



CAL Connect2012
Dynamics GP User Event

OPTIMIZING FOR GP PERFORMANCE

Charles Ray

Senior Systems Specialist

chuckr@calszone.com



CAL Connect2012
Dynamics GP User Event

www.calszone.com

THERE IS NO MAGIC BULLET

5 Main Performance Areas

- Server Hardware
- SQL Server Software
- Network
- Workstation
- Dynamics GP Application

SERVER HARDWARE

- Memory (RAM)
- RAID Configuration
- Hardware RAID Controller
- Disk Speed – 10,000 RPM +

MEMORY (RAM)

- 8 GB +
- Server OS uses 2+
- SQL Server will make best use of all memory available to it.

PARTITIONS

- Single RAID 5 Array – Why partition?
- No performance gain, more for the controller to manage.

RAID CONFIGURATION

- Redundant Array of Independent Disks
- RAID 0 – single disk – TEMPDB
- RAID 1 – 2 mirrored drives – OS, SQL Logs (.ldf)
- RAID 5 – 3 or more striped disks – SQL Data (.mdf)

HARDWARE/OS MAINTENANCE

- Watch Available Drive Space
- Defragment
- Reboot as available
- Exclude SQL Data Directory from Antivirus On-Access Scanning

SQL SERVER SOFTWARE

- Application, not background service
- Let SQL manage its own resources
- Don't run other applications which will compete for memory i.e. Microsoft Exchange

SQL MAINTENANCE

- Backup proper for Recovery Model
- Defrag or Rebuild Indexes Weekly
- Update Statistics Weekly

NETWORK

- 1GB NIC Minimum Speed
- CAT 5 + Wired Connection Preferred
- Check any intermediate switches
- Please, no hubs
- Use Wireless only if there is no other option
- LAN **ONLY**

WORKSTATION

- OS Windows XP with SP3 Minimum
- Dynamics GP 2013 will not support XP
- 64-bit preferred for RAM usage
- 4 + GB RAM for multi-tasking
- Drive Speed - 10,000 RPM + Preferred
- Defragment drives

WORKSTATION MAINTENANCE

- Defragment Drives regularly
- Ensure Antivirus is up to date

DYNAMICS GP LAUNCH

- Program Load Considerations
 - When does performance decrease?
- Dynamics.set and Dex.ini – Network-related activity
 - Observe naming conventions for path designations
- Shared files and folders – check for nonexistent paths, particularly if you have recently removed servers

GP POST-LOGIN

- Network + local drive + SQL-related
- Disable any unused Home Page features
- Remove large calculated reports from Home Page
- Lower Limits for Auto-Complete



QUESTIONS & ANSWERS





CHARLES RAY

chuckr@calszone.com 860.485.0910 x 110



www.calszone.com