

Creating a CARiSMA analysis

1 Analyzing a model with CARiSMA

1. You created a model, applied the UMLsec profile and stereotypes/tags.

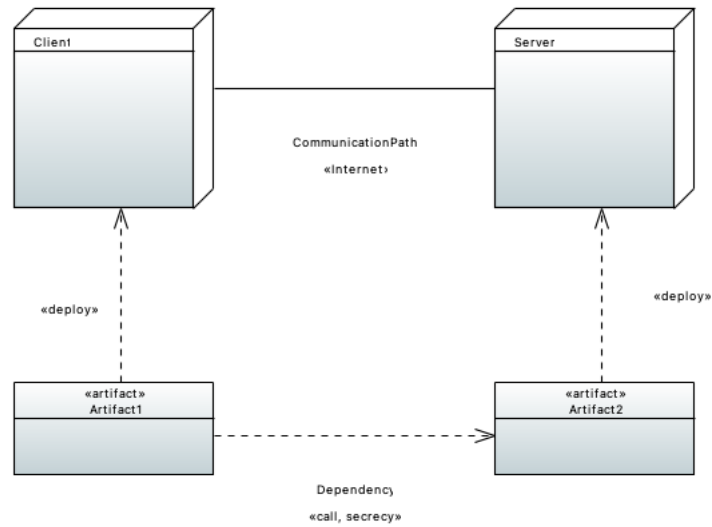


Figure 1: Incorrect model

2. Click *File*, then *New* and then *Other*.
3. Choose *CARiSMA* and then *Analysis*.

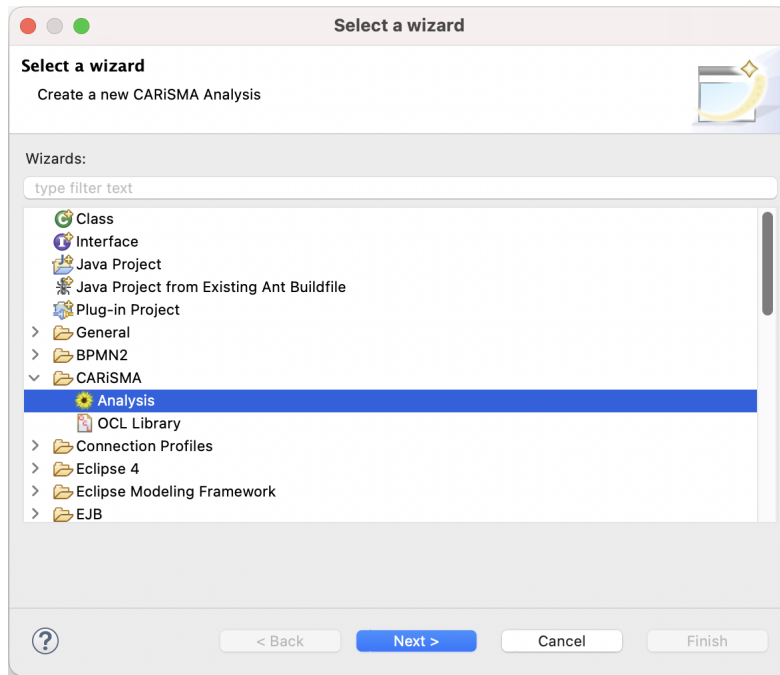


Figure 2: Selecting the CARiSMA analysis

4. Select a model to be analyzed.

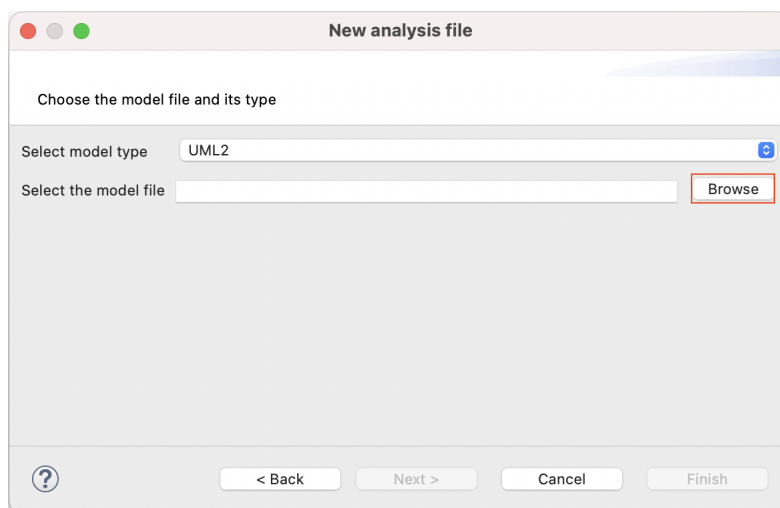


Figure 3: Create a new analysis file

5. Select the .uml file of your created model.



Figure 4: Selecting the model to be analyzed

6. Open the created .adf file and press the ”+” button.

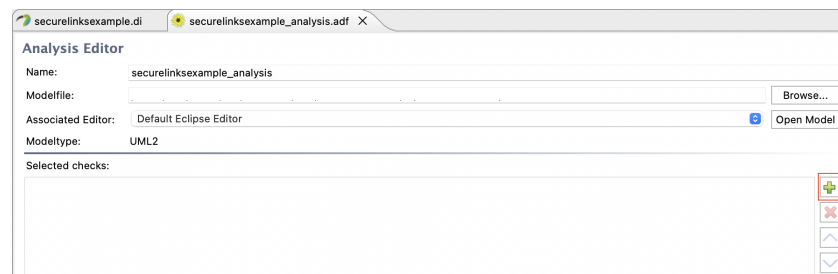


Figure 5: Check UI

7. Choose a suitable check for the model you created.

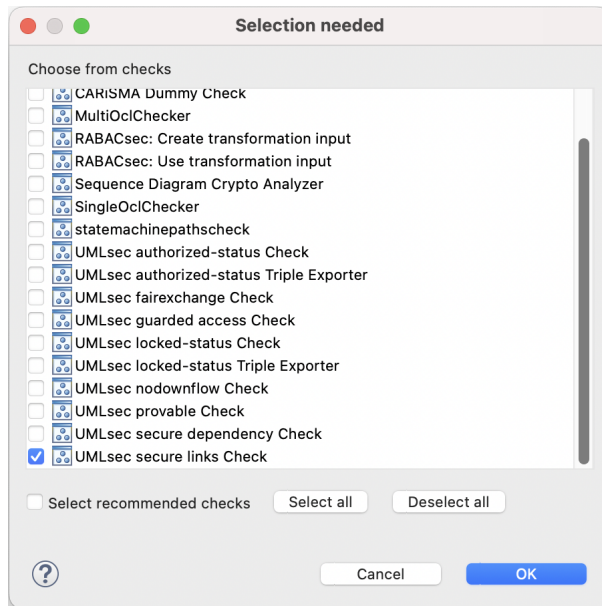


Figure 6: Selecting a check for the model

8. Run the check and obtain the result.

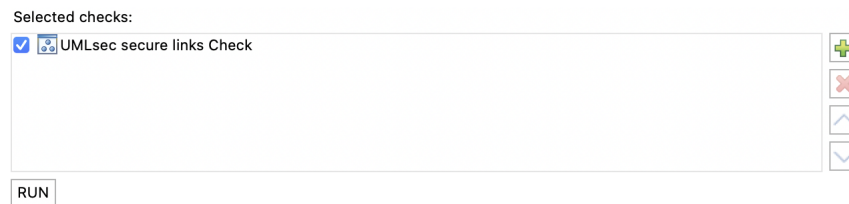


Figure 7: Running the selected check

9. If the check fails, create a report.

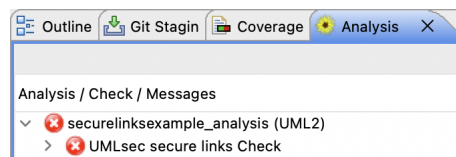


Figure 8: Check fails

10. View the report and obtain the results.

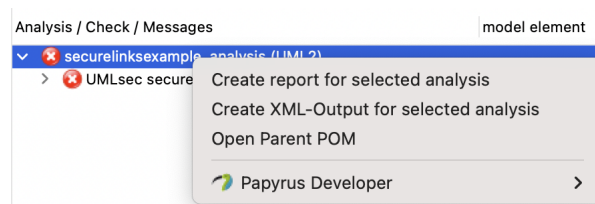


Figure 9: Creating a report

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Running check : UMLsec secure links Check
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Processing all relevant communication paths for dependency 'securelinksexample::Dependency' between 'securelinksexample::Artifact1' and 'securelinksexample::Artifact2':
  - Processing communication path 'securelinksexample::CommunicationPath1' between 'securelinksexample::Server', " and 'securelinksexample::Client'

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The analysis detected 1 errors.
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ERROR: default attacker can read at CommunicationPath 'CommunicationPath1'.
default attacker can read at CommunicationPath 'CommunicationPath1'.
  
```

Figure 10: Viewing the created report

11. Correct the model according to the check.

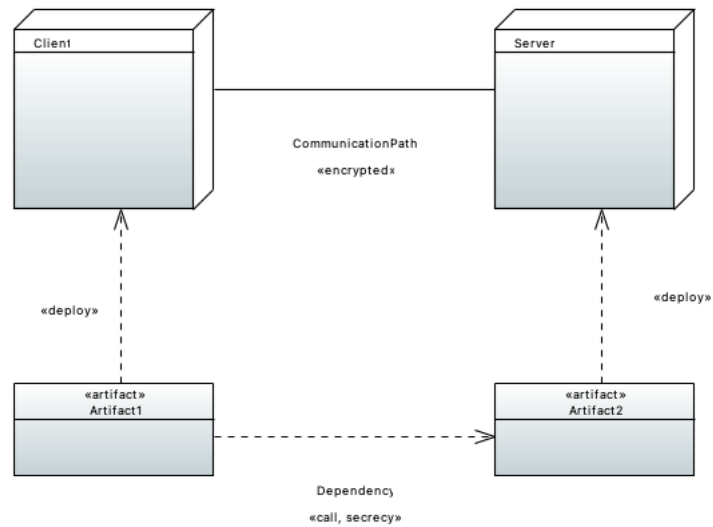


Figure 11: Correct model

12. Run the check again and observe if it is correct.

Analysis / Check / Messages
 ✓ securelinksexample_analysis (UML2)
 ✓ UMLsec secure links Check

Figure 12: Check successful