

Wolverhampton LRT

Light Rapid Transit (LRT) solution with PTC-1® Demonstrating the flexibility of proven technology



Background

Linking two of the West Midlands' major cities, Birmingham and Wolverhampton, is a 20.4 mile Light Rapid Transit (LRT) tram route. With Government initiatives continuing to push the importance of green travel modes, coupled with a drive to continually develop an effective transport infrastructure, improving the overall efficiency of public transport remains a key focus.

For the service in question to remain environmentally and economically efficient, the management and control systems in place needed to be as effective as possible. Long delays and signalling issues not only have a time implication but also an economic and environmental cost.

The previous junction control systems were proving unreliable and Wolverhampton City Council looked to Dynniq for an improved solution.

Solution

The Peek PTC-1 family of controllers offers a flexible solution to traditional road traffic junctions and had previously been successfully trialled on this LRT route. Using this experience, our technical specialists were able to configure the controller to meet the requirements of the Client, whilst also meeting the detailed requirements of the tram industry.

Real-time fault reporting and junction manipulation is of paramount importance at pedestrian and tram interfaces. This has been catered for by combining the PTC-1 with our intelligent Chameleon® Outstation; capable of monitoring 32 inputs and 32 outputs, the Peek Chameleon is suitable for many applications including the needs of this LRT project.

The Chameleon communicates using either IP communications or traditional hardwired networks and once connected to the PTC-1 Central Processor Unit enables remote interrogation and overriding command of the controller itself, should the need arise.

Outcome

The reliability and robustness of this proven technology ensures the smooth flow of traffic on and around the LRT line. The complex mode of control required by tram systems was facilitated by using the existing PTC-1 capability, coupled with the use of a site specific LRT configuration, which runs alongside the traffic and pedestrian configuration.

The users of the LRT network and those using the adjacent road network are now benefitting from the improved service.

Working collaboratively with Dynniq, Wolverhampton City Council has a reliable and future proof controller that can be monitored and maintained alongside their other "traditional" traffic controllers.



"I was more than happy with the service and solution Dynniq has supplied. The PTC-1 is a known product to us in its 'traditional' mode so we know it to be reliable. We are particularly impressed with the user interface which enables us to easily monitor and manipulate the [LRT] site when needed."

Bob Willis
Service Manager, Wolverhampton City Council



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