

## Drawing Corruption

### Various Potential Causes

- Network (transmission errors, file locking, latent writing of data)
- Storage media degradation (bad sectors on a hard drive)
- Defective or failing RAM
- Operating system issues
- Power surges
- 3rd-party applications running inside the Autodesk product
- DWG created or saved by a non-Autodesk product
- AutoCAD terminated while saving DWG (less frequent)

### When a drawing can NOT be opened:

#### RECOVER command

- Recovers a selected drawing file
- If successful, open and run AUDIT command
  - Evaluates drawing integrity and possibly more error correction
  - Set system variable AUDITCTL=1 to create a report of audit results

#### RECOVERALL command

- Recovers a selected drawing file
- Attached and nested xrefs are also opened, repaired, resaved, and closed

#### INSERT and EXPLODE

- Start AutoCAD with NO prototype
- Run INSERT and selected the corrupted drawing
- Check the “Explode” option

#### Restore from autosave (SV\$) or backup (BAK) files

## When a drawing CAN be opened but still has corruption:

### WBLOCK command

- WBLOCK command
- WBLOCK all objects in the drawing to an external block file
- Open new file and run AUDIT

### DXFOUT/DXFIN

- DXFOUT to create a new .dxf file
- Start new drawing and DXFIN to import the new .dxf file

### AECTOACAD

- Exports to a selection drawing version
- Strips potentially corrupt custom objects

### PURGE command

### Copy and Paste into a new drawing

### External References and Bind

### Restore from autosave (SV\$) or backup (BAK) files

## Remark:

“I have more corrupt drawings in this release than ever before!  
What is AutoCAD doing to my drawings?”

### The Perception of Corruption

- Each new release improves the ability to detect corruption
  - Potentially more error messages because more corruption is being found
  - Detection is product specific –not drawing specific
  - Same drawings in 2010 product may report corruption not reported in 2008
- More frequent error messages may not mean more corruption
- It may mean better detection of existing corruption
- Corruption that was already there but was not previously detected