



**Sappheiros : A query and retrieval framework  
for SNOMED CT encoded records -  
uk.nhs.cfh.dsp.srth-osgi  
1.8-SNAPSHOT**

*2011-01-17*

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# 1. Sappheiros : A query and retrieval framework for SNOMED

## CT encoded records - uk.nhs.cfh.dsp.srth-osgi

This chapter presents an overview of the project mesaures. This dashboard shows the most important measures related to project quality, and it provides a good starting point for identifying problems in source code.

### 1.1. Report Overview

#### Static Analysis

Lines of code

16,341

73 packages

269 classes

1,634 methods

0.5% duplicated lines

↓

Comments

32.2%

7,757 comment lines

↑

Complexity

1.7

10.4 /class

2,808 decision points

#### Dynamic Analysis

Code Coverage

16.2%

70 tests

↑

Test Success

100.0%

0 failures

0 errors

#### Coding Rules Violations

Rules Compliance

96.5%

↑

Violations

328

↓

### 1.2. Violations Analysis

Violations by category	
Maintainability	163
Reliability	131
Efficiency	1
Portability	0
Usability	33

	Sonar PDF Report	Sappheiros : A query and retrieval framework for SNOMED CT encoded records - uk.nhs.cfhdsp.s rth-esgi
	<b>Most violated rules</b>	

Magic Number	113
Redundant Throws	25
Unused Imports	23
Signature Declare Throws Exception	22
Unused Private Field	20


Most violated files	
QueryBasedDataGenerationEngineImpl	34
MySQLReportingQueryExecutionEngineService	19
ConstraintPanel	15
QueryComponentExpressionPanel	14
DataGenerationPanel	11

Most complex files	
EHRImpl	97
AbstractQueryBasedDataGenerationEngine	78
AbstractSQLQueryEngineService	76
MetaData	69
MySQLReportingQueryExecutionEngineService	65

Most duplicated files	
SaveQueryToFileActionComponent	52
SaveQueryAsToFileActionComponent	52
PublishQueryResultsTask	43
ClinicalEntryTableModel	43

### 1.3. Violations Details

Rule	Magic Number	
File	Line	

	Sonar PDF Report	Sappheiros : A query and retrieval framework for SNOMED CT encoded records - uk.nhs.cfhdsp.s rthosgi
ConstraintPanel		120, 163, 167, 167, 168, 168, 191, 199
QueryAuthoringTreePanel		354, 354
QueryComponentExpressionPanel		226, 226, 351, 351
StyledQueryStatementTreeCellRenderer		81
SimpleCloseToUserExpressionPanel		166, 166
SaveQueryAsToFileActionComponent		54, 54, 65

Rule	Redundant Throws
File	Line
QueryExpressionDAOImpl	161
ExpressionMappingObjectDAOImpl	119, 143, 169, 222
ApplicationContextWrapper	27, 39, 43
Constraint	41
ApplicationContextWrapper	47
AbstractConstraint	149
ApplicationContextWrapper	67
AbstractTemporalConstraint	76
ApplicationContextWrapper	71
TemporalConstantConstraintImpl	85
ApplicationContextWrapper	79
TemporalConstantConstraintImpl	100
ApplicationContextWrapper	83, 111, 115

Rule	Unused Imports
File	Line
DataGeneratorUtils	16
TerminologyConstraintTableCellRenderer	4
TerminologyConstraintPanel	4, 5
PatientImpl	3, 10
PersonImpl	8, 9
EHR	3, 6
BoundClinicalEntry	8, 9
AbstractClinicalEntity	8, 9
AbstractClinicalObservationEntry	9, 10
ClinicalActivityEntry	10, 11
InterventionEventEntry	8
InvestigationEventEntry	8



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Rule	Signature	Declare Throws Exception
File		Line
LoadSavedQueryTask		76
NewQueryAction		69, 69
SaveQueryToFileAction		70, 70
SaveQueryToFileTask		64
ExecuteQueryTask		64
ExportResultTask		41
PublishQueryResultsFromResultSetTask		59
PublishQueryResultsTask		71
ResultsExplanationPanel		231, 231
TRUDLoginService		43
DataGeneratorTask		69
DeleteAllRecordsTask		46
RecreateDatabaseTask		31
PopulateTCTableAction		74, 74
PurgeExpressionRepositoryAction		109
PurgeTCTableTask		48

Rule	Unused Private Field
File	Line
AbstractQueryBasedDataGenerationEngine	79
ConstraintPanel	35, 59
QueryExpressionTreeTableModel	26
ReportingQueryStatementTreeCellRenderer	31
EHRViewPanel	31
PublishQueryResultsTask	27
QueryExpressionDAOImpl	42
ProcessExecutor	18
TRUDLoginService	22
ExpressionSubsumptionRelationshipDAOImpl	31, 37
PatientDAOImpl	31
AbstractPerson	48
DataGenerationPanel	77, 80
RecreateDatabaseTask	19
PurgeTCTableAction	29
ClinicalEntryDAOImpl	35
EhrDaolImpl	31





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Rule	Close Resource
File	Line
DBConnectionVerifier	57
AbstractSQLQueryEngineService	252, 367, 368, 479, 480
MySQLReportingQueryExecutionEngineService	118, 313, 421, 742
QueryStatisticsCollection	173, 174

Rule	Anon Inner Length
File	Line
ConstraintPanel	128
QueryAuthoringTreePanel	173, 307
QueryComponentExpressionPanel	275, 352, 390, 439
QueryResultsPanel	173
QueryStatisticsCollectionPanel	165, 237
ResultsExplanationPanel	114

Rule	Cyclomatic Complexity
File	Line
RandomSubtypeGeneratorImpl	165
ConstraintPanel	218
QueryAuthoringTreePanel	185
PublishQueryResultsTask	70
ClinicalEntryTableModel	107
FileDownloader	94
MySQLReportingQueryExecutionEngineService	364
SubtypeGetterImpl	147
AbstractQueryBasedDataGenerationEngine	166
QueryBasedDataGenerationEngineImpl	124

Rule	Hidden Field
File	Line
PatientPanel	165
ProcessExecutor	39
AbstractSQLQueryEngineService	617
QueryBasedDataGenerationEngineImpl	95, 113, 322, 355, 394, 408




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Rule	Loose coupling	
File		Line
QueryService		78, 85
QueryServiceImpl		32, 157, 166
QueryExpressionXMLConverterImpl		61, 62, 63

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## 2. srth-osgi - plugin configuration

### 2.1. Report Overview

#### Static Analysis

##### Lines of code

N/A

N/A packages

N/A classes

N/A methods

N/A duplicated lines

##### Comments

N/A

N/A comment lines

##### Complexity

N/A

N/A /class

N/A decision points

#### Dynamic Analysis

##### Code Coverage

N/A

N/A tests

##### Test Success

N/A

N/A failures

N/A errors

#### Coding Rules Violations

##### Rules Compliance

N/A


##### Violations

0

### 2.2. Violations Analysis

Violations by category	
Maintainability	0
Reliability	0
Efficiency	0
Portability	0
Usability	0


Most violated rules
No violated rules

	Sonar PDF Report	Sappheiros : A query and retrieval framework for SNOMED CT encoded records - uk.nhs.cfhdsp.s rth-esgi
<b>Most violated files</b>		
No violated files		

<b>Most complex files</b>
No complex files

<b>Most duplicated files</b>
No duplications

## 2.3. Violations Details

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### 3. srth-osgi - imported bundles

#### 3.1. Report Overview

##### Static Analysis

Lines of code	Comments	Complexity
N/A	N/A	N/A
N/A packages	N/A comment lines	N/A /class
N/A classes		N/A decision points
N/A methods		
N/A duplicated lines		

##### Dynamic Analysis

Code Coverage	Test Success
N/A	N/A
N/A tests	N/A failures
	N/A errors


##### Coding Rules Violations

Rules Compliance	Violations
N/A	0

#### 3.2. Violations Analysis

Violations by category	
Maintainability	0
Reliability	0
Efficiency	0
Portability	0
Usability	0

Most violated rules
No violated rules

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<b>Most violated files</b>		
No violated files		

<b>Most complex files</b>
No complex files


<b>Most duplicated files</b>
No duplications

### 3.3. Violations Details

## 4. srth-osgi - Distribution

### 4.1. Report Overview


#### Static Analysis

Lines of code	Comments	Complexity
<b>962</b>  1 packages 11 classes 49 methods 0.0% duplicated lines	<b>11.0%</b> 119 comment lines	<b>3.0</b> 13.2 /class 145 decision points

#### Dynamic Analysis

Code Coverage	Test Success
<b>0.0%</b> 0 tests	<b>N/A</b> N/A failures N/A errors


#### Coding Rules Violations

Rules Compliance	Violations
<b>92.8%</b> 	<b>29</b> 

### 4.2. Violations Analysis

Violations by category	
Maintainability	10
Reliability	10
Efficiency	0
Portability	0
Usability	9

Most violated rules	
Magic Number	8
Avoid Print Stack Trace	3

	Sonar PDF Report	Sappheiros : A query and retrieval framework for SNOMED CT encoded records - uk.nhs.cfhdsp.s rth-ogsi
Visibility Modifier	3	
Member Name	3	
Unused Private Field	2	

Most violated files	
FileDownloader	8
ProcessExecutor	6
XHTMLInfoPanel	6
DBConnectionVerifier	3
TRUDLoginService	2

Most complex files	
FileDownloader	42
XHTMLInfoPanel	16
ConfigurationCheckListValidator	14
DBConnectionVerifier	11
JDBCCConnectionValidator	11

Most duplicated files	
No duplications	

### 4.3. Violations Details

Rule	Magic Number
File	Line
DBConnectionVerifier	82
FileDownloader	59, 270, 299, 304
ProcessExecutor	37, 45, 47

Rule	Avoid Print Stack Trace
File	Line
XHTMLInfoPanel	79, 112, 159





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Rule	Visibility	Modifier
File		Line
XHTMLInfoPanel		25, 28, 33

Rule	Member Name
File	Line
FileDownloader	28
JDBCConnectionValidator	28
ProcessExecutor	19


Rule	Unused Private Field
File	Line
ProcessExecutor	18
TRUDLoginService	22


Rule	Modifier Order
File	Line
FileDownloader	30
TRUDConnectionValidator	24

Rule	Hidden Field
File	Line
ProcessExecutor	39

Rule	Security - Array is stored directly
File	Line
DBConnectionVerifier	109

Rule	Signature Declare Throws Exception
File	Line
TRUDLoginService	43

		Sonar PDF Report		Sappheiros : A query and retrieval framework for SNOMED CT encoded records - uk.nhs.cfhdsp.s rth.sapi	
Rule	Ncss Method Count				
File				Line	
FileDownloader				94	

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## 5. Sappheiros Demographics Bundle

### 5.1. Report Overview

#### Static Analysis

Lines of code	Comments	Complexity
528	44.3%	1.3
5 packages	420 comment lines	7.9 /class
14 classes		111 decision points
87 methods		
0.0% duplicated lines		

#### Dynamic Analysis

Code Coverage	Test Success
33.2%	100.0%
7 tests	0 failures
	0 errors


#### Coding Rules Violations

Rules Compliance	Violations
98.1%	10

### 5.2. Violations Analysis

Violations by category	
Maintainability	6
Reliability	4
Efficiency	0
Portability	0
Usability	0

Most violated rules	
Unused Imports	4
Magic Number	4

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Unused Private Field	2	

Most violated files	
PatientUtilsServiceImpl	4
PersonImpl	2
PatientImpl	2
AbstractPerson	1
PatientDAOImpl	1

Most complex files	
PatientDAOImpl	29
PatientUtilsServiceImpl	18
Person	16
PatientDAO	10
PatientUtilsService	10


Most duplicated files	
No duplications	

### 5.3. Violations Details

Rule	Unused Imports	
File	Line	
PatientImpl	3, 10	
PersonImpl	8, 9	

Rule	Magic Number	
File	Line	
PatientUtilsServiceImpl	72, 225, 234, 234	

Rule	Unused Private Field	
File	Line	

	Sonar PDF Report		Sappheiros : A query and retrieval framework for SNOMED CT encoded records -
PatientDAOImpl		31	uk.nhs.cfhdsp.s rth-osi
AbstractPerson		48	

## 6. Sappheiros Information Model Component

### 6.1. Report Overview

#### Static Analysis

Lines of code	Comments	Complexity
274	60.5%	1.1
4 packages	420 comment lines	5.9 /class
24 classes		142 decision points
131 methods		
0.0% duplicated lines		

#### Dynamic Analysis

Code Coverage	Test Success
0.0%	N/A
0 tests	N/A failures
	N/A errors


#### Coding Rules Violations

Rules Compliance	Violations
99.3%	8

### 6.2. Violations Analysis

Violations by category	
Maintainability	8
Reliability	0
Efficiency	0
Portability	0
Usability	0

Most violated rules	
Unused Imports	4
Unused Modifier	2

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Redundant Modifier	2	

Most violated files	
ClinicalEvent	4
BoundClinicalEntry	2
EHR	2

Most complex files	
EHR	38
ClinicalExpression	16
Laterality	13
ClinicalEntity	13
ClinicalEntry	10

Most duplicated files	
No duplications	

### 6.3. Violations Details

Rule	Unused Imports	
File	Line	
EHR	3, 6	
BoundClinicalEntry	8, 9	

Rule	Unused Modifier	
File	Line	
ClinicalEvent	30, 37	

Rule	Redundant Modifier	
File	Line	
ClinicalEvent	30, 37	

## 7. Sappheiros Information Model Implementation Bundle

### 7.1. Report Overview

#### Static Analysis

##### Lines of code

2,351 

5 packages

33 classes

257 methods

0.0% duplicated lines

##### Comments

38.6%

1,478 comment lines

##### Complexity

1.7

13.2 /class

437 decision points

#### Dynamic Analysis

##### Code Coverage

35.7%

23 tests

##### Test Success

100.0%

0 failures

0 errors

#### Coding Rules Violations

##### Rules Compliance

99.7% 

##### Violations


12 

### 7.2. Violations Analysis

Violations by category	
Maintainability	11
Reliability	1
Efficiency	0
Portability	0
Usability	0

Most violated rules	
Unused Imports	9
Unused Private Field	2



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Magic Number	1	

Most violated files	
AbstractClinicalObservationEntry	2
ClinicalActivityEntry	2
AbstractClinicalEntity	2
InterventionEventEntry	1
InvestigationEventEntry	1


Most complex files	
EHRImpl	97
ClinicalEntityFactoryImpl	56
ClinicalEntryFactoryImpl	52
ClinicalEntryDAOImpl	27
ClinicalEntryFactory	21


Most duplicated files	
No duplications	

### 7.3. Violations Details

Rule	Unused Imports	
File	Line	
AbstractClinicalEntity	8, 9	
AbstractClinicalObservationEntry	9, 10	
ClinicalActivityEntry	10, 11	
InterventionEventEntry	8	
InvestigationEventEntry	8	
MedicationEventEntry	9	

Rule	Unused Private Field	
File	Line	
ClinicalEntryDAOImpl	35	
EhrDaolImpl	31	

		Sonar PDF Report		Sappheiros : A query and retrieval framework for SNOMED CT encoded records - uk.nhs.cfhdsp.s rth-impl	
Rule	Magic Number				
File		Line			
EHRImpl		36			

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## 8. Sappheiros Query Model

### 8.1. Report Overview

#### Static Analysis

Lines of code	Comments	Complexity
1,889	42.2%	1.2
7 packages	1,379 comment lines	7.1 /class
51 classes		362 decision points
295 methods		
0.0% duplicated lines		

#### Dynamic Analysis

Code Coverage	Test Success
31.1%	100.0%
10 tests	0 failures
	0 errors


#### Coding Rules Violations

Rules Compliance	Violations
98.5%	22

### 8.2. Violations Analysis

Violations by category	
Maintainability	14
Reliability	3
Efficiency	0
Portability	0
Usability	5

Most violated rules	
Redundant Throws	8
If Stmt's Must Use Braces	5

	Sonar PDF Report	Sappheiros : A query and retrieval framework for SNOMED CT encoded records - uk.nhs.cfhl.dsp.s rth-osgi
Magic Number	3	
Unused Modifier	2	
Redundant Modifier	2	

Most violated files	
TerminologyConstraintImpl	7
MetaData	4
TemporalConstantConstraintImpl	2
TemporalConstantConstraint	2
AbstractConstraint	1


Most complex files	
MetaData	69
TerminologyConstraintImpl	24
AbstractQueryExpression	16
QueryExpressionFactoryImpl	15
AbstractMetaData	15

Most duplicated files	
No duplications	

### 8.3. Violations Details

Rule	Redundant Throws
File	Line
Constraint	41
AbstractConstraint	149
AbstractTemporalConstraint	76
TemporalConstantConstraintImpl	85, 100
TemporalConstantConstraint	32, 41
TemporalConstraint	33

Rule	If Stmt Must Use Braces
File	Line

	Sonar PDF Report	Sappheiros : A query and retrieval framework for SNOMED CT encoded records - uk.nhs.cfhdsp.s rth-0sg1
TerminologyConstraintImpl	173, 174, 178, 179, 180	

Rule	Magic Number
File	Line
AbstractMetaData	37
TerminologyConstraintImpl	192, 193

Rule	Unused Modifier
File	Line
MetaData	114, 117

Rule	Redundant Modifier
File	Line
MetaData	114, 117

Rule	Unused Imports
File	Line
MetaDataImpl	9
QueryExpression	9

## 9. Sappheiros Query Transform Bundle

### 9.1. Report Overview

#### Static Analysis

##### Lines of code

1,544



5 packages

13 classes

90 methods

0.0% duplicated lines

##### Comments

24.5%



502 comment lines

##### Complexity

2.8



19.5 /class

253 decision points

#### Dynamic Analysis

##### Code Coverage

0.0%

0 tests

##### Test Success

N/A

N/A failures

N/A errors

#### Coding Rules Violations

##### Rules Compliance

95.1%



##### Violations


32



### 9.2. Violations Analysis

Violations by category	
Maintainability	11
Reliability	20
Efficiency	0
Portability	0
Usability	1

Most violated rules	
Close Resource	11
Magic Number	8

	Sonar PDF Report		Sappheiros : A query and retrieval framework for SNOMED CT encoded records
	Avoid Duplicate Literals	5	uk.nhs.cfhdsp.s
	Redundant Throws	2	rth-oggi
	Cyclomatic Complexity	2	

Most violated files	
MySQLReportingQueryExecutionEngineService	19
AbstractSQLQueryEngineService	8
SQLQueryEngineService	2
QueryStatisticsCollection	2
SubtypeGetterImpl	1


Most complex files	
AbstractSQLQueryEngineService	76
MySQLReportingQueryExecutionEngineService	65
SubtypeGetterImpl	49
ConstraintColumnNameProviderImpl	19
SQLQueryEngineService	17

Most duplicated files	
No duplications	

### 9.3. Violations Details

Rule	Close Resource	
File	Line	
AbstractSQLQueryEngineService	252, 367, 368, 479, 480	
MySQLReportingQueryExecutionEngineService	118, 313, 421, 742	
QueryStatisticsCollection	173, 174	

Rule	Magic Number	
File	Line	

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MySQLReportingQueryExecutionEngineService		342, 344, 345, 345, 347, 347, 348, 348

Rule	Avoid Duplicate Literals
File	Line
MySQLReportingQueryExecutionEngineService	103, 104, 105, 224, 312

Rule	Redundant Throws
File	Line
SQLQueryEngineService	108, 119

Rule	Cyclomatic Complexity
File	Line
MySQLReportingQueryExecutionEngineService	364
SubtypeGetterImpl	147

Rule	Visibility Modifier
File	Line
AbstractSQLQueryEngineService	46

Rule	Ncss Method Count
File	Line
MySQLReportingQueryExecutionEngineService	364

Rule	Hidden Field
File	Line
AbstractSQLQueryEngineService	617

Rule	Constructor Calls Overridable Method
File	Line
AbstractSQLQueryEngineService	95



## 10. Sappheiros Data Generator Bundle

### 10.1. Report Overview

#### Static Analysis

##### Lines of code

1,273 

6 packages

10 classes

79 methods

0.0% duplicated lines

##### Comments

19.6%

310 comment lines

##### Complexity

2.9

23.3 /class

233 decision points

#### Dynamic Analysis

##### Code Coverage

50.0%

5 tests

##### Test Success

100.0%

0 failures

0 errors

#### Coding Rules Violations

##### Rules Compliance

94.7% 


##### Violations

43 

### 10.2. Violations Analysis

Violations by category	
Maintainability	8
Reliability	28
Efficiency	0
Portability	0
Usability	7

Most violated rules	
Magic Number	28
Hidden Field	6

	Sonar PDF Report	Sappheiros : A query and retrieval framework for SNOMED CT encoded records - uk.nhs.cfhdsp.s rth-osi
Cyclomatic Complexity	3	
Ncss Method Count	2	
Constant Name	1	

Most violated files	
QueryBasedDataGenerationEngineImpl	34
AbstractQueryBasedDataGenerationEngine	6
RandomSubtypeGeneratorImpl	2
DataGeneratorUtils	1


Most complex files	
AbstractQueryBasedDataGenerationEngine	78
RandomSubtypeGeneratorImpl	61
QueryBasedDataGenerationEngineImpl	49
DataGenerationEngine	21
DataGenerationEngineFactoryImpl	9

Most duplicated files	
No duplications	

### 10.3. Violations Details

Rule	Magic Number
File	Line
AbstractQueryBasedDataGenerationEngine	62, 65, 678
QueryBasedDataGenerationEngineImpl	156, 156, 167, 167, 167, 176, 176, 176, 180, 183, 185, 185, 185, 189, 192, 194, 194

Rule	Hidden Field
File	Line

	<p>Sonar PDF Report</p>	<p>Sappheiros : A query and retrieval framework for SNOMED CT encoded records</p> <p>uk.nhs.uk/cfh/dsp.s rtn-osgi</p>
QueryBasedDataGenerationEngineImpl	95, 113, 322, 355, 394, 408	

Rule	Cyclomatic Complexity
File	Line
RandomSubtypeGeneratorImpl	165
AbstractQueryBasedDataGenerationEngine	166
QueryBasedDataGenerationEngineImpl	124


Rule	Ncss Method Count
File	Line
QueryBasedDataGenerationEngineImpl	124
RandomSubtypeGeneratorImpl	165

Rule	Constant Name
File	Line
QueryBasedDataGenerationEngineImpl	59

Rule	Unused Private Field
File	Line
AbstractQueryBasedDataGenerationEngine	79

Rule	Unused private method
File	Line
AbstractQueryBasedDataGenerationEngine	633

Rule	Unused Imports
File	Line
DataGeneratorUtils	16

	Sonar PDF Report	Sappheiros : A query and retrieval framework for SNOMED CT encoded records - uk.nhs.cfh.dsp.s rth-osgi
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## 11. Sappheiros Query Service Bundle

### 11.1. Report Overview

#### Static Analysis

Lines of code	Comments	Complexity
101	41.3%	1.6
2 packages	71 comment lines	8.7 /class
3 classes		26 decision points
16 methods		
0.0% duplicated lines		

#### Dynamic Analysis

Code Coverage	Test Success
0.0%	N/A
0 tests	N/A failures
	N/A errors


#### Coding Rules Violations

Rules Compliance	Violations
85.1%	5

### 11.2. Violations Analysis

Violations by category	
Maintainability	5
Reliability	0
Efficiency	0
Portability	0
Usability	0

Most violated rules	
Loose coupling	5

	Sonar PDF Report	Sappheiros : A query and retrieval framework for SNOMED CT encoded records - uk.nhs.cfhdsp.s rth-og
<b>Most violated files</b>		
QueryServiceImpl	3	
QueryService	2	

<b>Most complex files</b>	
QueryServiceImpl	16
QueryService	9
QueryServiceListener	1

<b>Most duplicated files</b>	
No duplications	

### 11.3. Violations Details

Rule	Loose coupling	
File		Line
QueryService		78, 85
QueryServiceImpl		32, 157, 166

## 12. Sappheiros Query Creation Panel

### 12.1. Report Overview

#### Static Analysis

##### Lines of code

1,886



5 packages

15 classes

124 methods

0.0% duplicated lines

##### Comments

25.0%



630 comment lines

##### Complexity

2.2

18.2 /class

273 decision points

#### Dynamic Analysis

##### Code Coverage

0.0%

0 tests

##### Test Success

N/A

N/A failures

N/A errors

#### Coding Rules Violations

##### Rules Compliance

95.2%

##### Violations


52



### 12.2. Violations Analysis

Violations by category	
Maintainability	25
Reliability	20
Efficiency	0
Portability	0
Usability	7

Most violated rules	
Magic Number	17
Anon Inner Length	7

	Sonar PDF Report		Sappheiros : A query and retrieval framework for SNOMED CT encoded records - uk.nhs.cfhdsp.s rth-ogsi
	Modifier Order	5	
	Unused Private Field	4	
	Collapsible If Statements	4	


Most violated files	
ConstraintPanel	15
QueryComponentExpressionPanel	14
QueryAuthoringTreePanel	7
SimpleCloseToUserExpressionPanel	5
TerminologyConstraintPanel	4

Most complex files	
QueryAuthoringTreePanel	43
QueryComponentExpressionPanel	39
ConstraintPanel	36
ConstraintTableModel	26
ReportingQueryStatementTreeModel	22

Most duplicated files	
No duplications	

### 12.3. Violations Details

Rule	Magic Number
File	Line
ConstraintPanel	120, 163, 167, 167, 168, 168, 191, 199
QueryAuthoringTreePanel	354, 354
QueryComponentExpressionPanel	226, 226, 351, 351
StyledQueryStatementTreeCellRenderer	81
SimpleCloseToUserExpressionPanel	166, 166

		Sonar PDF Report	Sappheiros : A query and retrieval framework for SNOMED CT encoded records - uk.nhs.cfhdsp.s with a java
Rule	Anon Inner	Length	

File	Line
ConstraintPanel	128
QueryAuthoringTreePanel	173, 307
QueryComponentExpressionPanel	275, 352, 390, 439

Rule	Modifier Order
File	Line
QueryComponentExpressionPanel	93, 96
SimpleCloseToUserExpressionPanel	72
TerminologyConstraintPanel	63, 66


Rule	Unused Private Field
File	Line
ConstraintPanel	35, 59
QueryExpressionTreeTableModel	26
ReportingQueryStatementTreeCellRenderer	31

Rule	Collapsible If Statements
File	Line
QueryComponentExpressionPanel	361, 361
SimpleCloseToUserExpressionPanel	229, 229

Rule	Unused Imports
File	Line
TerminologyConstraintTableCellRenderer	4
TerminologyConstraintPanel	4, 5

Rule	Parameter Assignment
File	Line
ReportingQueryStatementTreeModel	181
QueryExpressionTreeTableModel	163



		Sonar PDF Report		Sappheiros : A query and retrieval framework for SNOMED CT encoded records - uk.nhs.cfhdsp.s -	
Rule	Cyclomatic	Complexity			
File		Line			
ConstraintPanel				218	
QueryAuthoringTreePanel				185	

Rule	Singular Field				
File		Line			
ConstraintPanel				59	
QueryAuthoringTreePanel				70	

Rule	Compare Objects With Equals				
File		Line			
QueryComponentExpressionPanel				551, 556	

## 13. Sappheiros Query CRUD Module

### 13.1. Report Overview

#### Static Analysis

##### Lines of code

592



3 packages

13 classes

46 methods

8.4% duplicated lines

##### Comments

31.4%

271 comment lines

##### Complexity

1.3

4.8 /class

62 decision points

#### Dynamic Analysis

##### Code Coverage

0.0%

0 tests

##### Test Success

N/A

N/A failures

N/A errors

#### Coding Rules Violations

##### Rules Compliance

95.6%



##### Violations


14



### 13.2. Violations Analysis

Violations by category	
Maintainability	6
Reliability	8
Efficiency	0
Portability	0
Usability	0

Most violated rules	
Magic Number	8

	Sonar PDF Report	Sappheiros : A query and retrieval framework for SNOMED CT encoded records - uk.nhs.cfhdsp.s rth-oggi
Signature Declare Exception	Throws	6

Most violated files	
SaveQueryAsToFileActionComponent	4
SaveQueryToFileActionComponent	4
SaveQueryToFileAction	2
NewQueryAction	2
SaveQueryToFileTask	1


Most complex files	
XMLLoader	13
LoadSavedQueryTask	9
SaveQueryToFileTask	8
SaveQueryToFileAction	6
NewQueryAction	6

Most duplicated files	
SaveQueryToFileActionComponent	52
SaveQueryAsToFileActionComponent	52

### 13.3. Violations Details

Rule	Magic Number
File	Line
SaveQueryAsToFileActionComponent	54, 54, 65, 65
SaveQueryToFileActionComponent	54, 54, 65, 65

Rule	Signature Declare Throws Exception
File	Line
LoadSavedQueryTask	76
NewQueryAction	69, 69
SaveQueryToFileAction	70, 70

	<p>Sonar PDF Report</p>	<p>Sappheiros : A query and retrieval framework for SNOMED CT encoded records - uk.nhs.cfhdsp.s rth-osi</p>
<p>SaveQueryToFileTask</p>	<p>64</p>	



## 14. Sappheiros Query Results View Component

### 14.1. Report Overview

#### Static Analysis

##### Lines of code

1,354

4 packages

19 classes

92 methods

3.3% duplicated lines

##### Comments

28.2%

532 comment lines

##### Complexity

1.9

9.2 /class

174 decision points

#### Dynamic Analysis

##### Code Coverage

0.0%

0 tests

##### Test Success

N/A

N/A failures

N/A errors

#### Coding Rules Violations

##### Rules Compliance

96.0%


##### Violations

28

### 14.2. Violations Analysis

Violations by category	
Maintainability	12
Reliability	13
Efficiency	1
Portability	0
Usability	2

Most violated rules	
Magic Number	12

	Sonar PDF Report		Sappheiros : A query and retrieval framework for SNOMED CT encoded records - uk.nhs.cfhdsp.s rth-oggi
	Signature Declare Throws Exception	4	
	Cyclomatic Complexity	2	
	Collapsible If Statements	2	
	Unused Private Field	2	

Most violated files	
QueryResultsPanel	7
PatientPanel	5
PublishQueryResultsTask	3
ExportResultsActionComponent	2
ExecuteActiveQueryActionComponent	2

Most complex files	
QueryResultsPanel	25
ResultSetTableModel	24
ClinicalEntryTableModel	19
ExportResultTask	13
PublishQueryResultsTask	12

Most duplicated files	
PublishQueryResultsTask	43
ClinicalEntryTableModel	43

### 14.3. Violations Details

Rule	Magic Number
File	Line
ExportResultTask	107
ExecuteActiveQueryActionComponent	53, 64
ExportResultsActionComponent	55, 66
PatientPanel	77, 77, 77
QueryResultsPanel	78, 249, 271, 271



## Sonar PDF Report

Sappheiros : A  
query and  
retrieval  
framework for  
SNOMED CT  
encoded records  
-

uk.nhs.cfhdsp.s  
with page

Rule	Signature	Declare Throws Exception
File	Line	
ExecuteQueryTask	64	
ExportResultTask	41	
PublishQueryResultsFromResultSetTask	59	
PublishQueryResultsTask	71	

Rule	Cyclomatic Complexity
File	Line
PublishQueryResultsTask	70
ClinicalEntryTableModel	107


Rule	Collapsible If Statements
File	Line
QueryResultsPanel	182, 182

Rule	Unused Private Field
File	Line
EHRViewPanel	31
PublishQueryResultsTask	27

Rule	Constructor Calls Overridable Method
File	Line
ResultSetTableModel	40

Rule	Hidden Field
File	Line
PatientPanel	165

Rule	Ncss Method Count
File	Line
PatientPanel	75

		Sonar PDF Report	Sappheiros : A query and retrieval framework for SNOMED CT encoded records - uk.nhs.cfhdsp.s rth.org
Rule	Constant Name		
File			Line
ClinicalEntryTableModel			26

Rule	Use Index Of Char	
File		
ResultSetTableModel		96



## 15. Sappheiros Query Repository

### 15.1. Report Overview

#### Static Analysis

##### Lines of code

**183**

2 packages

4 classes

36 methods

0.0% duplicated lines

##### Comments

**35.6%**

101 comment lines

##### Complexity

**1.4**

12.5 /class

50 decision points

#### Dynamic Analysis

##### Code Coverage

**67.1%**

4 tests

##### Test Success

**100.0%**

0 failures

0 errors

#### Coding Rules Violations

##### Rules Compliance

**97.8%**


##### Violations

**2**

### 15.2. Violations Analysis

Violations by category	
Maintainability	2
Reliability	0
Efficiency	0
Portability	0
Usability	0

Most violated rules	
Redundant Throws	1
Unused Private Field	1

	Sonar PDF Report	Sappheiros : A query and retrieval framework for SNOMED CT encoded records - uk.nhs.cfhdsp.s rth-oggi
<b>Most violated files</b>		
	QueryExpressionDAOImpl	2

Most complex files	
QueryExpressionDAOImpl	24
QueryRepositoryServiceImpl	12
QueryRepositoryService	7
QueryExpressionDAO	7

Most duplicated files	
No duplications	

### 15.3. Violations Details

Rule	Redundant Throws	
File	Line	
QueryExpressionDAOImpl	161	

Rule	Unused Private Field	
File	Line	
QueryExpressionDAOImpl	42	



## 16. Sappheiros Results Explanation View Component

### 16.1. Report Overview

#### Static Analysis

##### Lines of code

**534**

3 packages

6 classes

40 methods

0.0% duplicated lines

##### Comments

**28.7%**

215 comment lines

##### Complexity

**1.9**

12.3 /class

74 decision points

#### Dynamic Analysis

##### Code Coverage

**0.0%**

0 tests

##### Test Success

**N/A**

N/A failures

N/A errors

#### Coding Rules Violations

##### Rules Compliance

**95.1%**


##### Violations

**16**

### 16.2. Violations Analysis

Violations by category	
Maintainability	5
Reliability	11
Efficiency	0
Portability	0
Usability	0

Most violated rules	
Magic Number	11
Anon Inner Length	3

	Sonar PDF Report		Sappheiros : A query and retrieval framework for SNOMED CT encoded records - uk.nhs.cfhdsp.s rth-oggi
	Signature Declare Throws Exception	2	

Most violated files	
QueryStatisticsCollectionPanel	9
ResultsExplanationPanel	5
SQLResultsExplanationTreeCellRenderer	1
ReportingEngineExplanationTreeTableModel	1


Most complex files	
ReportingEngineExplanationTreeTableModel	28
ResultsExplanationPanel	22
QueryStatisticsCollectionPanel	16
SQLResultsExplanationTreeCellRenderer	4
ResultExplanationViewComponent	4

Most duplicated files	
No duplications	

### 16.3. Violations Details

Rule	Magic Number
File	Line
ReportingEngineExplanationTreeTableModel	61
QueryStatisticsCollectionPanel	96, 96, 96, 96, 135, 135, 200
SQLResultsExplanationTreeCellRenderer	46
ResultsExplanationPanel	158, 158

Rule	Anon Inner Length
File	Line

	Sonar PDF Report	Sappheiros : A query and retrieval framework for SNOMED CT encoded records - uk.nhs.cfhdsp.s rth-osi
QueryStatisticsCollectionPanel	165, 237	
ResultsExplanationPanel	114	

Rule	Signature Declare Throws Exception
File	Line
ResultsExplanationPanel	231, 231

## 17. Sappheiros Query Renderer View Component

### 17.1. Report Overview

#### Static Analysis

Lines of code	Comments	Complexity
84	35.4%	1.0
1 packages	46 comment lines	3.5 /class
2 classes		7 decision points
7 methods		
0.0% duplicated lines		

#### Dynamic Analysis

Code Coverage	Test Success
0.0%	N/A
0 tests	N/A failures
	N/A errors


#### Coding Rules Violations

Rules Compliance	Violations
100.0%	0

### 17.2. Violations Analysis

Violations by category	
Maintainability	0
Reliability	0
Efficiency	0
Portability	0
Usability	0

Most violated rules
No violated rules

	Sonar PDF Report	Sappheiros : A query and retrieval framework for SNOMED CT encoded records - uk.nhs.cfhdsp.s rth-esgi
<b>Most violated files</b>		
No violated files		

<b>Most complex files</b>	
QueryHTMLRendererViewComponent	4
QueryHTMLRendererPanel	3

<b>Most duplicated files</b>	
No duplications	

### 17.3. Violations Details

## 18. Sappheiros Query Converters

### 18.1. Report Overview

#### Static Analysis

##### Lines of code

822



8 packages

14 classes

69 methods

0.0% duplicated lines

##### Comments

33.4%



413 comment lines

##### Complexity

2.7

13.1 /class

184 decision points

#### Dynamic Analysis

##### Code Coverage

15.3%

6 tests

##### Test Success

100.0%

0 failures

0 errors

#### Coding Rules Violations

##### Rules Compliance

98.9%



##### Violations

3




### 18.2. Violations Analysis

Violations by category	
Maintainability	3
Reliability	0
Efficiency	0
Portability	0
Usability	0

Most violated rules	
Loose coupling	3



	Sonar PDF Report	Sappheiros : A query and retrieval framework for SNOMED CT encoded records - uk.nhs.cfhdsp.s rth-esgi
<b>Most violated files</b>		
	QueryExpressionXMLConverterImpl	3

Most complex files	
QueryExpressionHTMLRendererImpl	44
QueryExpressionXMLRendererImpl	33
XMLToQueryExpressionTransformerImpl	26
QueryExpressionPlainTextRendererImpl	24
QueryExpressionXMLConverterImpl	20

Most duplicated files	
No duplications	

### 18.3. Violations Details

Rule	Loose coupling
File	Line
QueryExpressionXMLConverterImpl	61, 62, 63



## 19. Sappheiros Normal Form Expression Repository

### 19.1. Report Overview

#### Static Analysis

##### Lines of code

**619**

4 packages

10 classes

88 methods

0.0% duplicated lines

##### Comments

**37.5%**

371 comment lines

##### Complexity

**1.4**

12.3 /class

123 decision points

#### Dynamic Analysis

##### Code Coverage

**69.4%**

15 tests

##### Test Success

**100.0%**

0 failures

0 errors

#### Coding Rules Violations

##### Rules Compliance

**98.2%**


##### Violations

**7**

### 19.2. Violations Analysis

Violations by category	
Maintainability	6
Reliability	1
Efficiency	0
Portability	0
Usability	0

Most violated rules	
Redundant Throws	4
Unused Private Field	2

	Sonar PDF Report	Sappheiros : A query and retrieval framework for SNOMED CT encoded records - uk.nhs.cf.h.dsp.s rth-otgi
Magic Number	1	

Most violated files	
ExpressionMappingObjectDAOImpl	4
ExpressionSubsumptionRelationshipDAOImpl	3

Most complex files	
ExpressionMappingObjectDAOImpl	36
ExpressionSubsumptionRelationshipDAOImpl	22
ExpressionTransitiveClosureTableGeneratorImpl	18
ExpressionMappingObjectDAO	14
ExpressionMappingObject	12

Most duplicated files	
No duplications	

### 19.3. Violations Details

Rule	Redundant Throws	
File	Line	
ExpressionMappingObjectDAOImpl	119, 143, 169, 222	

Rule	Unused Private Field	
File	Line	
ExpressionSubsumptionRelationshipDAOImpl	31, 37	

Rule	Magic Number	
File	Line	
ExpressionSubsumptionRelationshipDAOImpl	40	

## 20. Simulator ViewComponent

### 20.1. Report Overview

#### Static Analysis

##### Lines of code

676



2 packages

11 classes

49 methods

0.0% duplicated lines

##### Comments

27.9%

261 comment lines

##### Complexity

1.2

5.5 /class

60 decision points

#### Dynamic Analysis

##### Code Coverage

0.0%

0 tests

##### Test Success

N/A

N/A failures

N/A errors

#### Coding Rules Violations

##### Rules Compliance

93.3%



##### Violations


23



### 20.2. Violations Analysis

Violations by category	
Maintainability	12
Reliability	9
Efficiency	0
Portability	0
Usability	2

Most violated rules	
Magic Number	9
Singular Field	3

	Sonar PDF Report		Sappheiros : A query and retrieval framework for SNOMED CT encoded records - uk.nhs.cfhdsp.s rth-oggi
	Signature Declare Throws Exception	3	
	Unused Private Field	3	
	Unused formal parameter	2	

Most violated files	
DataGenerationPanel	11
DataGeneratorTask	4
RecreateDatabaseTask	3
DeleteAllRecordsAction	1
RecreateDatabaseAction	1


Most complex files	
DataGenerationPanel	20
DataGeneratorTask	8
RecreateDatabaseTask	5
DeleteAllRecordsActionComponent	4
RecreateDatabaseActionComponent	4

Most duplicated files	
No duplications	

## 20.3. Violations Details

Rule	Magic Number
File	Line
DataGeneratorTask	118
DeleteAllRecordsAction	54
RecreateDatabaseAction	52
DataGenerationPanel	68, 71, 74, 183, 200, 224

Rule	Singular Field
File	Line

	Sonar PDF Report	Sappheiros : A query and retrieval framework for SNOMED CT encoded records - uk.nhs.cfhdsp.s rth-otgi
DataGenerationPanel	44, 47	
RecreateDatabaseTask	19	

Rule	Signature Declare Throws Exception
File	Line
DataGeneratorTask	69
DeleteAllRecordsTask	46
RecreateDatabaseTask	31

Rule	Unused Private Field
File	Line
DataGenerationPanel	77, 80
RecreateDatabaseTask	19

Rule	Unused formal parameter
File	Line
DeleteAllRecordsActionComponent	44
RecreateDatabaseActionComponent	42

Rule	Ness Method Count
File	Line
DataGenerationPanel	127

Rule	Static Variable Name
File	Line
DataGeneratorTask	37

Rule	Naming - Suspicious constant field name
File	Line
DataGeneratorTask	37



## 21. Sappheiros Expression Repository Actions Module

### 21.1. Report Overview

#### Static Analysis

##### Lines of code

**345**

2 packages

9 classes

30 methods

0.0% duplicated lines

##### Comments

**30.6%**

152 comment lines

##### Complexity

**1.1**

3.8 /class

34 decision points

#### Dynamic Analysis

##### Code Coverage

**0.0%**

0 tests

##### Test Success

**N/A**

N/A failures

N/A errors

#### Coding Rules Violations

##### Rules Compliance

**94.8%**


##### Violations

**8**

### 21.2. Violations Analysis

Violations by category	
Maintainability	5
Reliability	3
Efficiency	0
Portability	0
Usability	0

Most violated rules	
Signature Declare Throws Exception	4

	Sonar PDF Report		Sappheiros : A query and retrieval framework for SNOMED CT encoded records - uk.nhs.cfhdsp.s rth-osi
	Magic Number	3	
	Unused Private Field	1	

Most violated files	
PopulateTCTableAction	3
PurgeTCTableAction	2
PurgeExpressionRepositoryAction	2
PurgeTCTableTask	1

Most complex files	
PurgeExpressionRepositoryAction	8
PopulateTCTableAction	7
PurgeExpressionRepositoryActionComponent	4
PurgeTCTableActionComponent	4
PurgeTCTableTask	4


Most duplicated files	
No duplications	

### 21.3. Violations Details

Rule	Signature Declare Throws Exception	
File	Line	
PopulateTCTableAction	74, 74	
PurgeExpressionRepositoryAction	109	
PurgeTCTableTask	48	

Rule	Magic Number	
File	Line	
PopulateTCTableAction	59	
PurgeExpressionRepositoryAction	67	
PurgeTCTableAction	55	



		Sonar PDF Report		Sappheiros : A query and retrieval framework for SNOMED CT encoded records - uk.nhs.cfhdsp.s	
Rule	Unused Private Field				
File		Line			
PurgeTCTableAction		29			



## 22. Query Repository ViewComponent

### 22.1. Report Overview

#### Static Analysis

##### Lines of code

**124**

2 packages

3 classes

10 methods

0.0% duplicated lines

##### Comments

**26.6%**

45 comment lines

##### Complexity

**1.2**

4.0 /class

12 decision points

#### Dynamic Analysis

##### Code Coverage

**0.0%**

0 tests

##### Test Success

**N/A**

N/A failures

N/A errors

#### Coding Rules Violations

##### Rules Compliance

**95.2%**


##### Violations

**2**

### 22.2. Violations Analysis

Violations by category	
Maintainability	2
Reliability	0
Efficiency	0
Portability	0
Usability	0

Most violated rules	
Signature Declare Throws Exception	2


	Sonar PDF Report	Sappheiros : A query and retrieval framework for SNOMED CT encoded records - uk.nhs.cfhdsp.s rth-esgi
<b>Most violated files</b>		
	SaveQueryToRepositoryAction	2

<b>Most complex files</b>	
SaveQueryToRepositoryAction	8
SaveQueryToRepositoryActionComponent	4

<b>Most duplicated files</b>	
No duplications	

### 22.3. Violations Details

Rule	Signature Declare Throws Exception	
File		Line
SaveQueryToRepositoryAction		73, 73

	Sonar PDF Report	Sappheiros : A query and retrieval framework for SNOMED CT encoded records - uk.nhs.cfhdsp.s rth-osgi
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## 23. Snofyre Scripting Bundle -

### uk.nhs.cfhdsp.srth.desktop.modules.scripting

#### 23.1. Report Overview

##### Static Analysis

Lines of code	Comments	Complexity
200	9.5%	1.2
2 packages	21 comment lines	11.5 /class
4 classes		46 decision points
39 methods		
0.0% duplicated lines		

##### Dynamic Analysis

Code Coverage	Test Success
0.0%	N/A
0 tests	N/A failures
	N/A errors


##### Coding Rules Violations

Rules Compliance	Violations
94.0%	12

#### 23.2. Violations Analysis

Violations by category	
Maintainability	12
Reliability	0
Efficiency	0
Portability	0
Usability	0

Most violated rules	
Redundant Throws	10

	Sonar PDF Report	Sappheiros : A query and retrieval framework for SNOMED CT encoded records - uk.nhs.cfhdsp.s rth-osi
Singular Field		2

Most violated files	
ApplicationContextWrapper	10
AbstractGroovyService	1
GroovyConsoleServiceImpl	1

Most complex files	
ApplicationContextWrapper	23
AbstractGroovyService	12
GroovyConsoleServiceImpl	7
GroovyConsoleService	4

Most duplicated files	
No duplications	

### 23.3. Violations Details

Rule	Redundant Throws	
File	Line	
ApplicationContextWrapper	27, 39, 43, 47, 67, 71, 79, 83, 111, 115	

Rule	Singular Field	
File	Line	
AbstractGroovyService	25	
GroovyConsoleServiceImpl	19	