UNIFE

UNIFE represents the European Rail Industry in Brussels since 1992. The Association gathers around 80 of Europe’s leading large and medium-sized rail supply companies active in the design, manufacture, maintenance and refurbishment of rail transport systems, subsystems and related equipment. UNIFE also brings together 14 national rail industry associations of European countries. UNIFE members have an 84% market share in Europe and supply 46% of the worldwide production of rail equipment and services.

IRIS

IRIS (International Railway Industry Standard) Certification™ promotes high quality throughout the rail supply industry through the implementation of a global system for the evaluation of companies supplying the rail industry.

IRIS aims to improve the quality and the reliability of the rail products, to implement and further develop a global system for the evaluation of companies supplying the rail sector, and to instill a culture of quality throughout the sector.

With more than 1300 companies IRIS-certified worldwide, the standard is now an international seal of quality, increasingly recognised by rail operators and manufacturers alike. The IRIS scheme was developed by UNIFE members and managed by the IRIS Management Centre under UNIFE responsibility.
Dear reader,

InnoTrans is generally the major global event each two years for the rail sector. Our industry will meet its customers, regulators and service providers and will show its last innovation but also the best achievements.

UNIFE will naturally be present and our booth will be the place where the topics of the moment will be discussed.

It will be the occasion to celebrate the 10th anniversary of our Quality scheme: IRIS. Further to the achievement of the last decade, we will have a large view on the future of IRIS and the quality evolutions in the rail sector. Focused on the development of a dedicated culture of quality and a transparent way of working to achieve the expectations of our customers, the industry will have now to show performance. IRIS is becoming officially global by joining the ISO tool box, thus this revision expected mid of next year will be enhanced by a much deeper assessment of the organisation delivering to the operators.

You will therefore find in this edition of the Rail Journal a detailed transition scheme for the certified companies and we expect all of you being ready for the next step of IRIS. Quality management is a never ending story as our market evolves and we have to adapt to always deliver our best. I’m convinced that the industry is embracing this challenge.

I wish all of you, a good InnoTrans 2016 fair and a fruitful reading.

With best regards,

Philippe Citroën
UNIFE Director General
First MoU on IRIS signed with public transport operator FMB

UNIFE, gathered new support of railway operators for IRIS with the first signature of a MoU on IRIS with a public transport operator, Ferrocarril Metropolità de Barcelona (FMB). The signing took place on 25 July at the FMB headquarters in Barcelona, with Marc Grau (Metro Network Director) representing FMB and Philippe Citroën (UNIFE Director General) representing UNIFE.

The MoU highlights the commitment of the signatories on the necessity of using the IRIS standard to reach sustainable improvements in rail organisations. It stipulates a number of areas of cooperation between UNIFE and FMB on IRIS, but in particular on the maintenance processes and the development and dissemination of an IRIS scheme within the global supply chain. It will establish clear standards of quality requirements and ensure that customer specific needs are reached in terms of product quality.

IRIS evolution acknowledged by the boards

In line with the developments set out in the IRIS strategy last year, the IRIS Steering Committee and IRIS Advisory Board approved the concepts for further improvements in the assessment methodology (considering customer and market needs), and the related impact on the certification process, during the board meetings held in St Petersburg and hosted by the Russian operator RZD. The UNIFE-IRIS working group and the IMC will now work out the detailed contents and launch the improvements, together with the requirements, which will be published in an external document. This follows the decisions taken at the ISO/TC 269 plenary meeting in Porto, where it was:
- Approved to transform IRIS to an ISO/TS
- Approved to have an ISO publication date of no later than May 2017

Development of the IRIS Standard in the Russian Federation

JSC Russian Railway, RZD, organised an IRIS conference at its premises in St. Petersburg on July 6th 2016, with the participation of the IRIS Advisory Board members. The conference focused on the results of the implementation of the IRIS Standard in the period 2009 – 2015 and the further development perspective till 2020.

Several testimonies were exchanged between operators, the industry and certification bodies.

To complement the conference, the members visited the Luzhskaya sorting station of Oktyabrskaya Railroad. As the gateway to the Merchant Sea Port of Ust-Luga, Luzhskaya sorting station is one of the biggest transport projects in Russia for the last twenty years, implemented by JSC “Russian Railways” in cooperation with Siemens AG and Bombardier Transportation. The visit of the control centre of the marshalling area was highly instructive.

InnoTrans 2016

20-23 September, in Berlin (Germany)
Visit us at the UNIFE stand - Hall 4.2, Stand 302

Wednesday 21:
16:30 – IRIS achievements & the future with ISO
17:15 – The voice of the customer
17:30 – Cocktail for IRIS’ 10th Anniversary

Thursday 22:
15:30 – IRIS’ technical evolutions & rules
Following the strategic decision from the UNIFE Presiding Board to evolve IRIS to an ISO Standard, in the past months several activities were launched to achieve this target over the past few months.

The new IRIS Standard version 2016 (former chapter 3 Requirements of the IRIS rev. 02.1 updated with ISO 9001:2015 and last elements of rail specific state of art) has being handed over to ISO to become an ISO/TS. This is the document which will go through the ISO administrative steps in the next months.

On 22 June, the ISO TC 269 Plenary was held in Porto, Portugal during which reports from several working groups were disseminated and next steps defined. During the meeting of this plenary, the following items related to IRIS certification were approved:
- Approval to transform IRIS to an ISO/TS
- Approval to have an ISO publication date of no later than May 2017 (the next actions revolve around ISO administrative steps which will be completed before May 2017)

The certification process and assessment methodology (chapter 1 Certification process and chapter 2 Assessment Guideline of the IRIS rev. 02.1) will evolve accordingly and will be still managed by UNIFE.

The IRIS rev.02.1 will remain valid for the next few years in line with the ISO/TS transition phase and that means that all IRIS audits (certification, surveillance and re-certification) can be performed according the current rules.

All organisations currently certified according to IRIS rev. 02 have to successfully make the transition by 14 September 2018. Consequently, all IRIS certificates having a validity after 14 September, 2018 will expire at this date, independent if a later date is stated on the certificate document.

The transition process defined by UNIFE, includes the following steps:
1. Transition audit (readiness review and certification audit)
2. Nonconformity management
3. Certificate issuance

IRIS certified organisations have the freedom to decide the right moment for the transition, according to the outlined options:
Nonconformity management
The management and closure of the nonconformities are according to the updated IRIS rules.

Certificate issuance
Upon successful completion of the transition process the organisation shall be issued a new IRIS certificate with a three (3) year minus one (1) day validity period and respecting the rules for the reference date. A new certificate and audit cycle shall then commence.
Upgrade from another standard to the new ISO/TS

As per today, the upgrade from another standard to the new ISO/TS will be possible.

- Upgrade from other standards will be allowed only from ISO 9001:2015, AS 9100:2016, IATF 16949:2016 and IRIS rev.02.
- The number of audit days will be defined in the updated IRIS rules.
- The certification body shall be the same.
- The audit day reduction shall not be applied and 100% of the required audit days for the certification audit shall be applied as defined within the IRIS rules, when
  - the organisation scope is expanded
  - a certified organisation transfers to a new certification body
  - upgrading from not revised other standards

### New ISO/TS transition timeline

Following overview of the key dates is based on the ISO/TC269 decision from June 2016.

<table>
<thead>
<tr>
<th>Existing certification(s) current status</th>
<th>Conditions for upgrade to the new ISO/TS</th>
</tr>
</thead>
<tbody>
<tr>
<td>ISO 9001:2015</td>
<td>Reduction from total IRIS auditor days for certification audit</td>
</tr>
<tr>
<td>AS 9100:2016 and/or IATF 16949:2016</td>
<td>Maximum 20%</td>
</tr>
<tr>
<td>IRIS rev. 02</td>
<td>Maximum 30%</td>
</tr>
<tr>
<td>x</td>
<td>Maximum 30%</td>
</tr>
<tr>
<td>x</td>
<td>As a minimum the TOTAL IRIS auditor days for re-certification audit</td>
</tr>
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### New ISO/TS transition timeline

Following overview of the key dates is based on the ISO/TC269 decision from June 2016.

- Preparation phase
  - MAY 2017: New ISO/TS launched
  - IRIS certification and assessment rules launched
- Transition phase
  - START OF TRANSITION PHASE: Certification audit acc. new ISO/TS
  - DEC 2017: END OF TRANSITION PHASE
  - END 14 SEPTEMBER 2018

**Certification audit acc. IRIS rev.02**

**Re-certification and Surveillance audit acc. IRIS rev.02**
Application examples
The following examples show the options for the transition process for real situations.

Example 1
Certification audit: 10 - 12 December 2011
Reference date: 12 December 2011
Current Certificate validity: 12 December 2014 - 11 December 2017

<table>
<thead>
<tr>
<th>Option 1</th>
<th>Option 2</th>
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<table>
<thead>
<tr>
<th>2017 - Transition audit (Readiness Review and Certification audit)</th>
<th>2017 - Transition audit (Readiness Review and Certification audit)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2017: Transition audit September 2017 latest 90 days before reference date</td>
<td>IRIS certificate Validity: 12/12/2017 - 11/12/2020</td>
</tr>
<tr>
<td>2018: Transition audit June latest 90 days before 14/09/2018</td>
<td>IRIS certificate Validity: June/2018 - 11/12/2021</td>
</tr>
</tbody>
</table>

Example 2
Certification audit: 4 - 8 March 2015
Reference date: 8 March 2015
Current Certificate validity: 3 May 2015 - 7 March 2018

<table>
<thead>
<tr>
<th>Option 1</th>
<th>Option 2</th>
</tr>
</thead>
</table>

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<tr>
<th>2017 - Transition audit (Readiness Review and Certification audit)</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Transition not possible 2017: Surveillance audit acc. IRIS rev.02</td>
<td>IRIS rev.02 certificate Validity: 03/05/2015 - 07/03/2018</td>
</tr>
<tr>
<td>Transition audit: December 2017 latest 90 days before reference date</td>
<td>IRIS certificate Validity: 08/03/2018 - 07/03/2021</td>
</tr>
</tbody>
</table>

The certification bodies will get all information to help their customers and IMC will support for any question.

Any further evolution of the timeline will be communicated in due time to the stakeholders via the IRIS Portal.
The Frequently Ask Questions (FAQ) section of the IRIS Portal can also be visited.

Contact: info@iris-rail.org
On 22 June, during the UNIFE General Assembly, 11 new members joined the association. Among them, 21Net, Teleste and MEN Holding are IRIS certified. They share with us how being part of UNIFE and being IRIS certified, add of value to their companies and businesses.

21Net

Mr Philippe Catherine, President

21Net provides the industry’s most reliable and cost-effective on-board connectivity and infotainment solution and is trusted by the leading transit operators and manufacturers across the globe including SNCF, NTV, Eurotunnel, CAF, UTA and Indian Rail. Founded in 2002, 21Net is headquartered in Belgium with offices in France, England, Italy and India.

Our vendor-agnostic solution has a highly-flexible open architecture and is the only of its kind in the industry with the ability to aggregate all available backhaul including Wi-Fi, cellular, trackside or satellite, to deliver unparalleled performance and reliability. 21Net’s system is continuously and proactively monitored and managed by 21Net’s secure Network Operations Centre (NOC) to ensure system integrity and high availability.

21Net’s comprehensive telematics solution combines state-of-the-art on-board equipment, secure off-board infrastructure and innovative software, enabling transit operators to deliver the seamless and reliable high-speed, high-quality connectivity that today’s travellers have come to expect during their journey.

After following UNIFE’s activities for several years, 21Net considered that 2016 was the right time to join the association and contribute to UNIFE activities, committees and working groups.

In 2013, 21Net intensely focused on the IRIS certification approach by deploying all necessary resources to achieve certification which was successfully obtained in 2014. Being IRIS certified is a prerequisite to our business, allowing easier access to the market. Furthermore, a quality system enables improvement to company performance, growth and production process. Quality is an initial cost that guarantees future savings. Indeed, providing quality products that are sustainable in the long-term, is favourable to continuous and long-term customer relationships. Last but not least, Quality system is a key stone of a global Management of the Company, paving the way to Excellence in all aspects of the Company.

Looking toward the switch from IRIS to an ISO/TS standard, 21Net is confident about this evolution. Regarding the audit evaluation system, there will be some new aspects to take into consideration and others to be deleted, but we don’t expect major changes for 21Net. This evolution will not present a major challenge for us and we must only adapt a few things to conform to the new scheme. We only hope that this switch to ISO will not burden the process and that the certification will stay accessible to SMEs, as is currently the case.
Teleste, an international technology group specialised in broadband video and data communications systems and services, has over a decade of experience with video security solutions in the railway industry. In 2015 Teleste acquired Mitron Oy, a Finnish provider of public transportation information systems and modern display solutions. The acquisition was based on Teleste’s strategy to become one of the leading suppliers of modular video security and information solutions for the rail market.

Our membership in UNIFE supports our networking and industry association efforts, and gives additional insight into our standardisation processes. As many of our customers within the rail industry are already members of UNIFE, we are looking forward to new collaboration possibilities within the membership. We also see great value in UNIFE being active in providing input to different standardisation bodies and having a strong focus on digitalisation.

Both Teleste and Mitron have been granted an IRIS certificate, and after joining our forces, we have further strengthened our compliance in providing high standard solutions specified for the needs of the rail industry. The IRIS certification is required by many of our customers, and it includes several quality control processes and procedures important for the industry, such as Life Cycle Management and RAMS. Overall, IRIS makes a strong and valuable statement to our customers that our processes and way of working are of high quality.

We believe that the evolution of IRIS towards the ISO/TS standard will bring even more value to the process. Also, it will make it easier to implement and maintain IRIS for companies like Teleste which are also ISO certified. By continuously streamlining and verifying of our processes, we will ensure high quality products, services and solutions that meet the rail industry’s requirements. In addition, we have adopted an end-to-end approach to solutions development that aims at helping our new and existing customers to increase operational efficiency and optimise their systems in a reliable and future-proof manner.

Our end-to-end solution for the rail industry, called Teleste Rail, covers passenger information and video security solutions for rail cars and stations, wireless data transfer technologies, as well as professional services. It is designed for accurate and timely information delivery as well as rapid and correct situational awareness and taking action throughout the rail ecosystem. It also enables seamless integration of all included systems, devices and applications under an easy-to-use management platform.

Teleste Rail has a modular structure which makes it a competitive option for new designs as well as renovation projects, and allows full adaptation to customer and project-specified requirements. It can include various systems for video management and surveillance, passenger information, infotainment and entertainment, passenger counting, and train management, to name but a few. It also supports high-capacity wireless connectivity between rail cars and stations.
Since 1982 MEN has focused on the development, production and testing of innovative and reliable standard and custom high-tech computers. We provide embedded systems and boards for extreme environments and safety-critical applications found in “Rail-Road-Air-Sea” transportation and industrial markets.

Embedded computing solutions from MEN Mikro Elektronik are designed, produced and qualified for rugged and/or safety-critical applications in railways and public transportation, avionics, heavy vehicles, ships, medical engineering and industrial automation. Especially in these markets, highly reliable products and excellent quality in development and production are a major competitive advantage and a strategic factor of success.

At MEN, we think that it is time to get involved with the discussions and workshops around the deployment of digital technology in the railway sector that is based on open standards. MEN is specifically interested in providing computing solutions to suppliers, train manufacturers and operators that keep the global railway market competitive in the future. UNIFE’s “Digitalisation Platform” has a lot of sub-topics which MEN has in-depth experience with, e.g. infotainment and other service solutions for customers, communication computers and on-board safety architectures, monitoring, diagnosis and maintenance solutions – as well as the whole ERTMS/ETCS and signaling topic.

Having been a supplier to the railway market since 1996, MEN received the IRIS certification from the DQS (German corporation for the certification of management systems) in early 2009. With a growing number of train manufacturers and other market players associated with IRIS, it became mandatory for subcontractors like MEN to comply with this standard as well.

The objective of a market-specific quality management system like IRIS for a company like MEN is to assure and continuously improve quality standards, focusing on meeting the customer requirements and increasing customer satisfaction. In a number of re-audits and outstanding ratings MEN has proven consistent application of the IRIS norms from development to production up to the after-sales support until the end of product life cycle. The results are high-quality products, which are the basis for minimising failures or dangerous situations in the final application. Meeting the required standards is also a prerequisite for a smooth workflow in the project management of the final user, making it easier for the user to obtain project approvals from authorities.

Furthermore, IRIS has shown us the way towards a holistic consideration of the company from the point of view of the EFQM Business Excellence Model in combination with a well-introduced LEAN management throughout the company.

Regarding the transition from IRIS to an ISO-TS standard, MEN fully relies on the company-own quality manager Efstratios Petrellis, who is a certified IRIS, EN 9100 (aerospace) and ISO 9001 auditor. The next step at MEN will be the analysis of the existing quality management systems EN 9100 and ISO 9001, followed by the analysis of the differences with respect to the new IRIS standard. Those different requirements will then be systematically implemented into the processes and workflows at MEN.