



Practical experiences from the AIRT V project

Case studies

Dust

- Multifunction ion technology
- Wet scrubber
- Electrostatic precipitator

VOC

- Regeneration of activated carbon
- Regenerative combustion

Ammonia

- Combi-scrubber system

NOx

- Low emission natural gas burning

Multi-pollutant

- Turbosorp

Odour

- Applied plasma physics

Workshops

Workshops held in:

- Brussels
- Nürnberg (Air emission reduction workshop)
- Brussels, ETV Conference
- Barcelona (Expoquimia)
- Poznan (Poleko)
- Frankfurt (Achema)

Goals for the system

- Increased confidence in technology
- High integrity, trustworthy system
- Cost efficient verification
- Marketing: create awareness of possible buyers
- Accelerates market acceptance of innovative technologies

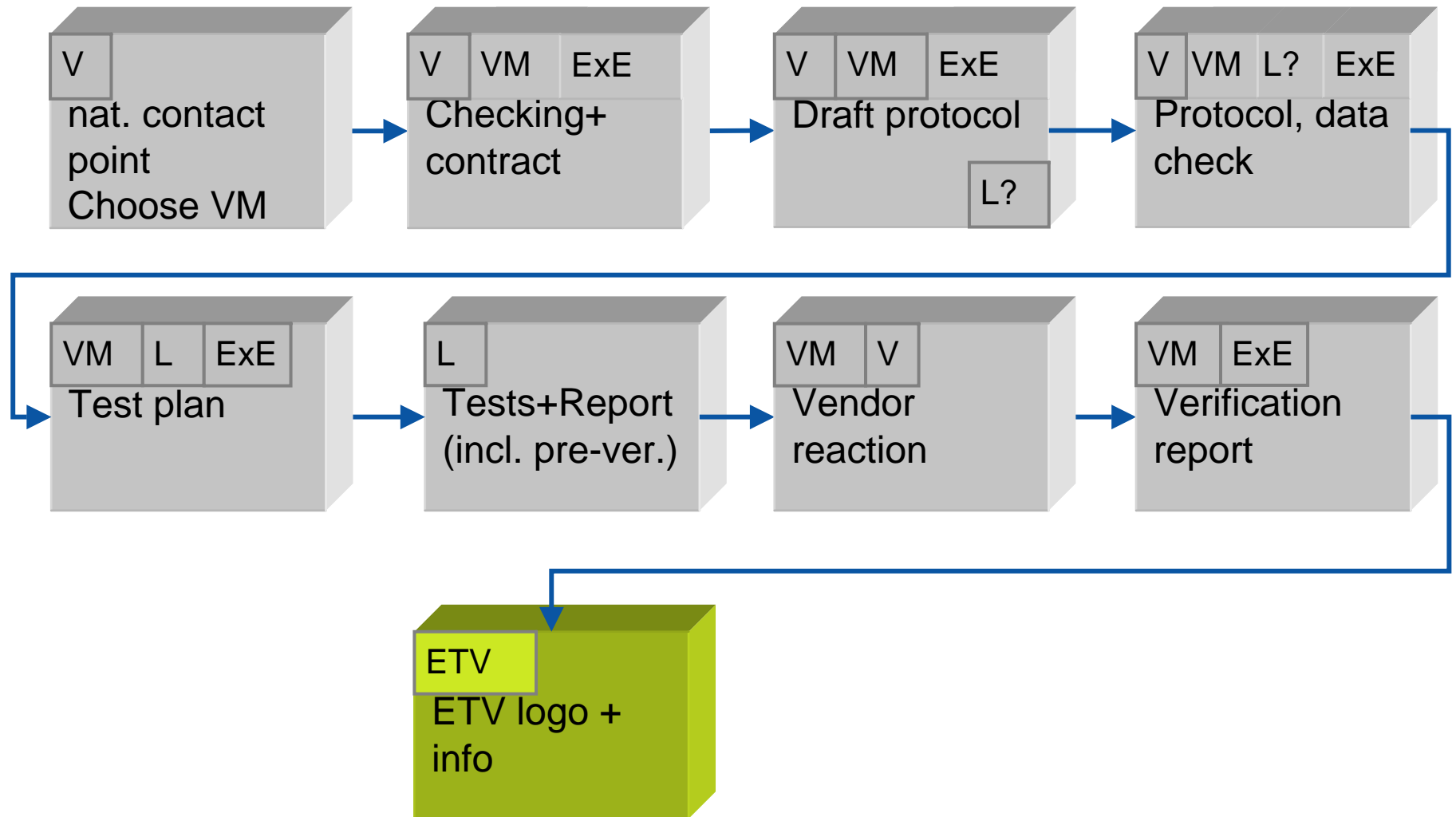
What worked well?

- The scheme in general, e.g.
 - quick check is helpful
 - protocol procedure needed (no similar existing, but a template)
 - involvement of technology and measurement experts is necessary
- One general protocol is sufficient
 - template that includes instructions how to fill in

Issues that AIRTV discussed

- General
 - Criteria for involved bodies (clear, quality, not too many)
 - Timing (delays occur)
 - How to handle improvements?
 - What is published?
 - Efficient document production
- Protocol
 - Choice of methods (e.g. when no standard available)
 - Measurement and lab experts to be involved early
- Testing and results
 - Change of claim
 - Available data
 - Error on measurements

The proposed verification scheme



How can the system fulfil the goals?

- Increased confidence in technology:
 - Quality assurance for the system and data used
 - Definition of the claim is important
 - comprehensive (what customer needs)
 - reasonable level (avoid change of claim)
- High integrity, trustworthy system :
 - Independent organisations,
 - Clear criteria for being eligible at an adequate level
 - Involvement of respected experts

How can the system fulfil the goals (2)?

- Cost efficient verification
 - Clear criteria for usage of existing data: inform possible vendors in order to avoid need for new measurements
 - Early involvement of experts is crucial
 - Documents can be simplified to avoid double work
 - Sufficient information has to be provided, e.g.
 - working conditions for testing
 - information that allows cost and environmental assessment
- Marketing: create awareness of possible buyers
 - know ETV system and logo, trustworthy system
- Accelerates market acceptance of innovative technologies
 - increased confidence in technology and marketing

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