

**Ray Brow**  
**Director, Data Center Consolidation**  
**Department of State**

Mr. Ray Brow has worked in the IT world for 38 years. His career divides roughly into four ten year stints. The first ten years he spent in application programming including COBOL and Fortran. The next ten were spent developing and designing systems level program products with mainframe systems companies such as Computer Associates. The third segment of ten years was spent as a training consultant delivering on network based systems including Netware, UNIX, and Windows. Mr. Brow conducted training primarily in systems administration, application programming, and data base administration. This last leg has been spent in IT management at the Department of State. At DoS Mr. Brow is part of a team that initiated the consolidation efforts within the Department shortly after Y2K. He has worked in the Department's Enterprise Server Operations Centers (ESOC) as they have moved from 20 systems to over 3000 systems. In 1996 Mr. Brow was awarded the Department's Innovation in Technology award for introducing virtualization into the ESOC. Today over 20% percent of the Department's servers are running virtualized, and the percentage is growing rapidly. When not working in DC on migrating to a newly established Tier 3 facility outside of the DC metro area, Mr. Brow is traveling to the West coast where he is the Department's Chief IT Architect for a new Tier 3 data center currently under construction. The new data center features highly scalable and green components such as PODs and the use of outside air cooling for over 60% of the time. The new data center will go operational in the spring of 2012.