



State of Oregon
Department of
Environmental
Quality

DEQ Cyber Security Assessment

Information Services Section
Sohng W. Shin

Executive Order 13-16

- EO 16-13 was issued on Sep. 13, 2017
- To conduct Cyber security assessment (Internal and External)
- Unification of IT security function and implementation of risk based assessment and remediation (SB90 – 2017)
- Statewide mandatory information security training

DEQ Cyber Security Assessment

- External Assessment:
 - 17 servers out of total 104 servers
 - Over 59 applications (implemented 2001 – 2017)
 - Over 8 externally hosted applications
 - 2 GIS related servers were identified as threat to the state network: there were 6 mission critical web applications, not supported by the industry and the vendors.
 - 2 additional applications were identified “potential threat” to the state network

- Internal Cyber Security Assessment is scheduled to start in August/September
 - Over 125 applications
 - Over 104 servers.
 - Internal policies, procedures and other data management and governance.

DEQ Cyber Security Assessment

- 75% of mission critical WEB applications were developed 15 years or older
- Applications were developed by different IT shops in DEQ, generations of technologies, funding sources, standards and different business rules(laws, regulations)
- Subject Matter Experts availability
- Reduced IT resources.



State of Oregon
Department of
Environmental
Quality

DEQ Cyber Security Assessment

- a. Information Technology governance
- b. Business Plan based Technology Plan
- c. Life Cycle Management
- d. Business plan based IT investment
- e. Proactive IT management