

## New Functionality

### Open source BladeRunnerJS (BRJS)

Caplin Trader is now built on the recently open-sourced BRJS, which provides the core framework and tooling to create enterprise scale, modular, web-apps. You can browse the code to gain better understanding, participate in an open development process, have early access to new features and gain advantage from shared contributions. It already includes many productivity enhancements; faster bundling, better dependency analysis, more documentation and examples, better logging and error messages, etc.

### Plugin architecture

BRJS is designed around a new extensible plugin architecture. This allows for integration of new technologies and support for your own conventions and favourite tools. We have already written a plugin to support Appcache, we will be integrating with Node.js in the near future, and we will be ready for Web Components and ES6.

### Support for CommonJS code style

Most developers are more comfortable writing JavaScript code in the CommonJS, or closely related Node.js styles. Code is more compact and easier to read. Encapsulation is enforced with closures. Dependencies are clearer, being explicitly defined with the `require()` function. The new style is fully interoperable with our existing code. You can write in the new CommonJs style and still use your existing code.

### Improved JavaScript libraries

As well as improvements to the existing core APIs and classes, three new JavaScript libraries are provided

- Topiarist: enhanced support for classes, inheritance, interfaces and mixins.
- Fell: highly configurable and performant client-side logging.
- Emitr: implements the popular emitter pattern as used in Backbone.

### Deployment to non-J2EE app-servers

You can generate a ZIP file to be deployed on other web-servers (e.g., Apache, IIS, etc.). A J2EE server is still required to support KeyMaster for Single Sign-On and the Webcentric servlet for layout persistence.

### Multi-file mode

Web pages can be configured to request code as individual files, rather than one large bundle. Also the URLs used do not change with each browser refresh. This makes using the browser's interactive debugger a far better experience – breakpoints are preserved on reload and line numbers match the source code. A great improvement in developer productivity.

## Benefits

- New plugin design allows for deeper customisation and integration of new technologies. This reduces the cost of upgrades and helps to future proof your investment.
- Modern JavaScript code style is more familiar to web developers.
- Enhanced debugging for faster problem diagnosis.
- Faster code/reload cycle, enhances developer productivity.
- Better dependency analysis reduces download size for faster loading apps.
- Support for deployment to web servers e.g., Apache.
- Open source BladeRunnerJS provides more transparent codebase and development process.

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