

E-Forms and Digital Signature (Automation and Authentication)

November 3, 2011



Two Separate Projects

While there are intersections between e-forms and digital signature:

- Automating business processes (e-forms) does not always involve digital signatures.
- Digital signatures can be plugged into an automated business process.
- Solutions in the marketplace are often separate.



Digital Signature (Authentication)

What is it?

- A higher level of authentication than a hand-written signature.
- Recipient knows the message was created by a known sender and that it was not altered in transit.

What does it need to do?

- Be secure.
- Provide auditable evidence that appropriate processes have been followed.
- Be easily used by individuals for ad hoc signing.
- Ability to integrate with automated business processes.



Levels of Authentication

"Click-to-sign"

- Most common type of electronic signature.
- Uses ID and password as authentication.
- Date, time, IP address of the signing device, and geo-location are *integrity properties* that are stored within the document.

"Higher assurance needs"

- Where additional proof/factors of authentication is needed.
- This may involve third-party partnerships for voice signature, biometric handwritten signatures or other verification methods.

Determining the State's Authentication Needs



- Initial agency meetings completed.
- Workgroup is creating requirements and reviewing the marketplace.
 - Agencies participating: DOJ, DOT, DOR, DPS, AOC, DHHS, Sec. of State, Cultural Resources, Industrial Commission.
 - Monthly updates are provided to all agencies at the SCIO meetings.
- Pilot beginning with Community College System
 Office November, 2011: Travel Authorization Form



E-Forms (Workflow Automation)

What is it?

- Rather than simply making forms electronic, focus on:
 - Eliminate paper forms and
 - Provide workflow automation
 - Focus on common type business processes.

What does it need to do?

- Reduces processing times and paper usage,
- Eliminate duplicate data entry,
- Improves data integrity,
- Provide for on-line service options.

Three Aspects of Workflow Automation





1. Front-end collection of data,



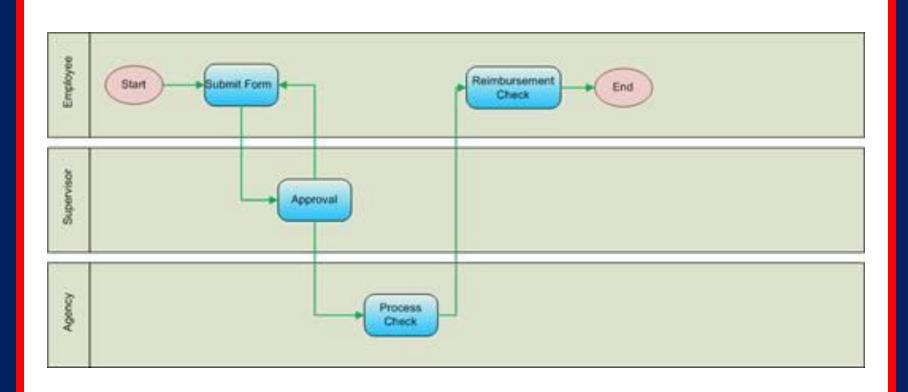
2. Send for approvals (workflow),



3. Data capture and storage.



Sample Workflow



Determining the State's Workflow Automation Needs



- Initial agency meetings completed.
- Workgroup is creating requirements and reviewing the marketplace.
 - Agencies participating: DENR, AGR, LABOR, DOT, and DOR.
 - Monthly updates are provided to all agencies at the SCIO meetings.
- Focus on a common type of business process: inspections, licensing and permitting.



Challenges

- Scoping the project: Scaled and right-sized into manageable components.
- Cost-effective solution: No single solution will meet every agency's needs. Focus on providing maximum, successful results, efficiency and cost savings for agencies.



Timeline

	North Carolina E-Forms Strategy Timeline								
		2011				2012			
	Activity	Sep	Oct	Nov	Dec	Jan	Feb	Mar	
1	Gather Requirements				>				
2	Complete Project Charter	Complete	>						
3	Project Kickoff	Complete	>						
4	Identify Staffing Requirements	Complete							
5	Build verus Buy Decisions				>				
6	Identify Pilots	One	Identified						
7	Write, Publish, Evaluate, Award Contract								
8	IT Oversight Checkpoint		Complete				>		
8	IT Oversight Checkpoint		Complete						



Questions?

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