supervisors
- ATC maintenance engineers and technicians.

Prerequisite

- Experience in VHF/UHF radio communications.

Content

- Key features of the radio
- Introduction to connectors, controls and indicators on the front panel
- Introduction to connectors on the rear panel
- Introduction to the web server.

3 Configuration of Park Air T6 Radios (V5-O-T6CONFIG)

Introduction

This module provides the detail on how to configure the Park Air T6 radio. It includes a practical on configuring a radio.

Target audience

- ATC maintenance engineers and technicians.

Prerequisite

- Experience in VHF/UHF radio communications
- Introduction to Park Air T6 radios (V5-O-T6INTRO).

Content

- Configuration via the front panel
- Configuration via the web browser
- Configuring transmitter functions
- Configuring receiver functions
- Radio configuration practical.

4 Practical Training on Park Air T6 Radios (V5-O-T6PRAC)

Introduction

This practical module provides a more in depth opportunity for students to use the T6 web browser tool, to increase understanding of the available radio settings.

Target audience

- ATC maintenance engineers and technicians.

Prerequisite

- Experience in VHF/UHF radio communications
- Introduction to Park Air T6 Radios (V5-O-T6INTRO)
- Configuration of Park Air T6 Radios (V5-O-T6CONFIG).

Content

- Practical configuration via the web browser.

5 Introduction to Park Air S4 IP Controller (V5-O-S4IPCINTRO)

Introduction

This module introduces the Park Air S4 IP Controller. It describes key features and how to connect and operate the controller.

Target audience

- Business managers
- ATC managers and supervisors
- ATC maintenance engineers and technicians.

Prerequisite

- Experience in VHF/UHF radio communications.

Content

- Key features of the Park Air S4 IP Controller
- Standards that the Park Air S4 IP Controller has been designed to operate within
- Connection of the Park Air S4 IP Controller and its ancillary components to a suitable power supply and network
- Configuration of the Park Air S4 IP Controller for use, including users, roles, channels and radios.

6 Introduction to Park Air R4 MARC Server (V5-O-R4MSINTRO)

Introduction

This module introduces Park Air R4 MARC Server. It describes key features, the different connectivity options available and how to start up MARC Server.

Target audience

- Business managers
- ATC managers and supervisors
- ATC maintenance engineers and technicians.

Prerequisite

- Experience in VHF/UHF radio communications.

Content

- Key features of the Park Air R4 MARC Server
- The many ways in which data connectivity can be achieved within sites
- MARC Server can prevent loss of data in the event of system failure
- Log in to Park Air R4 MARC Server.

7 Operation of Park Air R4 MARC Server (V5-O-R4MSOP)

Introduction

This module explains the screens used when operating Park Air R4 MARC Server. It includes hands-on practicals on logging in, security and viewing a system.

Target audience

- ATC managers and supervisors
- ATC maintenance engineers and technicians.

Prerequisite

- Experience in VHF/UHF radio communications
- Introduction to Park Air R4 MARC Server (V5-O-R4MSINTRO).

Content

- Explanation of the log in process
- Explanation of role permissions to change what a user can see and do
- The information that can be viewed on the Park Air R4 MARC Server screens
- User password recovery/reset.

8 Configuration of Park Air R4 MARC Server (V5-O-R4MCONFIG)

Introduction

This module explains how to define a system configuration and implement it in Park Air R4 MARC Server. It includes a hands-on practical.

Target audience

- ATC managers and supervisors
- ATC maintenance engineers and technicians.

Prerequisite

- Experience in VHF/UHF radio communications
- Introduction to Park Air R4 MARC Server (V5-O-R4MSINTRO)
- Operation of Park Air R4 MARC Server (V5-O-R4MSOP).

Content

- Description of how to plan a system definition
- Description of how to make a system definition
- Identification and correction of errors.

9 Diagnosis using Park Air R4 MARC Server (V5-O-R4MSDIAG)

Introduction

This module explains how to interpret the status of assets monitored by Park Air R4 MARC Server and the status of Park Air R4 MARC Server itself, schedule automatic events and generate reports. It includes hands-on practicals.

Target audience

- ATC managers and supervisors
- ATC operators
- ATC maintenance engineers and technicians.

Prerequisite

- Experience in VHF/UHF radio communications
- Introduction to Park Air R4 MARC Server (V5-O-R4MSINTRO)
- Operation of Park Air R4 MARC Server (V5-O-R4MSOP).

Content

- Introduction to visual indicators and their meaning
- Audible indicators
- Determination of the health status of Park Air R4 MARC Server
- Events scheduling
- Reports generation.

10 Resilience of Park Air R4 MARC Server (V5-O-R4MSRES)

Introduction

This module explains the resilience features of Park Air R4 MARC Server and how to configure them. It includes a hands-on practical.

Target audience

- ❑ ATC managers and supervisors
- ❑ ATC maintenance engineers and technicians.

Prerequisite

- ❑ Experience in VHF/UHF radio communications
- ❑ Introduction to Park Air R4 MARC Server (V5-O-R4MSINTRO)
- ❑ Operation of Park Air R4 MARC Server (V5-O-R4MSOP)
- ❑ Configuration of Park Air R4 MARC Server (V5-O-R4MSCONFIG).

Content

- ❑ Definition of Park Air R4 MARC Server resilience
- ❑ Introduction to Microsoft SQL Management Studio
- ❑ Improvement to resilience
- ❑ Introduction to RAID drives and the resilience benefits.

11 Practical on Park Air R4 MARC Server (V5-O-R4MSPRAC)

Introduction

This module demonstrates how to set up Primary / Back up and Replication on Park Air R4 MARC Servers. It includes hands-on practicals.

Target audience

- ❑ ATC managers and supervisors
- ❑ ATC maintenance engineers and technicians.

Prerequisite

- ❑ Experience in VHF/UHF radio communications
- ❑ Introduction to Park Air R4 MARC Server (V5-O-R4MSINTRO)
- ❑ Operation of Park Air R4 MARC Server (V5-O-R4MSOP).

Content

- ❑ How to set up Primary / Back up Park Air R4 MARC Servers
- ❑ How to set up Replication on Park Air R4 MARC Servers
- ❑ Open practical session.

12 Formal assessment (V5-O-ASSESS)

Introduction

This bespoke module will formally assess students who have completed a Park Air Sapphire training course, in order to satisfy the requirement for ATSEP continuation/conversion training as defined by EUROCONTROL and ICAO.

This formal assessment will include a multi-choice theory examination together with practical equipment configuration and diagnosis assessments. Personnel who successfully complete this assessment will receive a certificate.

Target audience

- ❑ ATC maintenance engineers and technicians.

Prerequisites

- ❑ Experience in VHF/UHF radio communications
- ❑ Completion of relevant Park Air Sapphire training course.

Content

- ❑ Theoretical assessments
- ❑ Practical assessments.

Duration

- ❑ The duration of this module is up to one day, dependent upon number of modules covered.

Note:

The information and specifications provided in this document represent the minimum performance of Park Air Systems' equipment. Park Air Systems reserves the right to change the specifications of its equipment from time to time in its discretion without any notice. It is the customer's responsibility to request and obtain the latest applicable specifications from Park Air before placing orders for Park Air Systems' equipment. Neither this document, nor any of the information presented in it, should be regarded as an offer or commitment or a representation on the part of Park Air Systems (or any other person) to enter into a contractual arrangement. For further details please see the Northrop Grumman website.

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