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SECURITY CHALLENGES FOR INTERNET TECHNOLOGIES ON MOBILE DEVICES



- 1. How are Web page scripts and Widgets different from "native" applications?
 - Deployment model
 - Programming model
 - Security model



2. What are the criteria for assessing trust?

Risk Factor	High Risk	Low Risk	Comment
Identity	Unverifiable	Verifiable	
Intent	Undiscoverable	Discoverable	
(publisher)			
Intent	Broad Access	Custom	The risk is lower if device architecture can act on
Discovery and		Sandbox	discoverable intent
Response			
(device)			
Publisher	Low	High	
Reputation			
Publisher Title Reliability	Low	High	A publisher can distribute many solutions. While previous "reputability" measure is related to publisher directly. This measure is related to a particular title or solution.
Isolation	No Isolation	Isolated	This relates to the device's ability to isolate one publisher's solution from another
Revocation/ Blocking	No revocation/ blocking capabilities	Revocation and Blocking capabilities	



- 3. What are the key elements of risk management and mitigation?
- 4. How should code identity be securely issued, managed and verified?
- 5. How should intent of code be disclosed and discovered?
 - Declarative vs. run-time models



- 6. What does it mean to act on intent, reputation and reliability information?
 - Prompt based models
 - Least privilege environments
- 7. How should device capabilities be defined and discovered?
 - Verifiable Disclosure



Opportunities for Standards

- 1. Code Identity
- 2. Declarative Self-Disclosure of Security Capability Needs
- 3. Disclosure and Discovery of device capabilities
- 4. Risk assessment criteria
- 5. Risk level definitions and symbols
- 6. Risk Mitigation Approaches & Quality Standards

