

**Workshop (265. PTB-Seminar)**  
**“Protection of Measurement Data in Legal Metrology and Related Challenges”**  
**at PTB in Berlin**

**Date:** November 30<sup>th</sup> and December 1<sup>st</sup>, 2011

**Venue:** Physikalisch-Technische Bundesanstalt  
Abbestr. 2-12, 10587 Berlin, Germany  
Hermann-von-Helmholtz-Bau,  
Plenary Room

**Chair:** Dieter Richter, PTB

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**Registration:** Please register for the Workshop by sending the filled registration form to the Conference Office via e-mail

**Hotels:** Please, make your own reservation. A list of hotels near PTB is attached.

**Deadline for Registration:** November 12<sup>th</sup>, 2011

**Registration fee:** **180 €** (except speakers)  
**80 €** (Reduced fee for participants of the subsequent WELMEC WG 7 Meeting)

**Ways of payment**

- Cash at workshop venue (preferable way)
- Bank transfer (prior to November 12<sup>th</sup>, 2011)  
Receiver: Helmholtz-Fonds  
Reason of payment: PTB WS 265 / Name of participant  
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Dates for transfer from Germany: Deutsche Bank München  
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**Aim of the Workshop**

An issue of central importance in legal metrology is to secure the authenticity, integrity and reliability of measurement data in all relevant processes such as acquisition, processing, transmission, and visualization of measurement data. This topic shall be addressed from different angles by invited experts and field reports at this year's workshop.

Since currently applied procedures as well as promising future approaches will be discussed, the workshop may be given the guiding theme „Advanced technology meets daily practice“. The aim of this workshop again is to bring together experts from different technical disciplines as well as representatives from industry, science, testing authorities, notified bodies, and regulatory authorities to discuss challenges, approaches and solutions concerning an IT-related topic of metrology.

**The workshop is supported by WELMEC and Helmholtz-Fonds e.V.**

# Preliminary Workshop Programme

Wednesday, November 30 <sup>th</sup>		Thursday, December 1 <sup>st</sup>	
From 11:00 am	<b>Registration</b>	9:00 am	<b>Aspects of data protection related to metering</b> M. Pfändler, The Federal Commissioner for Data Protection and Freedom of Information, Germany
12:00 am	<i>Lunch</i>	9:30 am	<b>The Common Criteria approach applied to a Protection Profile for a Smart-Meter Gateway</b> M. Intemann, BSI, Germany
1:00 pm	<b>Welcome and Introduction</b>	10:00 am	<b>The Technical Guidelines for the implementation of a Smart-Meter Gateway</b> H. Bast, BSI, Germany
1:10 pm	<b>Strategic aspects in legal metrology</b> T. Valkepa, WELMEC vice-chair, Finland	10:30 am	<b>Legal Metrology's regulations transferred into the IT security domain: A validation</b> F. Thiel, PTB, Germany
1:40 pm	<b>Data Protection in a Smart Grid</b> F. Hyldmar, Chair of Expert Group Regulatory Recommendations for Data Safety, Data Handling and Data Protection, EU Task Force Smart Grids, The Netherlands	11:00 am	<i>Coffee break</i>
2:10 pm	<b>The needs and requirements of the business community in daily practice</b> I. Turner, CECIP, Legal Metrology Working Group, United Kingdom	11:20 am	<b>Acceptable Solutions for WLAN data transmission</b> M. Link, PTB, Germany
2:40 pm	<b>Digital signatures for the protection of weighing data</b> U. Rauchschalbe, Schenck Process GmbH, Germany	11:50 am	<b>Secure and trusted computing: State of the art and standards</b> H. Brandl, Infineon, Germany
3:10 pm	<i>Coffee break</i>	12:50 am	<b>Secure authentication in remote measurement systems</b> M. Klimke, Infineon, Germany
3:30 pm	<b>Procedures for the validation of software crypto implementations in measuring instruments</b> T. Zeggel, cryptovision GmbH, Germany U. Grottker PTB, Germany	1:20 pm	<i>Lunch</i>
4:00 pm	<b>A review of data protection methods applied in legal metrology</b> S. Eickelberg, PTB, Germany	2:20 pm	<b>U-type MI: Securing legal parameters and measurement data on high level OS - real life</b> R. Flegar, MIRS, Slovenia
4:30 pm	<b>Protection of taximeter data by secure elements</b> J. Wolf, PTB, Germany	2:50 pm	<b>Distributed meters within a software evolution perspective: A Brazilian case</b> L. Rust, INMETRO, Brazil
5:00 pm	<b>An information security concept for electricity meters on board of electric vehicles</b> J. Weil, PTB, Germany	3:20 pm	<b>Do we need a paradigm shift with respect to IT components in legal metrology?</b> Dieter Richter, PTB, Germany
5:30 pm - 6:00 pm	<i>End of the First Day of the Workshop Evening Dinner and get together</i>	3:50 pm	<b>Concluding Summary and End of Workshop</b>

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Each presentation is assigned a total of 30 minutes including 5 minutes at least for discussion unless otherwise noted.