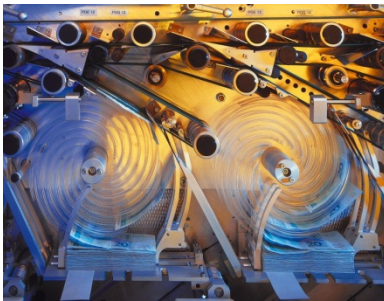




## **Development and Industrial Application of Multi-Domain Security Testing Technologies**

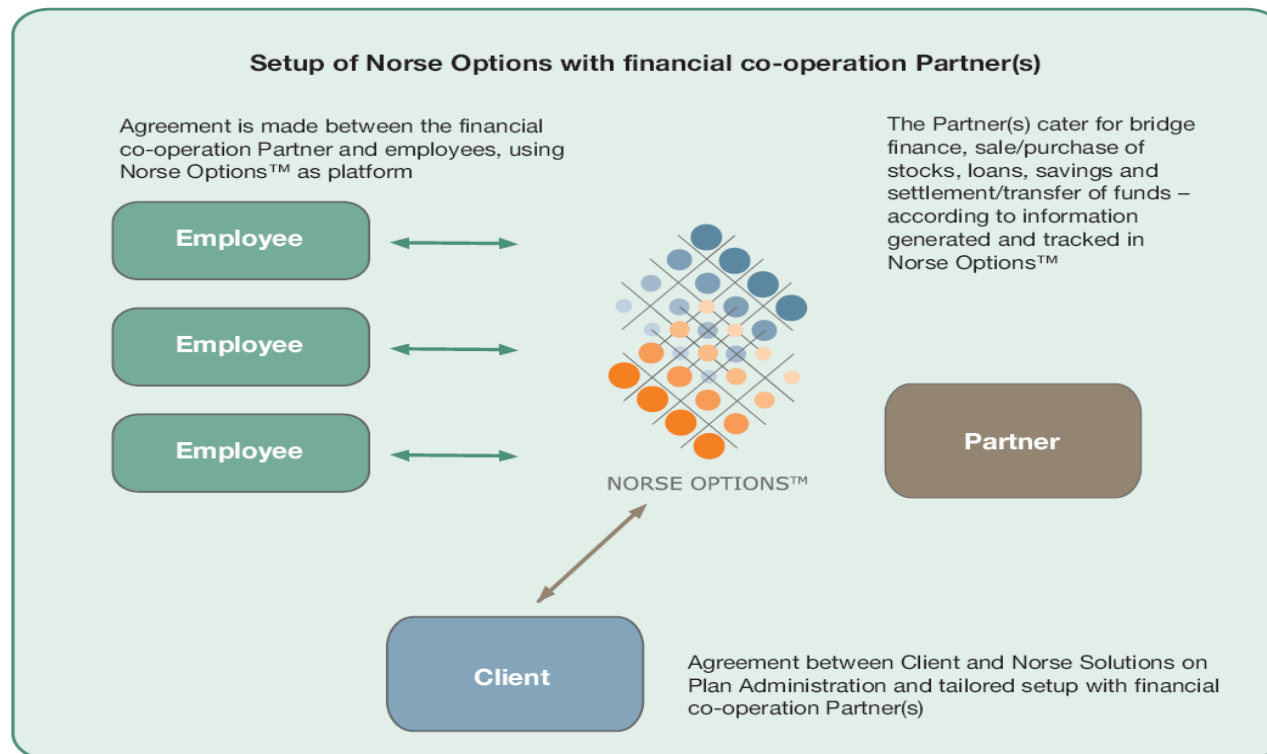
Case Study Experience Sheet  
Banking Case Study from Accurate Equity





# Banking Case Accurate Equity

## Case study characterization



The target of analysis is Norse Options – a web-based system used used to manage share based payment.



# Banking Case Accurate Equity

## Case study characterization

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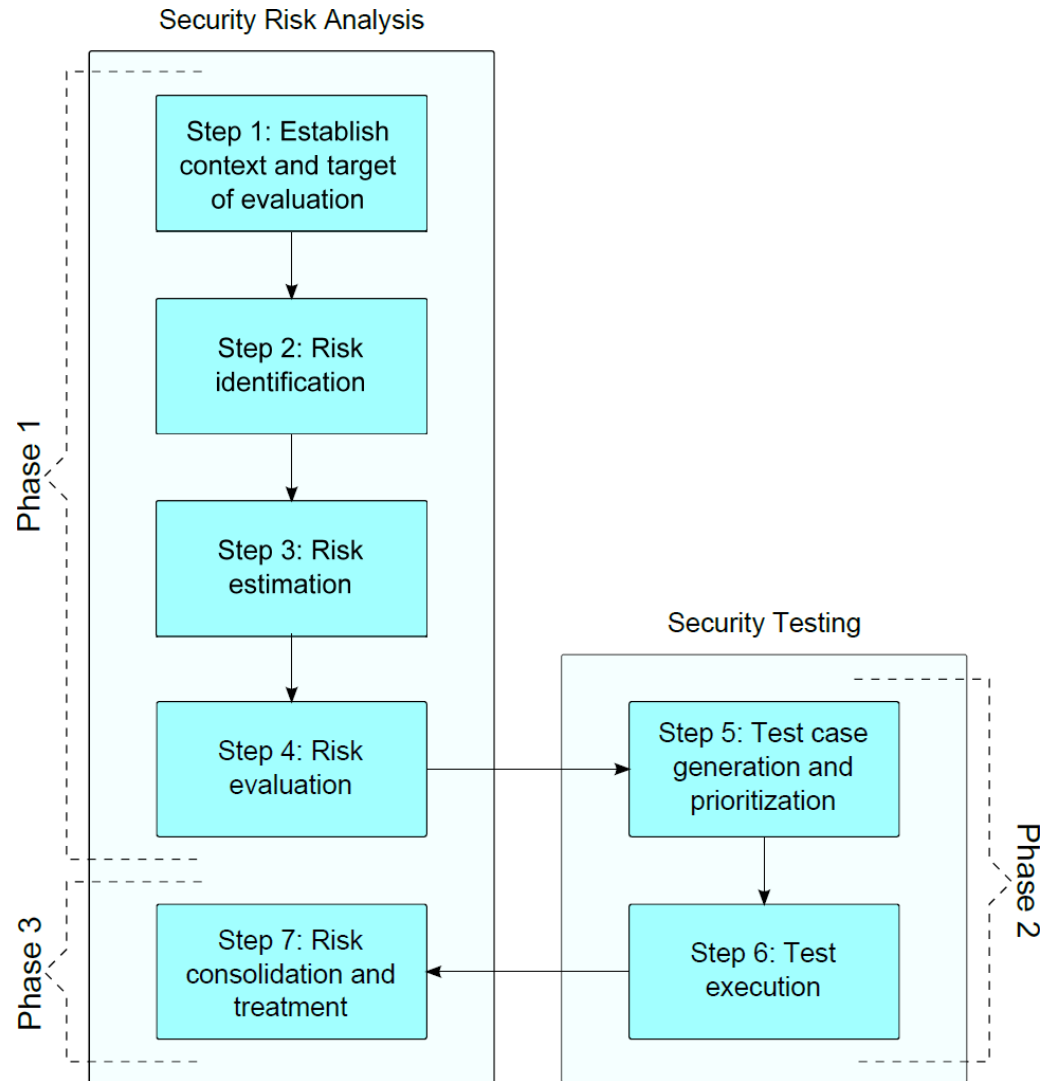


- Security challenges
  - **Prevention of risks due to web-based attacks such as:**
    - Injection
    - Cross-Site Scripting (XSS)
    - Broken Authentication and Session Management
    - Insecure Direct Object References
    - Cross-Site Request Forgery (CSRF)
    - Security misconfiguration



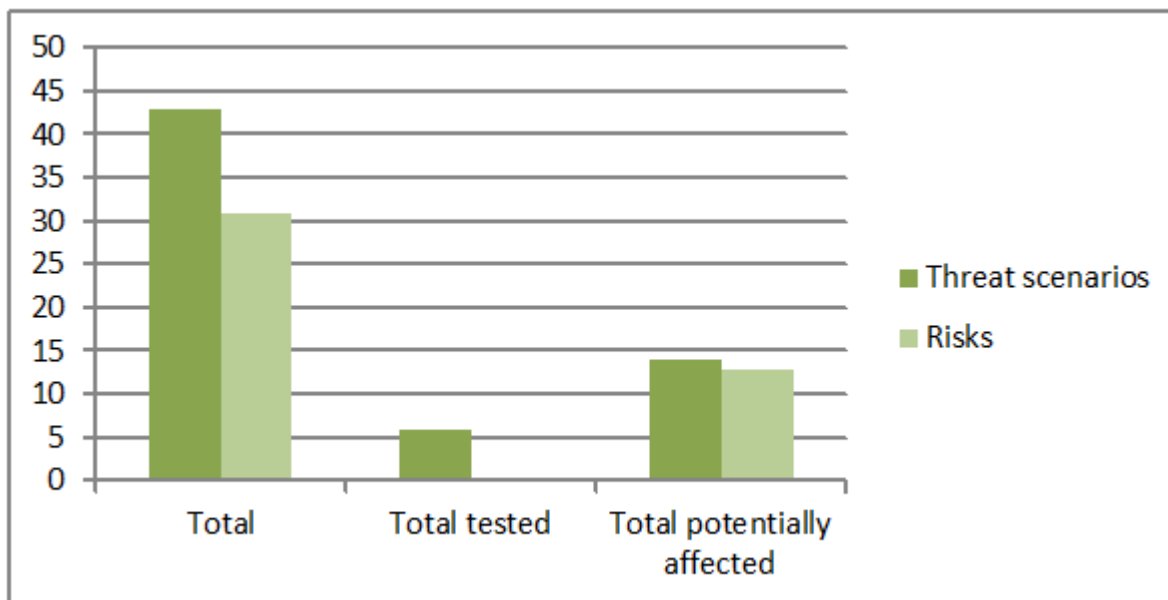
# Banking Case Accurate Equity

## Security testing approach





# Banking Case Accurate Equity Results



- **Total identified:**
  - 43 Threat scenarios
  - 31 Risks
- **Total tested:**  
6 of 43 threat scenarios

- **Change in risk model based on test results:**
  - 4 New vulnerabilities were identified and 1 removed
  - 14 of 43 threat scenarios could potentially be affected by testing (likelihood)
  - 13 of 31 risks could potentially be affected by testing (likelihood)



# Banking Case Accurate Equity Results



## Consequence

Likelihood

	1	2	3	4
1	Low	Low	Low	Medium
2	Low	Low	Medium	High
3	Low	Medium	High	High
4	Medium	High	High	High
5	High	High	High	High

2 RISKS CHANGED LEVEL FROM LOW TO MEDIUM

2 RISKS CHANGED LEVEL FROM LOW TO HIGH

- **Low** risk: risks in this category should be accepted
- **Medium** risk: risks in this category should be monitored or evaluated further
- **High** risk: risks in this category should be treated



# Banking Case Accurate Equity

## Exploitation

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- **The case study has led to a strengthening of the security of the Norse Options system**
- **Accurate will continue to use risk analysis as part of their business process also after the completion of DIAMONDS**



# Banking Case Accurate Equity Summary



## ▪ Improvement gains according to DIAMONDS STIP:

