

**TRACK 1: INFRASTRUCTURE  
SESSION 180**

**Successful Encyclopedia  
Administration in a Multi-Project  
Multi-Encyclopedia Environment**

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**Introduction**

- ◆ How NASD/Nasdaq successfully manages the Composer Client/Server Encyclopedia in a Dynamic Development Environment

## **Topics of Discussion**

- ◆ Encyclopedia Administration at NASD/Nasdaq
- ◆ Composer Development Environment
- ◆ Institutionalization of Encyclopedia Administration
- ◆ Lessons Learned
- ◆ Summary
- ◆ Future Challenges

## **Encyclopedia Administration at NASD/Nasdaq**

- ◆ Encyclopedia Administration Responsibilities
- ◆ Relationships with Partners
- ◆ CSE Problem Resolution
- ◆ In-House Tools for CSE Administration
- ◆ Distribution of Responsibility and Authority

## **Encyclopedia Administration Responsibilities**

- ◆ Compatibility with NASD Environment
- ◆ CSE Installation and Configuration
- ◆ Directory Administration
- ◆ CSE Database Cleanup and Reorganization
- ◆ CSE Performance Tuning

## **Relationships with Partners**

- ◆ Internal
  - Data Administration
  - Production Services - DBA/System Administration
  - Microsystems and Network Support
- ◆ External
  - Texas Instruments
  - Sequent
  - Oracle

## **CSE Problem Resolution**

- ◆ Composer Log Files/Oracle Log Files
- ◆ NASD Ticket Data Base
- ◆ TI IEFLink
- ◆ DIAG Report
- ◆ Composer Utilities - Support Client
- ◆ TI Support

## **In-House Tools for CSE Administration**

- ◆ Encyclopedia Activity Queueing
- ◆ IEFMON
- ◆ Model History Log
- ◆ CSE Activity Requests
- ◆ Automated Scripts

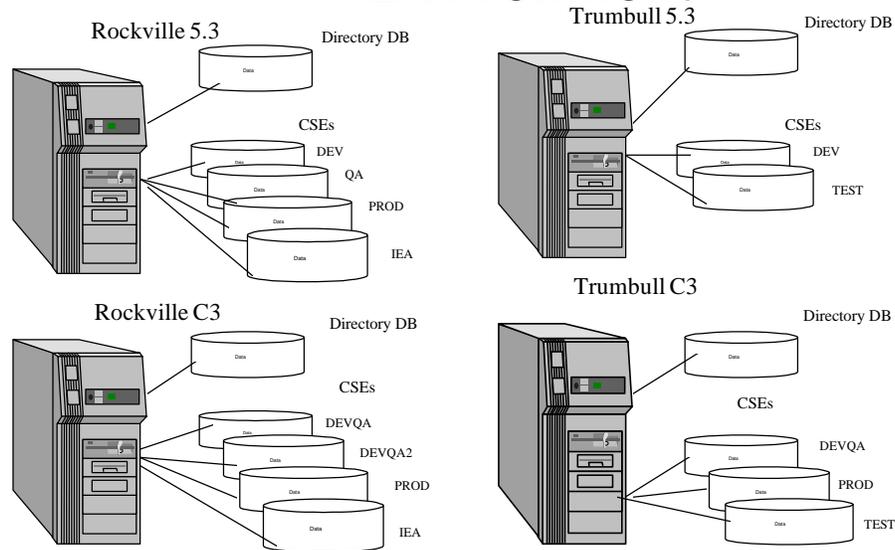
## **Distribution of Responsibility and Authority**

- ◆ Directory Administration
- ◆ Encyclopedia Administration
- ◆ Subset Administration
- ◆ Model Administration

## **Composer Development Environment**

- ◆ Technical Environment - What our environment looks like and Why
- ◆ CSE and Model Statistics
- ◆ CSE Administration Staff

# Technical Environment



## CSE and Model Statistics

- ◆ CSEs
  - 5.3 Rockville - 4    Trumbull - 2
  - C3 Rockville - 4    Trumbull - 3
- ◆ Model Life Cycle Stage and Object Count
  - Concept    - 1 Model /Object Count    1,704
  - BAA        - 8 Models/Object Count    218,546
  - BSI        - 13 Models/Object Count 3,027,955
  - QA         - 10 Models/Object Count 2,259,077
  - Production - 5 Models/Object Count 1,593,083

## **CSE Administration Staff**

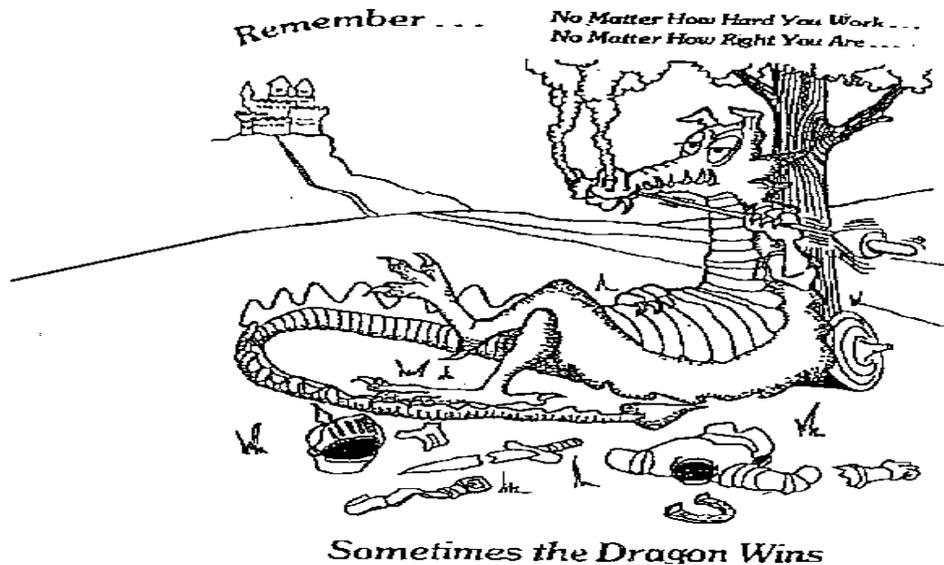
- ◆ Staff
  - 1 - 4 Technical Specialists
- ◆ Skills
  - Unix
  - Windows NT
  - Oracle
  - Problem Solving Ability
  - Full Life Cycle Development
  - Customer Service Approach
  - Communication Skills

## **Institutionalization of Encyclopedia Administration**

- ◆ Management Commitment
- ◆ Training
- ◆ Coordination with Internal/External Groups
- ◆ Procedures - Internal Support Guide/ Project Plan
- ◆ CSE Weekly Meeting
- ◆ Information Xchange
- ◆ OASIS - Intranet Web Site

## Lessons Learned

- ◆ Extensive Training
- ◆ Future Release Planning
  - Design Committee Participant
  - Active Alpha/Beta Site Participant
- ◆ Preparation for CSE Upgrades
  - Careful Testing of new Releases
  - Verification of PTFs in **our** Environment
- ◆ Database of CSE Problems/Resolutions
- ◆ Careful Planning/Coordination of Model Activities
- ◆ Distribution of Responsibilities and Authority



## **Summary**

- ◆ Dynamic Environment
- ◆ Commitment to Succeed
- ◆ Careful Planning and Management of Encyclopedia/Model Activities
- ◆ Willingness to Change, Learn, and Evolve

## **Future Challenges**

- ◆ Continued Participation in Composer Design Committee and Alpha/Beta Programs
- ◆ Expand use of CSE to provide repository-like capabilities through the Open API
- ◆ Study future technology trends and Industry Best Practices
- ◆ Incorporate new technology into Software Factory