

Johnson Controls Inc.

OSS Disclosures

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|-------------------------|--------------------------------------|
| Product name | OpenBlue CUPO Plant Optimizer |
| Version | 2025.Q3 |
| Date of creation | 7/9/2025 |

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Address

Legal Department

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P.O. Box 591. Milwaukee, WI 53201

USA

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Open source software Components

| Component Name | Version | License |
|---|---------|---|
| nuget:Microsoft.Extensions.Options.ConfigurationExtensions | 2.0.0 | Apache-2.0 |
| nuget:NLog | 4.5.11 | BSD-3-Clause |
| nuget:Microsoft.Extensions.DependencyInjection | 2.0.0 | Apache-2.0 |
| nuget:Microsoft.Extensions.Logging | 2.0.1 | Apache-2.0 |
| nuget:Microsoft.Extensions.Configuration.Json | 2.0.0 | Apache-2.0 |
| nuget:Microsoft.Extensions.Configuration.EnvironmentVariables | 2.0.0 | Apache-2.0 |
| nuget:Microsoft.Extensions.Configuration.FileExtensions | 2.0.0 | Apache-2.0 |
| nuget:Microsoft.Extensions.Configuration.UserSecrets | 2.0.0 | Apache-2.0 |
| nuget:NLog.Extensions.Logging | 1.3.0 | BSD-2-Clause |
| nuget:Microsoft.Extensions.Logging.Abstractions | 2.0.1 | Apache-2.0 |
| nuget:Microsoft.Extensions.Options | 2.0.1 | Apache-2.0 |
| nuget:System.Data.SqlClient | 4.8.6 | MIT |
| nuget:Insight.Database | 6.2.7 | Apache-2.0 |
| nuget:Microsoft.Extensions.DependencyInjection.Abstractions | 2.0.0 | Apache-2.0 |
| nuget:Microsoft.Extensions.Logging.Debug | 2.0.0 | Apache-2.0 |
| nuget:Microsoft.Extensions.Logging.Console | 2.0.0 | Apache-2.0 |
| nuget:Microsoft.Extensions.DependencyInjection.Abstractions | 2.2.0 | Apache-2.0 |
| nuget:Microsoft.Extensions.Options | 2.2.0 | Apache-2.0 |
| nuget:Microsoft.Extensions.Logging.Abstractions | 2.2.0 | Apache-2.0 |
| nuget:Microsoft.CSharp | 4.7.0 | MIT |
| nuget:Microsoft.Extensions.Caching.Memory | 2.2.0 | Apache-2.0 |
| nuget:Newtonsoft.Json | 13.0.3 | MIT |
| nuget:Microsoft.Extensions.Configuration | 2.2.0 | Apache-2.0 |
| nuget:Microsoft.Extensions.Configuration.Binder | 2.0.0 | Apache-2.0 |
| nuget:Microsoft.AspNetCore.DataProtection | 2.0.0 | Apache-2.0 |
| nuget:Microsoft.AspNetCore.Identity | 2.2.0 | Apache-2.0 |
| nuget:NodaTime | 3.0.5 | Apache-2.0 |
| nuget:Microsoft.Extensions.Logging | 2.0.0 | Apache-2.0 |
| nuget:Ninject | 3.3.4 | Apache-2.0 OR MS-PL (Apache is chosen) |

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|---|---------|--------------|
| nuget:System.Reactive | 3.1.1 | Apache-2.0 |
| nuget:Microsoft.NETCore.Platforms | 2.0.0 | MIT |
| nuget:Microsoft.NET.Test.Sdk | 15.5.0 | MIT |
| nuget:xunit | 2.3.1 | Apache-2.0 |
| nuget:xunit.runner.visualstudio | 2.3.1 | Apache-2.0 |
| nuget:Moq | 4.8.3 | BSD-3-Clause |
| nuget:xunit | 2.4.1 | Apache-2.0 |
| nuget:xunit.runner.visualstudio | 2.4.1 | Apache-2.0 |
| nuget:Xunit.SkippableFact | 1.3.12 | MS-PL |
| nuget:NJsonSchema | 9.10.46 | MIT |
| nuget:Microsoft.Azure.DocumentDB | 1.15.0 | MIT |
| nuget:CommandLineParser | 1.9.71 | MIT |
| npm:mkdirp | 0.5.1 | MIT |
| npm:yarn | 1.22.10 | BSD-2-Clause |
| npm:highcharts-export-server | 2.0.28 | MIT |
| nuget:System.Net.Http | 4.3.4 | MIT |
| nuget:Polly | 5.8.0 | BSD-3-Clause |
| nuget:NLog | 4.5.11 | BSD-3-Clause |
| nuget:Microsoft.Extensions.Configuration.EnvironmentVariables | 2.1.1 | Apache-2.0 |
| nuget:Microsoft.Extensions.Configuration.Json | 2.1.1 | Apache-2.0 |
| nuget:Microsoft.Extensions.DependencyInjection | 2.1.1 | Apache-2.0 |
| nuget:Microsoft.Extensions.Logging | 2.1.1 | Apache-2.0 |
| nuget:Microsoft.Extensions.Configuration.Abstractions | 2.1.1 | Apache-2.0 |
| nuget:Microsoft.Extensions.Options | 2.1.1 | Apache-2.0 |
| nuget:Microsoft.Extensions.Configuration.UserSecrets | 2.1.1 | Apache-2.0 |
| nuget:Microsoft.Extensions.Configuration.CommandLine | 2.1.1 | Apache-2.0 |
| nuget:Microsoft.Extensions.Options.ConfigurationExtensions | 2.1.1 | Apache-2.0 |
| nuget:NLog.Extensions.Logging | 1.3.0 | BSD-2-Clause |
| nuget:System.ServiceModel.Primitives | 4.10.0 | MIT |
| nuget:System.ServiceModel.Http | 4.10.0 | MIT |
| nuget:Newtonsoft.Json | 13.0.3 | MIT |
| nuget:System.Reactive | 3.1.1 | Apache-2.0 |
| nuget:System.ServiceProcess.ServiceController | 4.5.0 | MIT |
| nuget:xunit | 2.4.1 | Apache-2.0 |
| nuget:Microsoft.NET.Test.Sdk | 15.9.0 | MIT |
| nuget:xunit.runner.visualstudio | 2.4.1 | Apache-2.0 |

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|---|----------|--|
| nuget:Moq | 4.10.0 | BSD-3-Clause |
| nuget:WireMock.Net | 1.0.2.13 | Apache-2.0 |
| nuget:Microsoft.Extensions.Configuration.Json | 3.1.6 | Apache-2.0 |
| nuget:Microsoft.Extensions.Hosting | 3.1.6 | Apache-2.0 |
| nuget:Microsoft.Extensions.DependencyInjection | 3.1.6 | Apache-2.0 |
| nuget:Microsoft.Extensions.Configuration.EnvironmentVariables | 3.1.6 | Apache-2.0 |
| nuget:Microsoft.Extensions.Configuration.FileExtensions | 3.1.6 | Apache-2.0 |
| nuget:Microsoft.Extensions.Logging | 3.1.6 | Apache-2.0 |
| nuget:Microsoft.Extensions.Configuration.CommandLine | 3.1.6 | Apache-2.0 |
| nuget:NLog | 4.7.3 | BSD-3-Clause |
| nuget:Flurl.Http | 2.4.0 | MIT |
| nuget:Microsoft.Extensions.Options.ConfigurationExtensions | 3.1.6 | Apache-2.0 |
| nuget:Microsoft.Extensions.Hosting.WindowsServices | 3.1.6 | Apache-2.0 |
| nuget:Microsoft.NET.Test.Sdk | 16.5.0 | MIT |
| nuget:coverlet.collector | 1.2.0 | MIT |
| nuget:xunit | 2.4.0 | Apache-2.0 |
| nuget:xunit.runner.visualstudio | 2.4.0 | Apache-2.0 |
| nuget:Microsoft.Extensions.Configuration.FileExtensions | 2.1.1 | Apache-2.0 |
| nuget:Confluent.Kafka | 2.2.0 | Apache-2.0 |
| nuget:NLog.Extensions.AzureBlobStorage | 3.1.0 | MIT |
| nuget:Azure.Storage.Blobs | 12.11.0 | MIT |
| nuget:ncrontab | 3.3.1 | Apache-2.0 |
| nuget:NLog.Web.AspNetCore | 4.14.0 | BSD-3-Clause |
| nuget:Azure.Messaging.EventHubs | 5.6.2 | MIT |
| nuget:Azure.Messaging.EventHubs.Processor | 5.6.2 | MIT |
| nuget:Microsoft.Extensions.Options | 2.2.0 | Apache-2.0 |
| nuget:Microsoft.Extensions.Configuration.Abstractions | 2.2.0 | Apache-2.0 |
| nuget:Microsoft.Extensions.Configuration.Binder | 2.2.0 | Apache-2.0 |
| nuget:CsvHelper | 16.2.0 | Apache-2.0 OR MS-PL (Apache-2.0 is chosen) |
| nuget:NLog | 4.7.12 | BSD-3-Clause |
| nuget:NLog | 4.7.15 | BSD-3-Clause |
| nuget:Microsoft.Extensions.Hosting | 3.1.4 | Apache-2.0 |
| nuget:Microsoft.Extensions.Hosting.WindowsServices | 3.1.7 | Apache-2.0 |

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| nuget:System.Reactive.Interfaces | 3.1.1 | Apache-2.0 |
| nuget:Microsoft.Extensions.Configuration.Binder | 2.1.1 | Apache-2.0 |
| nuget:System.Reactive.Core | 3.1.1 | Apache-2.0 |
| nuget:System.Reactive.PlatformServices | 3.1.1 | Apache-2.0 |
| nuget:System.Reactive.Linq | 3.1.1 | Apache-2.0 |
| nuget:Microsoft.Extensions.Logging.Abstractions | 2.1.1 | Apache-2.0 |
| nuget:Microsoft.Extensions.Logging.Abstractions | 2.2.0 | Apache-2.0 |
| nuget:System.Collections.Immutable | 1.4.0 | MIT |
| nuget:Microsoft.Extensions.Configuration | 2.2.0 | Apache-2.0 |
| nuget:Ninject | 3.3.4 | Apache-2.0 OR MS-PL (Apache is chosen) |
| nuget:ninject.extensions.conventions | 3.3.0 | Apache-2.0 OR MS-PL (Apache is chosen) |
| nuget:Ninject.Extensions.Factory | 3.3.2 | Apache-2.0 OR MS-PL (Apache is chosen) |
| nuget:Polly | 5.2.0 | BSD-3-Clause |
| nuget:Microsoft.NET.Test.Sdk | 15.5.0 | MICROSOFT SOFTWARE LICENSE TERMS |
| nuget:Microsoft.Reactive.Testing | 3.1.1 | MIT |
| nuget:Microsoft.Reactive.Testing | 4.1.2 | MIT |
| nuget:Microsoft.Extensions.Options.ConfigurationExtensions | 2.2.0 | Apache-2.0 |
| nuget:Microsoft.Extensions.Configuration.FileExtensions | 2.2.0 | Apache-2.0 |
| nuget:Microsoft.Extensions.Configuration.Json | 2.2.0 | Apache-2.0 |
| nuget:Microsoft.Extensions.DependencyInjection | 2.2.0 | Apache-2.0 |
| nuget:Microsoft.Extensions.Logging | 2.2.0 | Apache-2.0 |
| nuget:Microsoft.Extensions.Configuration.EnvironmentVariables | 2.2.0 | Apache-2.0 |
| nuget:Microsoft.Extensions.Configuration.CommandLine | 2.2.0 | Apache-2.0 |
| nuget:System.ValueTuple | 4.5.0 | MIT |
| nuget:Microsoft.Extensions.Configuration.Json | 2.0.2 | Apache-2.0 |
| nuget:NJsonSchema | 9.12.5 | MIT |
| nuget:Microsoft.Extensions.FileProviders.Abstractions | 2.2.0 | Apache-2.0 |
| nuget:Moq | 4.10.1 | BSD-3-Clause |
| nuget:Xunit.SkippableFact | 1.3.12 | MS-PL |
| nuget:Selenium.WebDriver.ChromeDriver | 2.37.0 | Unlicense |

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| nuget:Newtonsoft.Json | 11.0.2 | MIT |
| nuget:NLog | 4.7.5 | BSD-3-Clause |
| nuget:Edge.js | 8.2.1 | Apache-2.0 |
| npm:colors | 1.4.0 | MIT |
| npm:debug | ^ 4.1.1 | MIT |
| npm:lodash | ^ 4.17.21 | MIT |
| npm:rxjs | 5.5.8 | Apache-2.0 |
| npm:gulp | 3.9.1 | MIT |
| npm:minimatch | ^ 3.0.4 | ISC |
| npm:cryptiles | ^ 4.1.3 | BSD-3-Clause |
| npm:@angular/common | 5.2.9 | MIT |
| npm:@angular/compiler | 5.2.9 | MIT |
| npm:@angular/core | 5.2.9 | MIT |
| npm:@angular/forms | 5.2.9 | MIT |
| npm:@angular/platform-browser | 5.2.9 | MIT |
| npm:@angular/platform-browser-dynamic | 5.2.9 | MIT |
| npm:@angular/router | 5.2.9 | MIT |
| npm:@angular/compiler-cli | 5.2.9 | MIT |
| npm:negotiator | ^ 0.6.2 | MIT |
| npm:uglify-js | ^ 3.13.7 | BSD-2-Clause |
| npm:zone.js | 0.8.25 | MIT |
| npm:@types/node | 9.6.50 | MIT |
| npm:@ng-idle/core | 2.0.0-beta.15 | Apache-2.0 |
| npm:@ng-idle/keepalive | 2.0.0-beta.15 | Apache-2.0 |
| npm:font-awesome | 4.7.0 | MIT AND OFL-1.1 |
| npm:gulp | ^ 3.9.1 | MIT |
| npm:event-stream | 3.3.4 | MIT |
| npm:merge | 2.1.1 | MIT |
| npm:http-status-codes | 1.3.0 | MIT |
| npm:gulp-uglify | 3.0.0 | MIT |
| npm:gulp-concat | ^ 2.6.1 | MIT |
| npm:gulp-less | 3.3.2 | MIT |
| npm:gulp-rename | 1.2.2 | MIT |
| npm:natives | ^ 1.1.6 | ISC |
| npm:del | 3.0.0 | MIT |
| npm:rimraf | ^ 2.6.2 | ISC |
| npm:intl | ^ 1.2.5 | MIT |
| npm:jasmine-core | 3.3.0 | MIT |
| npm:classlist.js | ^ 1.1.20150312 | MIT |
| npm:tslib | ^ 1.10.0 | Apache-2.0 |
| npm:karma-coverage | ^ 1.1.1 | MIT |
| npm:karma-mocha-reporter | ^ 2.2.5 | MIT |
| npm:karma-chrome-launcher | ^ 2.2.0 | MIT |

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| npm:through2 | ^ 2.0.3 | MIT |
| npm:reflect-metadata | ^ 0.1.10 | Apache-2.0 |
| npm:tslint-language-service | ^ 0.9.9 | MIT |
| npm:karma-teamcity-reporter | 1.1.0 | MIT |
| npm:bootstrap | ^ 3.3.7 | MIT |
| npm:less-plugin-clean-css | 1.5.1 | Apache-2.0 |
| npm:gulp-sequence | ^ 0.4.6 | MIT |
| npm:karma-cli | ^ 1.0.1 | MIT |
| npm:glob | ^ 7.1.2 | ISC |
| npm:core-js | ^ 2.5.1 | MIT |
| npm:gulp-inline-ng2-template | ^ 4.0.0 | MIT |
| npm:gulp-replace | ^ 0.6.1 | MIT |
| npm:gulp-sourcemaps | ^ 2.6.1 | ISC |
| npm:gulp-typescript | ^ 3.2.3 | MIT |
| npm:gulp-watch | ^ 4.3.11 | MIT |
| npm:traceur | ^ 0.0.111 | Apache-2.0 |
| npm:karma | ^ 2.0.0 | MIT |
| npm:karma-jasmine | ^ 1.1.1 | MIT |
| npm:gulp-filter | ^ 5.0.1 | MIT |
| npm:tslint | ^ 5.9.1 | Apache-2.0 |
| npm:gulp-debug | ^ 3.1.0 | MIT |
| npm:less-plugin-autoprefixer | 1.5.1 | Apache-2.0 |
| npm:karma-super-dots-reporter | ^ 0.1.0 | MIT |
| npm:gulp-read | 0.0.1 | MIT |
| npm:karma-jasmine-html-reporter | ^ 1.0.0 | MIT |
| npm:run-sequence | ^ 2.2.0 | MIT |
| npm:ts-keycode-enum | ^ 1.0.4 | MIT |
| npm:parse-gitignore | 0.4.0 | MIT |
| npm:systemjs-plugin-traceur | 0.0.3 | MIT |
| npm:systemjs-builder | ^ 0.16.12 | MIT |
| npm:typescript | ~ 2.6.0 | Apache-2.0 |
| npm:gulp-mustache | ^ 3.0.0 | MIT |
| npm:gulp-run-command | 0.0.9 | MIT |
| npm:gulp-strip-json-comments | ^ 2.1.0 | MIT |
| npm:gulp-merge-json | ^ 1.2.0 | MIT |
| npm:@types/core-js | ~ 0.9.43 | MIT |
| npm:karma-nested-reporter | ^ 0.1.6 | MIT |
| npm:file-exists | 5.0.0 | MIT |
| npm:ng2-bs3-modal | 0.13.0 | ISC |
| npm:jquery | 3.5 | MIT |
| npm:systemjs | ~ 0.20.19 | MIT |
| npm:angular-l10n | ^ 4.0.0 | MIT |
| npm:@types/systemjs | ~ 0.20.6 | MIT |

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| npm:gulp-merge-translations | ^ 0.1.1 | MIT |
| npm:gulp-compare-json | ^ 0.2.0 | MIT |
| nuget:xunit | 2.4.1 | Apache-2.0 |
| nuget:xunit.runner.visualstudio | 2.4.1 | Apache-2.0 |
| nuget:Microsoft.NET.Test.Sdk | 15.5.0 | MIT |
| nuget:Moq | 4.7.63 | BSD-3-Clause |
| nuget:Microsoft.Extensions.Http | 2.1.0 | Apache-2.0 |
| nuget:Microsoft.Extensions.DependencyInjection | 2.0.0 | Apache-2.0 |
| nuget:Polly | 5.3.1 | BSD-3-Clause |
| nuget:Microsoft.Extensions.Caching.Abstractions | 2.0.0 | Apache-2.0 |
| nuget:Microsoft.Extensions.Caching.Memory | 2.0.0 | Apache-2.0 |
| nuget:Microsoft.AspNetCore.Authorization.Policy | 2.2.0 | Apache-2.0 |
| nuget:Microsoft.AspNetCore | 2.1.0 | Apache-2.0 |
| nuget:Microsoft.AspNetCore.Authorization | 2.0.1 | Apache-2.0 |
| nuget:Microsoft.AspNetCore.Mvc.Abstractions | 2.0.1 | Apache-2.0 |
| nuget:NodaTime | 3.0.1 | Apache-2.0 |
| nuget:Microsoft.Data.Services.Client | 5.8.4 | MIT |
| nuget:Hangfire.Console | 1.4.2 | MIT |
| nuget:Microsoft.Extensions.FileProviders.Abstractions | 2.2.0 | Apache-2.0 |
| nuget:System.Security.Cryptography.Xml | 4.5.0 | MIT |
| nuget:Microsoft.Extensions.Configuration | 2.1.0 | Apache-2.0 |
| nuget:Swashbuckle.AspNetCore | 5.0.0 | MIT |
| nuget:Microsoft.Extensions.Options.ConfigurationExtensions | 2.0.0 | Apache-2.0 |
| nuget:NLog | 4.5.6 | BSD-3-Clause |
| nuget:Microsoft.Extensions.FileProviders.Embedded | 2.0.0 | Apache-2.0 |
| nuget:Microsoft.Extensions.Configuration.Json | 2.0.0 | Apache-2.0 |
| nuget:NLog.Web.AspNetCore | 4.5.4 | BSD-3-Clause |
| nuget:Microsoft.Extensions.Logging.Debug | 2.0.0 | Apache-2.0 |
| nuget:Microsoft.Extensions.Configuration.EnvironmentVariables | 2.0.0 | Apache-2.0 |
| nuget:Microsoft.Extensions.Logging.Configuration | 2.0.0 | Apache-2.0 |
| nuget:Microsoft.Extensions.Logging.Console | 2.0.0 | Apache-2.0 |
| nuget:Microsoft.AspNetCore.Mvc.NewtonsoftJson | 3.1.30 | Apache-2.0 |
| nuget:Microsoft.Extensions.FileProviders.Composite | 2.0.0 | Apache-2.0 |

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|---|----------------------------|-----------------|
| nuget:Microsoft.VisualStudio.Web.BrowserLink | 2.0.1 | Apache-2.0 |
| nuget:Swashbuckle.AspNetCore.SwaggerGen | 6.2.1 | MIT |
| nuget:System.IdentityModel.Tokens.Jwt | 6.10.2 | MIT |
| nuget:Hangfire | 1.7.25 | LGPL v3 License |
| nuget:Swashbuckle.AspNetCore.SwaggerUI | 6.2.1 | MIT |
| nuget:Newtonsoft.Json | 13.0.3 | MIT |
| nuget:Microsoft.Extensions.Configuration.Abstractions | 2.2.0 | Apache-2.0 |
| nuget:Microsoft.Extensions.Configuration | 2.0.0 | Apache-2.0 |
| nuget:Microsoft.AspNetCore.Hosting | 2.0.1 | Apache-2.0 |
| nuget:Microsoft.AspNetCore.Server.Kestrel | 2.0.1 | Apache-2.0 |
| nuget:System.Data.SqlClient | 4.8.6 | MIT |
| nuget:Selenium.WebDriver.ChromeDriver | 2.37.0 | Unlicense |
| nuget:Selenium.WebDriver.GeckoDriver | 0.20.0 | Unlicense |
| nuget:Selenium.WebDriver.IEDriver | 3.11.1 | Unlicense |
| nuget:xunit | 2.2.0 | Apache-2.0 |
| nuget:xunit.runner.visualstudio | 2.2.0 | Apache-2.0 |
| nuget:Microsoft.NET.Test.Sdk | 15.3.0-preview-20170628-02 | MIT |
| nuget:Microsoft.AspNetCore.Mvc.WebApiCompatShim | 2.2.0 | Apache-2.0 |
| nuget:System.Drawing.Common | 5.0.3 | MIT |
| nuget:Microsoft.Extensions.Logging | 3.1.18 | Apache-2.0 |
| nuget:Microsoft.AspNetCore.Mvc | 2.0.1 | Apache-2.0 |
| nuget:Microsoft.Extensions.Logging | 2.0.0 | Apache-2.0 |
| nuget:log4net | 2.0.10 | Apache-2.0 |
| nuget:Microsoft.Extensions.DependencyInjection.Abstractions | 2.0.0 | Apache-2.0 |
| nuget:Microsoft.Extensions.Logging.Abstractions | 2.0.0 | Apache-2.0 |
| nuget:Microsoft.Extensions.Primitives | 2.0.0 | Apache-2.0 |
| nuget:Microsoft.Extensions.Options | 2.0.0 | Apache-2.0 |
| nuget:System.Runtime.CompilerServices.Unsafe | 4.4.0 | MIT |
| nuget:BACnetEncoding | 6.2.0.104 | MIT |

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Version 2.0, January 2004

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