Friday, 14 October 2022

perpose specification is important for rivery-aware access control

EPAL goals

Mirary control (i.e. enable volicy enforcement) auditing i.t. Deing whether policies were violetal Transfer of policy-protected data

Not: providing a user interforce

EPAL formalize rivory policies formalizes privacy options manage consent enforcement

Actional access we .

High policy paradym of for consent if not already given traditional access control - does not take user preferences into account (at least not nicely)

data is transferred along with policy regulating access to it.

vocabulory -> user hierarchy data hierarchy action hierarchy purpose hierarchy

obligation model (0, -)
L'transitive relation of obligation, where 0, -0, states that

(user, data, purpose, action), (rulig, condition, obligation)

privog plig (vorobulog, ruleset, global constin, default rulig, default obligation)

(user, data, purpose, action) request

(user, action, purpose, data) + voicable assignment to decision + obligations

(policy_ever, o) is the response when the global condition is not next

defoult obligation are only returned when no allowed day rules match i.e. whene return the defoult ruling

EPAL provides

when rolling ? Teturns (allow, days), policy, returns the same.

If ? = don't wire, r, givesfallow, day, don't care) policy refinement -> a policy 11s a refinement of another volicy 2

whe policy 2 Teturns (account, using), prong.

and fulfillment of the obligation in refred policy limpties obligations in policy 2 are satisfied

i.e. there exists a E O, 10 02 such that 0, -> 0 -> 02

according to -> 0.

policy composition