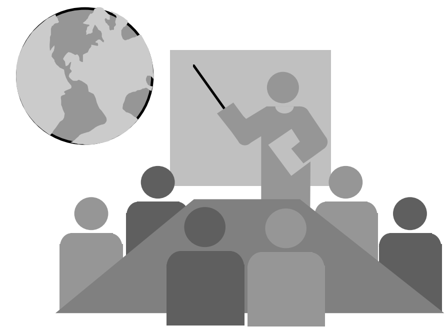

DHCP User Classing

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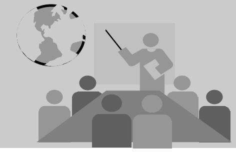
Background

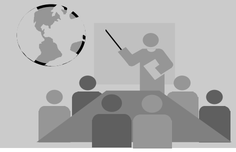
- **Part of revised DHCP protocol internet draft since… (6/96)?**
- **Pulled out of the last draft at the request of IESG**
  - while scrutinizing RFC1533
  - questions about interoperability and number of independent implementations
- **Now embodied in separate I-D and on separate standards track**
  - draft-ietf-dhc-userclass-01.txt

Requirements Statement



- **There is no standard means to administer DHCP client hosts based on the characteristics of the hosts end-user or its application**
  – RFC1541 allows only administration based on the clients subnet or via the value in it’s vendor class value
  – vendor class (option 61) intended for use by DHCP server vendors to identify and administer (opaque, in option 43) parameters to like DHCP clients.
- **Some useful applications of user-classing:**
  – serving a different LPR printer for the finance department
  – serving a shorter lease time for laptop computers vs. stationary workstations

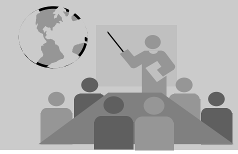
DHCP User Class Proposal



- **DHCP Client specifies User Class**
  - DHCPDISCOVER/OFFER contains a user class option with NVT string value indicating membership
- **DHCP Servers respond with DHCP options and values appropriate for the specified class**
  - If DHCP server supports user classing and the subject class, it responds with options and parameters specified by the DHCP administrator along with the User Class option.
  - Otherwise, the option MUST be ignored
- **Option format:**

opcode=77	length=n	NVT string of length “n”

Some Issues



- **Interoperability among independent implementations?**
  - Resolved per CONNECTATHON ‘97 (IBM and American Internet)
  - Others?
- **Implementation notes added per suggestions at San Jose meeting (Dec.96)**
- **Any other issues?**

- **Consensus to move user classing forward and request Proposed Standard status?**