Long Range Technical Architecture (LRTA)
Overview Brief
August 2016
Agenda

- Background
- Purpose
- Results: A 10-Year Roadmap
- 1-3 Year Timeframe
- 4-6 Year Timeframe
- 7-10 Year Timeframe
- Conclusion

“Medically Ready Force . . . Ready Medical Force”
Background

We are sharing this technology investment roadmap with you so you can gain a better understanding of how we operate, and align these objectives with any future plans you may have with the Defense Health Agency (DHA).

The Long-Range Technical Architecture (LRTA) was created to determine the best method to actualize strategic objectives, provide direction of DHA’s future technology investments, and guide leadership through significant mission decisions.

The LRTA measures potential HIT initiatives based on their ability to drive DHA strategy, DOTMPLF, and the closure of enterprise functional and technical gaps.

The LRTA provides an actionable perspective of the DHA’s technical architecture 1-3, 4-6, and 7-10 years into the future.

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"Medically Ready Force ... Ready Medical Force"
Purpose

The LRTA aims to meet the MHS Quadruple Aims and DHA Director’s goals by guiding future IT investment planning and identifying an actionable path forward to achieve strategic objectives:

- **Fortify our Relationship with the Services**
- **Strengthen our Role as a Combat Support Agency**
- **Optimize DHA Operations**

“Our Stepping Stones for Success

- Technology Investment Roadmap
- Consolidated, Standardized IT Infrastructure
- Single, Reliable Medical Network
- Cyber Security
- New EHR
- Data Analytics
- Mobility
- Standardized Portfolio
- Customer Service

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Results: A 10 Year Roadmap

The LRTA is based on this 10-Year Technology Investment Roadmap, plotting 32 technologies across 3 distinct time frames based on their predicted DHA benefit and maturity.

Mission: “To enhance DoD and our Nation’s security by providing health support for the full range of military operations and maximizing the health of all those entrusted to our care.”

Vision: “The Integrated Military Health System delivers a coordinated continuum of preventive and curative services to eligible beneficiaries and is accountable for health outcomes while supporting the Services’ warfighter requirements.”

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1-3 Year Timeframe
2016-2019
**The 1-3 Year Timeframe**

**Overview**

Over the next 1-3 years, the DHA plans to address prevalent usability issues by integrating a new EHR and consolidating systems within the legacy portfolio. These actions will improve existing functionality and enable a more flexible technical backbone to drive rationalization.

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<tr>
<th>STRATEGIC FOCUS AND TECH TRENDS</th>
<th>IMPACTS</th>
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<tbody>
<tr>
<td>• Support consolidation of infrastructure and systems, including portfolio rationalization</td>
<td>• Consolidated legacy systems/infrastructure, enabling significant cost savings</td>
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<tr>
<td>• Leverage commoditized services for improved performance and lowered maintenance cost</td>
<td>• Implementation of service oriented architecture (SOA) common services for an ROI, improved application security</td>
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<tr>
<td>• Provide an intelligent user interface, enabling ease of use</td>
<td>• Increased system usability, as user interface will adapt to the end user’s requirements</td>
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In order to support the enterprise’s immediate needs, the technical architecture must enable portfolio rationalization and system consolidation, while ensuring consistent communication.

**Our 1-3 Year Architectural Requirements can be identified as follows:**

- **Data Federation.** Provides a uniform and integrated view of distributed data.
- **Integration.** Provides seamless data from unique systems through authorized functionalities.
- **Interoperability.** Allows different functionalities to operate the same data.

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4-6 Year Timeframe
2019-2021
Over the next 4-6 years, the DHA will be in the midst of a shift in the way healthcare is administered...patients will take ownership of their healthcare, and care will be more customer self-service driven.

**STRATEGIC FOCUS AND TECH TRENDS**

- Apply more robust requirements as business drives the technology
- Increase interoperability between the healthcare system and consumers
- Increase security for data architectures
- Provide an adaptive user interface
- Insert a more efficient data federation layer

**IMPACTS**

- Legacy data repositories will connect with new systems and become part of the central data lake
- External data connection can be facilitated through high performance messaging integration for advanced analytics
- Information Security will be part of the Interface and Service Lifecycle Management process

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The 4-6 Year Timeframe

Complete Map of Mid-Term Solutions

Best Practice Enterprise Technical Focus Areas:

- Security Risk and Compliance
- Telecommunication Services
- IT Infrastructure and Operations
- Information Management
- Customer Intelligence And Experience Management
- Application Development
- Management and Organization
- Non-Conforming Innovations

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7-10 Year Timeframe
2022-2025
The 7-10 Year Timeframe

Overview

In 10 years it is expected that the DHA will move more towards a commoditized IT framework, using techniques such as ‘drag and drop’ modeling and responsive application design. The shift from internal data creation to external data intake will provide healthcare providers and beneficiaries with an increase in data knowledge.

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<td>• Implement a consistent data integration tool suite to support analytics layers</td>
<td>• Digital devices and sensors interconnected through a high-speed network</td>
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<td>• Ensure the data exchange and enterprise data control planes provide data in a standard manner</td>
<td>• Automated internal business processes</td>
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<td>• Replace individual security applications with one integrated, encompassing security layer</td>
<td>• Continuum of care between hospital and home with extensive interoperability and communication</td>
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The 7-10 Year Timeframe

Complete Map of Long-Term Solutions

Best Practice Enterprise
Technical Focus Areas:

- Security Risk and Compliance
- Telecommunication Services
- IT Infrastructure and Operations
- Information Management
- Customer Intelligence and Experience Management
- Application Development
- Management and Organization
- Sourcing and Procurement

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In Conclusion…

Our Mission:

- Determine the best method to actualize strategic objectives
- Provide direction of DHA’s future technology investments
- Guide leadership through significant mission decisions

Significance to you:

- Increase transparency of how we operate
- Gain insight into how we evaluate potential technical investments
- Align these strategies with any future business plans you have with the DHA
Questions??

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