[I04] solutions

[l04_p01] project

wim mees



intro

- we have decided which risks need to be addressed
- we now need to design the solution, we will start at a meta-policy level



data flow diagram

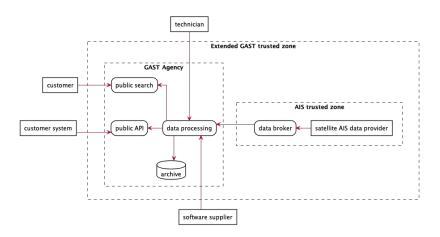


Figure 1: data flow diagram 1

scope for the policies

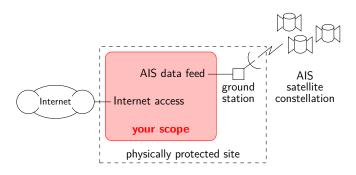


Figure 2: scope for the exercise

confidentiality classification levels

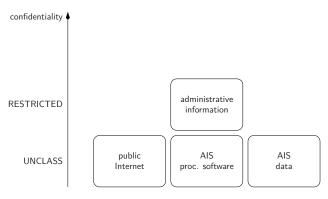


Figure 3: information domains

information flow policy for confidentiality

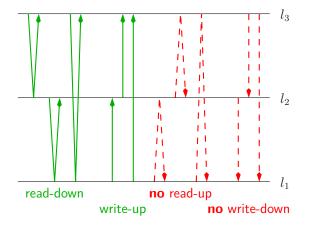


Figure 4: Bell LaPadula model

integrity classification levels

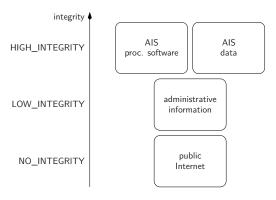


Figure 5: information domains

"ring" information flow policy for integrity

the "ring policy" consists of 2 rules:

- 1. any subject can read any object, regardless of integrity levels
- 2. subjects S can write to object O only if $I(O) \leq I(S)$

ring policy requires trusting the subject, assuming a subject can properly filter the information it receives

"strict integrity" "information flow policy

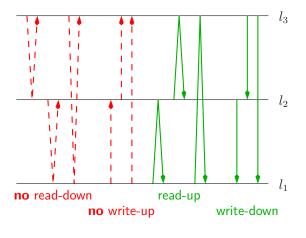


Figure 6: Biba model



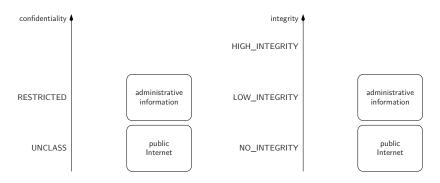


Figure 7: information domains

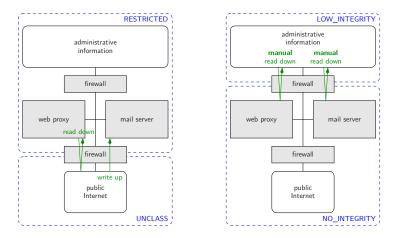


Figure 8: network topology

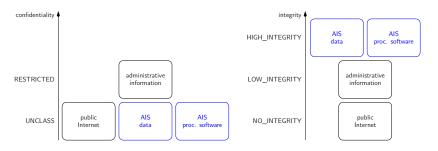


Figure 9: information domains

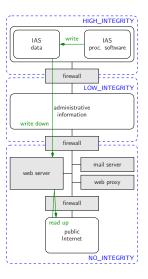


Figure 10: network topology



what is expected from you

your project

 think about which overarching meta-policy you will choose for GASEO and how you will implement it

conclusions



Figure 11: questions or comments ?