KEYNOTE SPEECH

Transforming the Army Enterprise with High IQ

BIOGRAPHY

Ronald Bechtold
The U.S. Army Chief Data Officer
Office, Army CIO/G6

Mr. Ronald Bechtold assumed the position of Director, Army Architecture Integration Center, at Headquarters, Department of the Army, Chief Information Office/G6 on 1 June 2006.

Previously, he served as the Executive Director, Information Technology Agency, where he managed the operations of information infrastructure supporting all Pentagon organizations. He also provided leadership and direction for desktop operations supporting the Army staff.

Prior to serving as Director, Mr. Bechtold served as the Deputy Director for two years. As the Deputy Director, he was responsible to the Administrative Assistant for information technology matters in support of the Headquarters, Department of the Army and information technology operations support services for the Pentagon and National Capital Region.

Mr. Bechtold began his career in the Federal Government in 1975 as an Army Material Command quality assurance intern, and has held a variety of professional positions of increased responsibility throughout his 30 years of government service. Ron changed careers when he joined the Europe Division of the Corps of Engineers as a software developer he developed his project management skills supporting the Army Military Construction Program. Upon returning to the United States he worked on the Army Staff as the systems manager of the Army’s Supercomputer Program and later as a strategic planner for the Army’s $4B Command, Control, Communications and Computer Investment Program. Ron returned to Europe in the early 90s to assist in establishing the Marshall Center, a school to educate senior officials of Central and Eastern Europe about democracy, market economies and civilian control of the military.

Mr. Bechtold began his tenure in the Office of the Administrative Assistant in July 1997, as Director of Architecture and Engineering in the Single Agency Manager. In October 2001, he became the Technical Director, Information Technology Agency, and in September 2003, became the Deputy Director Information Technology.

Mr. Bechtold holds a Bachelor of Science Degree in Mathematics and is a graduate Industrial College of Armed Forces. His numerous awards include: two Decorations for Exceptional Civilian Service, the Superior Civilian Service Award and the Achievement Medal for Civilian Service.

Ron resides in Clifton, Va. He is married to Madeline Dillman Bechtold. They have two children, Erika and Alyssa.
Trends

**Threat Environment**
- Era of Persistent Conflict
- Networked, sophisticated, learning enemy understands how we fight, knows our limitations, exploits our weaknesses, and avoids our strengths

**Technology Environment**
- Globally Connected
- Democratization of Content and Capabilities (Web 2.0)
- Acquiring Services (Cloud Computing)

**Political & Economic Environment**
- Exit Strategy for OIF/OEF
- Diplomatic focus
- Reduce Defense Budget
DoD Challenge--A Soldier’s Perspective

OPERATIONAL IT/DATA REQUIREMENTS:

NETWORK – constantly changing
E-MAIL ADDRESS – constantly changing/multiple
TELEPHONE NUMBER – constantly changing/multiple
COLLABORATION TOOLS – constantly changing
FILE STORAGE SYSTEM – constantly changing
A Soldier’s Story

Ideal End-State
Universal E-Mail Address
Universal File Storage
One Telephone Number
Standard Collaboration Tool Set

The CDO response--Global Network Enterprise Construct (GNEC)

“GNEC is the focused, time-phased, prioritized, resource sensitive Army-wide strategy to transition LandWarNet from many loosely-affiliated independent networks into a truly global capability that is designed, deployed and managed as a single integrated enterprise.”

“A Message to Our Strategic Partners”
LTG Jeffrey Sorenson, Army CIO/G6 - 23 Jan 2009
Global Network Enterprise Construct Strategy

**WAYS**
- Establish single, authoritative Enterprise Governance
- Achieve transparency of finances
- Develop consistent operational practices
- Consolidate IT procurement
- Reduce Network duplication

**MEANS**
- Industry Team
- Savings
- Enterprise Command

**ENDS**
- Enable Warfighting capabilities through the network
- Dramatically improve Network defense posture
- Realize efficiencies while improving effectiveness
- Ensure Army Interoperability with DoD

Why are we succeeding...

Who owns the data?

How do you get started?

Secretary of Army

Find a burning bridge
Change the Culture

Old
Owner
Owner
Owner
Owner
New
Steward
Steward
Steward
Steward
Secretary of Army

- Shift... from ownership to stewardship model
- Leverage... Cloud Computing
- Identify... compelling Use Cases
- Strategically... apply governance
- Communicate... communicate, communicate

Army Enterprise Architecture

Army Campaign Plan

Integrated Architecture

Playbook

Who
- Principles and Bus Rules
- Artifacts

Policy & Strategy
- Tools

Guidelines and Standards
- People

Framework
- Process & CONOPS

End User Platform
- Scope
- Dependencies
- Vision
- Gaps
- Roadmap
- Artifacts

Capability Sets Synchronize Development
**Army Enterprise Architecture – Data View**

- **End-User Platform**
- **Internet**
- **Campus Network**
- **IPN**
- **End-Use Platform**
- **Force Structure**
- **APC**
- **APC: Application and Data Migration Process**
- **IPN**
- **Logical Extension of APC**
- **TNOSC**
- **Service Desk**
- **Satellite Transport**
- **Tactical Network**
- **WIN-T**
- **DIV/BCT**
- **JTF**

**Data Approach**

**Consistent/Repeatable Process:** Suicide Mitigation Exemplar

<table>
<thead>
<tr>
<th>Accountable</th>
<th>Authoritative</th>
<th>Quality</th>
<th>Publish</th>
<th>Register</th>
<th>Assess</th>
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<tbody>
<tr>
<td>ID Data Steward/ Functional Data Managers</td>
<td>ID Data Sources</td>
<td>Implement Quality Best Practices</td>
<td>Publish Web/Data Service</td>
<td>Register</td>
<td>Perform Data Maturity Assessments</td>
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**Army ADS Registry**

- Identified 11 PDM
- Implemented 1187 Data Elements to 11 ADS for Spiral 1

**Data Approach Diagram**

- Army ADS Registry
- Source A
- Source B
- Source C
- Mapped 1187 Data Elements to 11 ADS for Spiral 1

**Data Management**

- Data Approach Diagram implemented by Communities of Interest – Use Cases

- C2
- JEDDO
- Biometrics
- Suicide Mitigation
- Global Services
- Etc...
### Army Data Element Maturity Assessment

<table>
<thead>
<tr>
<th>Level</th>
<th>Risk Management Steps Taken</th>
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<tbody>
<tr>
<td>1</td>
<td>No data element analysis is provided</td>
</tr>
<tr>
<td>2</td>
<td>Data quality measured along objective and subjective perspectives</td>
</tr>
<tr>
<td>3</td>
<td>Data element ownership established</td>
</tr>
<tr>
<td>4</td>
<td>Data production map is produced</td>
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</table>
| 5     | Data element certified: consumers can use the data with confidence/trust:  
  ✓ Data quality for the data element conforms with the specification for data integrity  
  ✓ Army Data Stewards use data production maps with a well-defined process and procedures to ensure data quality  
  ✓ Data quality meets or exceeds data consumer’s expectation |

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### EXAMPLE

![Example Diagram](image-url)
Government:
Think service (agility, flexibility... not technology
Shift from ownership to stewardship model

Industry:
Solve Problems using collaboration

Academia:
Master Cloud and Virtualization fundamentals to shift IT from a Cost Center to a Profit Center

Army Strong!