Interoperability

Mark van Stiphout

Madrid Forum 20 & 21 February 2007

Content

1. Goal of the study
2. Elaboration
3. Results
4. Conclusions & further action
   - Gas quality → Mandate to CEN
   - N&M, Harmonisation of units, IT, Codification
   - Data-base

Goal of the study I

- Make an inventory of interoperability issues
- Creation of a public data-base
- Cost-Benefit analysis to propose solutions

34. The Forum invited the Commission to consider launching a study with the support of EASEE-gas aiming at establishing an inventory on all interoperability issues, in particular gas quality and providing a sound cost-benefit analysis with a view to resolving outstanding issues. The Forum called on the participants for active cooperation and stressed the need for involving all stakeholders.

Elaboration

- Questionnaires
- Draft fact sheets
- Verify and validate information
  - Checking the sheets
  - Meetings
- CBA
- Data-base

Results

- TSO's response = 69% for all IP's (both sides)
- Excluding LNG-inlet and EEA-borders → response = 80%
- 10 Shippers have responded on multiple IP's
- 7 National Regulatory Authorities
- Other respondents like Member States and End-users

Results – traffic lights

Location	IP Number	Country	Company		WImax	WImin	Hvmax	Hvmin	S	H2S	RSH	O2	CO2	WDP	HDP
Zeebrugge IZT	1B	UK	IUK	Exit	15.05*	14.14	12.38	10.81	30.0	5	/	0.10	2.5	-10	-2
		Belgium	Fluxys	Entry	15.00*	14.14	12.38	10.81	22.4*	5	/	0.001	2.0*	-10	-2
Zeebrugge IZT	1C	Belgium	Fluxys	Exit	15.00*	14.14	12.38	10.81	22.4*	5	/	0.001	2.0*	-10	-2
		UK	IUK	Entry	15.05*	14.14	12.38	10.81	30	5	/	0.10	2.5	-10	-2
Bacton	52A	UK	National Grid	Exit	15.05	14.14	12.38	10.81	30	5	/	0.10	2.5	-10	-2
		UK	IUK	Entry	15.05	14.14	12.38	10.81	30	5	/	0.10	2.5	-10	-2
Bacton	52B	UK	IUK	Exit	15.05	14.14	12.38	10.81	30	5	/	0.10	2.5	-10	-2
		UK	National Grid	Entry	15.05	14.14	12.38	10.81	30	5	/	0.10	2.5	-10	-2
Zeebrugge ZPT	1A	Norway	Gassco	Exit	15.47	14.17	12.78	11.17	30	5	6	0.0002	2.5	-12	-3
		Belgium	Fluxys	Entry	15.47	14.17	12.77	11.17	150*	5	6	0.1	2.5	-12	-3
Zeebrugge LNG	1D	LNG	Fluxys LNG	Exit	15.56	13.65	12.79	10.81	150(*)	5	/	0.50	2.0	-8	-2
		Belgium	Fluxys	Entry	15.56	13.65	12.79	10.81	150(*)	5	/	0.50	2.0	-8	-2
Eynatten	6A	Belgium	Fluxys	Exit	15.70	13.66	12.78	10.81	150(*)	5	/	0.10	3.0	-8	-2
		Germany	Wingas	Entry	15.00	14.14	11.61	10.97	22.4	5		0.0010	2.0	-10	-2
Eynatten	6B	Germany	Wingas	Exit	15.00	14.14	11.61	10.97	22.4	5		0.0010	2.0	-10	-2
		Belgium	Fluxys	Entry	15.00	14.14	11.61	10.81	22.4	5	/	0.0010	2.0	-10	-2
Eynatten	6C	Belgium	Fluxys	Exit	15.70	13.66	12.78	10.81	150(*)	5	/	0.50	3.0	-8	-2
		Germany	RWE	Entry	15.33	13.67	?	?	30	5	6	0.50	2.5	-8	-2
		Germany	E.ON Ruhrgas	Entry	15.33	13.67	?	?	30	5	6	0.50	2.5	-8	-2
Eynatten	6D	Germany	E.ON Ruhrgas	Exit	15.70	12.80									
		Belgium	Fluxys	Entry	15.00	14.14	12.38	10.81	22.4	5	/	0.0010	2.0	-10	-2

Key to Gas Quality Specification Comparison	
Entry Spec = Exit Spec	
Entry Spec wider than Exit Spec	
Exit Spec wider than Entry Spec	
Spec plan to be harmonized/changed	*

Results – gas quality

- Meetings per zone
- Transparency
- Responsibility & liability
- Contractual & Physical issues
- Future developments
- Progress through regional cooperation

Conclusions – gas quality

- Gas quality can be a barrier to free flow of gas
- Interconnection points – upstream & downstream
- Effect of gas quality on appliances
- Need for a common gas quality

Mandate to CEN I

- Create EU-wide standards for gas quality: broadest possible within reasonable costs
- Need for EU-wide testing programme
- Effects on safety, efficiency and environment for household appliances
- Test results as input for CBA (efficiency, environmental impact)
- Standards will take into account Interoperability CBA results:
  - Effects on industry
  - Effects on suppliers
  - Effects on TSO's

Mandate to CEN II

- Phases:
  - Assessment of combustion parameters
  - Testing results & CBA-data to define European standards
- Distinction between combustion and non-combustion parameters
- Promote security of supply and competition
- Minimising the negative effects on efficiency and the environment
- Allowing the maximum number of appliances to be used without compromising safety
- CBP's are the basis for the discussion
- Synergy with the Gas Appliance Directive (90/396/EEC) to create an internal market for appliances

Conclusions – other topics

- Other topics can be a barrier to trade
- Solutions on a European level
- More harmonisation is needed
- Industry is best placed to define solutions

Follow-up

- CEN-mandate on gas quality
  - Sent out in January
  - Acceptance in 6 weeks
  - Allocation by the Technical Board
  - Co-funding and quotation
- Data-base → GIE
- Other topics: EASEE-gas framework to improve implementation of the CBP's

Interoperability

- We will keep you informed on the progress and aim for maximum transparency
- We count on your support and cooperation