

ENGINEERING ONLINE

Lecture Notes

Course Number: CSC 513

Instructor: Dr. Singh

Lecture Number: 18



Norm Life Cycle: 2

Computing the substate of a terminated norm

If terminated in		Then				
ant	con	Com [✓]	Aut [✓]	Pro [✓]	San	Pow
false	false	null	null	null	null	null
false	true	sat	<u>vio</u>	null	null	null
true	false	vio	null	sat	null	vio
true	true	sat	sat	<u>vio</u>	sat	sat

In the case of a power, a vio occurs upon the failure of an attempt to bring about the consequent.

Authorization → Handled computationally
Prohibition → Not " "

Deviating from
the conventional
meanings of these
terms

∴ NAD

Sanctions to ~~im~~ enforce
prohibitions

NCSU Library

AUTH - A student may read a course reserve doc ^(which course)
- A student may not read a course reserve
doc for a course he or she is not
registered in → OMIT AN AUTHORIZATION

PROHIBITION - A student may not post a course reserve
doc on a personal web page
HENCE, NEED A SANCTION

WHICH NORMS?



Authorizations
[Prohibitions]

vs

Powers

Marriage ceremony

"Bringing It About" by saying it

IT

SYSTEM ADMIN

- create an account
- delete " " | @ncsu
- " " | ebay

root access

can delete all files

Faculty & staff user

can delete own emails

Today: commonly, a discrepancy between authorizations
and powers



✓ Commitment but no power
" " " (physical) capability (not a norm)
" " " authorization

✓ Power but no authorization
Power but prohibition

STEPPING BACK

- COMPLEX (BWS) RELATIONSHIPS
- EXPRESSED VIA NORMS
- "QUALITY" OR "SOUNDNESS" CRITERIA ON THE NORMS



EXAMPLES OF SOUNDNESS CRITERIA ON NORMS

POWER BUT PROHIBITION

COMMITMENT BUT PROMISE

POWER BUT NO COMMITMENT?

COMMITMENT BUT NOT SATISFIED

RELATES TO POLICIES
RATHER THAN NORMS

PROHIBITION BUT NO SANCTION (no teeth)

SANCTION BUT NO PROHIBITION (false req)

SANCTION BUT NO (REQUISITE) POWER (can't sanction)

(VIOLATION OF A NORM) BUT NO SANCTION
eg. COMM

COM
AUT
PRO
SAN
POW

