



# BSIS V1.3.0 | Linkages & Haemovigilance

## *Release Notes*

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# SUMMARY

The V1.3 release of BSIS includes three new features:

- The ability for donor counsellors to record and report on referrals of TTI Positive donors to services for further testing, care and treatment.
- The ability to add and process a Patient Request to record an order for an individual patient.
- The ability to record and report transfusion information for any blood unit issued by the blood service. The new features support the haemovigilance programmes being implemented in some countries and allows for vein-to-vein traceability.

## NEW FEATURES

### 1. Donor Counselling

#### 1.1. Recording referrals of TTI Positive Donor for testing, care and treatment

Donor Counsellors are now able to record whether a TTI positive donor was referred to other services for further testing, care or treatment during post-donation counselling. They can do this by selecting a checkbox.

Test	Outcome	Tested On	Test	Outcome	Tested On
HIV	POS	20/06/2016	ABO	A	20/06/2016
HIV Repeat 1	POS	20/06/2016	Rh	POS	20/06/2016
HIV Repeat 2	POS	20/06/2016	Titre	HIGH	20/06/2016
HBV	NEG	20/06/2016	AnScri	POS	20/06/2016
HCV	NEG	20/06/2016	ABD Repeat 1	A	20/06/2016
Syphilis	NEG	20/06/2016	Rh Repeat 1	POS	20/06/2016
HIV Conf	POS	20/06/2016			

A Donor Counsellor can now also record the referral site that the donor was referred to. The referral sites must be configured as a location in Settings.

## 1.2. Donor Counselling report

The Donors Flagged for Counselling report has been renamed to Donor Counselling Report and in addition to listing all donors who have been flagged for counselling due to a positive TTI outcome, donor counsellors are now able to produce a report showing the counselling and referral status of those donors. The report can generate a list of:

- a. Donors who refused counselling
- b. Donors who did not receive counselling
- c. Donors that have been counselled and if so, whether or not they were referred

**Donor Counselling**

Venues: Select:

Any Venue

Donation Period:  To:

Any Date

Flagged for Counselling:

Counselling Status:

Include Donors That Have Been Referred

Include Donors That Have Not Been Referred

## 1.3. Date for post donation counselling limited to a past and current date

Donor Counselling staff are now only allowed to select a Counselling Date that is current or in the past

Counselling Date: 11/03/2017

Counselling Status: Received Counselling \*

Referred To:

Counselling Notes:

April 2017

Mon	Tue	Wed	Thu	Fri	Sat	Sun
27	28	29	30	31	01	02
03	04	05	06	07	08	09
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31	01	02	03	04	05	06

DIN:   
Date:   
Time:   
Venue:   
Pack:   
Donation:

TTI Test Status: TTI\_UNSAFE  
Blood Group Serology Test Status: COMPLETE - MATCH

TTI Outcomes			Blood Gro
Test	Outcome	Tested On	Test
HIV	NEG	06/02/2017	ABO
HBV	POS	06/02/2017	Rh

## 1.5 Set up Referral Site

An Administrator is able to add and edit a referral site under ‘Manage Locations’, which can be found under the Settings menu.

The screenshot shows a 'Manage Location' dialog box. At the top, it says 'Manage Location'. Below that, there are several input fields:

- 'Name': An empty text input field.
- 'Location Type': A dropdown menu showing options: Donor Clinic, Mobile Clinic, Components, Testing, Inventory, Hospital / Clinic, and Referral Site. 'Referral Site' is highlighted with a yellow background.
- 'First-level': A dropdown menu.
- 'Second-level': A dropdown menu.
- 'Third-level': A dropdown menu.
- 'Enabled': A checkbox that is checked.

At the bottom of the dialog box are two buttons: 'Save Location' and 'Cancel'.

## 2. Transfusions

### 2.1. Configure Transfusion Reaction Types

Transfusion Reaction Types can be configured under the Settings menu. Note that Transfusion Reaction Types are pre-populated according to the guidelines of the W.H.O. but these may be amended during installation and set-up to better reflect the reporting needs of the blood service. Transfusion Reaction Types simply consist of a name (short name or code) and a description.

Name	Description
ABO incompatibility	Immunological haemolysis due to ABO incompatibility
Allo-antibody	Haemolysis Immunological haemolysis due to other allo-antibody
NI Haemolysis	Non-immunological haemolysis
Anaphylaxis	Anaphylaxis/hypersensitivity
TACO	Transfusion-associated circulatory overload
TRALI	Transfusion-related acute lung injury
TTBI	Transfusion-transmitted bacterial infection
TT-HBV	Transfusion-transmitted viral infection HBV
TT-HCV	Transfusion-transmitted viral infection HCV
TT-HIV	Transfusion-transmitted viral infection HIV
TT-Other	Transfusion-transmitted viral infection other
TT-Malaria	Transfusion-transmitted parasitical infection (malaria)
TT-Parasitcal	Transfusion-transmitted parasitical infection (other)
PTP	Post-transfusion purpura
TA-GVHD	Transfusion-associated – graft versus host disease
Other	Other reactions

## 2.2 Adding a new Transfusion Reaction Type

An Administrator or Superuser is able to add a new Transfusion Reaction Type.

The screenshot shows a web-based application interface titled 'Manage Transfusion Reaction Types'. At the top, there is a message: '16 transfusion reaction type(s) found | [Add New Transfusion Reaction Type](#)'. Below this is a table with columns: 'Name', 'Description', and 'Enabled'. The table lists 16 different reaction types, each with a corresponding 'Enabled' checkbox. The 'Enabled' column contains mostly checked boxes, except for 'NI Haemolysis' which is unchecked. At the bottom of the table, there is a navigation bar with buttons for '1', '2', and '3'.

Name	Description	Enabled
ABO Incompatibility	Immunological haemolysis due to ABO incompatibility	<input checked="" type="checkbox"/>
Allo-antibody	Haemolysis, Immunological haemolysis due to other allo-antibody	<input checked="" type="checkbox"/>
NI Haemolysis	Non-immunological haemolysis	<input type="checkbox"/>
Other	Other reactions	<input checked="" type="checkbox"/>
PTP	Post-transfusion purpura	<input checked="" type="checkbox"/>
TA-GVHD	Transfusion-associated – graft versus host disease	<input checked="" type="checkbox"/>
TACO	Transfusion-associated circulatory overload	<input checked="" type="checkbox"/>
TRALI	Transfusion-related acute lung injury	<input checked="" type="checkbox"/>
TT-HBV	Transfusion-transmitted viral infection HBV	<input checked="" type="checkbox"/>
TT-HCV	Transfusion-transmitted viral infection HCV	<input checked="" type="checkbox"/>
TT-HIV	Transfusion-transmitted viral infection HIV	<input checked="" type="checkbox"/>
TT-Other	Transfusion-transmitted viral infection other	<input checked="" type="checkbox"/>
TT-Malaria	Transfusion-transmitted parasitical infection (malaria)	<input checked="" type="checkbox"/>
TT-Parasitcal	Transfusion-transmitted parasitical infection (other)	<input checked="" type="checkbox"/>
Other	Other reactions	<input checked="" type="checkbox"/>

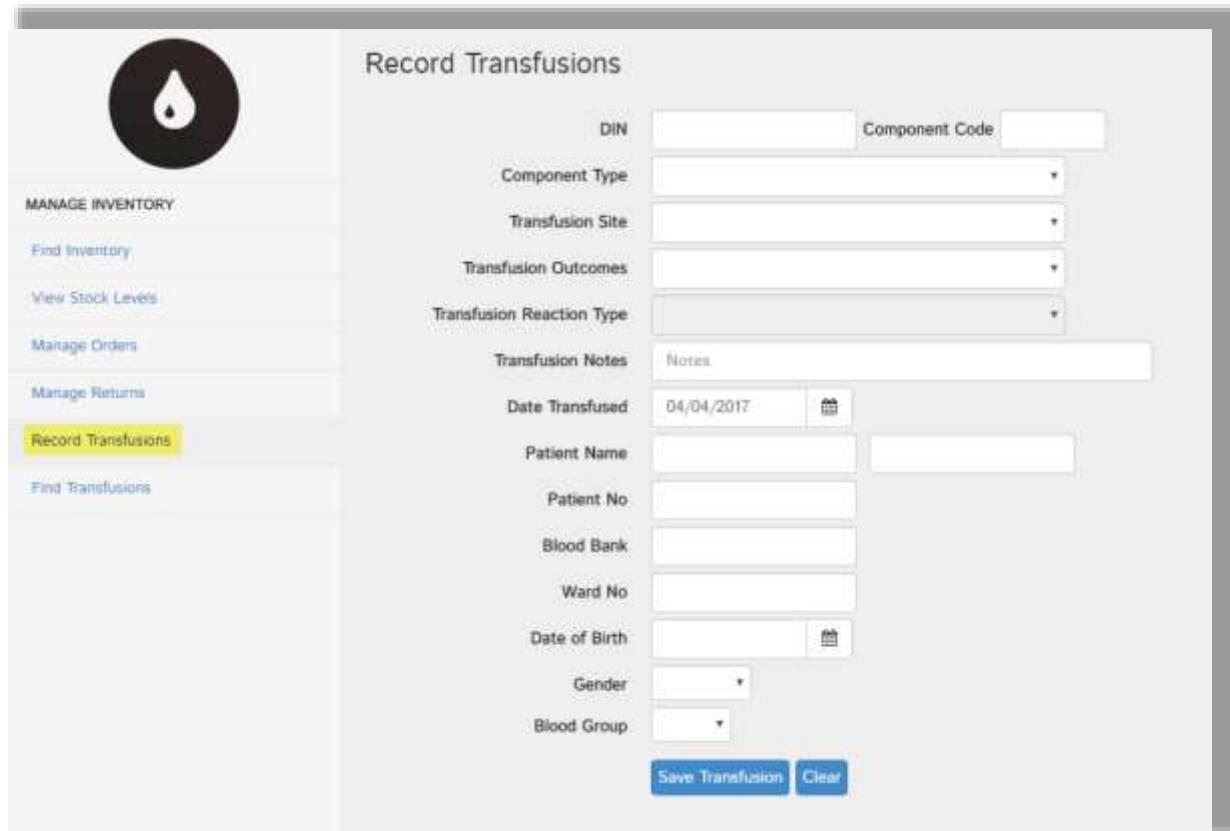
## 2.3 Editing Transfusion Reaction Types

Transfusion Reaction Types can also be edited by clicking on an entry, editing it and then saving it.

Name	ABO Incompatibility
Description	Immunological haemolytic due to ABO incompatibility
Enabled	<input checked="" type="checkbox"/>
<input type="button" value="Save Transfusion Reaction Type"/> <input type="button" value="Cancel"/>	

## 2.5 Recording Transfusions

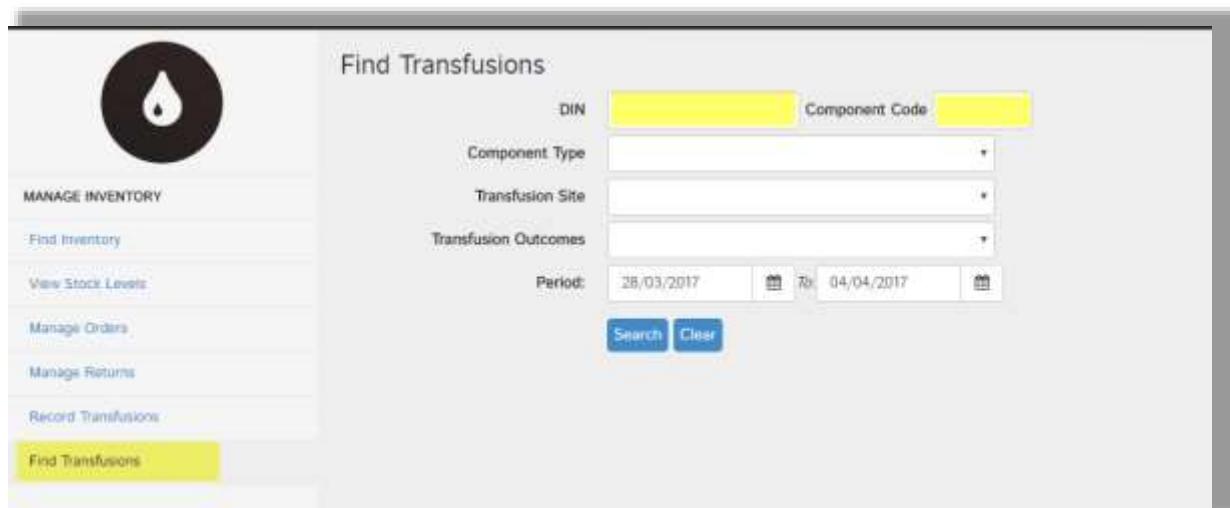
If the blood service receives transfusion information from hospitals that is related to issued blood units, the blood service staff are now able to record this transfusion data in BSIS to allow for vein-to-vein traceability. Staff can now select 'Record Transfusions' under the Inventory menu. The data that can be recorded includes the transfusion site where the transfusion took place, the transfusion outcome (Transfused Uneventfully, Transfusion Reaction Occurred, Not Transfused and Unknown) and the type of transfusion reaction. Additional data about the patient that received the transfusion may also be captured if available. In the case where multiple units are produced from a selected component type, (specifically paediatric units) the component code for the transfused unit needs to be captured.



The screenshot shows the 'Record Transfusions' page. At the top left is a black circular icon with a white blood drop symbol. To its right, the title 'Record Transfusions' is displayed. On the left side, there is a vertical sidebar titled 'MANAGE INVENTORY' containing links: 'Find Inventory', 'View Stock Levels', 'Manage Orders', 'Manage Returns', 'Record Transfusions' (which is highlighted in yellow), and 'Find Transfusions'. The main form area contains several input fields: 'DIN' and 'Component Code' (both with dropdown arrows), 'Component Type', 'Transfusion Site', 'Transfusion Outcomes', 'Transfusion Reaction Type', 'Transfusion Notes' (with a 'Notes' placeholder), 'Date Transfused' (set to '04/04/2017'), 'Patient Name' (with a small calendar icon), 'Patient No.', 'Blood Bank', 'Ward No.', 'Date of Birth' (with a small calendar icon), 'Gender' (with a dropdown arrow), and 'Blood Group' (with a dropdown arrow). At the bottom right of the form are two buttons: 'Save Transfusion' and 'Clear'.

## 2.4 Finding Transfusions

Components that have transfusion information can be identified using the 'Find Transfusion' report under the Inventory menu. Any component that does not have an associated transfusion record to it will be omitted from the report. Note that the 'DIN' and 'Component Code' fields are compulsory if searching for a specific component. The report can be generated according to transfusion site, type of transfusion outcome and/or component type and within a selected period based on the date of transfusion.



The screenshot shows the 'Find Transfusions' page. At the top left is a black circular icon with a white blood drop symbol. To its right, the title 'Find Transfusions' is displayed. On the left side, there is a vertical sidebar titled 'MANAGE INVENTORY' containing links: 'Find Inventory', 'View Stock Levels', 'Manage Orders', 'Manage Returns', 'Record Transfusions', and 'Find Transfusions' (which is highlighted in yellow). The main form area contains several input fields: 'DIN' and 'Component Code' (both with dropdown arrows), 'Component Type', 'Transfusion Site', 'Transfusion Outcomes', and 'Period' (set to '28/03/2017' to '04/04/2017'). Below the period fields are two buttons: 'Search' and 'Clear'.

## 2.6 Viewing and Updating Transfusions

Viewing of transfusions can be done by selecting ‘Find Transfusion’ under the Inventory menu. The user has the option of searching for a specific component by providing the DIN and component code or can search according to component type, transfusion site and/or type of transfusion outcome. Double clicking on the returned result will allow the user to view or edit the transfusion record. Note that it is not possible to edit the DIN, Component Code or Component Type.

The screenshot shows a software application window titled 'Find Transfusions'. On the left, there is a sidebar with a blood drop icon and links: 'MANAGE INVENTORY', 'Add Inventory', 'View Stock Levels', 'Manage Orders', 'Manage Returns', 'Recent Transfusions' (which is highlighted in yellow), and 'Find Transfusions' (which is also highlighted in yellow).

The main search interface includes fields for 'DIN', 'Component Code', 'Component Type', 'Transfusion Site', and 'Transfusion Outcome'. Below these is a date range selector labeled 'Period:' with '29/03/2017' and '05/04/2017' selected. There are 'Search' and 'Clear' buttons. A 'Data Export' button with 'PDF' and 'CSV' options is also present.

A table below the search fields displays two rows of transfusion records:

DIN	Component Code	Component Type	Transfused On	Outcome	Transfusion Site
123456	4001	Packed Concentrate - Whole Blood	29/03/2017	TRANSFUSED_UNEVENTFULLY	Bethersom Hospital
888888	3001	Packed Red Cells - CPDA	04/04/2017	TRANSFUSED_UNEVENTFULLY	ABC Teaching Hospital

Record Transfusions

DIN	123456	Component Code	4001
Component Type	Platelets Concentrate - Whole Blood		
Transfusion Site	Butterworth Hospital		
Transfusion Outcomes	Transfused Uneventfully		
Transfusion Reaction Type			
Transfusion Notes	Notes		
Date Transfused	29/03/2017	<input type="button" value=""/>	
Patient Name	nameOne	nameTwo	
Patient No	22222		
Blood Bank	33333		
Ward No	44444		
Date of Birth	01/01/1970	<input type="button" value=""/>	
Gender	Male	<input type="button" value=""/>	
Blood Group	O-	<input type="button" value=""/>	
<input type="button" value="Save Transfusion"/> <input type="button" value="Clear"/>			

## 2.7 Voiding a Transfusion

If transfusion data has been incorrectly captured, a transfusion record can be voided by clicking on the ‘void’ button on the ‘Record Transfusion’ screen. Note that this will not void the component record, only the transfusion data associated with it.

Record Transfusions

DIN	123456	Component Code	4001	<input type="button" value="Void"/>
Component Type	Platelets Concentrate - Whole Blood			
Transfusion Site	Butterworth Hospital			
Transfusion Outcomes	Transfused Unsuccessfully			
Transfusion Reaction Type				
Transfusion Notes	Notes			
Date Transfused	29/03/2017	<input type="button" value=""/>		
Patient Name	nameOne	nameTwo		
Patient No	22222			
Blood Bank	33333			
Ward No	44444			
Date of Birth	01/01/1970	<input type="button" value=""/>		
Gender	Male	<input type="button" value=""/>		
Blood Group	O-	<input type="button" value=""/>		
<input type="button" value="Save Transfusion"/> <input type="button" value="Clear"/>				

### 3. Patient Request

#### 3.1 New ‘Patient Request’ order type.

When adding a new order, the user has an option to select ‘Patient Request’ for orders that are received for a specific patient .

The screenshot shows the 'Manage Orders' application interface. On the left, there's a sidebar with 'MANAGE INVENTORY' options: 'Put Inventory', 'Mark Stock Levels', 'Manage Orders' (which is highlighted in yellow), 'Manage Returns', 'Report Transactions', and 'Put Transactions'. The main area is titled 'Manage Orders' and contains two sections: 'Current Orders' and 'Add Order'. In the 'Current Orders' section, there are two entries: one for 'TRANSFER' and one for 'ISSUE'. In the 'Add Order' section, the 'Order Date' is set to '09/04/2017'. The 'Dispatched From' field is empty. The 'Dispatch Type' dropdown menu is open, showing three options: 'Transfer', 'Issue', and 'Patient Request', with 'Patient Request' highlighted in yellow. The 'Dispatched To' field is also empty. At the bottom of the 'Add Order' section are 'Add Order' and 'Clear' buttons.

On selection of ‘Patient Request’ as a Dispatch Type, the user will have to add the patient details to the order. These are the patient’s name (first and last name – both mandatory) and if available, the patient’s date of birth, gender, patient number and blood group as well as the blood bank number and ward no of the hospital. The rest of the order details are entered as normal i.e. the number of blood units required by component type and blood group.

The screenshot shows a software application window titled "Manage Orders". On the left, there's a sidebar with a blood drop icon and several menu items under "MANAGE INVENTORY": "Blood Inventory", "Whole Blood Transfusions", "Manage Orders", "Manage Requests", "Record Transfusions", and "Print Transfusions".

The main area has tabs "Add Order" and "View Orders". Below these are two sections: "Current Orders" and "Add Order".

**Current Orders:**

Order Date	Dispatch Type	Dispatched From	Dispatched To
12/02/2017	TRANSFER	Asafe	Gulu
11/02/2017	ISSUE	Cale	Dove Hospital

**Add Order:**

Form fields include:

- Order Date: 03/04/2017
- Dispatched From: Select
- Dispatch Type: Transfer  Issue  Patient Request
- Dispatched To: Select
- Add Order button

**Patient Details:**

Form fields include:

- Name: [text input]
- Date of birth: [date input]
- Patient No.: [text input]
- Blood Bank No.: [text input]
- Gender: [dropdown]
- Blood Group: [dropdown]
- Hospital Ward No.: [text input]

## 4. Reports

### 4.1. Additional columns in the Blood Units Issued Summary Report

Extra columns have been added to this report to cater for the new Patient Request type of order. The new additional columns are:

- Patient Requests – This is the total blood units ordered via - patient requests.
- Issued – This is the total blood units issued against patient requests.
- Gap – The difference between the total units ordered via patient request and the
- Total units issued against patient requests.
- % Issued vs Ordered – The percentage of units issued against units ordered via patient requests.

The existing columns show the total number of blood units order and issued against a bulk order where the Dispatch Type is Issue.

Blood Units Issued Summary Report										
Period:		28/03/2017	To:		05/04/2017					
		Search		Clear						
3 sites(s) found   Data export: PDF CSV										
Distribution Site	Component Type	Ordered	Issued	Gap	% Issued vs Ordered	Patient Requests	Issued	Gap	% Issued vs Requests	
Cuba	Fresh Frozen Plasma - Whol.	0	0	0		1	1	0	100.00	
	Total Blood Units	0	0	0		1	1	0	100.00	
Alexandria	Platelets Concentrate - Who.	0	0	0		1	1	0	100.00	
	Total Blood Units	0	0	0		1	1	0	100.00	
JHS	Whole Blood - CPDA	1	0	1	0.00	0	0	0		
	Packed Red Cells - CPDA	1	1	0	100.00	0	0	0		
	Fresh Frozen Plasma - Whol.	1	1	0	100.00	0	0	0		
	Total Blood Units	3	2	1	66.67	0	0	0		

## 4.2. Transfusions Summary Report

This new report provides information on:

- The total number of blood units recorded as “Transfused Uneventfully”
- The total number of all blood units recorded as ‘Not Transfused’
- The total number of transfusion reactions according to reaction type and the total number of all blood units recorded as “Transfusion Reaction Occurred”.
- The total number of all blood units recorded as ‘Transfusion Unknown’.

Transfusions Summary Report													
Usage Site		Period:		Search		Clear							
Usage Site	Total	Total	ABN	ABN	ABN	ABN	ABN	ABN	ABN	ABN	ABN	ABN	ABN
Transfused	0	0	0	0	0	0	0	0	0	0	0	0	0
Not Transfused	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Number of Transfusions	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Number of Transfusion Reactions	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Number of Transfusion Unknown	0	0	0	0	0	0	0	0	0	0	0	0	0

#### 4.3 TTI Prevalence Report updated

This report has been amended so that if there are no donations records (by gender, for a venue within the selected time period, then the row for that gender will be omitted from the report.

#### 4.4 Donation Types Report updated

This report has been amended so that if there are no donations records (by gender, for a venue within the selected time period, then the row for that gender will be omitted from the report.

### 5. Donor Management

#### 5.1 Improvement to 'Find Donor' search

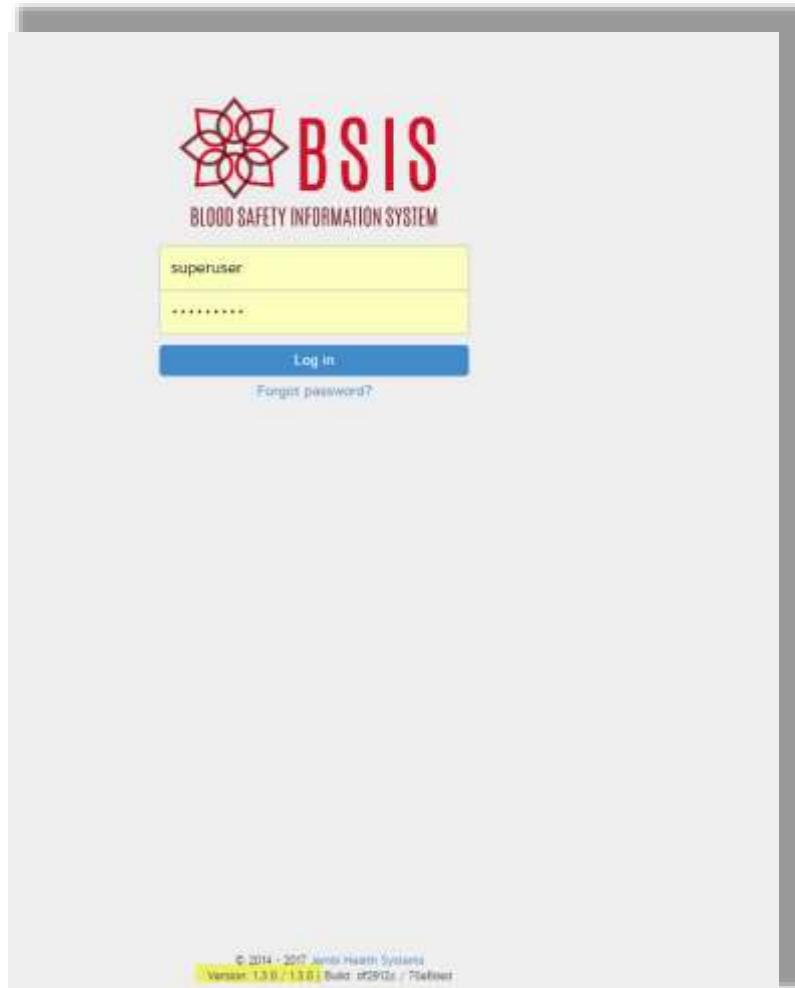
When a user enters a Donor's name (first and/or last), DIN or Donor Number, the other search fields become disabled. Previously a combination of search criteria could be entered but the search only used the donor's names and ignored the DIN or Donor Number, which was confusing.

The screenshot shows a software application window titled "Find Donor". On the left, there is a sidebar with several menu items: "DONOR RECORDS" (with "Manage Donors" highlighted in yellow), "Duplicate Donors", "DONOR CLINIC" (with "Manage Donation Batches"), "POST DONATION" (with "Donor Counselling"), and "DONOR COMMUNICATIONS" (with "View / Export Donor List"). The main content area is titled "Find Donor" and contains a search form. The form has three input fields: "Name" (with "First" and "Last" sub-fields), "Donor #" (with the value "000065" highlighted in yellow), and "DIN". Below the fields are two buttons: "Search" and "Clear". There is also a checkbox labeled "Include Similar Results". A file icon is located at the top left of the main area.

## IMPROVEMENTS AND UPDATES

### 1. BSIS version will display on the front-end

The BSIS Login Page now displays the version of BSIS installed, making it easier to identify for upgrade and support purposes.



# BUG FIXES

## 1. ‘Find Inventory’ search criteria disables other search fields

When a user enters a DIN and Component Code in order to search for a specific component, the other search fields are now disabled. Note that it is still possible to search using a combination of the other search criteria if the DIN and Component Code are left blank.

The screenshot shows a web-based application interface titled 'Find Inventory'. On the left, there's a sidebar with a blood drop icon and links for 'MANAGE INVENTORY' (with 'Find Inventory' highlighted), 'View Stock Levels', 'Manage Orders', 'Manage Returns', 'Record Transfusions', and 'Find Transfusions'. The main area has several search input fields: 'DIN' (34545) and 'Component Code' (3001) are filled and highlighted in yellow; 'Distribution Center' (All Sites), 'Component Type', 'Blood Groups' (Any Blood Group), and 'Due to Expire By' are empty and greyed out. At the bottom are 'Search' and 'Clear' buttons.

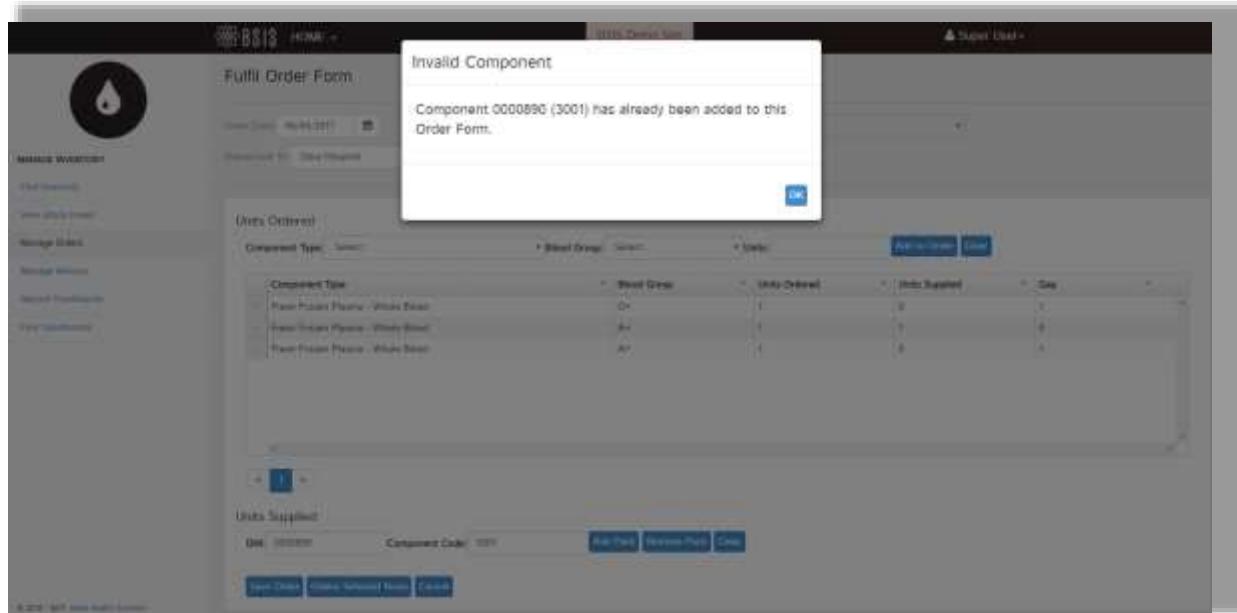
## 2. When merging Donor details, the name display order is now correct

When merging donor details, the donor name details now display in the following sequence: first name, middle name, last name.

The screenshot shows a 'Donor Details' page for a donor named 'Peter White'. The top bar shows the donor's name and ID (38 12345/1979), donor number (1000910), and preferred language (English). Below the name, there are tabs for 'Overview', 'Demographics', 'Histories', and 'Deliveries'. The 'Overview' tab is active, displaying information such as 'Date To Donate' (1/15/2016), 'Currently Delivered' (No current deliveries), 'Planned For Donation' (N/A), 'Total Donations' (1), 'Total Autologous Donations' (1), 'Date of First Donation' (July 13, 2016), and 'Previous Donations' (Date: 13/07/2016, Venue: Mobile Clinic (Transfer), Donor Type: Volunteer | Pouch Type: Triple, NW: 56 kg | BP: 88/44 mmHg HR: (Pulse) | P: 123 bpm). On the left, there's a sidebar with 'DONOR NUMBER' (1234567890), 'DONOR CLINIC' (Mobile Clinic), 'PAST DONATION' (None), 'DONOR COMMUNICATIONS' (None / Email/SMS Log), and a 'Merge Donors' button (highlighted).

### **3. Cannot create multiple issue orders with the same component**

The same component cannot be assigned to another order which has been saved but not yet dispatched. When this happens an alert is rendered to the user that the component has been saved to another order.



### **4. Changed the error message for saving an invalid component code**

The error message for when an invalid component is entered during the create order process has been updated to a more appropriate error message.



### **5. Default BSIS Date Format is now used throughout the BSIS application**

The default date format as specified under settings is now applied throughout the BSIS application.

## 6. Table headers showing full text

All table headers in the BSIS application now show the full text. This text may wrap if it is too long for the column width but is not cut off as was happening previously.

Venue	-	Accident	-	Allergy	-	Arterial pun...	Convulsions	Haematoma	Hyperventil...	Nausea	-	Nerve injury	-	Thrombopha...	Vasovagal	-	Other	-	Total...
Venue	-	Accident	-	Allergy	-	Arterial puncture	Convulsions	Haematoma	Hyperventilation	Nausea	-	Nerve injury	-	Thrombophlebitis	Vasovagal	-	Other	-	Total Adverse Events