



GS-827 APRIL_1 RELEASE TEST PLAN



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1. Purpose and Scope

This test plan describes the strategy for exercising the functionality **and/or fixes** for the JIRA issues in this release. As features are being designed the test scenarios described in this document will be updated to accommodate the modifications to the plans.

The purpose and scope of this test plan is to list and describe the test strategy for the following Jira Issues:

Issue	User Story	Sprint/Release Schedule
GS-692 Sub task GS 783	Generate Probe Credentials/ GUI display of probe username/password	Sprint 9 Apr 1 rel.
GS - 727	Step 1: Planting; Add Pioneer Hybrid Family - drop down box field	
GS – 770 (GS 648)	(Setup) Error message slightly inaccurate	
GS-830	Pre-season plan chart wrong weather dates	

- The focus of this test is from the front end. It is only to examine and access the quality of the general functionality and that the current Fertility functionality has not degraded due to this change.

1.1 Limitations

GS-830 is late fix and is not included in this test plan.

This test is limited as follows:

To front end testing. There is no back end testing.

Only the features mentioned in the box above is tested, with light testing of the areas of this feature It does not include a full regression test.

1.2 Sprint/Release Schedule

Refer to the grid above for sprint schedule information.



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1.3 Assumptions and Risks

- Manual tests will be designed to allow any person to execute the test scripts. They will also be designed with the assumption for easy conversion to automated scripts in the future.
- Test Plan for this effort will be available as an attachment against the **Test plan** JIRA issue in pdf format.
- Functionality will be delivered by Engineering on time.
- Required resources will be available i.e. Test environments, Devices i.e. Laptop/iPad etc.
- There are no specification documents. Requirements are given via sprint discussions, email and/or accepted design Wire Frames therefore, test plans are built against these matters.
- Handling Leap year dates: there is no testing in this area; it is assume the code used in JavaScript Date object will know how to determine this situation and present the expect dates. This applies to date control, Date input, Dates in Settings, etc.

2. Test Strategy

The following test strategies will be considered:

Content – is the message being communicated by the page delivered to the user?

Functionality – can users do everything they need to?

Display – does the page look as it should do in terms of style and layout?

A check that the content, functionality and display all work as intended. Verification of the different types of interaction will be exercised if applicable, for example: Navigation, Form filling – are the input boxes behaving as expected?

2.1 Test Flow

The test scenarios designed in this document will flow as described below in each Test Case section:

- User Logs on.
- Selects an Operation or a Farm depending upon access.
- Proceeds to examine the Fertility Left Nav Menu
 - Confirm the display and expected functionality of the Strategy Toggle
 - Some regression will be done on the existing functionality as the User toggles between strategies.

3. Test Environment

Testing will be executed against the following environment/ configurations:

Test Environment: <https://gmctest.east.pioneer.com/>



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3.1 Supported Devices and Browsers

Device: Laptop

O/S: Win 8.1

Screen Resolution: 1366 X 768

Browsers:

IE 9 (IE10 will also be examined)

Firefox latest version (currently Version 28)

Chrome latest version (currently Version 33.0.1750.154 m)

Device: iPad

O/S: Latest Version TBD at time of test and will be noted in JIRA

Screen Resolution: 768 X 1024

Browser:

Safari/Latest version



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4. Test Case: Verify the Probe Credentials Icon and its username/password GUI.

The test scenarios presented in this test case will exercise the JIRA issue GS-692 with sub task 783. (See Purpose and Scope, Limitations, Risks and Assumption section above).

Probe Credentials Icon



Probe Credentials Overlay



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4.1 Test Case: Verify the Probe Credential utility.

Confirm the utility used to generate passcode for the Probe's serial is functioning as per spec in GS-692 and designed in GS-783

Step	Perform Action	Expected Results	P F B	Remarks: Use this section to add comments or notes. Or, actual results if feature was not as expected. You may also reference JIRA bug issue if a defect was written. PFB = (P) assed, (F) ailed or (B) ypassed. The step was bypassed.
1.	Instructions: - See the Test Environment Supported Devices and Brower section of this test plan for details. - Enter Browser/Device:	Able to follow instructions.	n/a	
2.	Pre-requisites: Clear the cache of the browser under test before execution. To execute the scenarios in this test case access to an Operation/Farm must contain at least 1 farm setup with the Water functionality.	Test pre-requisites are met. Familiar with the JIRA story.		
3.	Test Set up: Log in as the User with an Operation as detailed in the Pre-requisites step.	Able to follow instructions: The User has at least 1 Farm 1 field setup for Water. - Successfully logged in		
4.	From the Water page. Select a field for testing. Then Click or Tap the Setup button.	Able to do as instructed. The Setup Panel is displayed.		
5.	Confirm the ID Icon is available on the Map View Water forecast panel in the Probe Locations area.	The ID Icon is available and is positioned as expected.		
6.	Click or Tap on the ID icon .	A dialog opens.		
7.	Confirm the dialog's label is correct.	The correct dialog label is correct. "Generate Probe Passcode".		



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Step	Perform Action	Expected Results	P F B	Remarks: Use this section to add comments or notes. Or, actual results if feature was not as expected. You may also reference JIRA bug issue if a defect was written. PFB = (P) assed, (F) ailed or (B) ypassed. The step was bypassed.
8.	Confirm the design of the Passcode dialog is as expected.	<ul style="list-style-type: none">- There is an entry field. The label is correct.- There is a "Where is at link"- There is a button control labeled "Generate".- There is a Close button.		
9.	Click on the dialog's Close button.	Clicking the Close button close the dialog		
10.	Click the ID icon. - Enter data into the Probe Serial ID input box.	The dialog opens.		
11.	- Confirm clicking anywhere in the grey closes the dialog.	<ul style="list-style-type: none">- Clicking anywhere in the grey area closes the dialog.- The input field is blank.		
12.	Click the ID icon again.	The dialog opens.		
13.	<ul style="list-style-type: none">- Enter 32 alphanumeric characters into the Probe Serial ID input box.- Record the these characters for further testing Characters entered:	<ul style="list-style-type: none">- The data fits into the entry box as expected.- The data entered is recorded for further testing later.		
14.	- Click the "Where is it Link"	An Explanation bubble opens. Its text is as expected.		



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Step	Perform Action	Expected Results	P F B	Remarks: Use this section to add comments or notes. Or, actual results if feature was not as expected. You may also reference JIRA bug issue if a defect was written. PFB = (P) assed, (F) ailed or (B) ypassed. The step was bypassed.
15.	Click on the Explanation Bubble's Close button.	<ul style="list-style-type: none">- Clicking the Close button close the Explanation Bubble.- The Passcode dialog remains opened.- The data entered in the previous step is retained; <u>passcode is not generated</u>.		
16.	- Click the "Where is it Link" again.	Able to do as instructed.		
17.	- Confirm clicking anywhere in the grey area closes the Bubble.	Clicking anywhere in the grey area closes the dialog.		
18.	<ul style="list-style-type: none">- Click the "Where is it Link" again.- Click the Generate button.	<ul style="list-style-type: none">- The "Generate" button color darkens as the cursor is over it.- The Explanation Bubble closed.- A spinner is displayed in the area of the input box. The spinner do not obscured the text shown.- The passcode is successfully generated.		
19.	Verify the generated passcode and Label appears and is as expected.	<ul style="list-style-type: none">- The passcode is formatted as expected.- The text above the generated passcode is available and is as expected.		
20.	Close the passcode dialog.	Able to do as instructed.		
21.	Click the ID icon to re-launch the ID dialog.	The entry field is blank the password is not visible.		



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Step	Perform Action	Expected Results	P F B	Remarks: Use this section to add comments or notes. Or, actual results if feature was not as expected. You may also reference JIRA bug issue if a defect was written. PFB = (P) assed, (F) ailed or (B) ypassed. The step was bypassed.
22.	Do not enter <u>any</u> characters. Click the Generate button.	An appropriate validation message is displayed. A passcode is not generated.		
23.	Enter the <u>characters recorded earlier</u> . Click the Generate button.	When a previously used probe serial ID is entered clicking the Generate button generates a new passcode.		
24.	Enter 1 character. Click the Generate button.	<ul style="list-style-type: none">- Confirm the expected results:- Did a passcode get generated properly for this scenario?- The Min value can be entered.- The data type used is acceptable?		
25.	AD – HOC TEST: <ul style="list-style-type: none">- Test the surrounding areas of this function:- Add new probes. Add ID add the previously serial numbers- Try adding different data types etc.- Enter more than 32 alphanumeric characters into the Probe Serial ID input box. Confirm the data is it retained? Did the extra character get truncated?	Able to do as instructed.		



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Step	Perform Action	Expected Results	P F B	Remarks: Use this section to add comments or notes. Or, actual results if feature was not as expected. You may also reference JIRA bug issue if a defect was written. PFB = (P) assed, (F) ailed or (B) ypassed. The step was bypassed.
<p style="text-align: center;">Testing is completed for this section</p> <p style="text-align: center;">Record Time it took to execute this test: _____ (This includes time it took for test setup. It <u>does not</u> include down time i.e. pauses in execution related to taking a break, attend a meeting, etc.)</p>				



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5. Test Case: Verify Step 1: Planting; Add Pioneer Hybrid Family - drop downbox field.

The test scenarios presented in this test case will exercise the JIRA issue GS-727. (See Purpose and Scope, Limitations, Risks and Assumption section above).

Setup for Field 1 - OP

STEP 1: PLANTING ● STEP 2: PIVOT

Planting Date: MAY 1

Planting Density: 34500 units/acre

Pioneer Hybrid Family: custom

GDUs to Silk: 31G66 GDUs

GDUs to Black Layer: 31N27 GDUs

Refill Points:

Plant - VE 50% V6 - V12 50%

CONTINUE Setup is complete VIEW PLAN VIEW IN SEASON

Details shown here may be out dated. It is only an example.
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5.1 Test Case: Verify the Hybrid Family dropdown is available and functions as per specified in JIRA GS-727.

Confirm the drop down is designed as expected; verify error validation and the GDU text fields were not degraded by this addition.

Step	Perform Action	Expected Results	P F B	Remarks: Use this section to add comments or notes. Or, actual results if feature was not as expected. You may also reference JIRA bug issue if a defect was written. PFB = (P) assed, (F) ailed or (B) ypassed. The step was bypassed.
1.	Instructions: - See the Test Environment Supported Devices and Brower section of this test plan for details. - Enter Browser/Device:	Able to follow instructions.	n/a	
2.	Pre-requisites: Clear the cache of the browser under test before execution. To execute the scenarios in this test case. The following fields (or field configuration must be in the Operation).	Test pre-requisites are met. Familiar with the JIRA story.		
3.	Test Set up: Log in as the User with an Operation as detailed in the Pre-requisites step.	Able to follow instructions: The User has at least 1 Farm 1 field setup for Water. - Successfully logged in		
4.	- From the Water Page select a field for testing.	Able to follow instructions.		
5.	- Click the Setup button to open the Setup panels.	The fields Setup panel is opened.		
6.	- Verify the Hybrid drop down control is available.	The dropdown is available. It positioned after Planting Density and before the GDUs dropdowns.		



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Step	Perform Action	Expected Results	P F B	Remarks: Use this section to add comments or notes. Or, actual results if feature was not as expected. You may also reference JIRA bug issue if a defect was written. PFB = (P) assed, (F) ailed or (B) ypassed. The step was bypassed.
7.	- Open the GDU values csv attached to Jira GS-727 https://jira.appliedinvention.com/secure/attachment/11689/GDU_values_NoXs.csv	Able to do as instructed.		
8.	- Verify the values listed in the Hybrid Family column is available in the drop down in ascending order	The values listed in the csv appear in the drop down in ascending order.		
9.	- Verify there is a "Custom" item available as the first entry in the drop down.	The Custom entry is present as expected.		
10.	- Verify when Custom entry is selected the GDU fields are blank. - The User is alerted to supply values.	The GDU fields will appear with a Red outline a tool tip instructs the user to add the value.		
11.	Verify that if no value is entered in the either GDU field the User is alerted: - Without supplying any values. Click Continue.	An error prompt opens if no values were entered in the GDU fields.		
12.	- Verify the GDUs to Silk and Black Layer fields were not affected by this added field.	The GDUs fields remain editable.		
13.	- Supply values for the GDUs fields - Click Continue.	Data is accepted. The Error prompt did not open.		



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Step	Perform Action	Expected Results	P F B	Remarks: Use this section to add comments or notes. Or, actual results if feature was not as expected. You may also reference JIRA bug issue if a defect was written. PFB = (P) assed, (F) ailed or (B) ypassed. The step was bypassed.
14.	If you still have any focus left ad – hoc test: <ul style="list-style-type: none">- Verify the edit /close buttons performs as expected.- Verify the Legend check boxes perform as expected when checked and when not checked.- Verify the Edit widget Bar/Circle check boxes perform as expected.- Verify settings with States other than Pioneer such as North/South Dakota, Illinois, and Minnesota.	Able to do as instructed.		
<p style="text-align: center;">Testing is completed for this section</p> <p style="text-align: center;">Record Time it took to execute this test: _____ (This includes time it took for test setup. It <u>does not</u> include down time i.e. pauses in execution related to taking a break, attend a meeting, etc.)</p>				



The test scenarios presented in this test case will exercise the JIRA issue GS-770 focusing on the field/Data type from GS-648 Field Settings: Setup (Planting, Pivot and Well). **Confirm** using spec from GS-648. (**See** Purpose and Scope, Limitations, Risks and Assumption section above).

Clicking the RESET button in the upper right will reset all fields on the current step to their prior state. When encircled X is clicked, the user will exit the setup flow, even if it is in an invalid, partially saved or unsaved state. When the user re-opens the setup flow, the values will be reset to their prior saved state.

Setup for Sunny Ridge 2015

STEP 1: PLANTING

STEP 2: PIVOT

STEP 3: WELL

Planting Date:

Planting Density: units/acre *Enter a whole number.*

GDUs to Silk: GDUs *Enter a number between 1250 and 1300.*

GDUs to Black Layer: GDUs *Enter a whole number.*

Refill Points: *Enter whole numbers between 50 and 100.*

Plant - VE	V1 - V5	V6 - V12	V13 - V18	VT - R1	R2 - R3	R4 - R6
<input type="text" value="a"/> %	<input type="text" value="b"/> %	<input type="text" value="c"/> %	<input type="text" value="70"/> %	<input type="text" value="70"/> %	<input type="text" value="70"/> %	<input type="text" value="60"/> %

SAVE & CONTINUE

If an entry is invalid, clicking the buttons CONTINUE or SAVE will cancel the save web-action and trigger a validation warning next to the button. The current panel will remain visible. The step buttons at the top of the setup are neither validation triggers nor save triggers, but they do link to the progressive setup panels.

Since it is possible that the invalid fields may exist on a prior step, the validation method will check all prior entries. The error message text will specify the incorrect step. If there are any invalid fields on a current or prior step, none of the fields, valid or invalid, can be saved. In the example to the right, the user has clicked CONTINUE, even though error fields contain validation warnings.

Setup for Sunny Ridge 2015 RESET ✕

STEP 1: PLANTING STEP 2: PIVOT STEP 3: WELL

Planting Date:

Planting Density: units/acre *Enter a whole number.*

GDUs to Silk: GDUs *Enter a number between 1250 and 1300.*

GDUs to Black Layer: GDUs *Enter a whole number.*

Refill Points: *Enter whole numbers between 50 and 100.*

Plant - VE	V1 - V5	V6 - V12	V13 - V18	VT - R1	R2 - R3	R4 - R6
<input type="text" value="a"/> %	<input type="text" value="b"/> %	<input type="text" value="c"/> %	<input type="text" value="70"/> %	<input type="text" value="70"/> %	<input type="text" value="70"/> %	<input type="text" value="60"/> %

SAVE & CONTINUE *Please correct the error(s) in Step 1.*

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6.1 Test Case: Verify Error validation is accurate for the Setup panels; validate the Field data-types functions as per specified in JIRA GS-648.

Confirm the GS-770 is fixed; Using JIRA GS-648 confirm the field data types are behavior as specified ensuring the proper validation message is invoked.

Step	Perform Action	Expected Results	P F B	Remarks: Use this section to add comments or notes. Or, actual results if feature was not as expected. You may also reference JIRA bug issue if a defect was written. PFB = (P) assed, (F) ailed or (B) ypassed. The step was bypassed.
1.	Instructions: - See the Test Environment Supported Devices and Brower section of this test plan for details. - Enter Browser/Device:	Able to follow instructions.	n/a	
2.	Pre-requisites: Clear the cache of the browser under test before execution. To execute the scenarios in this test case. The following fields (or field configuration must be in the Operation).	Test pre-requisites are met. Familiar with the JIRA story.		
3.	Test Set up: Log in as the User with an Operation as detailed in the Pre-requisites step.	Able to follow instructions: The User has at least 1 Farm 1 field setup for Water. - Successfully logged in		
4.	This test requires referring to the Field Validation specified in this issue. (Refer to the comments to check updates to these specs) - Open to Jira GS-648 https://jira.appliedinvention.com/browse/GS-648	Able to do as instructed.		
5.	- From the Water Page select a field for testing.	Able to follow instructions.		



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Step	Perform Action	Expected Results	P F B	Remarks: Use this section to add comments or notes. Or, actual results if feature was not as expected. You may also reference JIRA bug issue if a defect was written. PFB = (P) assed, (F) ailed or (B) ypassed. The step was bypassed.
6.	- Click the Setup button to open the Setup panels.	The fields Setup panel is opened.		
7.	- Verify Defect GS-770 has been fixed based on the specification presented for the Setup panel fields in GS 648. - Confirm that not only the validation is correct but the specified Field entries are as expected according to those specification expectations.	Fix verified. The error validation is accurate. The Field entries as specified works. Ie min/max, defaults values allow and not allowed datatypes were tested and behaves as is expected.		
<p style="text-align: center;">Testing is completed for this section</p> <p style="text-align: center;">Record Time it took to execute this test: _____ (This includes time it took for test setup. It <u>does not</u> include down time i.e. pauses in execution related to taking a break, attend a meeting, etc.)</p>				