IRIS’ technical evolutions & future with ISO

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For a worldwide culture of quality in rail!
IRIS’ technical evolutions & future with ISO

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➢ Volker Buhrmester - Head of supplier development, Deutsche Bahn AG

➢ Bernard Kaufmann - IRIS General Manager, UNIFE
IRIS Certification™ system

IRIS Certification™ rev. 03

ISO/TS 22163:2017
Railway applications - Quality management system - Business management system requirements for rail organizations: ISO 9001:2015 and particular requirements for application in the rail sector

IRIS Certification™ rules:2017
Rules for achieving and maintaining IRIS Certification™ recognition

IRIS Certification™ Technology

Audit-Tool
Portal
Database

REFERENCE

SYSTEM

TOOLS

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The way to an ISO/TS

UNIFE got “A” Liaison with ISO

UNIFE handover draft document to ISO

Preparation of ISO/TS 22163 by the TC/269 Ad-Hoc Working Group 15 under convenorship of Mr. Gilles Chopard-Guillaumot

Publication of the ISO/TS 22163 by ISO
➢ ISO/TC 269/WG05 “Railway quality management system” established
   ❖ 26 worldwide nominated experts
   ❖ Kick-off meeting in November 2016

➢ Resolutions of ISO/TC 269 plenary meeting on May 2018
   ❖ Conversion of ISO/TS 22163 into an IS
   ❖ Forty eight (48) months standard development track
   ❖ Start with Committee Draft (CD) stage
   ❖ Published ISO/TS 22163 as Committee draft
   ❖ Nomination of Mr. Bernard Kaufmann as convenor of the ISO/TC 269/WG05 “Railway quality management system”
The way to an ISO 22163 (2/2)

Collection of feedback

➢ Survey
  ❖ Target group: IRIS certified companies
  ❖ Survey to be filled after each performed IRIS rev. 03 audit

➢ National Committees
ISO/TS 22163
Railway Quality Management System
Siemens Mobility Expectations towards ISO/TC 269/WG05
Technical evaluation of the ISO/TS 22163

- ISO is responsible for the technical specification ISO/TS 22163 Railway Quality Management System

- ISO/TC 269/AHG 15 prepared ISO/TS 22163
  - Convenor: Gilles CHOPARD-GUILLAUMOT (FR, Afnor/BNF)

- ISO/TC 269 WG5 will focus on the transformation of the ISO/TS 22163 to a full ISO standard
  - Convenor: Bernard KAUFMANN (UNIFE), the secretary was allocated to the French Committee
  - Kick off meeting took place on 24. November 2017 in Paris
  - Participants from BE, CH, CN, DE, DK, FR, GB, HU, IS, IT, JP took part
  - With ISO/TS 22163 as a baseline, work will start at the Committee Draft (CD) stage
  - 48 month tracking for transformation
  - Some editorial and technical comments have already been received
  - Further comments on CD can be provided by national committees
DIN Deutsches Institut für Normung
(German institute for standardization)

- DIN as ISO member is responsible for
  - Publication of DIN ISO/TS 22163

- DIN set up a mirror group
  - NA 087 DIN standardization committee „Fahrweg und Schienenfahrzeuge (FSF)“, NA 087-00-18-07 UA sub committee „Railway quality management system“
  - Convenor: Markus Schmid, VOITH Turbo
  - Kick off meeting took place in Kassel on 13th October 2017
  - Participation of German rail companies (operators and industry): Bombardier, Deutsche Bahn, Knorr-Bremse, Siemens Mobility, VOITH Turbo

- Activities:
  - Mirroring ISO/TC 269/WG05 activities
  - Naming representatives for ISO/TC 269 WG 5
  - Collect feedback for ISO/TC 269/WG05
  - German translation of ISO/TS 22163 and in future for ISO 22163
Siemens expectations

- Keeping the content of ISO/TS 22163 (no downgrading!) as an enabler for the management system with focus on process application and maturity

- No differences in standard for SME or large companies
  - Also ISO 9001 is applicable for companies of all sizes and types of business
  - Risk-based thinking gives organizations the freedom to determine their management system (justification can be provided for any requirement that is not applicable)

- Involvement and participation of further national committees e.g. of US, Russia and Spain in WG to ensure the alignment of different standards and worldwide recognition

- Quick translation of ISO/TS 22163 into further languages
Thank you for your attention

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IRIS / ISO 22163 – Outlook for suppliers from DB’s perspective
IRIS Talk: Technical evolutions & future with IRIS

Deutsche Bahn AG | Volker Buhrmester | Berlin | 20.09.2018
2 years ago, Deutsche Bahn launched a company-wide project aiming on significant improvements in quality and performance.

**Zukunft Bahn**

Mehr Qualität. Mehr Kunden. Mehr Erfolg.

**Contribution of the procurement department:**
- Stable supply of material
- Reliable and compliant products
- Agile supply chain interaction...
Review on delivery performance (spare parts) in 2017 shows a clear negative trend

DB depends on reliable supplier performance to meet own customer related goals

Overall percentage of late delivery (> 4 d)

Febr.-17 March-17 April-17 Mai-17 Juni-17 Juli-17 Aug-17 Sept-17 Okt-17 Nov-17 Dez-17 Jan-18 Febr-18

23 22 24 26 26 26 25 30 31 30 29

(as shown on our suppliers day, march 2018)
Deutsche Bahn has set up a roadmap for improvement in delivery performance and product quality in our sector – we are strictly convinced that IRIS Certification rev. 03 is one of the key levers for our suppliers.

What can the industry expect from Deutsche Bahn with regard to IRIS certificates?

- Membership in “International Rail Quality Board” (IRQB)
- Participation in ISO/TC 269/Working Group 05 “RQMS”
- Active support of the transition of ISO/TS 22163
- Intensive cooperation on the development of IRIS Certification rev. 03
- Enhancement of IRIS (2016) by operators requirements
- Participation in Ad Hoc Group 15, ISO Technical Committee 269 “Railway Applications”
- Implementation of the contractor-oriented new DB QA-system
- MoU between DB and UNIFE on systematic improvement of product quality by IRIS-activities
- VDB guideline “Quality Engineering” in development of railway vehicles
- MoU between DB and VDB on Quality Engineering

Deutsche Bahn AG | Volker Buhrmester | Supplier Development | 20.09.2018
End of 2017 DB published a press release announcing IRIS certificates (according to IRIS Certification rev. 3) as a new basic qualification requirement
We expect IRIS Certification rev. 03™ to provide valid information on the fulfillment degree of adequate sector-specific requirements as well as on supplier’s real quality level in performance and products (ex-post)

DB will recognize IRIS certificates as basic evidence for supplier’s qualification

Management and control of DB-performed QA activities

Capability and risk assessment (project-/ contract-specific)

Requirement for participation in new DB tenders for rail vehicles / rail parts (from 2019 on)

Certification compliant to IRIS rev. 03 based on ISO/TS 22163

• Performance of processes
• Quality Engineering (risk prevention)
• Level of implementation (enablers)

Pool of potential suppliers
By requiring “new” IRIS certificates DB performs a significant change in QA as well as in expectations towards supplier’s contribution and responsibility for efficient collaboration along the supply chain.

We expect the new standard and certification scheme to establish a
- more effective,
- risk-based,
- control enabling,
- transparent and result-oriented way of collaboration along the entire supply chain.

We firmly believe that this is the right path for the global sector.

Therefore we will continue our engagement for better supply chain collaboration – e.g. with our participation in the International Rail Quality Board.

We want our suppliers to face this challenge and to take the chance.

One last request: Please do not improve the show, but show improvements – for the benefit of your (and our) customer!