[Code Review Check List](https://wiki.eisgroup.com/display/CRC/EIS+Code+Review+Check+List)

1. Code is clear and easy for understanding.
   1. Code is correctly formatted. Use built-in IDE code automatic formatting. The IDE formatting configuration should be compatible with [Development Guidelines](https://wiki.eisgroup.com/display/CRC/%5BDev%5D+Development+Guidelines).
   2. Keep modules and methods short and manageable.
   3. Use [language-specific](https://www.nayuki.io/page/good-java-idioms) and domain-specific idioms.
   4. Use straightforward logic and flow-of-control.
   5. Avoid magic numbers (numbers other than −1, 0, 1, and 2); instead, give them meaningful symbolic names.
2. Code is implemented according to the requirements and follows design documentation.
3. The code is thread-safe.
4. There is no redundant duplication. Existing code is reused where it is possible and makes sense.
5. The code is covered by unit tests.
   1. The necessary coverage threshold is reached.
   2. The results are checked against the expected values.
6. Follows Project/Component Packaging conventions [Packaging Conventions](https://wiki.eisgroup.com/display/CRC/Packaging+Conventions).
7. Follows [Google Java Coding Conventions](https://google.github.io/styleguide/javaguide.html).
8. Follows naming Conventions.
   1. Naming Conventions for low-level entities i.e classes, methods, variables etc. (refer to [Google Java Coding Conventions](https://google.github.io/styleguide/javaguide.html), as well).
   2. Project specific naming conventions. Refer to [General naming and coding conventions](https://wiki.eisgroup.com/display/CRC/%5BDev%5D+EIS+Programming+naming+and+coding+conventions#id-[Dev]EISProgrammingnamingandcodingconventions-GeneralNamingandCodingConventions).
   3. JavaDoc and code documentation convention. Refer to [Comments in the code](https://wiki.eisgroup.com/display/CRC/%5BDev%5D+EIS+Programming+naming+and+coding+conventions#id-[Dev]EISProgrammingnamingandcodingconventions-Commentsinthecode) and [Javadocs](https://wiki.eisgroup.com/display/CRC/Javadocs).
   4. [Annotations](https://wiki.eisgroup.com/display/CRC/%5BDev%5D+EIS+Programming+naming+and+coding+conventions#id-[Dev]EISProgrammingnamingandcodingconventions-Annotations).
   5. [Exception Handling](https://wiki.eisgroup.com/display/CRC/%5BDev%5D+EIS+Programming+naming+and+coding+conventions#id-[Dev]EISProgrammingnamingandcodingconventions-ExceptionHandling).
   6. [Static classes](https://wiki.eisgroup.com/display/CRC/%5BDev%5D+EIS+Programming+naming+and+coding+conventions#id-[Dev]EISProgrammingnamingandcodingconventions-StaticClasses).
   7. Check warnings in Eclipse/Idea IDE.
9. Follows [Logging Guidelines](https://wiki.eisgroup.com/display/CRC/Logging+Guidelines).
10. Meets the requirements for [Internationalization.](https://wiki.eisgroup.com/display/CRC/%5BDev%5D+EIS+Programming+naming+and+coding+conventions#id-[Dev]EISProgrammingnamingandcodingconventions-Internationalization)
11. Follows [Code Conventions for Spring beans](https://wiki.eisgroup.com/display/CRC/%5BDev%5D+EIS+Programming+naming+and+coding+conventions#id-[Dev]EISProgrammingnamingandcodingconventions-SpringBeans).
12. [Privilege based access.](https://wiki.eisgroup.com/display/CRC/%5BDev%5D+EIS+Programming+naming+and+coding+conventions#id-[Dev]EISProgrammingnamingandcodingconventions-PrivilegeBasedAccess)
13. [Liquibase](https://wiki.eisgroup.com/display/CRC/Database+and+Data+Changes+-+Liquibase+-+Conventions).
14. [Lookup Maintenance.](https://wiki.eisgroup.com/display/CRC/%5BDev%5D+EIS+Programming+naming+and+coding+conventions#id-[Dev]EISProgrammingnamingandcodingconventions-Lookupmaintenance)
15. [Transaction Usage](https://wiki.eisgroup.com/display/CRC/Transaction+usage+convention).
16. Customization were implemented legally.
    1. Spring beans were correctly overridden. Refer to [General tips](https://wiki.eisgroup.com/display/CRC/%5BDev%5D+EIS+Development+Best+Practices#id-[Dev]EISDevelopmentBestPractices-Generaltips).
       1. Product depended beans. Refer to [Spring bean override during runtime (execution context aware proxies)](https://wiki.eisgroup.com/pages/viewpage.action?pageId=122390269).
       2. Common beans [EIS Extension and Customization Options#Service-SpringBeanAliasing](https://wiki.eisgroup.com/display/CRC/Suite+Extension+and+Customization+Options#SuiteExtensionandCustomizationOptions-Service-SpringBeanAliasing) Please note.
    2. [ResourceOverloading](https://wiki.eisgroup.com/display/CRC/Suite+Extension+and+Customization+Options#SuiteExtensionandCustomizationOptions-ResourceOverloading)(xhtml, labels etc).