

## THE EFFECT OF SPEED SUPERVISION ON TRAIN RUNNING PERFORMANCE - PART 1: DIVERGING JUNCTIONS

The application of speed supervision to junction signalling by means of an automatic train protection (ATP) system with intermittent communication affects the performance of trains passing over the junction. A theoretical investigation has been undertaken to quantify the effect of speed supervision on the performance of a single train, resulting from the type of system and the signalling layout and design only. The influence of other trains is disregarded.

Depending on the system used, the effect on the performance of an individual train varies from nothing to a delay of up to 40 seconds for a single movement over a junction.