



ICT on Trains

9-10 October 2013

Speakers Profiles

Panel 1 - Railway ICT in standardisation

Moderator: Gianosvaldo Fadin

Gianosvaldo Fadin - ANIE

In 1990 Mr. Fadin co-founded an SME - F.A.R. Systems, designing and manufacturing automation equipment. On July 1999 he was elected CEO of the Transport and Telecommunication division of F.A.R. Systems. Since 1987 he is a Member of the Italian Electrotechnical Committee and International Electrotechnical Commission. Since 2000 he was the Project Leader of a series of Research Projects funded by the European Community in the Railway area such as: TRAINCOM, EUROMAIN, MODTRAIN and InteGRail. Since 2007 he is cooperating with CEN for the harmonisation of the TELEMATIC standards relevant to road vehicles. Since 2011 he is chairing the CEI CT9, the Italian Railway Standardisation Committee. In 2012 he left F.A.R. Systems and took the responsibility of Technical Advisor of ANIE Assifer, the Association of the Italian Railway Industries.

Paolo Umiliacchi - CNC

Paolo Umiliacchi started his career at Marconi Foundation, near Bologna, working into applied research related to electronics and information technologies. Very soon his job included working in railway research, at national level with the National Research Council. In 1990 started working in the railway standardisation field, being involved in working groups of IEC and later also CENELEC. In 1996 he started working in European railway research projects, like ROSIN, TrainCom, EuRoMain and InteGRail. Since 1984, he co-founded the company CNC, where he currently has the position of CEO. Since October 2013 he is also a CENELEC consultant for Rail interoperability.

Andrea Gatti - TRENITALIA

I'm working for the Italian Railways, actually Trenitalia spa, since 1978. I moved to the Technical and Research Division of Rolling Stock in 1981. I was member of the CEN TC9X WG22 SGA (Sub Group Application) related to IEC 61375. I participated to some EU research projects like ROSIN (Railway Open System Interconnection Network), Traincom and Euromain. I am member of several Technical Committees of the IEC TC9: the WG43 of the IEC61357 series, the WG46 Onboard Multimedia Systems for Railway, and the WG48 IEC62625- On board Driving Information System. Member of the CENELEC TC9X WG11 EN50467 Energy Metering on Locomotive and SC9XB WG29 EN50155 Railways Applications Electronic Equipment Used on Rolling Stock.

Armin Hagen Weiss – BOMBARDIER TRANSPORTATION

Armin-Hagen Weiss works in Transportation as senior expert for train control and management systems. He studied until 1988 at the Technical University of Dresden automation techniques. In the first two years of his professional live he was engaged in the development of CPU emulators and automatic test equipment in the Institute of Train Techniques in Berlin. Since 1990 he works in the rail industry. During this time he was in different positions responsible for the development of onboard train control and management systems especially for the parts of diagnostics and communication. In the last years he was actively working in different European projects in the field of train control and communication like ModTrain and InteGRail as well as in the standardisation within IEC TC9 WG43/46 and UNISIG.

Benoit Bienfait - ALSTOM

Benoît BIENFAIT has 27 years experience in the field of Railway Transport Systems. He has an extensive and interdisciplinary knowledge in conventional signalling, Solid State Interlocking, Automatic Train Protection, Automatic Train Operation, Traffic Management Systems. Since many years, he is involved in ERTMS development. He is now System Manager in charge of developing the ALSTOM solution for ATO over ETCS. He is also leading the UNISIG work group which is now defining the interoperability standard for ATO over ETCS.

Carine Marin – NETWORK RAIL

Carine has been working for the ERTMS National Programme since 2007 and has nearly 20 years international experience in both supply and client side of the engineering industry working in various roles from project management to system engineering. She has extensive knowledge of working with ERTMS and ATO systems, from writing the specifications and remits for deployment, to helping manage successful trials of the systems. Carine has managed the development of the concept of operations and technical specifications for an interoperable ATO over ERTMS on behalf of ERTMS Users' Group.



Panel 2 - Railway ICT in regulations

Moderator: Angelo Chiappini

Angelo Chiappini - ERA

I have worked several years in the field of railway signalling. My activities included design and installation of equipment (for example track circuits) and participation in different standardisation groups in CENELEC. I have been involved in the development of ETCS since the beginning, especially the overall functional specifications and the radio communication protocols.

I was UNIFE speaker in the AEIF group that drafted the first Control-command and Signalling TSI.

Since 2006 I have been working at the European Railway Agency.

Begoña Domingo - ERA

I have worked several years in the field of radio communication and railway signalling. My activities started in a multinational telecom supplier, in different areas of technology, mainly focusing on wireless communication, in particular in GSM-R. I have been part of the team putting in service the ERTMS Level 1 and 2 lines in Spain, and in the development team for the security processes to fulfil the ERTMS requirements. Since 2011 I have been working at the European Railway Agency in the ERTMS Unit.

Bart Van der Spiegel – INFRABEL

Bart Van der Spiegel graduated in 1991 at the University of Ghent as Electrical Engineer. He immediately started in Belgian railways. In 2005 he became responsible for a new office Energy Management. This office manages commodities as electricity and gas inside Infrabel. He is active in different international working groups regarding on-board energy metering, settlement of energy data and eco-driving. He is member of the board of Eress, the joint European settlement solution. He is also chairman of the UIC Energy Efficiency and CO2 Network.

John Stafford - RSSB

JOHN STAFFORD works in the GB rail industry as a Control-Command & Signalling engineer.

He studied BSc.(Hons) Electrical and Electronic Engineering at DeMontfort University and MSc.(Eng) Railway Systems Engineering and Integration at Birmingham University.

Since joining RSSB in 2006 he has been involved in developing GB railway operational telecommunications standards and associated standards activities with IEC, CEN and UIC.

During this time he has also acted as a technical expert for radio systems, information communication technologies, train location sensors and data protocols.

In the last few years he was actively working on a GB strategy for a 30 year Operational Communications programme of work to develop an effective strategy that supports rail innovation and contributed to the RTS 2012.

Luigi Caccamo - ITALCERTIFER

Luigi Caccamo has over ten years of experience in the field of safety assessment. During the last years, in the role of CCS On-Board Functional Area coordinator, he has been involved in dozens of authorization processes for on board ICT products, including safety systems, trainborne recorders, cab-radios, energy meters, fire units and so on.

Davide Quatrini - ITALCERTIFER

Davide Quatrini works for the Italcertifer spa CCS On-Board Functional Area since 2008. Actually he is employed in the assessment of on board advanced and complex electronic devices, with a particular focus on satellite technologies.



Panel 3 - Railway ICT in research and innovation

Moderatore: Massimo Marianeschi

Massimo Marianeschi – UNIFE – General Manager

Massimo M. Marianeschi is General Manager at UNIFE (the European Rail Industry Association) since 2012.

Before joining UNIFE he was Head of the Certification and Safety Department at AnsaldoBreda SpA (Finmeccanica group) in Pistoia (Italy).

He started his carrier at Aermacchi SpA as project leader for jet trainer aircrafts, then he held different technical and managerial positions in 33 years of career in the Aeronautical, Telecommunications and Rail fields, dealing with international project management, project engineering and product certification matters.

He is Doctor in Mechanical Engineering (University of Rome) and author of papers and publications related to project management, project engineering and product certification topics.

When he is not in Brussels he lives in the Tuscany countryside with his wife and two sons.

Valeria Baglione – D'Appolonia

Valeria Baglione graduated in Computer Science Engineering in 2006 at the University of Genoa, Italy, and joined D'Appolonia the same year. She has been and is now involved in several technical activities and projects in FP6 and FP7, e.g. Railenergy, aiming at implementing new technologies to reduce energy consumption in the railways system, and other projects relevant to energy efficiency in the railways domain, such as the definition of the specifications of an Energy Management Information System for the Serbian Railways and the Energy Efficiency Action Plan in the Rail Sector in Montenegro.

Stefano Milanese - ATM

Stefano Milanese is a Civil Engineer – transportation system infrastructure area - He has been working for ATM all over the world for 26 years mainly as a project engineer, project manager, head of unit, and expert consultant also for World Bank. Within European projects he had been cooperating with RATP as "expertise" in development for TPL accessibility and now as Risk Assessment and Business Continuity Expertise. He is working in Eumass, Secur Ed, Securestation, SAVASA, Smartciber EU project.

Clive Roberts – University of Birmingham

Clive is Professor of Railway Systems and Director for Railway Research for the Birmingham Centre for Railway Research and Education at the University of Birmingham. He heads a team of 12 research staff and 24 PhD students working on a broad portfolio of research aimed at improving the performance of railway systems. His main research interests lie in the areas of railway traffic management, condition monitoring, data management, energy efficiency and system integration.

Andy German - HELIOS

Andy German is a senior consultant at Farnborough (UK) based Helios, a management and technical consultancy working in the transport and technology domains, including air traffic management, airports, space, telecoms, rail, maritime and defence. In January 2013, Helios joined Egis, an international engineering and infrastructure group based in Paris. Andy brings 20 years of engineering experience in public and private sector organisations, with a strong focus on satellite applications, and most recently has been working on the Train Location Strategy for GB's Rail Safety and Standards Board (RSSB) while completing an MBA.

Steve Dennis – PARSONS - Technical Director

Steve Dennis is a system specialist with very strong communication and analytical abilities. He has 30 years experience on major projects in the defence and railway sectors, the last 20 years in railways. Recent experience includes providing support to Danish ERTMS level 2 national signalling upgrade and the Dubai Metro project. Stephen currently holds the position of DfT Rail researcher with responsibility for signalling and communications. He has been responsible for a series of research activities for the DfT and RSSB looking at value for money, capacity and technical feasibility issues relating to signaling, train control and related communications systems.



Panel 4 - Railway ICT applications state of art – Part 1

Moderator: Bart Van der Spiegel

Ivano Bresaola – SAIRA ELECTRONICS

R&D Manager and expert on on board energy measurement systems at Saira Electronics (previously FAR Systems). Since the early 2006 he was involved on energy metering: first as device designer, and than as system engineer. From 2009 to 2011 he was in charge of the technical support for the UK market, following all the Energy Metering projects in the UK. As project manager, he was following all the European energy metering projects for Saira Electronics. He is now in charge of the R&D department.

Arnaud Girard - Mors Smitt France (WABTEC Subsidiary) – Innovation Manager

Arnaud GIRARD is a specialist in electronic design. He has 15 years experience on major projects in the automotive and railway sectors.

Recent experience includes the design of electronic transducers for Energy measurement in rolling stock applications. Previously in charge of Electronic Design, Arnaud GIRARD is now leading Innovation. A large part of his activity is related to the deployment of communication on train.

Harald Jony - ÖBB-Infrastruktur AG

Since 2009 Harald Jony is Director of Sales of the energy department at the Austrian Infrastructure Manager (ÖBB-Infrastruktur AG) and has been active in the railway sector since 2003. He is responsible for the sales, settlement/billing and metering part of energy in Austria and he is responsible for metering and energy services in an international context especially CEE. Also for the energy saving project of ÖBB and the energy supply of sites.

Bjørn Lysne – ERESS - International Relations Manager

Bjørn has 18 years of experience of downstream business development and operation in a liberalized electricity market, in companies like Vattenfall, Bergen Energi and Shell. Since 2007 he has been working in the energy department of the Norwegian railway infrastructure manager, with focus on both domestic energy markets and the international cooperation ERESS as International Relations Manager. This has also included active participation in EU standardization and regulation through Cenelec, ERA and in cooperation with DGs. Bjørn is an economist and engineer, with solid experience in sales, marketing and international work.

Ian Papworth – TTG Technology Europe

Ian is a Chartered Engineer, has an MBA and 20 plus years Director level experience with-in the car component supply industry, embracing, Manufacturing, Projects, Commercial and Human Relations functions, before joining the Rail sector in 2001.

These Rail positions over 12 years, have included being Fleet Director for various Train Operating Companies (TOCs) and being the Engineering Director of the Association of Train Operating Companies (ATOC), where he lead a small team to represent the interests of both TOCs and FOCs.

Ian joined TTG in 2009, where he is an Associate Director. He has used his experience and knowledge to help support client understanding of Driver Advisory Systems, the wider business benefits of DAS, its deployment now and preparation for future developments, such as Traffic Management Systems.

Mads Bergendorff - CUBRIS

Mads Bergendorff started his career as environment engineer in the Danish Railways (DSB) in 1995. He has worked extensively with energy and environment topics especially for procurement of rolling stock. In 2001 he was seconded to the UIC to work with international coordination of environment and energy strategic and technical projects in the railway sector. Since 2006 he has worked as independent consultant in his company Macroplan Consulting. He was a vital part of the core team in the development and management of the integrated FP6 R&D project "Railenergy" (2006-2010). Since 2012 he has joined Cubris as energy expert and customer relationships manager.

Per Leander - TRANSRAIL

Per is the founder and general manager of the Swedish consulting and IT-product company Transrail. He started his railway career in 1976 at ASEA Traction (today Bombardier Sweden) on rolling stock, traction and systems development. Per was manager of the engineering unit of the Swedish State Railways in 1987-95, during which period he carried out extensive activities on international technical cooperation and standardisation. Within Transrail, Per has of course been involved in most of the work of the company including development of the CATO product.

Michal Pavel – AZD Praha

Michal Pavel graduated at the Czech Technical University in Prague in 1984, obtaining Dipl. Eng. degree in physical electronics. Since then he worked in a number of engineering and management functions. He started as a Project engineer in the field of automatic test systems for large scale integrated circuits. Later he was engaged as a Project manager and team leader for a number of R&D projects for precise measurement, data acquisition and medical electronics. Since 1995 he managed a development department of transmission systems at TTC TESLA TELECOMMUNICATIONS company and since 2003 he works for AZD Praha as an electronics expert, sector manager and later chief researcher for railway signalling systems. He has authored and co-authored several patents and published many papers dealing with advanced control, signalling, test and measurement technology.



Aleš Lieskovský – AZD Praha

Graduated in 1987 at the University of Transport and Communications in Žilina, Electrotechnical Faculty, Department of Electric Traction and Energetics. He finished his PhD studies in 1995 at The University of Žilina, obtaining Dr. degree. He worked in Railway Research Institute as a research worker and as a leader of the Department of Railway Traction Technology pursuing the railway vehicle control automation. In 1996 his team was taken over by AŽD Praha, continuing his work in railway automation systems and extending it also for Metro (underground), and vehicle diagnostic and information systems. He also participated in the ETCS Pilot Project in the Czech republic as an on-board system installation coordinator. He has published many papers dealing with railway vehicle automation, diagnostics and communication and with ETCS-ATO cooperation.

Panel 4 - Railway ICT applications state of art – Part 2

Moderator: Ian Papworth

Presentation FERST/ALMAVIVA + SADEL

Gabriella Perrotta - ALMAVIVA

Manager of ALMAVIVA, she will speak about Ground applications and On Board services

Davide Amato - SADEL

Manager of SADEL, responsible for several products (OBoE, DOVE6, SAX3n*_VoIP, NB3n*, ECCOTI, D6_MOVIE, POS3n, ...), he will speak about on board technologies and their evolution

Jeremy Dell'Omo - MOXA

Jeremy Dell'Omo is MOXA Key Account Manager for Railway in Europe.

Lars Jaeger - MOXA

Lars Jaeger is responsible for MOXA wireless products and Railway Business Development.

Mauro Barella – VDS – Software Architect

Mauro Barella has more than 30 years experience in UNIX and UNIX-like operating systems, networking protocols and embedded systems design. Recent interests include specialized and innovative railway networking devices.

Fabio Narteni – BOMBARDIER TRANSPORTATION

Fabio Narteni is the technical responsible of the team developing the Telediagnostica system. He graduated in software engineering at University of Genoa in 2001. He worked as academic researcher till 2003 when joined Bombardier Transportation. Fabio's main expertise is on IP and field bus communications, network protocols and software development for embedded systems. He is recognized in Bombardier as technical expert for train to wayside communication (T2W) and networking.

Currently he is leading the technical area "T2W, Diagnostic and Networking" in the Train Control and Information System (TCIS) department in Vado Ligure. He is member of CENELEC TC9X WG15-02 working group.

Guido Del Gobbo - BOMBARDIER TRANSPORTATION

Guido del Gobbo is the technical leader of the Telediagnostica project.

As department head he manages a team of engineers working primarily in the technological upgrading of the railway's fleet

He graduated in Electronic Engineering at the University of Genoa in 1998 and worked for ten years as a consultant for technological innovation in railways until 2008, when he joined Bombardier Transportation Services Division.

In February 2012 he published an article in the "Ingegneria Ferroviaria" journal related to the Telediagnostica System entitled "The Telediagnostica System for Trenitalia E464 and E405 fleets".