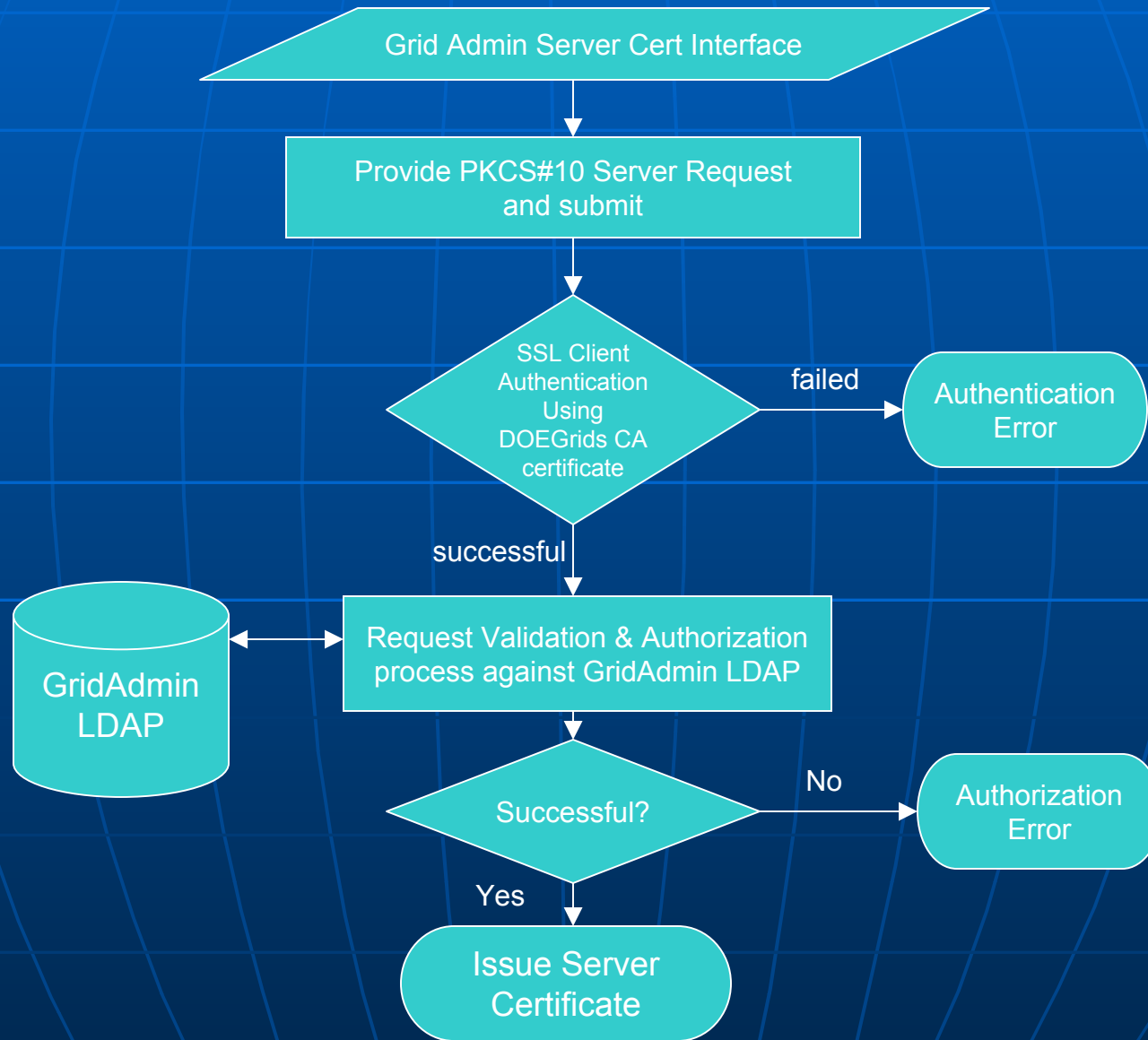# EDG Dublin

Tony J. Genovese

December 2003

Automated Client Certs

- Goal
  - Provide for automated clients that handle monitoring service systems, backup systems and various housecleaning utilities.
  - processes are typically automated, run across multiple machines, and generally run using an identity with the necessary privileges to perform their tasks
- Recommendation
  - create a separate namespace for this new class of certificates.
  - new namespace branch be created, alongside the customary "OU=People" and "OU=Services,"
    - differentiated by an "OU=robots" RDN.
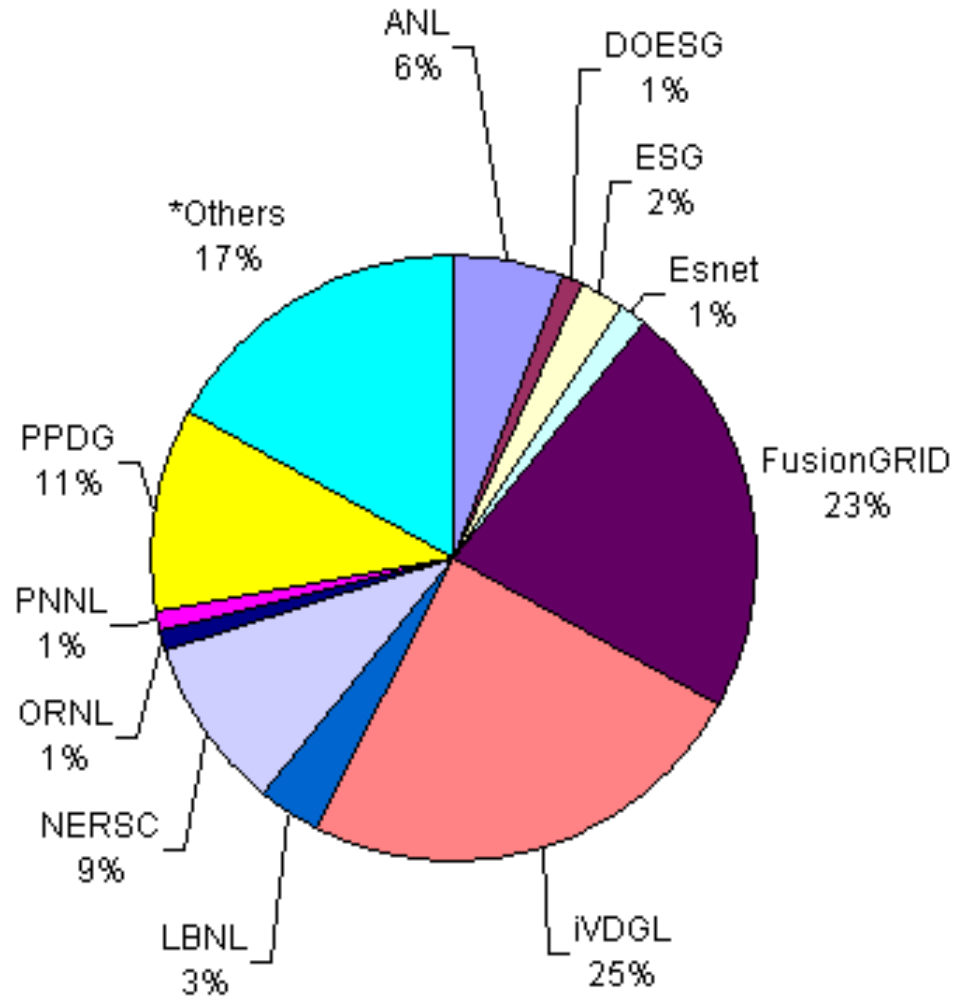
DOEGrids PKI roles

- Policy Management Authority
  - Manages PKI policies
- Security Officer
  - Manages PKI infrastructure
  - Responsible for implementing PKI policies
- Registration Authority
  - Represents VO on PMA
  - Responsible for identity vetting of VO members
- Registration Agent
  - Delegated identity vetting from RA
- Grid Administrator (new)
  - Delegated by Agent to issue Service Certificates

Grid Admin Role

Grid Admin Server Cert Interface

Provide PKCS#10 Server Request and submit

SSL Client Authentication Using DOEGrids CA certificate

failed → Authentication Error

successful

Request Validation & Authorization process against GridAdmin LDAP

GridAdmin LDAP

Successful?

No → Authorization Error

Yes

Issue Server Certificate

4

DOEGrids community

DOEGrids CA Statistics (Total Certs 953)

* Includes DOESG transitioned Certificates