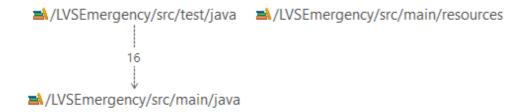# Quality Report
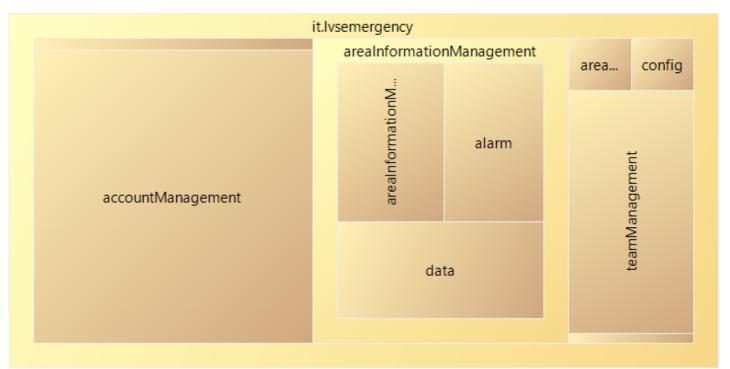

Creation Date 2022-02-01
Package Prefix `it.`
Level of Detail `Member`

Tmp_220123_212257

Library Dependency Graph

Treemap Overview

Metrics Summary

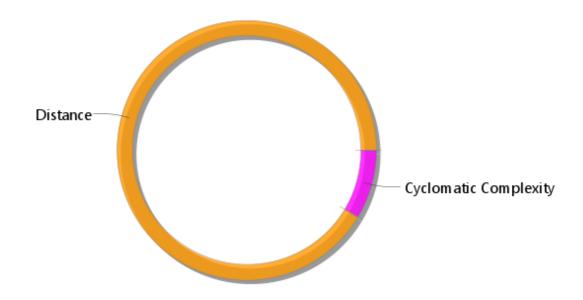| Metric	Value
Number of Libraries	3
Number of Packages	9
Number of Top Level Classes	29
Average Number of Top Level Classes per Package	3.22
Average Number of Member Classes per Class	0
Average Number of Methods per Class	7.76
Average Number of Fields per Class	3.07
Estimated Lines of Code	1097
Estimated Lines of Code per Top Level Class	37.83

Average Cyclomatic Complexity	1.19
Fat for Library Dependencies	1
Fat for Flat Package Dependencies	6
Fat for Top Level Class Dependencies	53
Tangled for Library Dependencies	0%
Average Component Dependency between Libraries	16.67%
Average Component Dependency between Packages	11.11%
Average Component Dependency between Units	11.70%
Average Distance	-0.24
Average Absolute Distance	0.28
Average Weighted Methods per Class	9.21
Average Depth of Inheritance Tree	1
Average Number of Children	0
Average Coupling between Objects	1.17
Average Response for a Class	9.52
Average Lack of Cohesion in Methods	33.72

Top Violations (5 of 5)

Artifact	Metric	Value
⊞ lvsemergency.accountManagement	D	-0.89
⊞ lvsemergency.areaInformationManagement.data	D	-0.67
⊞ lvsemergency.areaInformationManagement.alarm	D	-0.75
🟢 lvsemergency.accountManagement.User.equals(...)	CC	17
🟢 lvsemergency.areaInformationManagement.data.AprsData.equals(...)	CC	15

Pollution Chart

Pollution 0.40

Violations by Metric

Cyclomatic Complexity

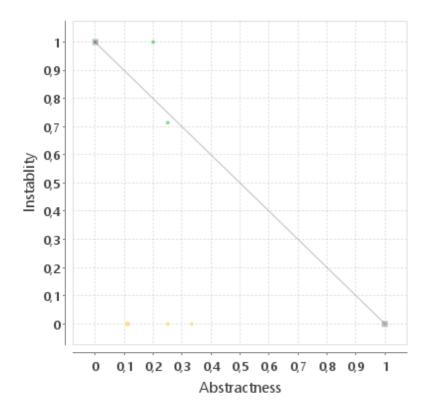| Artifact	Value
● lvsemergency.accountManagement.User.equals(...)	17
● lvsemergency.areaInformationManagement.data.AprsData.equals(...)	15

Distance

Artifact	Value
⊞ lvsemergency.accountManagement	-0.89
⊞ lvsemergency.areaInformationManagement.data	-0.67
⊞ lvsemergency.areaInformationManagement.alarm	-0.75

Design Tangles

There are no design tangles.

Package Distance Chart
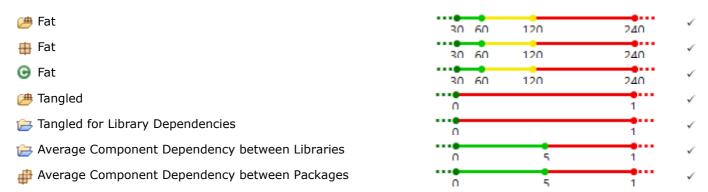
Metric Ratings

Count Metrics

Metric		Rating		Linear
⊞ Number of Top Level Classes		20　　40　　60　　80		✓
● Number of Methods		25 50　　100　　　200		✓
● Number of Fields		10 20　　40　　　80		✓
● Estimated Lines of Code		200　　300　　400　　500		✓
● Estimated Lines of Code		30 60　　120　　　240		✓

Complexity Metrics

Metric		Rating		Linear
● Cyclomatic Complexity		10　　15　　20　　　30		✓

📁 Fat		●━━●━━━━━●━━━━━━━━━━━●	✓
		30 60 120 240	
🔲 Fat		●━━●━━━━━●━━━━━━━━━━━●	✓
		30 60 120 240	
🅖 Fat		●━━●━━━━━●━━━━━━━━━━━●	✓
		30 60 120 240	
📁 Tangled		●━━━━━━━━━━━━━━━━━━●	✓
		0 1	
📂 Tangled for Library Dependencies		●━━━━━━━━━━━━━━━━━━●	✓
		0 1	
📂 Average Component Dependency between Libraries		●━━━━━━━━━●━━━━━━●	✓
		0 5 1	
🔲 Average Component Dependency between Packages		●━━━━━━━━━●━━━━━━●	✓
		0 5 1	

Robert C. Martin Metrics

Metric	Rating	Linear
🔲 Distance	●━━━━━●━━━━●━━━━━●	✓
	-1 - 5 0 5 1	
🔲 Average Absolute Distance	●━━━━━●━●━━━━━━━━●	✓
	0 4 5 1	

Chidamber & Kemerer Metrics

Metric	Rating	Linear
🅖 Weighted Methods per Class	●━━━━━●━━━━●━━━━●	✓
	0 100 200 300	
🅖 Depth of Inheritance Tree	●━━━━━●━━━━●━━━━●	✓
	4 6 8 10	
🔲 Average Depth of Inheritance Tree	●━━━━━●━━━━━━━━━●	✓
	2 1 0	
🅖 Coupling between Objects	●━●━━━━━━━━━━━━━●	✓
	0 25 250	
🅖 Response for a Class	●━●━━━━━━━━━━━━━●	✓
	0 100 1000	