

Implementation of W2K at VT

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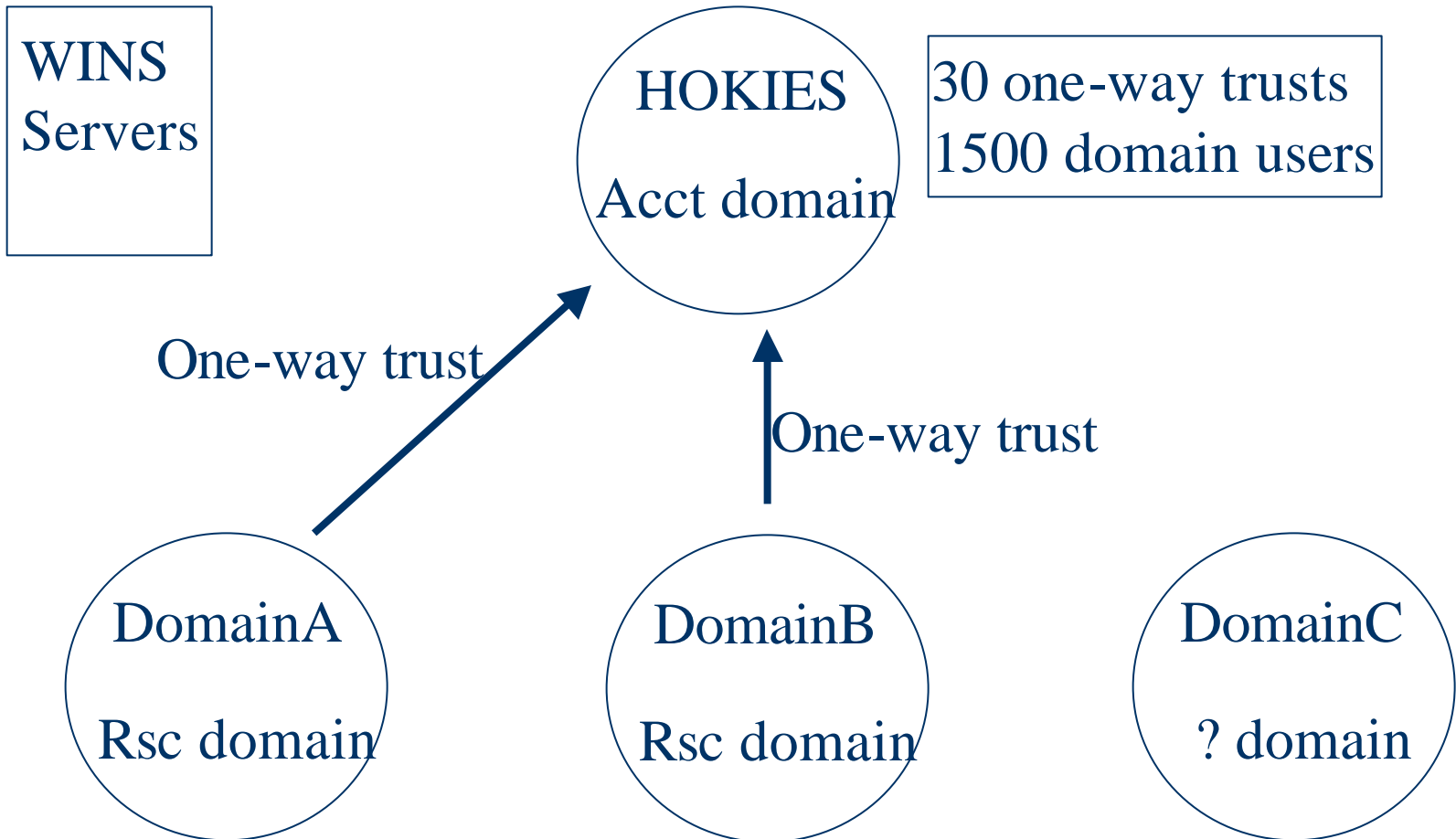
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Overview

- Preexisting Windows OS's
 - Win 9x – standalone (little/no security)
 - Win NT – standalone/workgroup/domain
- Problems with NT
 - No centralized NT domain management
 - Master of his domain...
 - Had 800+ NT domains vs 400+ DNS zones
 - Hard coded accounts DB, poor security delegation
 - HOKIES master account domain. Too little, too late

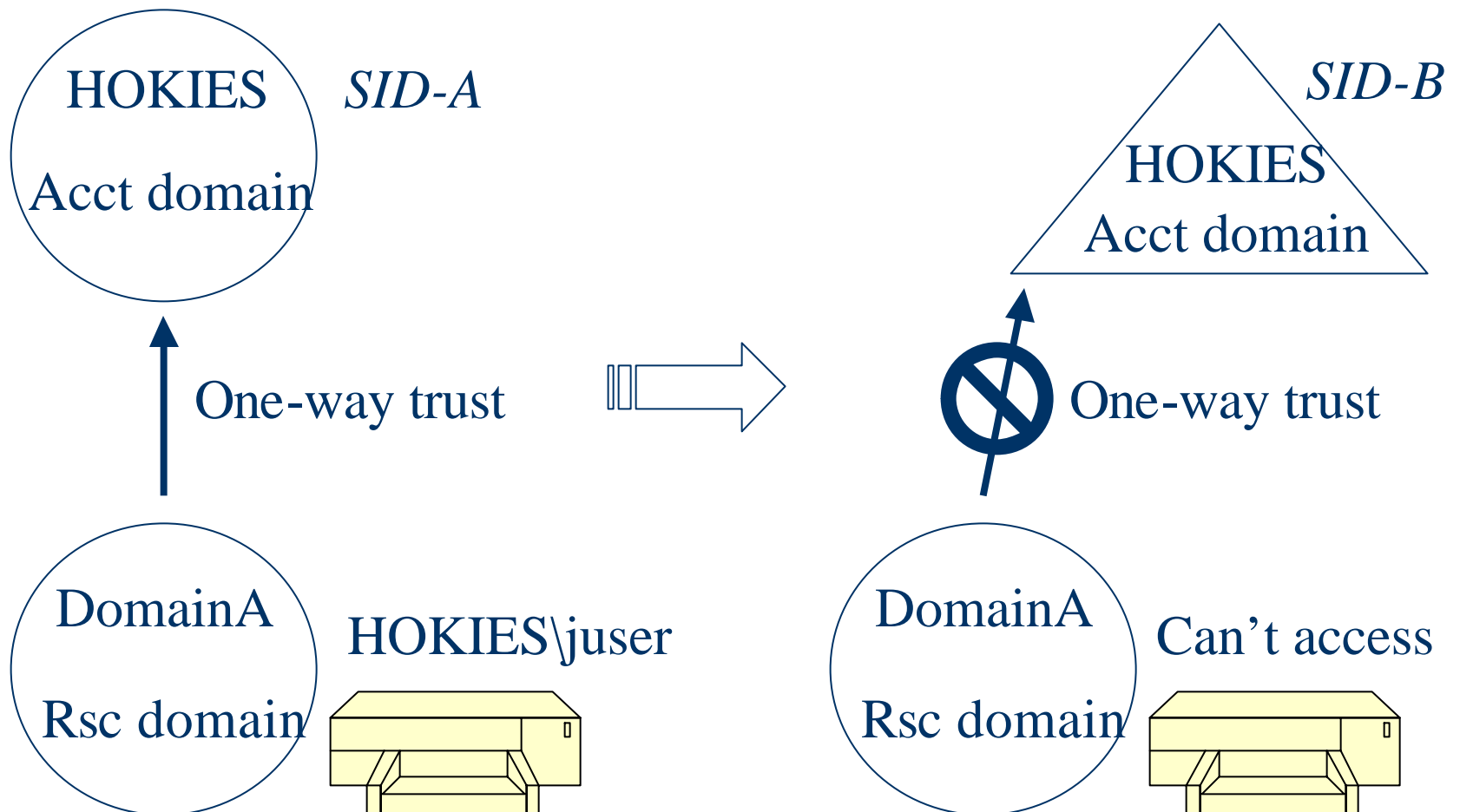
Pre-W2K



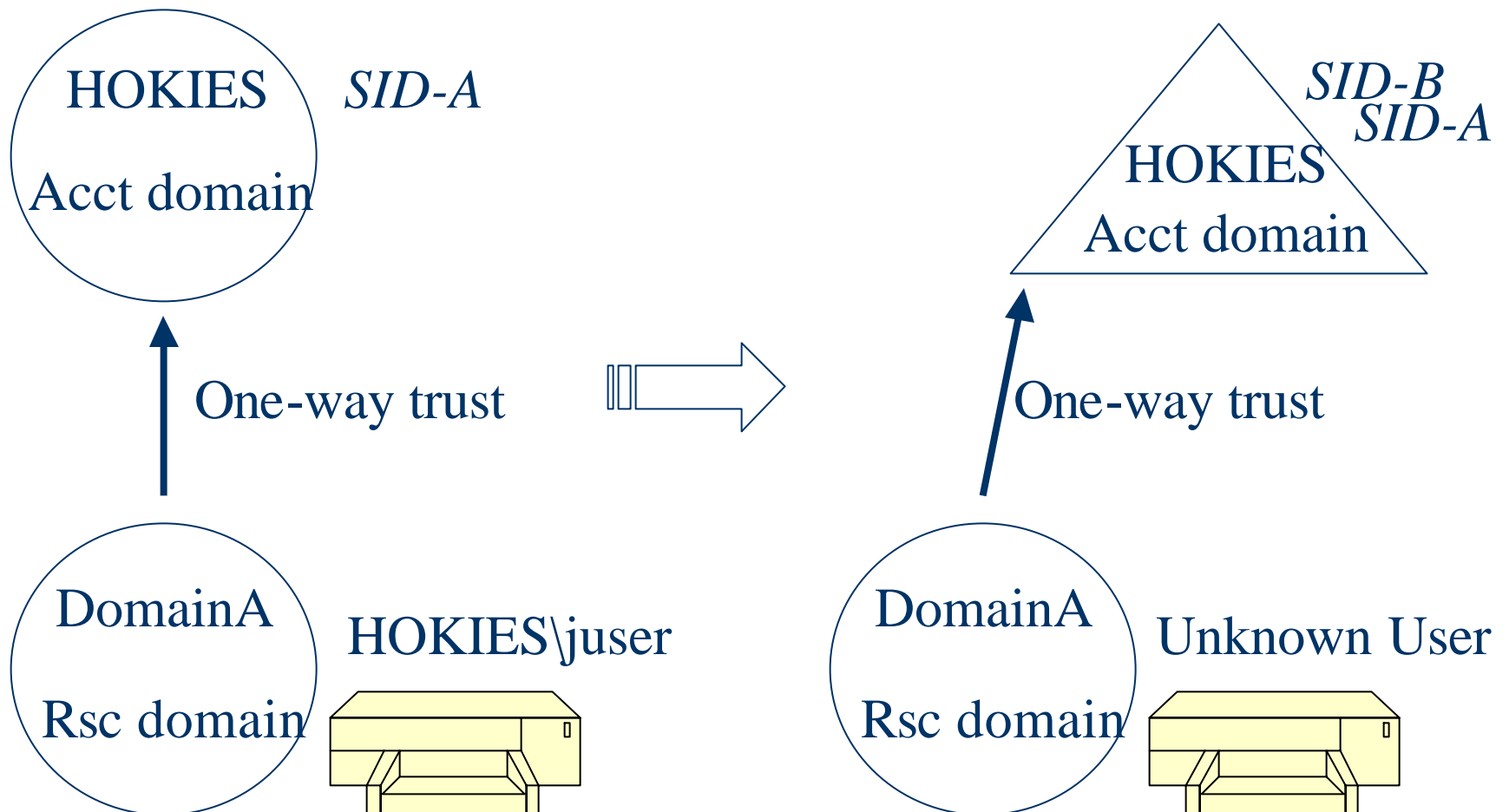
Pilot (January 12th, 1999)

- Test lab
 - Classroom of 20 Dell Optiplex gx1's
 - ~5 departments bring up W2K child domains
- Tested
 - W2K interaction with Bind v8.9.2 vs MS DDNS
 - Mixed/Native mode, universal groups
 - Backup/recovery, child domain management
 - OU/Group security delegation with MMC
 - Batch account loading via LDAP/ADSI interface

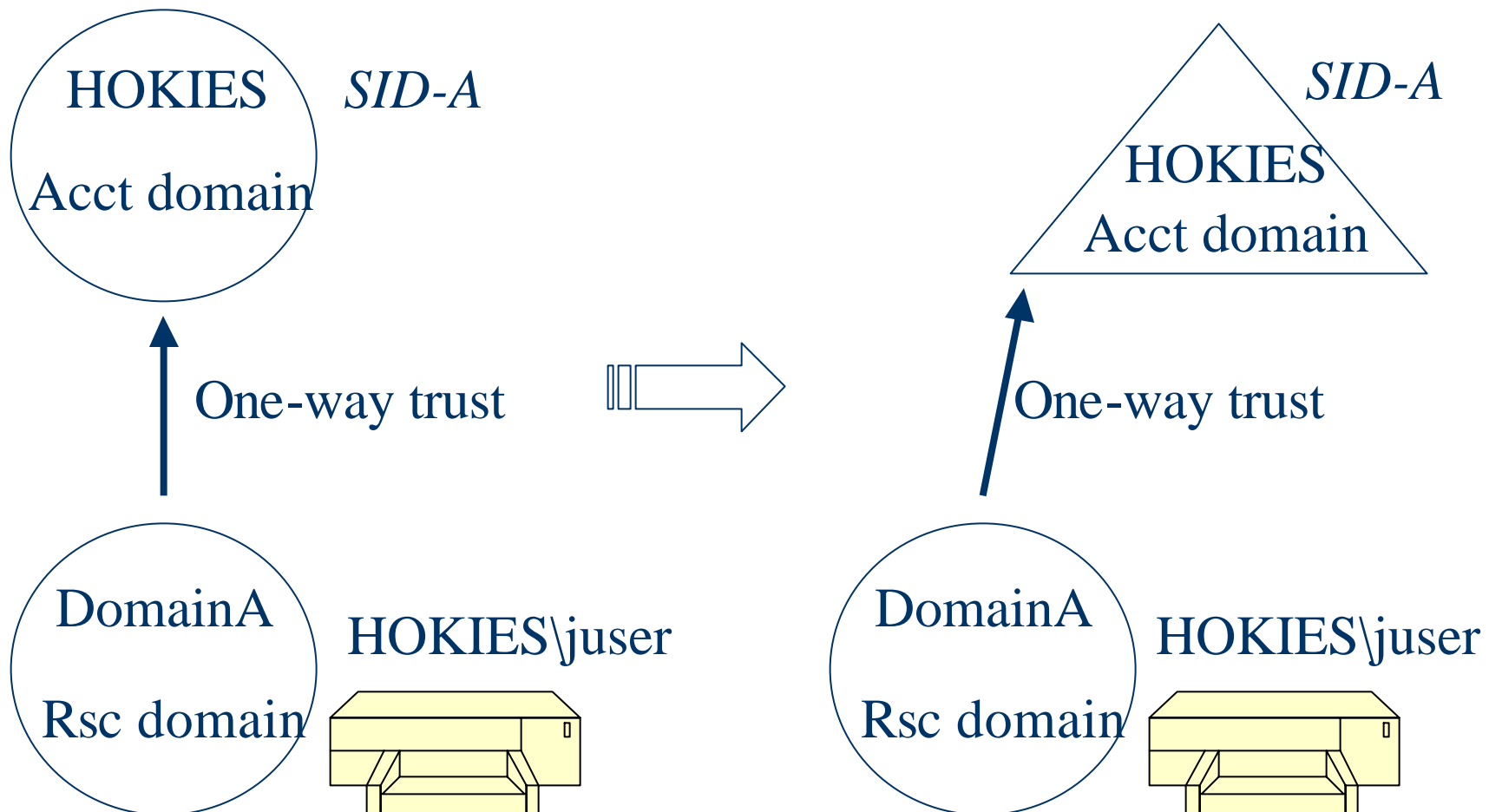
Migration – take 1 (clean install)



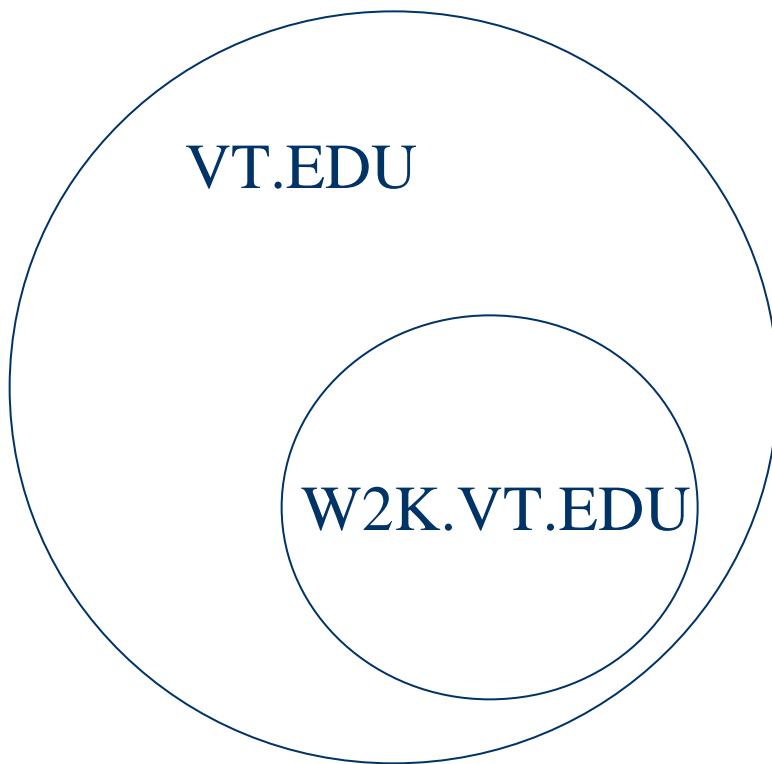
Migration – take 2 (using ADMT)



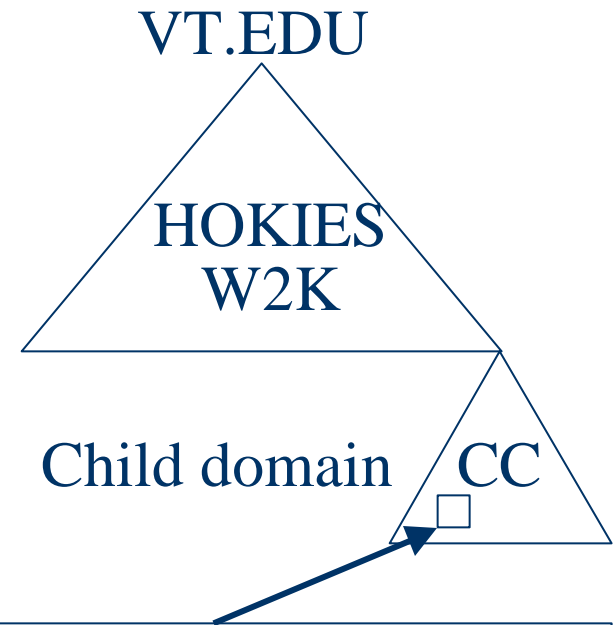
Migration – take 3 (using IHT)



DNS / AD partitioning



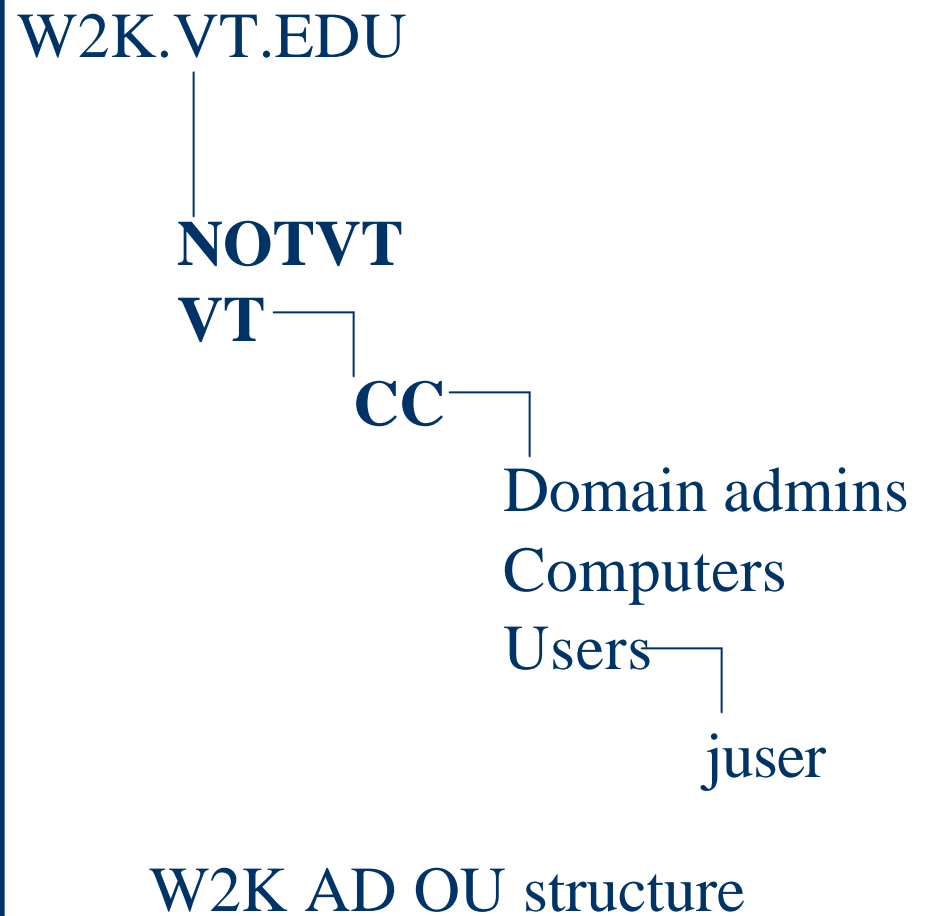
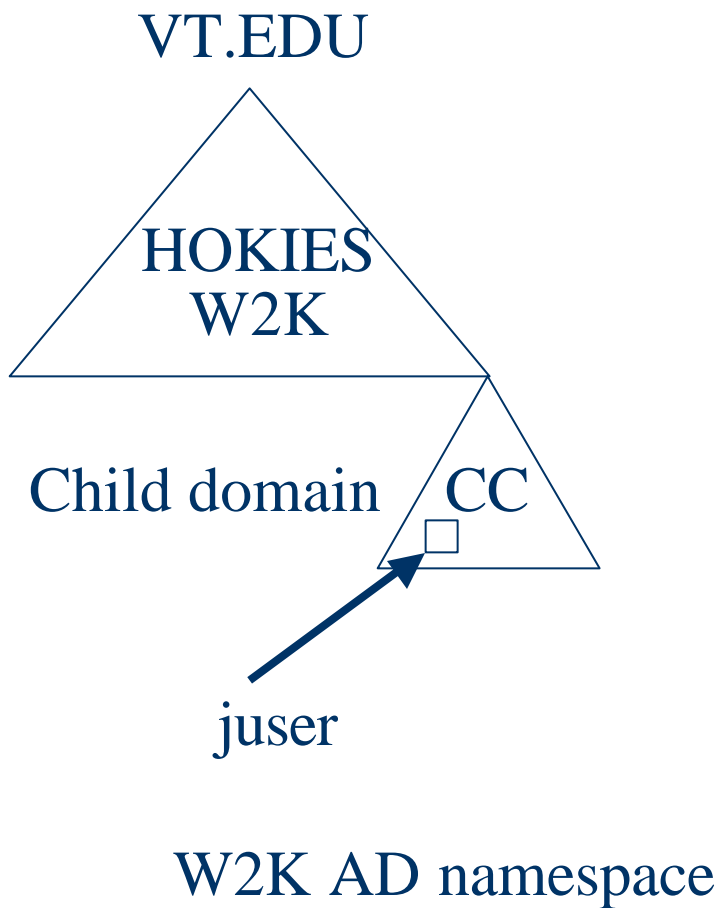
VT DNS namespace



This W2K workstation exists as
x.cc.vt.edu and x.cc.wk2.vt.edu

W2K AD namespace

OU structure

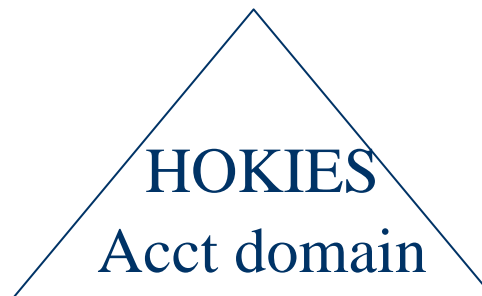


AD-DAY (July 10th, 1999)

- Politics
 - CNS, IRM, Call Center, Computer Purchasing
 - Domain admins, users
- Technical
 - Backups (boot, OS and user data)
 - Migrate accounts (25 attributes -> 207)
 - Reset passwords, send all users email
 - Re-establish trusts, create OU's, move users
 - Delegate authority, WINS, security settings
 - HOKIES changepass web page

Post-W2K

- Root now in productions at SP1, native mode
- Slow process of adding W2K child domains
 - Process is not technical, but political
- Evangelize and support W2K efforts (VTntug)
- Tighten security (Cert srv, smart cards, IPSEC)



28 NT domains
3 W2K child domains
2500 accounts
122 OU's

Resources

- **www.w2k.vt.edu**
 - Resources (ROE, book links)
 - Information (FAQ's and how-tos)
 - Presentations (PDF's of previous talks)
- **www.sysinternals.com** (newsid)
- **www.windowware.com** (IHT development)

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