Conformity Assessment in the Information Technology Sector

Information Security and Privacy Advisory Board

June 2012
Conformity Assessment

“demonstration that specified requirements relating to a product, process, system, person, or body are fulfilled”

- ISO/IEC 17000
The Parties – who done it?

First Party – seller or manufacturer
Second Party – purchaser or user
Third Party – independent entity
Government
Types of Conformity Assessment

- Supplier’s Declaration of Conformity (SDoC)
- Inspection
- Testing
- Certification
- Registration
- Accreditation

- ISO/IEC 17050 parts 1 and 2
- ISO/IEC 17020
- ISO/IEC 17025
- ISO/IEC Guide 65
- ISO/IEC 17021
- ISO/IEC 17011
Supplier’s Declaration of Conformity (SDoC)

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<thead>
<tr>
<th>Characteristics</th>
<th>Examples</th>
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<tbody>
<tr>
<td>• Used when low product risk</td>
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<td>• Penalties for noncompliant products</td>
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<td>• Effective recall system</td>
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- ISO/IEC 17050
Certification

Characteristics

- Used when moderate – high product risk
- More expensive
- Surveillance

Examples

- ISO/IEC GUIDE 65
Accreditation

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<td>Confidence in Competence</td>
<td>NVLAP</td>
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<tr>
<td>- ISO/IEC 17011</td>
<td>ANAB Accredited</td>
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Conformity Assessment Hierarchy

IT System or Component
Technical Requirement

Lab/Certifier
ISO/IEC 17025/ISO/IEC Guide 65

Accreditor
ISO/IEC 17011
IT System Attribute in Need of Confidence

- **Function** – IPV 6, E Health Records…
- **Interoperability** – WiFi, E Health Records…
- **Portability** – Cloud Services…
- **Security** – SmartGrid, E Health Records, Cloud Services…
- **Other Attributes?**

Research Needs to Support Confidence

- **Standards and Requirements**
- **Test Methods and Tools**
- **Conformity Assessment Approaches**

and an **Effective** Business Case
Thank You

Gordon Gillerman
Standards Services
National Institute of Standards and Technology
gordon.gillerman@nist.gov
301-975-8406