



Global Standards Information



Conformity Assessment Basics

NIST Workshop on the Fundamentals of
Standards and Conformity Assessment for the
U.S. General Services Administration,
Office of Federal High-Performance Green Buildings
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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

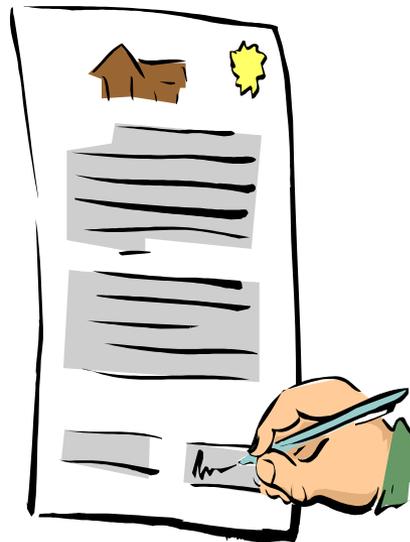
- Supplier's Declaration of Conformity (SDoC)
- Inspection
- Testing
- Certification
- Registration
- Accreditation
- ISO/IEC 17050 parts 1 and 2
- ISO/IEC 17020
- ISO/IEC 17025
- ISO/IEC Guide 65
- ISO/IEC 17021
- ISO/IEC 17011

Supplier's Declaration of Conformity (SDoC)

1st Party
2nd Party
3rd Party

Characteristics

- Used when low product risk
- Penalties for noncompliant products
- Effective recall system



Examples



- ISO/IEC 17050

Testing

1st Party

2nd Party

3rd Party

Characteristics

Examples

- Measures Characteristics
- Representative samples are often used
- May be element of SDoC or certification system

- *ISO/IEC 17025*



Inspection

1st Party
2nd Party
3rd Party

Characteristics

- Simple test measurement or examination
- Code compliance

- *ISO/IEC 17020*

Examples



1st Party
2nd Party
3rd Party

Certification

Characteristics

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

- *ISO/IEC GUIDE 65*

Examples



Management System Registration

Characteristics

- Process requirements
- Scope matters: can be general or specific

- *ISO/IEC 17021*

Examples



Accreditation

1st Party
2nd Party
3rd Party

Characteristics

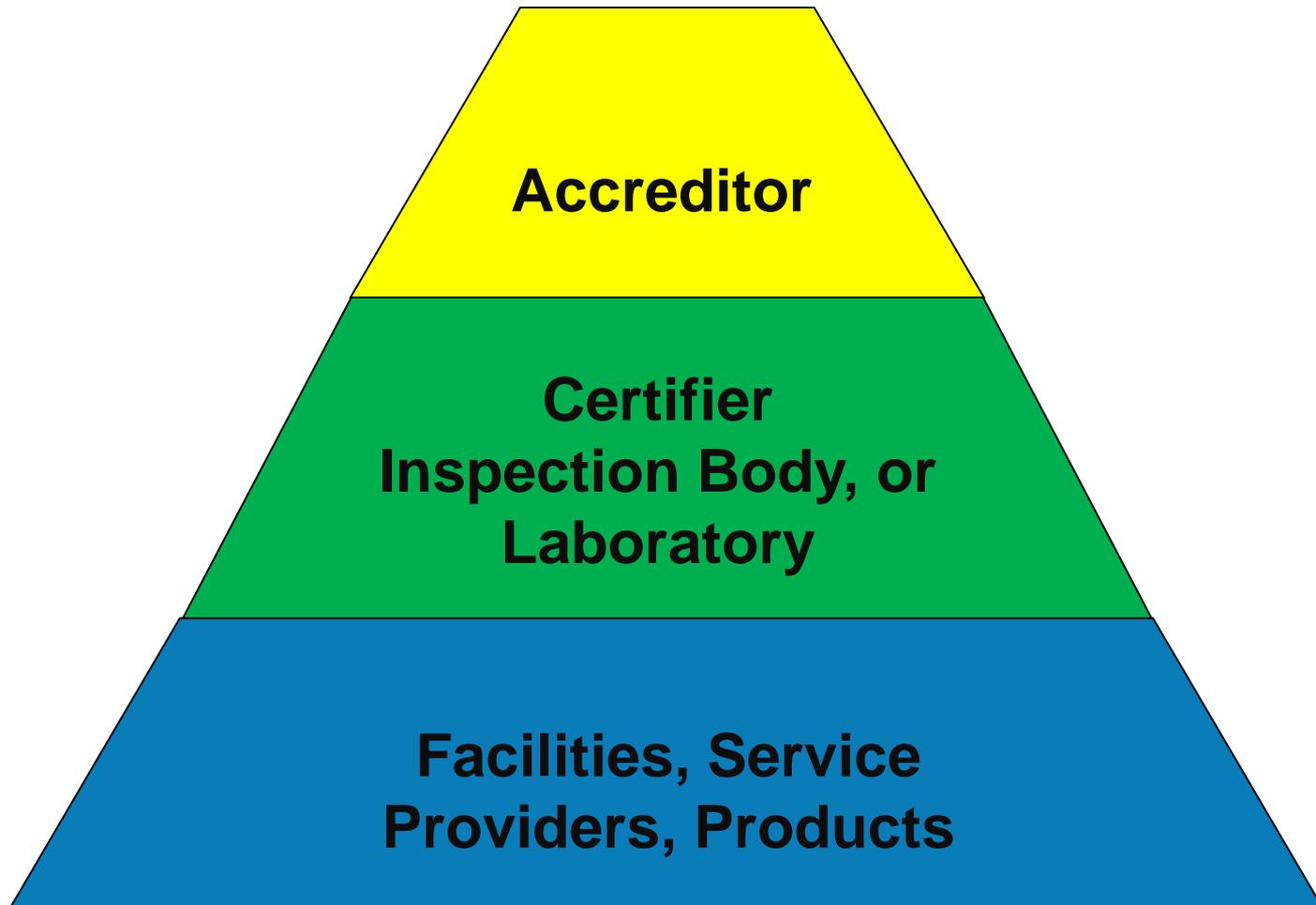
- Confidence in Competence

Examples



- *ISO/IEC 17011*

Who watches the watchers?



Factors in Conformity Assessment Systems

- Risks associated with non-compliance should be proportional to the rigor of the system design
 - ▶ Over-design costs too much
 - ▶ Under-design gives too little confidence
- Marketplace consequences (penalties) & effective recall allow less rigor

EPA WaterSense Program

Plumbing and water usage equipment manufacturers can voluntarily demonstrate their compliance with EPA water efficiency specifications

First specifications for High Efficiency Toilets

Equipment will be certified by accredited certification organization

Certifiers enter into licensing agreement with EPA to authorize use of WaterSense mark

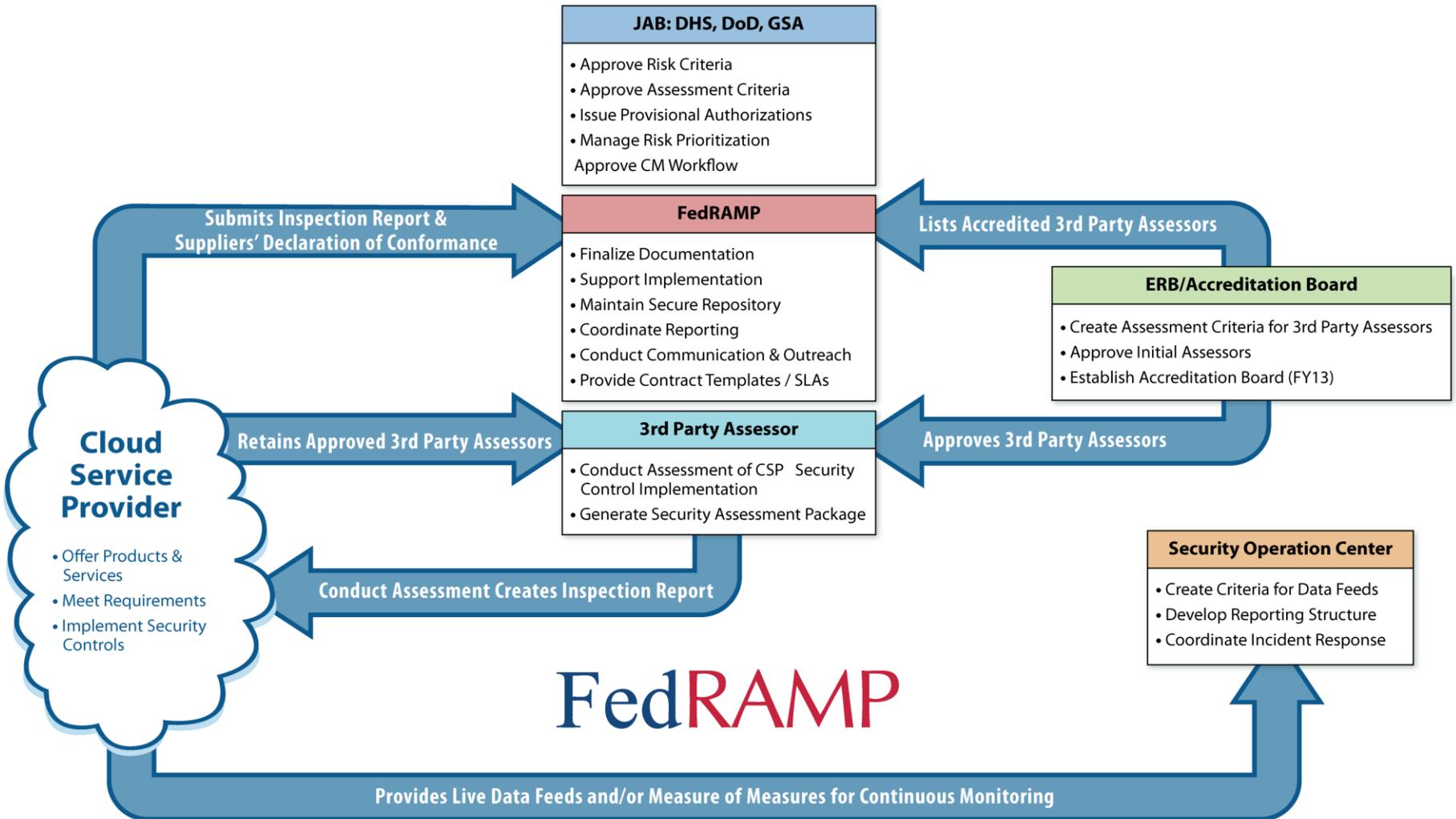
Manufacturers sign partnership agreement with EPA

EPA LISTS

- Accreditors
- Certifiers
- Equipment



FedRAMP Process



FedRAMP

Review

- Terminology
- Types of conformity assessment
- How it works
- Examples

Thank You

Conformity Assessment Basics

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