

## iConnect 181602 Design Approach

### Project Overview

Allow MDE Providers to encrypt and sign the XML payload

### Features/Requirements

- Allow provider to add an encryption key to the provider config.
- Allow provider to specify if payload should be signed using the provider config.

### Use Cases / Workflow Changes

Other config changes- all logic will be handled in the base MDE provider.

### Admin Changes

N/A

### App Changes

N/A

### Integration Changes

MDE provider supports encrypt and sign of xml Payload

### UI Mock Ups

```
<add key="pgpencryption" value="true to encrypt false to not encrypt" />
<add key="pgpencryptandsign" value="true to sign, false to leave unsigned. Always false if
pgpencryption is false" />
<add key="PGPEncryptionKey" value="Provider's Public Encryption Key" />
<add key="PGPSigningCert" value="Firelight's Private Signing Key"/>
<add key="PGPSigningKeyPass" value="Password for Signing Key" />
<add key="PGPSigningKeyId" value="FireLight KEY ID" />]
```

### How to Enable and Use This Feature

Add keys to App Setting in the provider config

- If encrypting the payload, make sure the provider's public encryption key is added to config
- If signing the payload, Insurance Technologies will set up a private key to sign and will provide the provider with the public key for verifying the signature.

Verify the config is deployed to the integration config folder.

Verify the provider config is referenced by the organization assembly table.

### Areas Impacted

System Area	Yes	Comment
<b>Admin Tool</b>	N	
- Form Library	N	
- Design Forms	N	
- Profile Administration	N	
- Reports	N	
- Deployment	N	
<b>FireLight App</b>		
- New Application	N	
- Edit Application	N	
- Signature Process	N	
- Review Queue	N	
- Manual Review	N	
- User Preferences	N	
- Inbound Integration	N	
- Outbound Integration	Y	MDE allows for the provider to encrypt and sign xml payload. By default, it will be sent unencrypted and unsigned.
- PDF Generation	N	
- Email System	N	
<b>FireLight Console</b>	N	
- Windows	N	
- iOS	N	
<b>Other Systems</b>	N	
- DTCC Integration	N	
- Commission Netting	N	

- Activity Reporting	N	