

TB8100 to TB9100 - Migration to Digital

Introduction

The TB8100 series of base station equipment is designed to be easily upgraded from analogue to digital with the TB9100 series.

TB8100 to TB9100 Transition Kit

To migrate a Tait TB8100 analogue base station to a TB9100 Digital APCO P25 base station, a transition kit is available. This contains:

- TB9100 Reciter
- Digital radio and network board firmware
- P25 product documentation
- Customer Service Software
- New software licences, e.g. for P25 trunking operation
- Analogue interface cables
- Compliance labelling
- Step by step transition instructions

This transition kit converts a single analogue channel to P25 Trunking operation.

System Migration

In addition to the transition kit, to migrate a TaitNet analogue conventional system to a P25 Trunking system, you will also need:

- P25 Network Controller
- P25 Network Management Terminal
- Analogue Gateway (optional)

Every customer migrating from a Tait analogue to a P25 Digital solution will have different transition requirements. The following points are for consideration...

Network Management Terminal

The transition from analogue to Digital P25 will require the same workstation or PC with a software upgrade for P25 Digital.

Node

In a P25 Digital Trunked network, the functionality of node is replaced by the P25 Network Controller. The node can be removed following transition.

Digital Audio Switch

The Digital Audio Switch (DAS) is not required for P25 operation. The DAS can be removed on completion of the transition.

Site Management Module

The Site Management Module can be removed when migration to P25 is complete.

Channel Control Module

The Channel Control Module can be removed when migration to P25 is complete.

Terminals

TM8000 series mobiles and Tait Orca portables have to be replaced with TM9100 and TP9100 terminals for operation on Digital P25 systems. It is possible to purchase TM9100 and TP9100's in analogue mode only and upgrade to digital in the future if required.

System Design

There are many design and system engineering options for a hybrid Tait analogue/P25 Digital operation during transition. The best option for your needs will depend on:

- How your analogue system is engineered
- Service requirements
- Functional requirements