

BLM IT Architecture vs. NIS Essential Elements Crosswalk

March 14, 2000

NIS Essential Elements		BLM IT Architecture Goal	
Component	Description	Component	IT Arch. Reference
Hardware (shared components)	<ol style="list-style-type: none"> 1. Database server(s) 2. Web server 3. Application Server 	<ol style="list-style-type: none"> 1. Shared access capability and formats. 2. Web database transaction support. 3. Data server (UNIX environment). 	<p>Data Management Structure and Standards</p> <p>Computing Platforms</p>
Software	GIS capabilities and GIS software.	GIS data management capabilities.	Data Management Structure and Standards
LAN/WAN/Internet and Intranet.	<ol style="list-style-type: none"> 1. Support for high speed, large volume of data. 2. Provide ftp, etc. 3. Communications (video/audio conferencing) 	<ol style="list-style-type: none"> 1. Gigabit EtherNet 2. Remote access to data. 3. Headphones, speakers with audio cards. Video conf. camera with microphone. 	Data Communications.
Desktop	<ol style="list-style-type: none"> 1. NT platform 2. Workstation 3. Local storage 4. E-mail 5. Web Browser 6. MS Office Pro. 	<ol style="list-style-type: none"> 1. Windows NT 2. PC 3. Local 1GB disk. 4. Lotus Notes 5. Netscape 6. Office Automation Suite. 	Computing Platforms

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Security	<ol style="list-style-type: none"> 1. File Access 2. Network security 3. Virus Scanning 4. Detection of hackers 5. Proprietary data and FOIA 	<ol style="list-style-type: none"> 1. File Security 2. Private, secure LAN environment; Access controls. 3. Virus detection and eradication. 4. Intrusion detection and testing. 5. Workgroup security; security considerations for remote users. 	Enterprise Management and Security
Admin/Support	<ol style="list-style-type: none"> 1. System Administrative support for HW. 2. Support for NILS-related SW. 3. Database, server and workstation backups. 4. Training 5. Database support 	<ol style="list-style-type: none"> 1. Systems Administrators, Help desk(Remedy), E-mail administrator. 2. c 3. Data backup/retrieval 4. NTC training for standard products. 5. Database Administrator. 	Methods, staffings policies
Plamtop and Laptop availability and support.	NILS applications will include the capabilities of implementing surveying functionalities on palmtops and laptops in the field.	<ol style="list-style-type: none"> 1. Remote desktop connectivity 2. Palm Pilot, Windows CE, laptops 	Computing Platforms.
Policies	Conformance to BLM standards and policies.	<ol style="list-style-type: none"> 1. E-mail security 2. Data management policies. 3. Data retention and backup policies 4. Access control 	Methods and Staffing Policies.