**DEA.04.24.02** Design and Documentation

**Acceptance Criteria**

(11)-The product architecture and design model includes a list of technologies that have been used to manage, implement, and test the product.

**Design Content in SDD**

SDD Section 3.3.2. Special Technology

**Artifact Compliance to DE&A Templates**

Yes

**DE&A Artifact Sample**

TRM Compliance

**SDD Artifact**

Table 4 - MCCF EDI TAS Software Packages

| **Tool** | **Environment** | **MCCF Version** | **TRM Version** | **TRM ID** | **TRM Date** | **TRM Waiver Status** | **MCCF Review Date** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Health Level 7 (HL7) Application Programming Interface (API)- Fast Healthcare Interoperable Resources (FHIR) | Prototype | 2.2 | 2.x | 8870 | 06/02/2017 | Approved | 12/06/2017 |
| VistA | Production |  |  |  |  |  | 02/27/2017 |
| NPM | Production | 5.x | Not on TRM |  |  | Not Required, INCUDED IN FRAMEWORK | 11/02/2017 |
| Postman | Production |  |  |  |  |  |  |
| Typings | Production | 2.1.1 | **Not on TRM** |  |  |  | 11/22/2017 |
| zone.js | Production | ^0.7.2 | **Not on TRM** |  |  | Not Required, INCUDED IN FRAMEWORK | 11/22/2017 |
| errorhandler | production | 1.5.x |  |  |  | Submitted to PMO CM | 11/22/2017 |
| elasticsearch.js | Production | 5.6.x |  |  |  | submitted to PMO CM | 11/22/2017 |
| Font Awesome | Production | 4.7.x | 5.x | 10342 | 11/29/2017 | Approved w/Constraints | 12/01/2017 |
| primeNG | Production | 4.2 | 4.x | 11566 | 11/27/2017 | Approved w/Constraints | 12/01/2017 |
| TypeDoc | Production | 4.2 | 0.8.0 | 11563 | 11/27/2017 | Approved w/constraints | 12/01/2017 |
| azure-storage-node | Production | 2.6.x |  |  |  | Submitted to PMO CM | 12/01/2017 |
| angular-calendar | Production | 0.21.2 | Not on TRM |  |  | UNAPPROVED | 12/06/2017 |
| AngularJS | Production | 2.4 | 4.0.x | 7842 | 06/02/2017 | Approved w/Constraints | 12/06/2017 |
| Bower | Production | 1.8.x | 1.8.x | 8183 | 08/02/2017 | Not Requested | 12/06/2017 |
| core-js | Production | ^2.4.1 | 2.4.x | 10276 | 11/30/2016 | Not Required | 12/06/2017 |
| TypeScript | Production | 2.1 | 2.x.x | 9883 | 05/30/2017 | Approved | 12/06/2017 |
| Ansible | Production | 2.4 | 2.3 | 8196 | 10/25/2017 | submitted to PMO CM | 12/06/2017 |
| Apache HTTP Server | Production | 2.4.6-45 | 2.4.x | 5009 | 06/19/2017 | Approved w/Constraints | 12/06/2017 |
| Apache Tomcat | Production | **7.0.76** | 9.x | 5451 | 02/14/2017 | Divest | 12/06/2017 |
| Application Insights for Node.js | Production | 0.21.x | 0.21.x | 11328 | 09/11/2017 | Approved | 12/06/2017 |
| axe-core | Production | 2.3.1 | 2.x | 11518 | 10/25/2017 | Approved | 12/06/2017 |
| axe-webdriverjs | Production | 1.1.x | 1.1.x | 11334 | 09/11/2017 | Approved | 12/06/2017 |
| Body-Parser | Production | **1.16** | 1.15.x | 8242 | 06/24/2016 | **\*\*\* This entry has been marked as ARCHIVED \*\*\*** | 12/06/2017 |
| Bootstrap | Production | 3.3.7 | 3.3.x | 7795 | 06/21/2017 | Not Required | 12/06/2017 |
| CentOS Linux | Production | 7 | 7.x | 6460 | 05/03/2017 | Approved w/Constraints | 12/06/2017 |
| Debug | Production | 3.1.x | 2.3.x | 8967 | 12/13/2016 | Approved w/Constraints | 12/06/2017 |
| Drools | Production | 6.4 | 6.4, 7.3.x | 5003 | 10/25/2017 | Not Requested | 12/06/2017 |
| Elasticsearch | Production | 5.6.x | 5.x | 7305 | 02/28/2017 | Approved w/Constraints | 12/06/2017 |
| Embedded JavaScript Templating (EJS) | Production | 2.5.5 | 2.5.x | 10913 | 06/07/2017 | Approved | 12/06/2017 |
| Express JS | Production | 4.14 | 4.x | 7729 | 11/30/2016 | Not Required | 12/06/2017 |
| Google Chrome | Production | **60.x** | 58.x | 5618 | 11/23/2016 | UNAPPROVED | 12/06/2017 |
| Google GSON | Production | 2.7.x | 2.7.x | 7348 | 11/23/2016 | Not Requested | 12/06/2017 |
| Groovy | Production | 2.4.9 | 2.4.x | 9262 | 11/10/2016 | Not Requested | 12/06/2017 |
| Grunt | Production | 1.0.1 | 1.0.x | 8162 | 05/28/2017 | Approved | 12/06/2017 |
| JavaScript (JS) Beautifier | Production | 1.6.x | 1.6.x | 11329 | 09/11/2017 | Approved | 12/06/2017 |
| JMESPath JS | Production | 0.15.0 | 0.15.x | 11497 | 10/25/2017 | Approved | 12/06/2017 |
| jQuery | Production | **3.1.1** | 2.2.x | 6706 | 06/28/2016 | **\*\*\* This entry has been marked as ARCHIVED \*\*\*** | 12/06/2017 |
| jsdom | Production | 10.1.0 | 10.x, 11.x | 11176 | 07/28/2017 | Approved | 12/06/2017 |
| MongoDB Enterprise | Production | **3.4** | 3.4.x | 6379 | 11/22/2017 | UNAPPROVED | 12/06/2017 |
| Mongo DB NodeJS Driver | Production | 2.2.x | 2.2.x | 8249 | 08/18/2017 | Approved | 12/06/2017 |
| Mongoose | Production | 4.9.x | 4.9.x | 9936 | 06/08/2017 | Approved w/Constraints |  |
| Morgan | Production | 1.7 | 1.7.x | 8256 | 06/24/2016 | **\*\*\* This entry has been marked as ARCHIVED \*\*\*** | 12/06/2017 |
| MuleESB | Production | 3.8.1 | 3.8.x | 6649 | 06/07/2017 | Not Required | 12/06/2017 |
| Nexus | Production | 3.5.2 | 3.5.x | 6411 | 09/15/2017 | Approved w/Constraints | 12/06/2017 |
| NGINX | Production | 1.11 | 1.12.x | 6605 | 06/20/2017 | Approved w/Constraints | 12/06/2017 |
| ngx-clipboard | Production | 8.0.x | 8.0.x | 11327 | 09/11/2017 | Approved | 12/06/2017 |
| ngx-datatable | Production | 10.0.x | 10.0.x | 11333 | 09/11/2017 | Approved | 12/06/2017 |
| Node.js | Production | 8.x | 6.x | 6716 | 08/18/2017 | Approved w/constraints | 12/06/2017 |
| node-rules | Production | 3.1.0 | 3.1.x | 10857 | 05/29/2017 | Approved | 12/06/2017 |
| PM2 | Production | 2.4 | 2.4.x | 10869 | 05/30/2017 | Approved | 12/07/2017 |
| Request | Production | 2.83.x | 2.73.x | 8033 | 11/17/2017 | **\*\*\* This entry has been marked as ARCHIVED \*\*\*** | 12/07/2017 |
| Simple Logging Facade for Java (SLF4J) | Production | 1.7.21 | 1.7.x | 7735 | 01/18/2017 | Approved w/Constraints | 12/07/2017 |
| socket.io | Production | 2.0.x |  | 8947 | 04/13/2017 | **\*\*\* This entry has been marked as ARCHIVED \*\*\*** | 12/07/2017 |
| Swagger User Interface (UI) | Production | 2.1.x | 3.1.x | 8231 | 09/15/2017 | Approved w/Constraints | 12/07/2017 |
| Vagrant | Production | 1.9.x | 1.9.x | 7306 | 07/31/2017 | Approved w/Constraints | 12/07/2017 |
| winston | Production | 2.4.x | 2.2.x | 9857 | 06/30/2016 | Archived | 12/07/2017 |
| Kibana | Production | 5.6.x | 5.6.x | 7402 | 02/05/2017 | submitted to PMO CM | 12/08/2017 |
| Open Web Application Security Project (OWASP) Dependency-Check | Development (Jenkins) | 3.0.1 | 1.4.x | 8298 | 04/18/2017 | Approved w/Constraints | 12/07/2017 |
| KIDS Assembler | Development |  | Not on TRM |  |  | Not Requested | 02/27/2017 |
| angular-mocks | Development | ^1.5.0 | **Not on TRM** |  |  | Not Required, INCUDED IN FRAMEWORK | 10/25/2017 |
| check-dependencies | Development | **1.1.0** |  |  |  | Submitted to PMO CM | 11/22/2017 |
| Foundation | Development | **4.2.1** | Not on TRM |  |  | Not Requested | 11/22/2017 |
| grunt-nodemon | development | 0.4.x |  |  |  | Submitted to PMO CM | 11/22/2017 |
| angular-cli | Development | 1.0.0-beta.28.3 | 1.x | 11153 | 07/28/2017 | Approved | 12/06/2017 |
| Atom | Development | 1.22.1 | 1.x.x | [7721](http://trm.oit.va.gov/ToolPage.aspx?tid=7721) | 04/03/2017 | Not Requested | 12/06/2017 |
| dependency-check | Development | **2.8** |  |  |  | submitted to PMO CM | 12/06/2017 |
| Eclipse Classic | Development | **4.6.3** | 4.6 | 6316 | 11/17/2016 |  | 12/06/2017 |
| Git | Development | 2.11 | 2.11.x | 6396 | 12/08/2016 | Not Required | 12/06/2017 |
| Maven | Development | 3.3.9 | 3.3.x | 1101 | 11/23/2016 | Not Required | 12/06/2017 |
| MUnit | Development |  | 7.3.x | 10284 | 11/30/2016 | Approved w/Constraints |  |
| Istanbul | CIT | 0.4.5 | **Not on TRM** |  |  |  | 10/25/2017 |
| RxJS | CIT | 5.1.0 | **Not on TRM** |  |  | Not Required, INCUDED IN FRAMEWORK. | 11/22/2017 |
| sinon | CIT | 2.2.0 | **Not on TRM** |  |  | Not Required, INCUDED IN FRAMEWORK | 11/22/2017 |
| Chromium | CIT | 59 | 59 | 6515 | 09/29/2017 | UNAPPROVED | 12/06/2017 |
| Codelyzer | CIT | 3.1.x | 3.1.x | 11175 | 07/28/2017 | Approved | 12/06/2017 |
| JUnit | CIT | 4.12 | 4.12 | 38 | 07/25/2017 | Approved w/constraints | 12/06/2017 |
| junit-viewer | CIT | 4.11.1 | 4.x | 11181 | 07/28/2017 | Approved | 12/06/2017 |
| LoadUI Open Source Edition | CIT | 1.9.0 (Pro) | 2.8 | 6710 | 11/29/2017 | Unapproved | 12/06/2017 |
| mocha-junit-reporter | CIT | 1.13.0 | 1.13.0 | 11126 | 07/25/2017 | Approved | 12/06/2017 |
| mocha-logger | CIT | 1.0.5 | 1.0.x | 11174 | 07/28/2017 | Approved | 12/06/2017 |
| protractor-accessibility-plugin | CIT | 0.3.0 | 0.3.0 | 11204 | 07/30/2017 | UNAPPROVED | 12/07/2017 |
| SoapUI | CIT | **5.3.0** | 5.3.x | 6252 | 06/19/2017 | Approved w/Constraints |  |
| tslint | CI | ^4.1.1 | **Not on TRM** |  |  | Not Required, INCUDED IN FRAMEWORK. | 11/22/2017 |
| webdriver-manager | CI | 12.0.6 | **Not on TRM** |  |  |  | 11/22/2017 |
| webpack | CI | ^1.12.6 | **Not on TRM** |  |  | Not Required, INCLUDED IN FRAMEWORK. | 11/22/2017 |
| engine.io | CI | 3.1 | 3.1.x | 8931 | 11/27/2017 | Approved w/Constraints | 12/01/2017 |
| Protractor | CI | 5.1.2 | 5.2.x | 11589 | 11/28/2017 | Approved w/Constraints | 12/012017 |
| Selenium | CI | 2.20.0 | 3.6.x | 6440 | 11/27/2017 | Not Required | 12/01/2017 |
| Karma | CI | 1.1.x | 1.1.x | 8882 | 07/28/2016 | Not Requested |  |
| Chai | CI | 3.5.0 | 3.5.x | 10221 | 11/29/2016 | Not Required | 12/06/2017 |
| cross-os | CI | 1.1.2 | 1.1.x | 11520 | 10/25/2017 | Approved w/Constraints | 12/06/2017 |
| JAVA | CI | 8 (aka 1.8) | 8 (aka 1.8) | 8 | 06/19/2017 | Not Required | 12/06/2017 |
| Jenkins Continuous Integration Server | CI | 2.73.1 | 2.x | 6397 | 11/17/2016 | Not Required | 12/06/2017 |
| Mocha | CI | 3.5.x | 3.2.x | 8248 | 06/02/2017 | submitted to PMO CM | 12/06/2017 |
| node-cache | CI | 4.1.x |  |  |  | UNAPPROVED | 12/06/2017 |
| node-json2html | CI | 1.1.1 | 1.x | 11519 | 10/25/2017 | Approved w/Constraints | 12/06/2017 |
| PhantomJS-prebuilt | CI | 2.7.1 | 2.1 | 11564 | 11/27/2017 | Further Inquiry To Be Made | 12/07/2017 |
| protractor-jasmine-2-html-reporter | CI | 0.0.7 | 0.0.7 | 11545 | 10/30/2017 | Approved | 12/07/2017 |
| selenium-standalone | CI | 6.0.1 | 6.x.x | 10860 | 05/29/2017 | Approved | 12/07/2017 |
| U.S. Web Design Standards Framework | CI | 1.1.0 | 1.x.x | 11196 | 07/28/2017 | Approved | 12/07/2017 |
| VirtualBox | CI | 5.1.x | 5.1.x | 6679 | 09/09/2016 | Not Required | 12/07/2017 |
| Zed Attack Proxy (ZAP) | CI | 2.6.0 | 2.6 | 8271 | 10/30/2017 | Approved w/Constraints | 12/07/2017 |
| Micro Focus - HP Fortify Static Code Analyzer | CI | 17.10 | 17.2 | 6429 | 12/05/2017 | Approved | 12/08/2017 |
| ts-node |  | 3.0.4 | **Not on TRM** |  |  | Not Required, INCLUDED IN FRAMEWORK. | 11/22/2017 |