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Machine Foreign Language Translation (MFLT) and

Sequoyah Foreign Language Translation (SFLT) Program

<u>Machine Foreign Language Translation</u> The use of a computer to translate text or speech in one human language to another human language.

Sequoyah Foreign Language Translation

Program of Record that will provide a machine foreign language translation capability that is scalable, tailorable, interoperable, deployable, and available to warfighters at all echelons. Sequoyah will provide foreign language translation services via MFLT applications integrated into portable, mobile, and web-based automation systems.

Relationship between MFLT and SFLT

The Sequoyah program evaluates and leverages existing capabilities, or develops new capabilities to meet existing or emerging military operational MFLT needs.



Prioritized Requirements

• Initial Capability: Provides 3 S2S language and 2 T2T language capabilities through 3 configurations (portable, mobile and webenabled services) for 2 domains and provides necessary infrastructure and compatibility framework for integration.

- Prioritized Follow-On Capability: Provide S2S translation capability for additional 7 priority languages; T2T translation capability for additional 26 languages)
- Technology Improvement: Add automatic language and dialect recognition for speech and text for all previously developed languages
- Technology Improvement: Provide speech and text translation capability for all 28 designated languages, as well as keyword handwriting recognition

MFLT Supporting the Soldier

Speech to Speech (S2S)

- •Use of 2 way speech to speech capability
- •Future integration: Port software capability to Ground Soldier Ensemble
- Mobile and portable configuration

Text to Text (T2T)

Triage Support based on Key Words/Phrases
Gist documents providing basic meaning
Support to programs with T2T requirements
Web enabled and mobile configuration





Summary/Discussion
•Linguists are a strategic resource to the United States Army and Department of Defense; the demand far exceeds the supply for high priority languages
 Machine Foreign Language Translation (MFLT) systems of today provide a limited but militarily useful capability
 Future MFLT requirements are focused on a robust, comprehensive capability
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