

# Interface Design for Authentication and Session Management

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# Personal



# Enterprise



#8111, Naval Operating Base, San Diego, Calif., Apr. 1, 1931  
Destroyer Base - Building No. 1 - Wash Room, Second Floor -  
View looking Southeast - Yard Labor - Allotment 71201-40(D.B.)



4/3/08

# Multi-Head





# Multi-Seat





# Accessibility



# Authorization





# Privacy





# Fast User Switching





# Access Control





# Boundaries

חוטא במיוחד עבורך  
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# From a Different Time

- ~~X-Server~~ - Modernization nearly complete
- ~~utmp, wtmp~~ - ConsoleKit
- ~~Su~~ - PolicyKit
- VT Subsystem
- Name Service Switch
- Pluggable Authenticaion Modules
- Secure Attention Key
- getty/login, \*dm
- XDMCP



# X Server

- Needs to be seat aware
- Needs to know output configuration
- Needs to know the associated input devices
- May not want to run as root



# ConsoleKit

- Session and Seat accounting
- Seat is a collection of Sessions and devices
- utmp and wtmp replacement
- Interface for fast user switching
- Interface for System shutdown and reboot
- Currently relies on VT subsystem for Session switching



# VT Subsystem, why?

“You actually need the vt layer for a few things

- boot up
- a way to cope when X breaks again (most updates on some boxes)
- a way to undo things when selinux screws up on a package update and breaks pam
- a way for end users to be guided for debugging problems
- a way to reliably see kernel messages

Longer term the last one should go away, but the others won't.”

Alan Cox

2008-09-15

<https://www.redhat.com/archives/fedora-test-list/2008-September/msg00314.html>

