



Killer Implementations and Deadly Roadblocks

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Brainstorm – Integrated Identity Management System Features





Brainstorm – H.350 Endpoint Features and User Interface Considerations



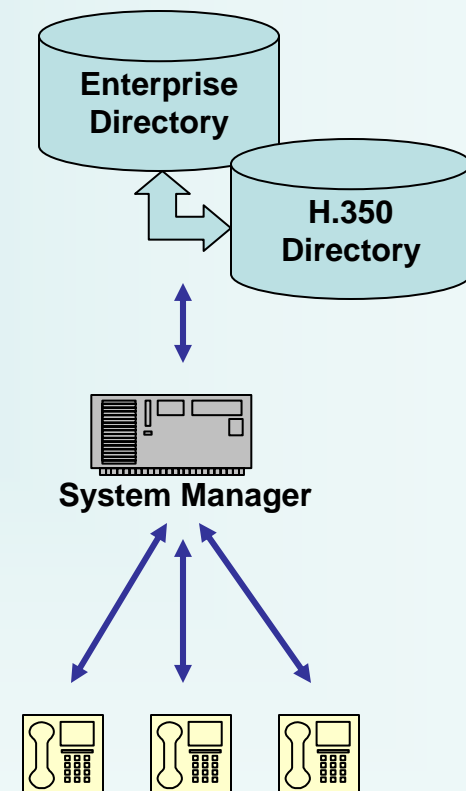
H.350.6 Call Forwarding and Preferences

- URI + Label
 - URI points to location where call forwarding address can be found
 - Label specifies type of forwarding and wait time
- Potential Targets
 - Another number
 - Unified messaging number
 - CPL script
 - mailto:
 - Web form 'Sorry we missed your call. Please fill out this form and we'll have someone call you back'
 - whack_a_mole.jsp video game
- Don't forget loop detection



Using A Server to Proxy H.350

- Endpoint communicate with System Manager using proprietary protocol
- System manager
 - Handles H.350 lookups
 - Pushed results to endpoints
 - May populate endpoint address books
- Reasons to proxy
 - Proprietary directory already exists
 - Endpoints can't handle LDAP overhead
 - Auto configuration of endpoints works well in this scenario





People vs Rooms

- People are easy
 - inetOrgPerson
 - Except eduPerson, uabPerson, uncPerson, etc.
- Enterprise directories often do not accommodate rooms
 - Who owns a room? A department? Who owns a department?
Difficult organizational issues
- Solutions
 - Pretend people are rooms
 - Register attribute classes with lookup systems
 - Standardize on a room definition for LDAP (SG16)
 - Is it really a room?
 - What about mobile H.323 medical carts?
 - What about H.323 for surveillance applications?



H.350 and Enum



- Enum

- Address Translation: Uses 8.0.0.7.3.4.8.9.1.9.1.e164.arpa to return NAPTR record containing sip:uli@earthnet.net or h323:uli@earthnet.net
- Domain not owned by enterprise. E164 number and contents of NAPTR under governmental control.



- H.350

- Database owned by enterprise.
- Contains canonical user information
- Contains canonical endpoint information (e.g. AOR)
- Might be used to populate Enum if legally permitted





Implementation Concerns



- H.350 allows for temporal passwords if used with self configuring endpoints

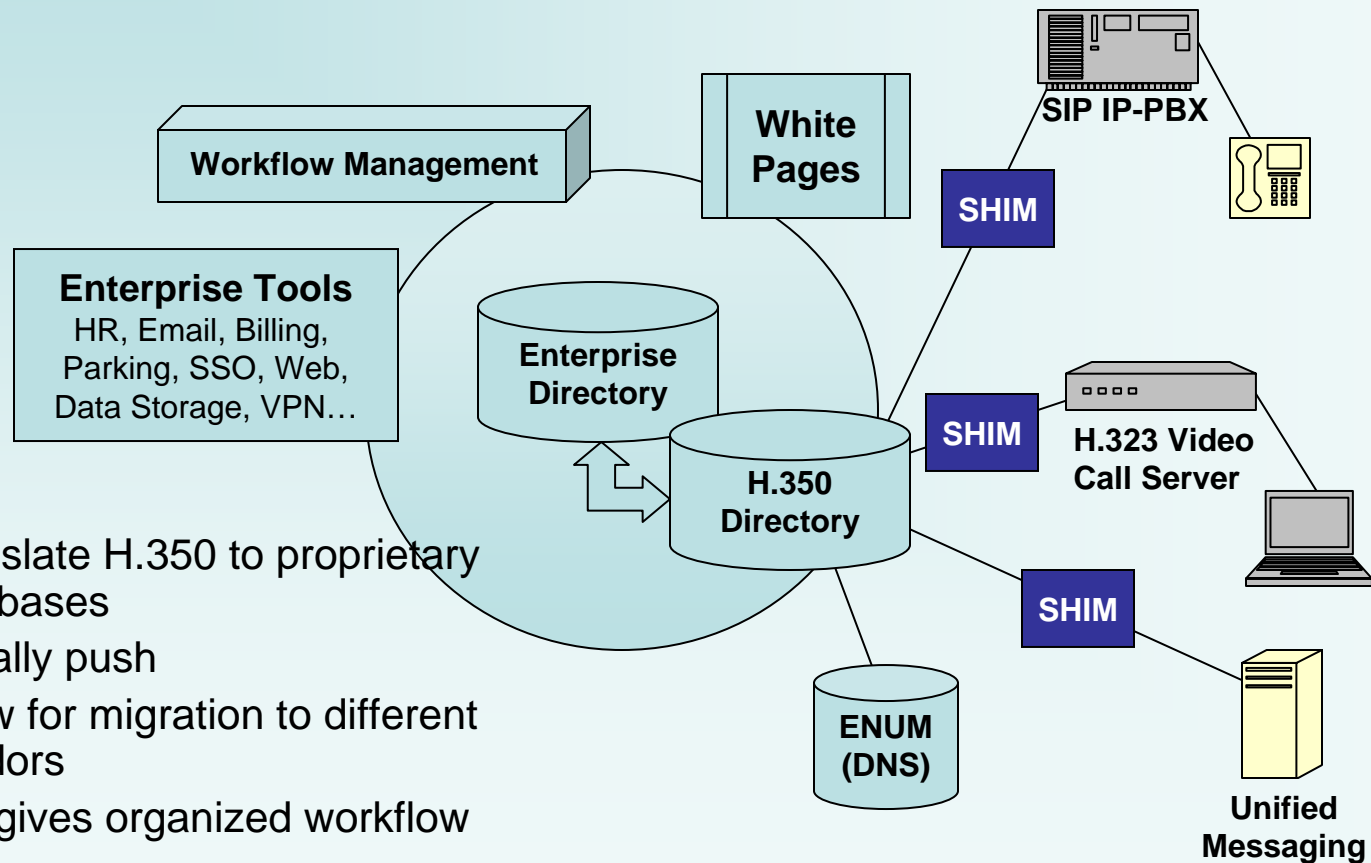


- Use of email addresses for AORs
 - Good for some users
 - Privacy concern (e.g. don't use if you don't want SPAM, stalking, etc.)
 - Many applications don't map cleanly between individual usernames and AORs (e.g. sip:help@unc.edu)





Shims – ‘But My Vendor Doesn’t Support H.350 !!



- Translate H.350 to proprietary databases
- Usually push
- Allow for migration to different vendors
- Still gives organized workflow



Public Directories



- People use video conferencing to reach others far away
 - Geographically remote
 - At other instructions
 - To deliver services to from resource rich to resource poor areas
- Remote institutions cannot provide directory services in many cases
- ‘Public’ directory may provide a useful resource
- Very different security policies
 - Timeouts
 - Few access rights
 - Less tech support
 - Firewall-land

