

CASE STUDY: NLARS North London Artificial Recharge Schemes

Project Overview

The purpose of the North London Artificial Recharge Scheme (NLARS) extension project is to increase the deployable output for London. The project is divided into three packages and several sites, below is a brief description of the work which was carried out at each of the 6 sites; Capel Manor, William Girling South West, William Girling South East, King George South, Enfield Lock and Cheshunt South.

New MCC's were installed (in new buildings by main contractors), complete with Allen Bradley ControlLogix PLC, PanelView+ 700 HMI (and a BBL 3305 Outstation at Cheshunt South and Capel Manor). The PLC's were connected to the Thames-wide SCADA network (RTAP) to enable status and commands to be issued from LWCC/Coppermills Control Room. Modifications to the RTAP SCADA system were also required under our scope.

The MCC's control a new borehole pump at all sites and a recharge valve system at William Girling South West, William Girling South East, King George South, Enfield Lock and Cheshunt South.

Adsys have contributed in the following areas to add value and innovation to the final solution –

- Designed code to be as similar as possible over all sites regardless of communications paths.
- Included and tested at CFAT both Abstraction and Recharge on all sites such that when Recharge is added at a later stage this will be simply implemented without major coding modifications.
- Our open book policy when requested to detail prices for additional or variations of scope
- Flexible commercial strategy – delivering systems, on-time, to budget, and where cost savings were made in one area, offsetting this saving against increases in scope in other areas
- Engagement of suitably qualified experts to train in-house staff on areas where this was deemed required to both expand Adsys Anord's repertoire and provided experienced site assistance.
- The new RTAP mimics were created with the same “look and feel” of the existing system to ensure that operators are familiar with the new system from day one. This reduces training time and potential process risks from delays in operator reaction times.

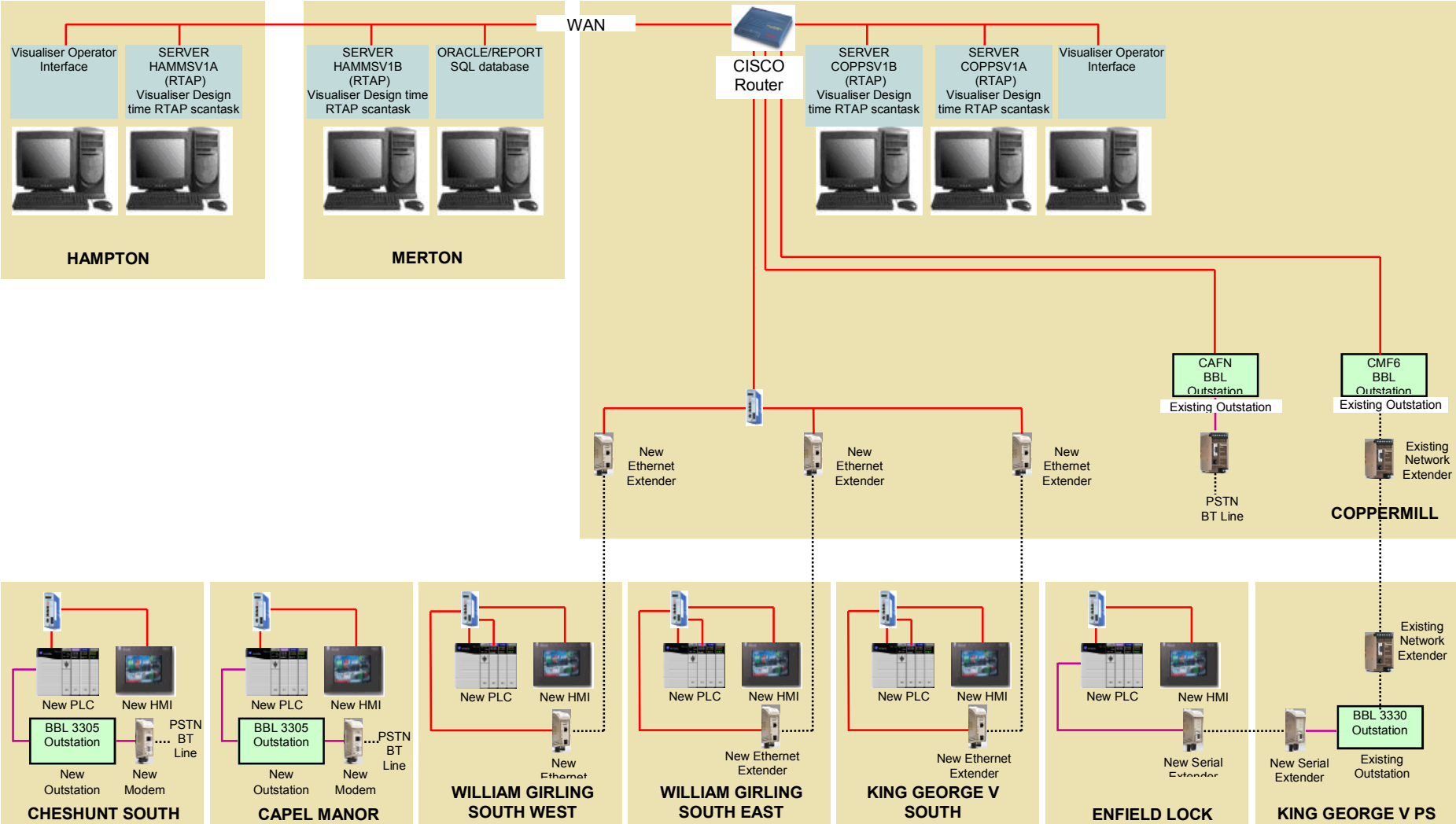


No. GB4311



No. GB11318

NLARS Packages A & B



Key:

- Cat 5 Ethernet
- DF1 Link
- Dual ControlNet
- Private Wire SHDSL Link
- Westermo Ethernet Extender
- Westermo RS232/485 Extender
- Westermo PSTN Modems (TD35/TDW33)
- Allen-Bradley ControlLogix PLC / I/O Racks
- Industrial Ethernet Switches (MICE/Spider)
- HMI