

# **Test Case uEngine Command Line Interface**

**for**

**Contract DG133W-05-CQ-1067**

**Advanced Weather Interactive Processing System (AWIPS)  
Operations & Maintenance**

**AWP.TE.SWCTR/TO10-0018**

Prepared for:

U.S. Department of Commerce  
NOAA/NWS Acquisition Management Division  
SSMC2, Room 11220  
1325 East-West Highway  
Silver Spring, MD 20910

Prepared by:

Raytheon Company  
STC Office  
6825 Pine Street  
Omaha, NE 68106

6 February 2009

---

*This document includes data that shall not be duplicated, used, or disclosed – in whole or in part – outside the Government for any purpose other than to the extent provided in contract DG133W-05-CQ-1067. However, the Government shall have the right to duplicate, use, or disclose the data to the extent provided in the contract. This restriction does not limit the Government's right to use information contained in this data if it is obtained from another source without restriction. The data subject to this restriction are contained in all sheets.*

HARD COPY UNCONTROLLED

Submitted By:

\_\_\_\_\_

Test Engineer

\_\_\_\_\_

Date

Approved By:

\_\_\_\_\_

Program Manager

\_\_\_\_\_

Date

\_\_\_\_\_

Mission Assurance Quality

\_\_\_\_\_

Date

## Change History

Revision	Date	Affected Pages	Explanation of Change
Draft	21 Nov. 2008	ALL	Initial Draft
1	10 Jan. 2009	ALL	Result of NWS comments and PDT.
2	6 Feb. 2009	lii, 4	Result of DT

## Table of Contents

	<i>Page</i>
1.0 SCOPE .....	1
2.0 APPLICABLE DOCUMENTS .....	2
2.1 Source Documents .....	2
2.2 Reference Documents .....	2
3.0 TEST CASE DESCRIPTION.....	3
3.1 Assumptions, Constraints and Preconditions.....	3
3.2 Recommended Hardware.....	3
3.3 Test Inputs.....	3
3.4 Test Outputs.....	3
4.0 TEST SCENARIO .....	4
5.0 REQUIREMENTS VERIFICATION TRACEABILITY MATRIX (RVTM).....	5

## **1.0 SCOPE**

See TO10 Software Test Plan.

## **2.0 APPLICABLE DOCUMENTS**

### **2.1 Source Documents**

- None

### **2.2 Reference Documents**

- TO10 Software Test Plan for the Advanced Weather Interactive Processing System Project, Contract #DG133W-05-CQ-1067, January 2009.
- The Silver Spring NWS AWIPS 1 test bed application.
- Rational RequisitePro.

### 3.0 TEST CASE DESCRIPTION

This test case demonstrates the ability to request data via command line scripts.

#### 3.1 Assumptions, Constraints, and Preconditions

- TO10 software has been installed successfully.
- CAVE, EDEX and pgAdmin III are running.
- Data has been ingested.
- Actions, Results, and Requirements highlighted in gray indicate requirements and/or capabilities to be included in the scope of future task orders. They are included here for purposes of continuity and traceability with the original AWIPS I test case documents.

#### 3.2 Recommended Hardware

See TO10 Software Test Plan.

#### 3.3 Test Inputs

Section 4.0 contains the test procedures for this test case. Sections 2.2 – 2.9 of the TO10 Software Test Plan contain general test inputs applicable to all TO10 test cases. Grayed out test step(s) indicate functionality not yet delivered.

#### 3.4 Test Outputs

The results outlined in section 4.0 are met.

**4.0 TEST SCENARIO**

Step #	Action	Result	Pass/Fail
1.	Launch a terminal window.	Terminal window is at user prompt.	
2.	ssh root@awips-int1 <workstation>(e.g. lx[1-5])	You are prompted for password.	
3.	Enter password to log in. cd /awips/fxa/bin	You are at the awips-int1 # sign prompt in the directory with the command line interfaces scripts.	
4.	Launch a second terminal window.	Terminal window is at user prompt.	
5.	ssh root@awips-int1<local server>(e.g. px1)	You are prompted for password.	
6.	Enter password to log in. cd /awips/ade/edex/logs	You are at the awips-int1 # sign prompt in the directory with the log files.	
7.	ls -l	Verify the log file is listed. This window will be used to view the log entries.	
8.	tail -f <log file>	The log file displays the entries.	
9.	In the first window execute the following: .uengine -h	Prints a usage message.	
10.	In the first window execute the following: .uengine -r python -s MESSAGE "Hello from Omaha" < src/data/HelloWorld.py	Displays the results of executing the command. You should see: Response: Hello from Omaha	
11.	In the second window view the log file for the entries associated with the command executed in the previous step.	The log file shows the entries for the command executed. Look for an entry containing "[btpool2-1] SystemLog: Hello from Omaha"	
12.	In the first window execute the following: .uengine-r jscript -s MESSAGE "Hello from Omaha " < data/Hello World.txt	Displays the results of executing the command. You should see: Response: Hello from Omaha	
13.	In the second window view the log file for the entries associated with the command executed in the previous step.	The log file shows the entries for the command executed. Look for an entry containing "[btpool2-1] SystemLog: Hello from Omaha"	
	Force an error condition.		
14.	In the first window execute the following: .uengine -d MESSAGE "Hello from Omaha" < src/data/HelloWorld.py	Creates an error and returns the error messages. You should see something like: Error: ArgError: "Must specify a 'runner' flag for uEngine script execution	
15.	<ctrl> c to exit the log file.	The log file is exited.	
16.	Exit to log out and close the second window.	The second window is closed.	
17.	Exit to log out and close the first window.	The first window is closed.	
End of Test			

**5.0 REQUIREMENTS VERIFICATION TRACEABILITY MATRIX (RVTM)**

Number	Description	Test Step(s)
SYSR3124	The AWIPS system shall implement command line Interfaces (uEngine).	ALL