

Wyoming DEQ Envite CROMERR Solution

(Cross-Media Electronic Reporting Regulation)

EN2014 - February 26, 2014



In the early days CROMERR was one of those acronyms that was just hard to spell and something we avoided.

The thought was. Maybe if we avoid it, it will go away.



Legislative Mandate

- Become Paperless
- Develop Agency wide online permitting system



Questions We Had

- What technology platform do we standardize on?
- How do we address staff needs?
- How do we meet CROMERR requirements?



A New Way of Business

- Required all DEQ programs to follow CROMERR standards
- One method for ALL permit applications



Writing the Paper Application

- Starting was the hardest part
- DEQ and our contractor designed the system while writing the CROMERR application.
- Many Iterations



Requirements

- Must be Staff Managed
- Streamline the process
- Easy access to view signed documents



Technology Requirements

- CROMERR compliance per the WY CROMERR application
- Centralized functionality
 - Authentication
 - Utilization of existing WY LDAP user database (eGov)
 - Electronic Signatures
- Technology Independent
 - Support .Net, Java, SharePoint clients
- SharePoint 2010 as the document repository



Technology Selection

- Thinktecture Identity Server 2
 - Open source identity provider
 - .Net 4.5, MVC 4, Web API
 - Supports WS-Federation, OAuth2, etc
- SharePoint 2010 as the document repository



Integration

- Authentication
 - WS-Federation
 - Each technology stack has it's own toolkit
- REST based API's
 - Users
 - Electronic Signature



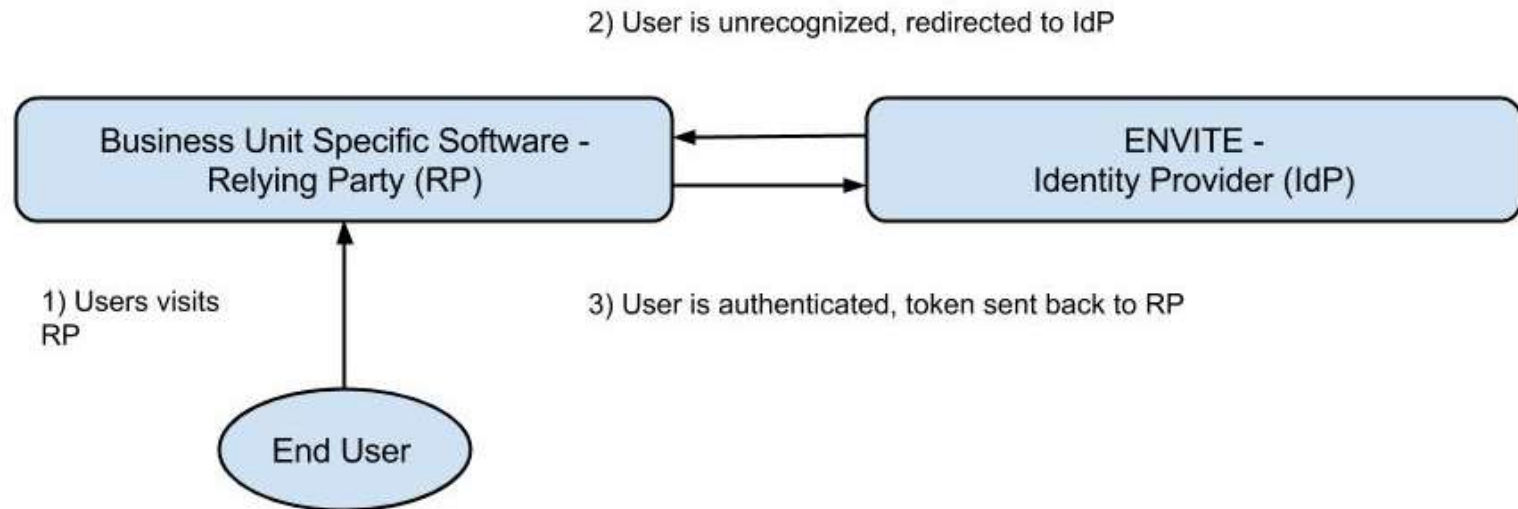
Technical Design

- Authentication
- User Provisioning
- Electronic Signatures



Technical Design – Authentication

Authentication



Technical Design – User Provisioning

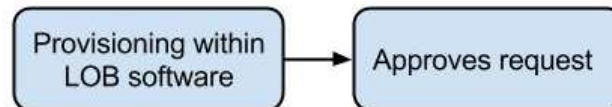
User



Agency User Administrator



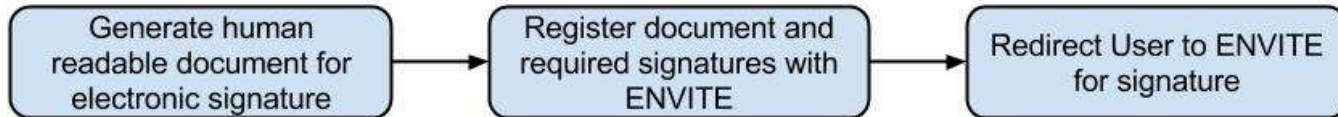
Business Unit User Administrator



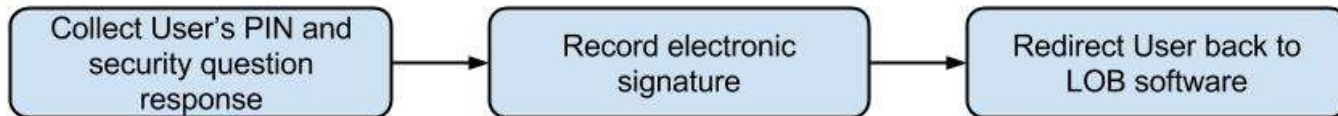
Technical Design – Electronic Signature

Electronic Signature

Line of Business Software



ENVITE



Benefits

- Partners
- DEQ-Staff
- DEQ-IT



Benefits

- Partner Impact –
 - Benefits for Industry
 - Convenience
 - Flexibility
 - Security
 - Some Standardization
 - Benefits for other Government entities
 - Access



Benefits

- Staff Impact
 - Convenience
 - Manageability
 - Identity Proofing
 - Automate Processes
 - Easy Access to “Copy of Record”



Benefits

- DEQ-IT Impact
 - Manageability
 - Stand-Alone
 - Flexible
 - Open Source



Meets CROMERR Requirements

- Secure
- Identity-proofing of registrant
- Provides opportunity to review document before signing
- Binds Signature to Document
- Access to Copy of Record
- Retain authenticity of Copy of Record (no modifications after signed)
- Error Checking
- Acknowledgment Workflow



Meeting the Mandates Goals

- Paperless
- Agency-wide Online Permitting
- Standardize
- Address Staff Needs



Questions and Contacts

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