Checklist:

* **Naming Conventions:**

1. Namespaces and variable names are correct and with meaningful names:

All the names of variables, methods and classes have meaningful names. Often are used some abbreviations (like “resp” or “req”) which are used locally in each method, but it does not influence the readability and understanding of the code.

1. One-character variables:

In the given methods there are no single-character variables. They are present though in the class, but they are used as temporary variables.

1. Class names:

All the class names present in the file are written in the correct format.

1. Interface names:

There are no interfaces used in the given methods.

1. Methods names:

All the methods present in the class are correctly named, except the method “service” at line 365, which is not a verb. It would be better if it is called “getService()”.

1. Class variables:

All class variables follow the naming conventions.

1. Constants:

All the constants follow the naming conventions.

* **Indention:**

1. Spaces for indention:

All the given methods use the indention correctly with the constant use of four spaces.

1. Use of Tabs:

No tabs are used for indention purposes.

* **Braces:**

1. Consistent use of a Braces style:

In the given code there is a consistent use of the “Kernighan and Ritchie” style.

1. All if, do-while, try-catch have braces even with only one statement:
   * In method “isLocked” there is a violation of the rule at line 1517 and 1521. The two *if* statements are not surrounded with braces.
   * In method “doUnlock” there is a violation of the rule at line 1436. The *if* statement is not surrounded with braces.
   * In method “copyResource” there is a violation of the rule at line 1664. The *if* statement is not surrounded with braces.

* **File Organization:**

1. Separation using comments and Blank lines:

There is a good use of blank lines and comments in order to highlight important sections of the code making it more readable.

1. Line length:
   * In method “copyResource” lines 1667, 1668 exceed the maximum length of 80 columns because of the long condition of the *if*. These lines do arrive at 83 columns of length, which is still acceptable.
2. Line length exceeds:

There are no lines that exceed from the 120 limit.

* **Wrapping Lines:**

1. All line brakes occur after a comma or an operator.
2. In all the *if conditions* that would exceed the line length limit there is the use of higher-level brakes after an “*or”* or “*and”* operators. It happens also in the statements that would be too long .
3. All the statements follow the previous ones with a correct alignment.

* **Comments:**

1. Adequate use of comments:
   * The method “doUnlock” has a comment which does not say anything about the method itself and is quite useless. There should be an explanation of what the method does and what does it return or takes as input. All the comments in the method are useful to understand the blocks of code.
   * The method “isLocked” has a meaningful comment at its beginning explaining exactly what the method does.
   * The method “copyResource” has an initial comment which does not say anything about the behavior of the method itself. All the main parts of the method are well commented though, explaining concisely what do the various blocks of code do.
2. Commented code:

There is no commented code in the given methods.