SRP

CsclService (Proxy over CsclClient)

A screenshot of a computer screen

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SRP for methods

Method does too much:

- validates list of customers

- send notifications

- choose appropriate strategy to handle queue message

A screen shot of a computer program

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Method does too much:

- fetches and transform information from multiple sources

- update statuses of customer contacts

- call another API to remove invalidated contacts

Smells:

- combining different levels of abstractions (low level string operations + high level API calls)

- use huge lambdas for stream processing

A screen shot of a computer program

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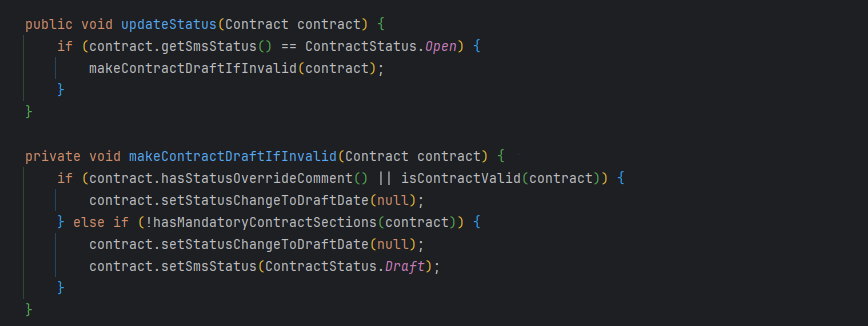
OCP

Switch-case statement for each type of received message. Can be refactored with pattern like Strategy, etc...

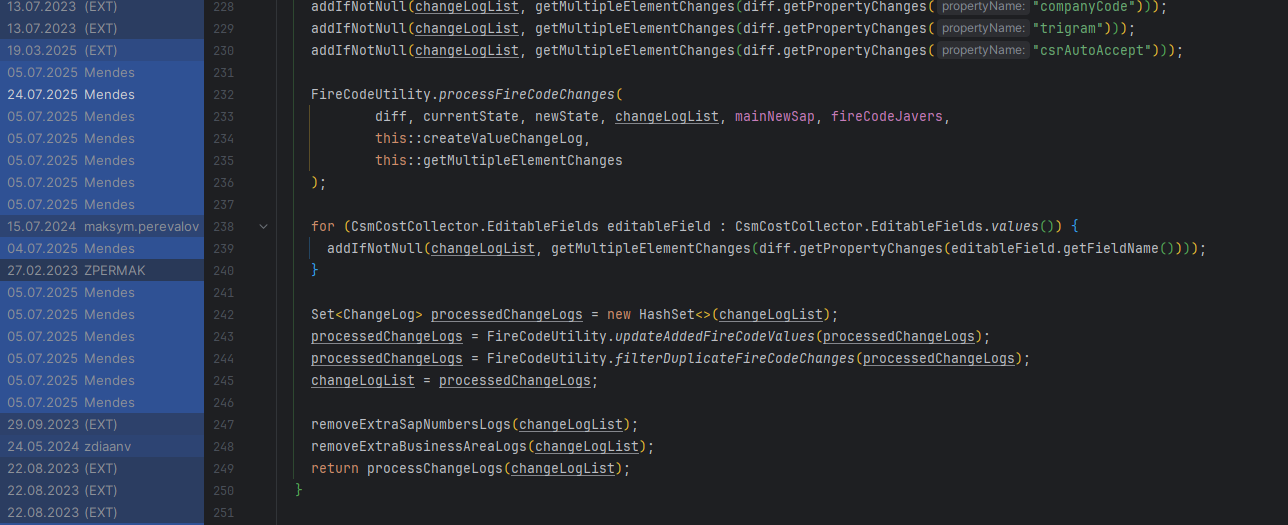
A screen shot of a computer program

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Complex status management logic is hard to maintain because of complex if-else condition and domain rules. Can be refactored with Chain-Of-Responsibility, where each chain represents a certain domain rule (Ongoing task).



OCP/SRP. ContractObjectStateComparator (ChangeLog). Each time we add a new field/fix bug, we make changes in a single class and have to perform regression testing (hopefully by unit tests) that everything is still working.



LSP

ContractValidationSnapshot interface

A screen shot of a computer program

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A screen shot of a computer program

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ISP

Complex interface, can be splitted into smaller ones.

A screen shot of a computer code

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DIP

Usage of concrete collection instead of interface in Contract entity  
A screen shot of a computer code

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Usage of EnumSet inside ContractReport filters. 