INSURANCE TECHNOLOGIES

Security Enhancements 2.21 August (243548)

FIRELIGHT BASE

FireLight®

Platform

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iConnect 243548 Design Approach - Security Enhancements 2.21 August (243548)

Security enhancements will be made to add NPM Package Audits, work through Nuget packages and perform clean-up of jQuery libraries from 2.19 web penetration scan.

Impacts:

Potential client impact-discontinuation of support for IE versions 8 and 9

Potential widespread UI impact - libraries are used in all non-react areas of system. Test through system: navigation, button clicks, etc.

Internal Security-no client impacts

1 Security Enhancements 2.21: Nuget Packages

1.1 Work through Nuget Packages

Third party assembly references - remove and transfer to Nuget

Update Nuget packages, review which ones not to update (i.e jQuery and bootstrap)

Upgrade all existing packages to the latest version. (web portal, admin, support tool, etc)

2 Web Penetration Scan

The 2.19 web penetration scan provided results to be remediated. Specially, the JQuery libraries with known vulnerabilities will be updated.

2.1 Security: JQuery Libraries, JQuery-UI-Dialog, JQuery Validation

The 2.19 web penetration scan discovered JQuery libraries with known vulnerabilities. Security enhancements will be done to remediate any known vulnerabilities within these libraries.

Latest Acunetix scan against 2.19 used for analysis.

JQuery 1.9.1

JQuery-Migrate 1.2.1

JQuery-UI-Dialog 1.10.4

JQuery Validation 1.13.0

Acceptance Criteria

- Web penetration scan results are remediated.
- JQuery libraries with known vulnerabilities are updated.
- Security enhancements complete to remediate known vulnerabilities within JQuery libraries.
- Overall navigation and button clicks in FireLight Admin and App are not negatively impacted.

3 Security Enhancements 2.21: NPM Package Audit

Audits are required to begin on NPM packages for updates and security issues every release.

3.1 Security Enhancements 2.21: NPM Package Audit

We need to start auditing our NPM packages for updates and security issues every release. This should be done in the first sprint, so we have plenty of time to test updated packages.

Security vulnerabilities may be seen by running "npm audit" in the root directories of the EGApp and EGAdmin projects. Some items can be fixed automatically, others will need to be manually fixed by adjusting package versions or adding/removing packages.

A reporting utility can be installed so we can periodically generate reports of vulnerabilities.

We should also upgrade any packages that we can, including NPM and any separate .js scripts we have downloaded in the past (jQuery extensions being one example).

Check to see if this can be added into the build process to automate the auditing and generate a report.

Acceptance Criteria

- Process implemented for auditing NPM packages.