

412TW-PA-18572



# **AUTOMATED UNFUNDED REQUIREMENT SYSTEM (AURS)**

**4  
1  
2  
T  
W**

**CHARLES IVORY  
GREG MOTEN  
CHERRISSE LAWSON  
GERALD LAMB  
DANILO DIJAMCO**

**AIR FORCE TEST CENTER  
EDWARDS AFB, CA**

**SEPTEMBER 2018**

**Approved for public release; distribution is unlimited.  
412TW-PA-18572**

**412TH TEST WING  
EDWARDS AIR FORCE BASE, CALIFORNIA  
AIR FORCE MATERIEL COMMAND  
UNITED STATES AIR FORCE**

**REPORT DOCUMENTATION PAGE**Form Approved  
OMB No. 0704-0188

Public reporting burden for this collection of information is estimated to average 1 hour per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing this collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports (0704-0188), 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302. Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to any penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number. **PLEASE DO NOT RETURN YOUR FORM TO THE ABOVE ADDRESS.**

<b>1. REPORT DATE</b> (DD-MM-YYYY) 19-09-2018		<b>2. REPORT TYPE</b> Abstract and Quad Chart		<b>3. DATES COVERED</b> (From - To) Dec 17-20 2018	
<b>4. TITLE AND SUBTITLE</b> Automated Unfunded Requirement System (AURS)				<b>5a. CONTRACT NUMBER</b>	
				<b>5b. GRANT NUMBER</b>	
				<b>5c. PROGRAM ELEMENT NUMBER</b>	
<b>6. AUTHOR(S)</b> CHARLES IVORY GREG MOTEN CHERISSE LAWSON DANILO DIJAMCO GERALD LAMB				<b>5d. PROJECT NUMBER</b>	
				<b>5e. TASK NUMBER</b>	
				<b>5f. WORK UNIT NUMBER</b>	
<b>7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES) AND ADDRESS(ES)</b> 412 Maintenance Group 1600 Yeager Blvd Edwards AFB, Ca. 93524				<b>8. PERFORMING ORGANIZATION REPORT NUMBER</b> 412TW-PA-18572	
<b>9. SPONSORING / MONITORING AGENCY NAME(S) AND ADDRESS(ES)</b> 412th Test Wing 195 E Popson Ave Edwards AFB CA 93524				<b>10. SPONSOR/MONITOR'S ACRONYM(S)</b> N/A	
				<b>11. SPONSOR/MONITOR'S REPORT NUMBER(S)</b>	
<b>12. DISTRIBUTION / AVAILABILITY STATEMENT</b> Approved for public release A: distribution is unlimited.					
<b>13. SUPPLEMENTARY NOTES</b> 2018 DoD Maintenance Symposium, Tampa, Florida, Dec 17-20 2018					
<b>14. ABSTRACT</b> The 412 MXG unfunded requirement (UR) development and execution process had a stakeholder satisfaction rating of 2.9 out of the 5.0 goal. The mediocre rating was influence by the lack of efficiency of the manual process, which was creating equipment/service acquisition, disposal, and cost control issues. As a result, it delayed meeting customers' expectations in replacing or upgrading equipment that are beyond their useful life cycle. This led to the end-users failing to acquiring and installing new equipment and disposing of old equipment in a timely manner. Additionally, end-users acquired equipment/services that had not been prioritized or approved by management in some cases. Moreover, acquisitions were made that did not meet end-users' requirements because specifications were not validated, sustainment requirements were not addressed, and in one case, the equipment did not fit the location it was intended to be installed.					
<b>15. SUBJECT TERMS</b> AURS, UR, MXG, FAR, ITIB, AFI, USAF, IT					
<b>16. SECURITY CLASSIFICATION OF:</b> Unclassified			<b>17. LIMITATION OF ABSTRACT</b>  None	<b>18. NUMBER OF PAGES</b>  4	<b>19a. NAME OF RESPONSIBLE PERSON</b> 412 TENG/EN (Tech Pubs)
<b>a. REPORT</b> Unclassified	<b>b. ABSTRACT</b> Unclassified	<b>c. THIS PAGE</b> Unclassified			<b>19b. TELEPHONE NUMBER</b> (include area code) 661-277-8615

# 2018 Maintenance Innovation Challenge

## Automated Unfunded Requirement System (AURS)

### PROBLEM STATEMENT

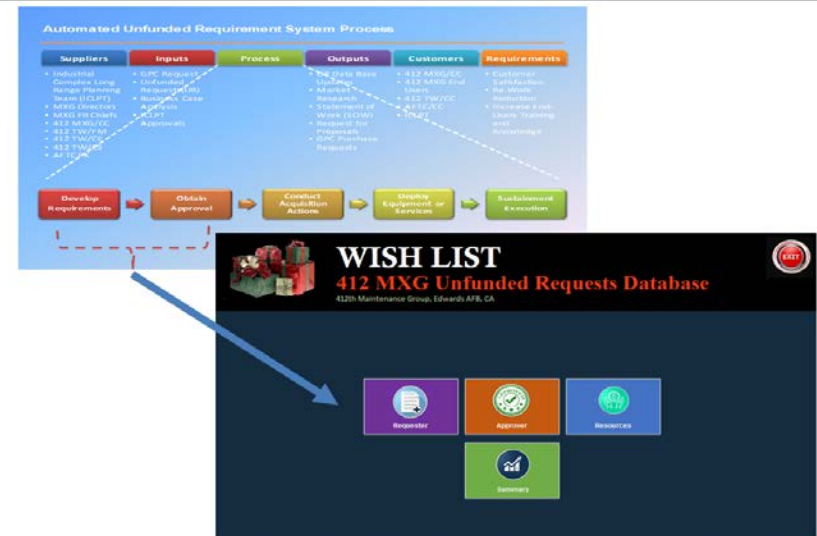
- The 412 MXG unfunded requirement (UR) development and execution process had a stakeholder satisfaction rating of 2.9 out of the 5.0 goal. The mediocre rating was influenced by the lack of efficiency of the manual process, which was creating equipment/service acquisition, disposal, and cost control issues. As a result, it delayed meeting customers' expectations in replacing or upgrading equipment that were beyond their useful life cycle. This led to the end-users failing to acquiring and installing new equipment and disposing of old equipment in a timely manner.

### BENEFITS

- Provides enterprise-wide visibility and transparency for all unfunded requirement submissions
- Improve management oversight and control over mission and infrastructure resources
- Increased opportunity to consolidate similar requirements within the enterprise and take advantage of quantity discount acquisitions
- Provides a “one-stop” repository for all requirement purchases and acquisition documents such as statements of work, performance work statement, and marketing research
- Reduces end-user time in creating required documents and obtaining approvals necessary to move UR forward
- Provides managers and senior leadership an automated tool for analyzing, reviewing, and monitoring acquisition trends on resources requirements

### TECHNOLOGY SOLUTION

- The AURS was developed, tested, and successfully deployed that provides managers and end-users the visibility and transparency for UR transactions across the enterprise.
- Database is a Microsoft ACCESS based and it is scalable and portable
- Improved reporting capability for financial resources and funds disbursement
- Facilitate managers and senior leaders with real-time UR review and “rack-and-stack” procedures



## Automated Unfunded Requirement (UR) System (AURS)

The 412 MXG unfunded requirement (UR) development and execution process had a stakeholder satisfaction rating of 2.9 out of the 5.0 goal. The mediocre rating was influenced by the lack of efficiency of the manual process, which was creating equipment/service acquisition, disposal, and cost control issues. As a result, it delayed meeting customers' expectations in replacing or upgrading equipment that are beyond their useful life cycle. This led to the end-users failing to acquire equipment, have it installed, and disposed of old equipment in a timely manner. Additionally, end-users acquired equipment/services that had not been prioritized or approved by management in some cases. Moreover, acquisitions were made that did not meet end-users' requirements because specifications were not validated, sustainment requirements were not addressed, and in one case, the equipment did not fit the location it was intended to be installed. We addressed these issues using a process improvement event, which resulted in the development of a database system that provides transparency and visibility of UR to the staff within the maintenance organization. The UR database system provides:

- Approval for unfunded requirement requests that affect MXG facilities and equipment
- Manages changes of acquisition documentation and incorporate lessons learned and feedback into the system
- Manages compliance with the mandatory Federal Acquisition Regulation (FAR), USAF AFI acquisition, and purchasing mandatory guidelines
- Ensures that all applicable coordination requirements are documented and submitted to leadership, managers, facilities, information technology integrator, and contracting for all unfunded request
- Ensures that communication and information technology acquisitions and purchases are coordinated and approved using the Information Technology Investment Board (ITIB) as applicable
- Manages equipment removals, installations, and disposition actions.

*The AURS was built using Microsoft ACCESS because the local IT organization solution would take 12-18 months to develop. We built, tested, and successfully deployed the desktop system in approximately 200 hours. It can be accessed by all 1578 maintenance group staff members and includes an approval and document filing capability that is visible by all user. It provides managers the capability to disapprove, approve, or request additional justification/clarification on unfunded submissions from their staff. The system gives managers the ability to coordinate with their staff, resources, facilities, internal IT integrator, and units that have an interest in a particular (UR). It provides resources with the ability to consolidate similar requirements to take advantage of quantity discounts.*