API’s Emerging Issues Task Force and the journey to standards digitization

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ISO-IOGP Session on Information and Standards Digitization

David Miller,
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1. API background
2. API’s Global Industry Services Committee, or GISC
3. The EITF
4. 1st EITF Topic – Standards Digitization
5. Next Steps
API Members

600+ companies involved in all aspects of the global natural gas and oil industry
GIS Committee (GISC) Scope and Members:

The Global Industry Services Committee (GISC) collaborates the cross-segment implementation of all API non-dues programs and is also responsible for reviewing the effectiveness of these programs based on guidance established by the API’s Board Level Committees.
API’s Global Industry Services Division

Mission: Provide world-class services that enable the oil and natural gas industry to operate efficiently, safely, reliably, profitably, and sustainably

- 100+ Employees
- 145 Auditors
- 200 Training Programs
- 700+ Publications
- 200+ Events
- 56,000 Personnel Certifications in 128 Countries
- 5,000 Company Certifications in 80+ Countries
- 50,000+ Licensed Products
API Standards

Setting Standards Since 1924 to promote safety, environmental protection, reliability and sustainability through proven engineering practices.

API’s standards:

Cover all industry segments
- **Upstream** (Exploration & Production)
- **Downstream** (Refining & Marketing)
- **Midstream** (Pipeline, Rail & Truck transportation, and Petroleum Measurement)

American National Standards Institute (ANSI) accredited standards developing organization

API now publishes **+700** standards

Over **650** citations in U.S. Code of Federal Regulations

Over **790** international references
GISC March 2020 Action Item:

- The GISC established an Emerging Issues Task Force, EITF, with standards digitization being its initial project.
- The EITF members should be senior technologists leads with broad industry experience and responsibility across a variety of segment operations.
- The mandate of the EITF is to provide API member input and direction into cross-segment standards, technology and performance-related issues.
- The EITF will help identify cross-segment issues, review their potential impact on the API standard development and programs, coordinate with API’s standards committees as needed, and make recommendations to the GISC and API GIS staff.
- *Standards digitization is a topic potentially impacting the development, delivery, and use of API standards. API staff has conducted an environmental scan on this topic, invested in editorial software, and conducted several case studies.*
EITF Membership

6 Organizations have named members:

- Shell
- ICGP
- Chevron
- bp
- TechnipFMC
- ExxonMobil
# Standards Digitization

## Digitization and Requirements-based Approach:

### Environmental Scan
- Three API Technology Forums (2017 – 2019); Fourth being planned for 2020, set for 11-12 November
- Forum topics include standards publishing and delivery, customer-driven development, artificial intelligence and machine learning
- CSOEM Technical Session during January 2020 Conference

### Editorial Software Tools
- Investment in two software tools that will help with transition to digitization
- Consideration of additional tools

### Case Studies
- SC 17 / INCOSE and IBM Doors
- Distributor & Member Company Engagements

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Standards Digitization

ACTION:

• Utilize Emerging Issues Task Force to assist in critical thinking – meetings held 12 August and 11 September

• EITF develops issue paper for GISC

• GISC considers issue paper and makes recommendation

• API initiates implementation
Action Items from first EITF meeting

• API Staff to send EITF 2020 Technical Forum registration information

• Investigate training for standards committee members on requirements-based standards development
  • API is updating its Document Format and Style Guide to include Requirements-based language and definitions

• Member company verifying use of internal training videos

• Investigate “best in class” digitization industry and seek out guest speakers for upcoming EITF meeting

• API Staff and EITF to compile a list of software that is available to help improve requirements quality
Standards Digitization

OPEN QUESTIONS

How does industry define digitization?

Does industry support a “requirements-based” standards approach?

What are the implications of standards derivative or “user-customized” standards?

How can API meet member digitization needs while maintaining fiscal responsibility?
Next steps

- EITF to continue to work on action items
- EITF to monitor external activities
- EITF to develop recommendation for GISC on standards digitization
Thanks!

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