TPCMS Commences Roll-Out

NetworkRail

Views from around the business

"I am confident that the new national SCADA system, also known as TPCMS, will be delivered without significant delays and that it will provide a national platform for improved electrical control as well as opportunities to facilitate safer and faster isolation support to the Routes. Via the Engineering platform STE will continue to provide technical support to the Programme to define functionality, HMI design and standard ways of commissioning, updating and operating the system." Nigel Edwards, Professional Head of Power Distribution HV/LV, STE

"Feedback provided by the SMEs has been listened to. We have confidence that the development is moving in the right direction and can see it now as more of an evolution of current systems, rather than radical change." Electrical Control Joint Working Group (ECJWG)

"Over the last three months the SCADA Programme's engagement with our Electrical Control Room Operators has resulted in a far more positive response. We can now see an improved TPCMS System that Anglia wants." Carl Hunt, Anglia E&P RAM

Your questions answered

We know that you will have many questions relating to the implementation of the new system. We have spoken to your Route representatives to collate a list of FAQs.

Q. How long is the conversion training course?
A. The current duration of the TPCMS a.c. Operations training course is 2.5 days and the final duration will be confirmed by Competence Development Groups (CDG) in September 2017.
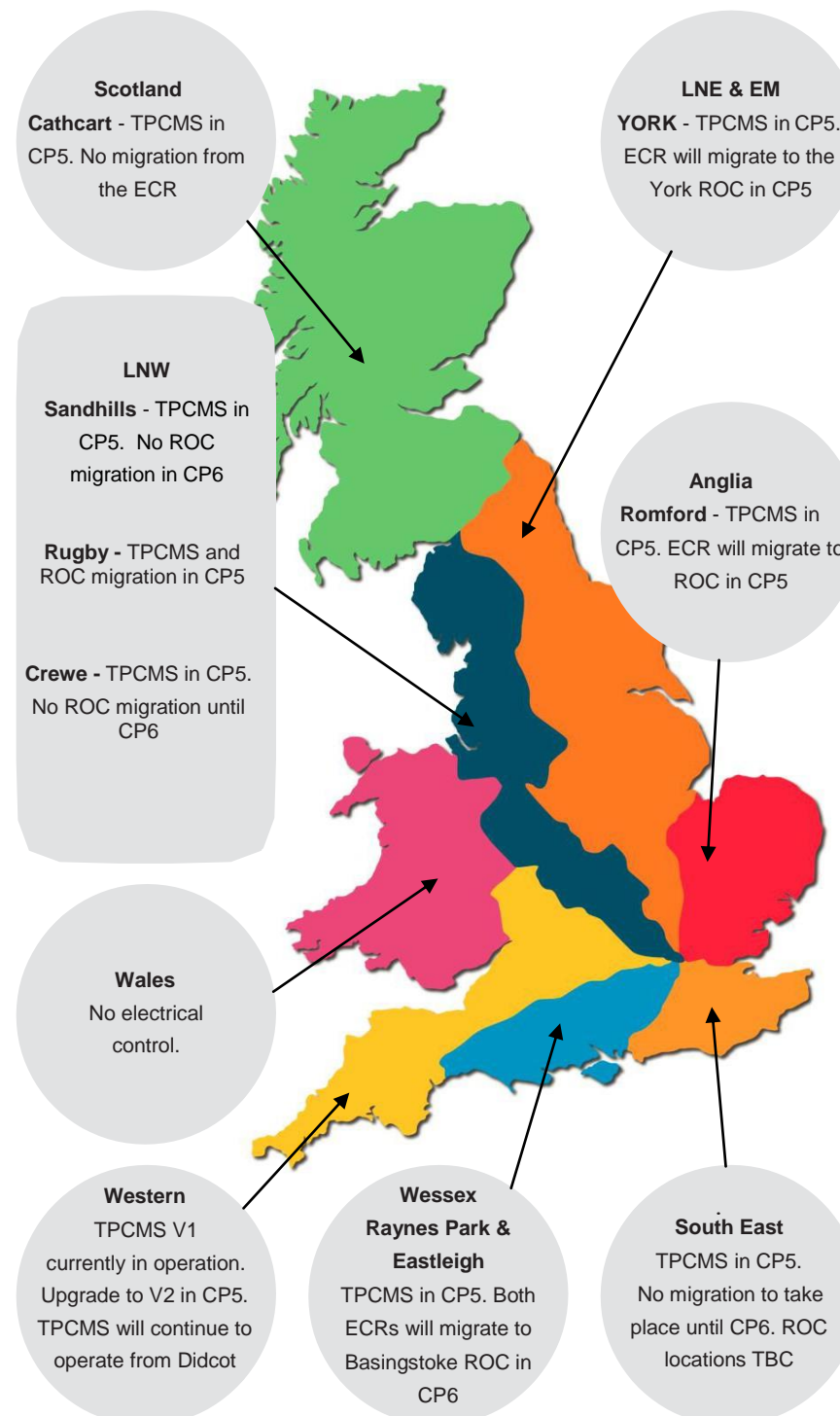
Q. When are we moving to ROCs?
A. See centre "Locations" box of this poster. ROC location moves will be consulted at the relevant area council in line with our collective bargaining arrangements.

Q. What are the different versions of TPCMS?
A. There are currently four versions of software planned. The versions build increasing functionality with Version 2 for a.c. being no less functionality than our current SCADA systems. Version 3 brings in d.c. and Version 4 further functionality such as replay mode which has previously been unavailable to Network Rail.

Locations

Scotland
Cathcart - TPCMS in CP5. No migration from the ECR

LNE & EM
YORK - TPCMS in CP5. ECR will migrate to the York ROC in CP5

LNW
Sandhills - TPCMS in CP5. No ROC migration in CP6

Rugby - TPCMS and ROC migration in CP5

Crewe - TPCMS in CP5. No ROC migration until CP6

Anglia
Romford - TPCMS in CP5. ECR will migrate to ROC in CP5

Wales
No electrical control.

Western
TPCMS V1 currently in operation. Upgrade to V2 in CP5. TPCMS will continue to operate from Didcot

Wessex
Raynes Park & Eastleigh
TPCMS in CP5. Both ECRs will migrate to Basingstoke ROC in CP6

South East
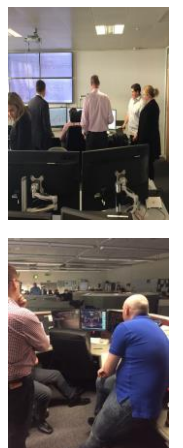TPCMS in CP5. No migration to take place until CP6. ROC locations TBC

The journey so far...

Rob Williams & Chris McClenn were nominated through the ECJWG as Subject Matter Experts and have been working with telent to help develop the TPCMS System.

Rob & Chris have been faced with the challenging task of developing the system with telent and representing the many contrasting views of the ECOs.

National IT systems are notoriously difficult to implement. TPCMS has proved to be no different with the implementation running significantly later than originally planned.

In October 2016, Safety, Technical & Engineering took sponsorship of the SCADA Programme. We have given the business confidence in the new system and its national roll-out which is about to begin. Version 1 of the TPCMS software has been in-service for circa nine months on Western Route and they will upgrade to Version 2 in CP5. Anglia Route will commission Version 2 of the system over the coming months and go-live in 2017. The rest of the Routes will follow during CP5.

What we plan to do next...

- TPCMS is currently being deployed at Romford ECR (Anglia) with Entry into Service planned for the end of the year

- Development of V3 software (d.c.) is progressing and will be available from Autumn 2017

- Sandhills ECR (LNW) will be the first to deploy TPCMS utilising the V3 software (d.c.)

- Full national deployment of TPCMS will be complete by the end of CP5

For further information, please speak to your manager or email SCADACommunications@networkrail.co.uk

For the full list of FAQs please refer to the document displayed in your ECR or email SCADACommunications@networkrail.co.uk. If your question hasn't been asked, please email SCADACommunications@networkrail.co.uk