St. Louis Community College

GEMS Project
Phase 1 Overview

1. Research, planning and testing of tasks/technologies to be applied to the project.

2. Specification and acquisition of required hardware and software. This includes Domain Controllers (DCs), Systems Management Servers (SMS) with TechSQL installations, a Microsoft Operations Manager (MOM) server with TechSQL installation, Microsoft Identity Integration Server (MIIS), Microsoft Enterprise SQL server (required for MIIS and advanced reporting from SMS/MOM), two-factor authentication and CA servers, NetIQ management server and all required rack and power conditioning hardware and supporting software.

3. Create initial deployment documentation. Pre-migration preparations (replace pre-W2K workstations at FP, district DDNS, remove non-College staff at MET from College domain, resolve approach covering FP dental program, etc). Research, planning and testing of remaining phase 1 open tasks. Research, test and place two-factor authentication servers into production.

4. Assemble and test GEMS servers (within machine room at CC). Install all software and configure to simulate production environment (all DCs, SMS, MOM, DDNS, WINS, DHCP, Time Service, schema extensions). Test post installation verification documentation and process. Deploy base OUs/groups/GPOs and server hardening. Test migrations of MADCC, CBIL_SLCC, FP_STAFF_DOMAIN and FVDATA domains. Test initial OU/group structure. Test NetIQ delegation. Test two-factor authentication. Test replication monitoring. Test MOM server monitoring. Test SMS patch deployments. Resolve any discovered issues and prepare final deployment documentation. Simulation review and discussion session with Campus Technology Managers.

5. Reinstall all software on all GEMS servers. Post installation verification. Deploy base OUs/groups/GPOs and server hardening. Prepare CC site homefolders/WINS/DHCP server. Connect to production network and migrate MADCC NT4 domain. MADCC domain needs to remain in production until all migrations are completed. Migrate existing CC homefolders. Resolve any discovered issues, collect baseline information on DC performance, allow system to stabilize. Delegate permissions to administrators of CC OU. Documentation of CC migration. Target: Spring 2005.

6. Prepare WCD site homefolders/WINS/DHCP server. Migrate CBIL_SLCC NT4 domain (identified user and machine accounts into STLCC.DOM). Migrate existing CBIL_SLCC homefolders. Resolve any discovered issues, allow system to stabilize. Delegate permissions to administrators of WCD OU. Relocate CBILEXCHANGE to STLCC.DOM. Remove CBIL_SLCC domain from production (subject to Exchange server issues). Documentation of WCD migration. Target: Spring 2005.

7. Transport MET site hardware to MET Center, install, reconnect to production network, test function. Documentation of WCD/MET migration.

8. Transport MC site hardware to MC, install, reconnect to production network, test function. Prepare MC site homefolders/WINS/DHCP server. Migrate existing MC homefolders. Migrate identified user and machine accounts into STLCC.DOM. Resolve any discovered issues, allow system to stabilize. Delegate permissions to administrators of MC OU. Documentation of MC migration. Target: Summer 2005.

9. Transport WEC site hardware to WEC, install, reconnect to production network, test function. Prepare WEC site homefolders/WINS/DHCP server. Migrate existing WEC homefolders. Migrate identified user and machine accounts into STLCC.DOM. Resolve any discovered issues, allow system to stabilize. Documentation of MC/WEC migration.

10. Transport SCEUC site hardware to SCEUC, install, reconnect to production network, test function. Prepare SCEUC site homefolders/WINS/DHCP server. Migrate existing SCEUC homefolders. Migrate identified user and machine accounts into STLCC.DOM. Resolve any discovered issues, allow system to stabilize. Documentation of MC/SCEUC migration.

11. Transport FP site hardware to FP, install, reconnect to production network, test function. Prepare FP site homefolders/WINS/DHCP server. Migrate FP_STAFF_DOMAIN NT4 domain (identified user and machine accounts into STLCC.DOM). Migrate existing FP homefolders. Resolve any discovered issues, allow system to stabilize. Delegate permissions to administrators of FP OU. Remove FP_STAFF_DOMAIN domain from production. Documentation of FP migration.

12. Transport FV site hardware to FV, install, reconnect to production network, test function. Prepare FV site homefolders/WINS/DHCP server. Migrate FVDATA AD2K domain (identified user and machine accounts into STLCC.DOM). Migrate existing FVDATA homefolders. Migrate other identified user and machine accounts into STLCC.DOM. Resolve any discovered issues, allow system to stabilize. Delegate permissions to administrators of FV OU. Remove FVDATA domain from production. Documentation of FV migration. Note that there is a proposed project (12/8/2004) where FV may have removed all users from the FVDATA domain into MADCC before step 5 is performed. If that is the case, this migration is quicker and simpler, since the FVDATA migration would not need to be performed.

13. Relocate District Exchange to STLCC.DOM. Relocate MADCC member servers to STLCC.DOM. Remove MADCC domain from production after migration of Exchange servers to Exchange 2003.

14. Review work, resolve any discovered issues. Final Phase 1 report and documentation.

Revised December 9, 2004, Richard William Schumacher