

Objective Supply Capability Adaptive Redesign Providing Automated Interfaces between Legacy Systems

Army National Guard Issues and Technology Impact

The National Guard Bureau (NGB) requires capabilities beyond the scope of standard army systems in order to increase the efficiency and cost effectiveness of its operations. However, the NGB has limited control over the process of enhancing standard army systems. Changing these systems to introduce new capabilities for NGB can require a great deal of time and money. It is a significant achievement to leverage standard army systems to enhance NGB capabilities even when changes to these systems are not permitted or the cost of changes is prohibitive.

The Oak Ridge National Laboratory (ORNL) offers a solution for this challenge called Objective Supply Capability Adaptive Redesign (OSCAR). OSCAR interfaces with standard army systems without changing them. This allows the Army National Guard (ARNG) to effectively deal with changing priorities in a changing world and military environment. The OSCAR technology allows the NGB to increase readiness and reduce excess by improving asset visibility. OSCAR tracks the movement and manages the surplus of equipment such as:

- Weapons
- Electronics
- Trucks
- Track Vehicles
- Wheeled Vehicles
- Aircraft
- Medical Assets



OSCAR improves readiness and reduces excess for the Army National Guard by automating the redistribution of equipment

OSCAR has become the recognized name for excess management within the ARNG since its first NGB installation in 1997. OSCAR provides the knowledge base necessary for redistribution of assets. Using OSCAR, the ARNG has successfully improved readiness while saving storage and maintenance cost by moving excess assets faster than was previously possible. In its first year, OSCAR was responsible for redistributing over \$480 million in equipment nationwide.

Technical Concept

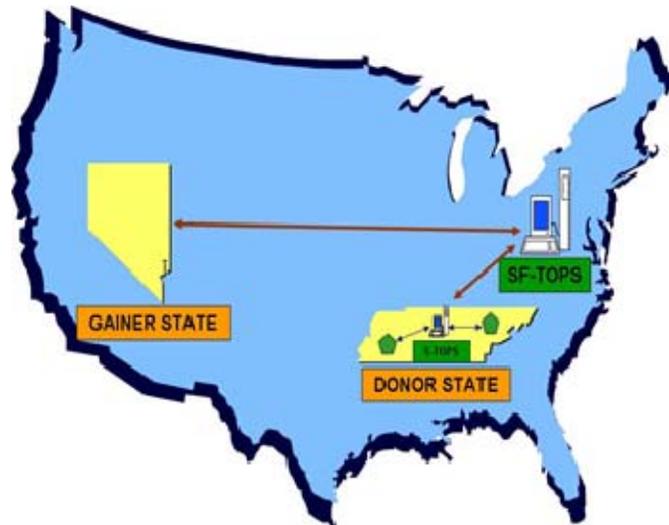
ORNL develops software programs to automate requirements that are not a part of standard army systems. For example, OSCAR provides automated interfaces between standard army systems at the bureau level and the state/territory level. The technical concept is to accelerate the movement of assets to locations where they are needed by developing software that simplifies and tracks how available assets are reported and managed. The result is a significant improvement in the readiness of the ARNG while reducing excess assets and eliminating the need to procure additional items.

Description

OSCAR is composed of several logistics automation modules including:

- Stock Funded Transfer of Property System (SF-TOPS)
- State Transfer of Property System (S-TOPS)
- Readiness Sustainment Transfer of Property System (RS-TOPS)
- Mobilization Transfer of Property System (M-TOPS)
- Readiness Transfer of Property System (R-TOPS)
- Distribution Tracking Transfer of Property System (DT-TOPS)

The SF-TOPS module provides visibility of available assets nationwide and the ability for one state to request needed assets from another state by using a simple web program. The S-TOPS module allows customers to manage the redistribution of assets between units within a state/territory prior to nationwide distribution.



RS-TOPS tracks equipment through the repair process performed at one of five Readiness Sustainment Maintenance Sites (RSMS) operated by the NGB. After repairs have been completed, RS-TOPS facilitates the movement of equipment to the units that need it.

The M-TOPS and R-TOPS modules facilitate the transfer of assets related to the mobilization or readiness of units. States are able to notify the NGB of requirements that cannot be satisfied in-state. The NGB is then able to use these modules to streamline filling the requirements from other sources.

DT-TOPS tracks newly procured assets as they are received at the state/territory level and fielded to National Guard units.

ORNL Capabilities

By applying experience gained in OSCAR and other military logistics systems, ORNL is able to quickly provide NGB with leading-edge software development technology that dramatically increases efficiency and readiness. Integrated systems of hardware and software have been developed from the ground up by ORNL and installed at NGB at a fraction of the cost of changing standard army systems. ORNL has the experience of developing automated interfaces for legacy military systems and a proven track record of generating cost savings from its innovative OSCAR technology.

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