

## **Willem De Bruyn**

**Passenger Rail Agency of South Africa, Johannesburg, South Africa**



### **Speaker Qualifications**

Willem De Bruyn, an employee of the PRASA, is currently busy with a Research Project at the Vaal University of Technology, as part of completing a MAGISTER TECHNOLOGIAE (M.Tech): Information Technology. The speaker has 10 years experience in ICT within the Commuter Rail environment and conceptualised the “Integrated Communications System” – ICS in 2002 within the South African Commuter Rail Environment.

The speaker presented previously at the “e Transport Conference and Exhibition” held in March 2009 at the Sandton Convention Center in Johannesburg, South Africa, hosted by ITS-SA “Intelligent Transport Society South Africa”.

### **Real Time Passenger Information Through an Integrated Communications System (ICS) as Part of the Preparation for the FIFA Soccer World Cup 2010**

The presentation covers, at a high level, the architecture and design of a system that is currently being implemented within the PRASA Operation environment at more than 40 Commuter Rail Stations in South Africa, as part of preparations for the FIFA SOCCER WORLD CUP 2010™. This system is aimed at delivering Real Time information to commuters (and potential commuters) with regards to Train Schedules (Both Commuter Rail as well as Long Distance / Inter City). This information is communicated through platforms such as Automated Public Address as well as Passenger Information Display Boards at selected train stations throughout the country. The system is also able to provide information to websites and Bulk Short Message System subscription services. The system relies on input from a system that produces planned time tables, considering maintenance schedules and other incidents that may cause delays and cancellations. Furthermore, the system calculates train arrivals by comparing actual train movement data, collected from the Signalling systems, with the planned time table. Based on these outcomes, trains are being announced as on-time, delayed or cancelled. Next phases of the system aims at, amongst other functionality, the integration Bus Schedules as well as a module to produce projections on the impact 1 or more incidents on the overall planned service. The system also provides the means of measuring Operational Performance, as it is experienced by the commuter.

Real time transmission of Telemetry Data from Rolling Stock; Building Management; Intelligent Video Surveillance and Provision of Operational Data and Statistics to Operations Centers can be discussed.