

# **Test Case Text Products**

**for the**

**AWIPS**

**Contract**

**DG133W-05-CQ-1067**

Prepared for:

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## Revision History

Revision	Date	Affected Pages	Explanation of Change
1.0	20 June 2008	ALL	Initial Draft
2.0	8 August 2008	7	Redlines per PDT
3.0	4 September 2008	ALL	Redlines per DT

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## **1.0 SCOPE**

See Software Test Plan.

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## **2.0 APPLICABLE DOCUMENTS**

### **2.1 Source Documents**

- None

### **2.2 Reference Documents**

- Legacy NWS GFE Acceptance Test Case ID Number: ac010
- Legacy NWS GFE Test Cases for Test Areas AC – VP
- Section 3.1.3 of the AWIPS D-2D User's Manual Build 8.1
- Software Test Plan for the Advanced Weather Information Processing System Project, Contract #DG133W-05-CQ-1067, August 2008
- The Silver Spring NWS AWIPS 1 test bed application
- Release OB8.1 and OB8.2 of the Weather Event Simulator (WES)
- Rational RequisitePro

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### **3.0 TEST CASE DESCRIPTION**

This test case demonstrates the capability of the Text Products functionality contained in GFE.

#### **3.1 Assumptions, Constraints and Preconditions**

- TO9 software has been installed successfully.
- CAVE, EDEX and pgAdmin III are running.
- The GFE Perspective is displayed.
- Data has been ingested.
- Several weather elements are loaded.
- There are multiple grids available for the weather elements (at minimum T, Td, Wind, Wx, and Hazards weather elements).
- Grids are populated with model data and all interpolation processes have been done. In addition, the forecast has been saved. (Refer to steps 1-2 in test case Smart Tools\_Procedures.)

Actions, Results, and Requirements highlighted in yellow 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. Items highlighted in blue are capabilities added and/or Deficiency Reports (DRs) corrected since the Delivery Test.

#### **3.2 Recommended Hardware**

See Software Test Plan.

#### **3.3 Test Inputs**

Section 4.0 below contains the test procedures for this test case. Sections 2.2 – 2.9 of the Software Test Plan contain general test inputs applicable to all TO9 test cases.

#### **3.4 Test Outputs**

The Text Products will be returned and the results outlined in section 4.0 are met.

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### 3.4.1 GFE GUIs Tested

- Publish To Official
- Process Monitor
- Formatter Launcher
- Local Formatter
- Define Text Products

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#### 4.0 TEST SCENARIO

Step #	Action	Result	Pass/Fail
Product Generation			
1.	Bring up the Process Monitor dialog by selecting 'Products' -> 'Process Monitor'.	The Process Monitor dialog opens.	
2.	Bring up the Formatter Launcher dialog by selecting 'Products' -> 'Formatter Launcher'. Select each of the following products in the Products list: - NOW - PNS - RFD - SPS - ESF	As each product is chosen, a new tab appears in the Formatter Launcher dialog.	
3.	Cycle through each tab in the Formatter Launcher dialog, set a zone selection for those products that require one, MB1 click the 'Run Formatter'  icon, then select default entries from the individual dialogs for each product.	Each product is run through the Formatter Launcher. After each formatter has finished, the output text displays in the text window.	
4.	Note in the Process Monitor Dialog that all of the items are queued to run, and one is running.		
5.	Look at each product and verify that it seems reasonable. Look at the log using the  icon. Scan the log for any errors. If a product fails, the output text will not be displayed; rather the log window will be displayed with the error. After each product has been verified, click the red 'X' to dismiss that tab.	Verified. The tab closes.	
6.	Repeat steps 3 – 5 for the Site Specific Forecasts (SPOT), FWS product.	The product is run through the Formatter Launcher. After each formatter has finished, the output text displays in the text window.	
7.	Repeat steps 3 – 5 for the Area Forecast Matrices, AFM product.	The product is run through the Formatter Launcher. After each formatter has finished, the output text displays in the text window.	

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Step #	Action	Result	Pass/Fail
8.	After all of the products have been run without errors, complete steps 9 – 10. Then repeat steps 1 – 2, except change the issuance time and other options on each product generation Values dialog that is presented.	As expected.	
9.	Publish all data to the Official database selecting 'Products' -> 'Publish To Official'. From the Publish To Official dialog, select 'Set Selected' and then select 'Publish'.	The 'Publish To Official' dialog appears.  The selected grids are published. The 'Publish To Official' dialog closes.	
10.	Initialize the required edit areas for this test by opening up a terminal window, changing your directory to the GFESuite "bin" directory, and running this command: run/setupTextEA		
11.	Test the Baseline and Region versions of the formatters: From the Local Formatter dialog, MB1 click on 'Products' -> 'Baseline'. Run each Baseline product to completion and verify that it produces reasonable output. From the Local Formatter dialog, MB1 click on 'Products' -> 'Region'. Run each Region product to completion and verify that it produces reasonable output.	As expected.	
12.	Create a new table product by selecting 'GFE' -> 'Define Text Products'. This brings up the Define Text Products dialog. Over the left column (Text Products), MB3 popup and select 'New...'. Enter ac010 as the name of the product, and ensure that the type is 'table'. MB1 click 'OK'.	A table template is displayed in the python window.	
13.	Do not change anything in the product. From the Python editor window, MB1 click on 'File' -> 'Save', then 'File' -> 'Exit'. Close the Define Text Products dialog after verifying that 'ac010' appears in the dialog window.	Verified.	
14.	From the Formatter Launcher dialog's Product menu, select only the 'ac010'	The product is generated and the output appears in a new Python window.	

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	entry. Then run the product.		
15.	Delete the 'ac010' table product by selecting 'GFE' -> 'Define Text Products'. This brings up the Define Text Products dialog. Over the left column 'ac010' entry, MB3 popup and select 'Delete...'. A confirmation dialog is displayed. Press 'OK'.	The entry is deleted after the confirmation message is answered.	
16.	Close the External Programs (e.g., Process Monitor) dialog. Close the Formatter Launcher dialog.	The External Programs/Process Monitor and Formatter Launcher dialogs close.	
	End of test.		

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## 5.0 REQUIREMENTS VERIFICATION TRACEABILITY MATRIX (RVTM)

Number	Description	Test Step(s)
SYSR2069	The AWIPS system shall implement the GFE Formatter Launcher	2-3, 5
SYSR2070	The AWIPS system shall implement the GFE Formatter Data Interface.	2-3, 5
SYSR2997	The AWIPS System shall create the FWS - Site Specific Forecasts (SPOT) product as produced by the Public and Fire Weather Services GFE Application.	6
SYSR2998	The AWIPS System shall create the NOW - Short Term Forecast product as produced by the Public and Fire Weather Services GFE Application.	5
SYSR3004	The AWIPS System shall create the AFM - Area Forecast Matrices product as produced by the Public and Fire Weather Services GFE Application.	7
SYSR3049	The AWIPS System shall create the RFD – Rangeland Fire Danger product as produced by the Public and Fire Weather Services Text Workstation Editor Application.	5

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