

IBM Systems and Technology Group

Managing Multiple and Emerging Standards

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9th ICCC | Managing Multiple and Emerging Standards

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Agenda

- Research/Standards/Requirements
- Product Development
- Customer Deployment
- What to do?

Objective

Customers are interested in **assurance** that the products that they use can be operated in a secure manner.



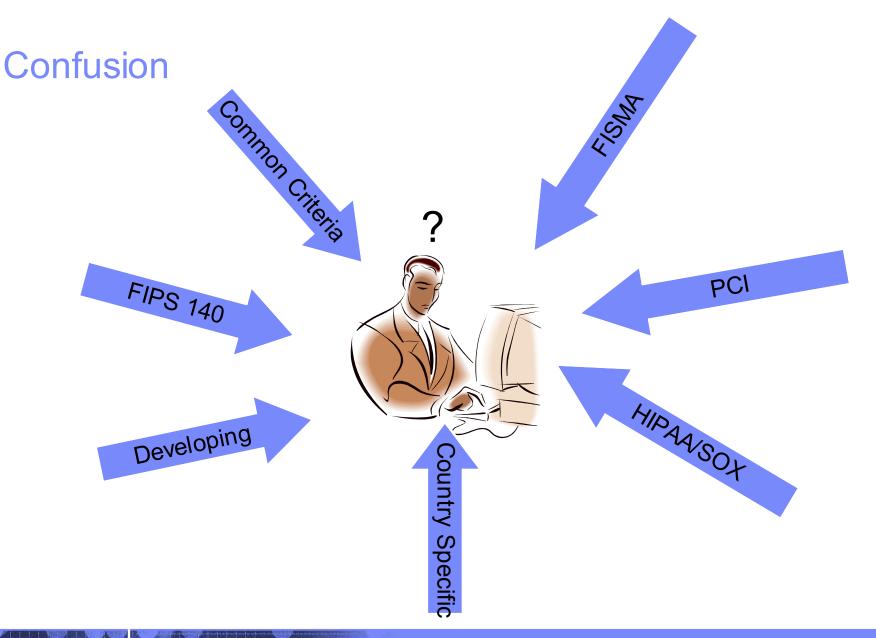
Security Research

- Systems and Network Security (NIST)
 - http://csrc.nist.gov/groups/SNS/index.html
- Center for Information Systems Security Studies and Research
 - http://cisr.nps.navy.mil/

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Standards

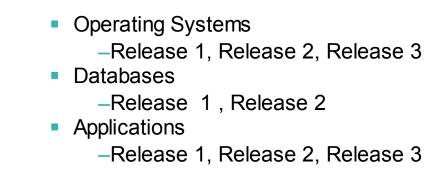
- Common Criteria
 - Multiple protection profiles
- ISO 27001
- CMVP (FIPS 140-2)
- PCI
- US Government
 - FISMA
 - HIPAA
- Other national standards

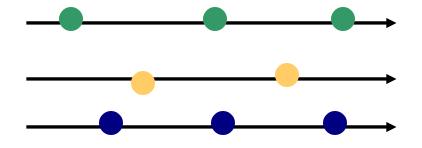


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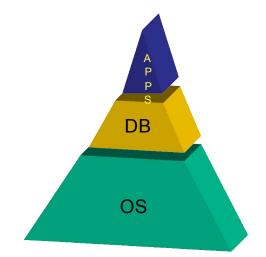


Development Plans – Multiple Releases

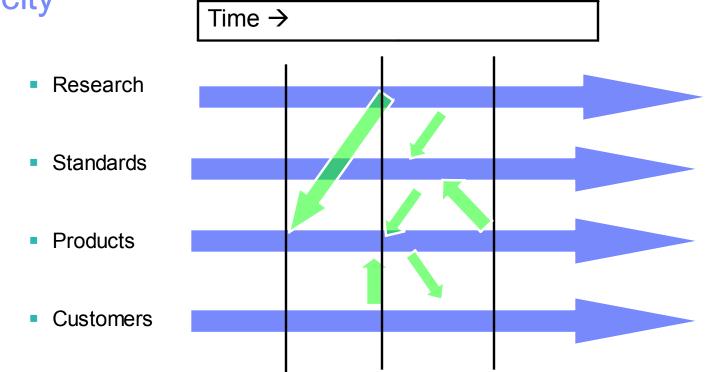




Composition not yet practical !



Velocity



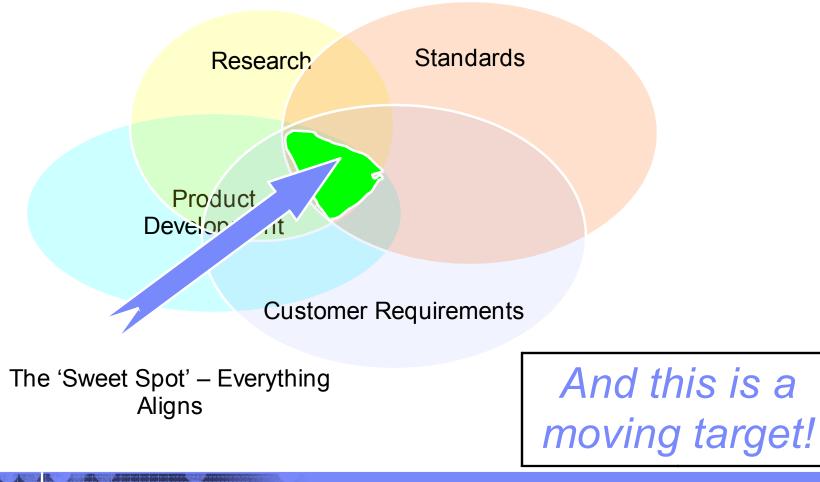
•All of these are moving forward and changing.

•Developers react to research, standards and customer requirements

•Customer deploy based on law, standards and threats (perceived and real)



The Sweet Spot





Development

- Waterfall or Agile or other
 - Expects requirements to drive development
 - This is not practical or possible in this arena
- Can we anticipate standards?
 - Requires expense, engagement, expertise
- Can we anticipate customer requirements?
 - Requires expense, engagement, expertise, but...
 - Different from the standards work



Customer Deployment

- Lags Product Development (well... of course!)
- Potentially long deployment time even after a decision is made
- Current customer usage sometimes lags research and standards by years

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Challenges

- Multiple Standards cost
 - Money
 - Time
 - Confusion
- Emerging Standards cost
 - Money
 - Product Delays
 - Confusion

What to do???

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Response in Development (not a solution)

- Engage in Research/Standards/Customer Business Models
 - -Understand each area
 - -Influence directions of standards and products
 - -Reach common understanding and goals
- Products
 - -Must plot minimum acceptable path
 - -Very difficult to do



Challenge for the CC

- Provide a pro-active involvement to focus research and standards bodies into a convergent set of adaptable standards and guidelines
- Provide a roadmap for standards development that allows product developers and customers to plan



Suggestion – a New model

- Look beyond Product Evaluation
 - Too costly and difficult to do right
- Consider a 'Process Evaluation' or 'Assurance'
 - Model after manufacturing
 - Control limits
 - Not every piece Is tested
- Educate
 - Understand that no software product is defect free
 - Security standards do not guarantee security



Thank You!

Questions?

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