



NATIONAL BLOOD AUTHORITY
AUSTRALIA

BLOODNET

Fresh Component
Health Provider Discard
FATE007e

Report Specification

Version Control

Version	Revision Date	Revision Description
0.1	19 Aug 2013	Initial Draft.
0.2	26 Aug 2013	Incorporate Sandra's confirmation of the data extract mocks, and based this specification on these confirmed mocks.
0.3	27 Aug 2013	Incorporate Pete's feedback.
0.4	05 Sep 2013	Incorporate Pete's feedback.
0.5	06 Sep 2013	Ensure that all report items in all worksheets use the same terminology for consistency.
0.6	11 Sep 2013	Pete added source data in Section 3.4.
1.0	11 Sep 2013	Approved by Peter O'Halloran.
1.1	13 Sep 2013	<p>From Amit's testing, amend the following:</p> <ul style="list-style-type: none"> • Column heading to be displayed as Cost Group Code; • Update Summary worksheet mock to show the right ordering of the columns Group DAPI followed by Benchmark. • Bring back Donation Number into the Discards worksheet. • Added 'Episode Number' into the 'Discards' and 'Issues and Transfers' worksheets. • Move 'Expiry Date' from the 'Discards' worksheet to the 'Issues and Transfers' worksheets. • Added 'Days to Expire' to the 'Issues and Transfers' worksheet. • Reordering report items into more logical groupings for the 'Discards' and 'Issues and Transfers' worksheets. • Rename Unit Cost to Unit Price. • Incorporate source data for Episode number. • Incorporate updated report samples.
2.0	13 Sep 2013	Approved by Peter O'Halloran.

Document Review and Approval

Version	Approval Date	Name and Position	Comments
1.0	11 Sep 2013	Peter O'Halloran Executive Director, Health Provider Engagement	Approved.
2.0	13 Sep 2013	Peter O'Halloran Executive Director, Health Provider Engagement	Approved.

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The content obtained from this document or derivative of this work must be attributed as the *National Blood Authority BloodNet Fresh Component Health Provider Discard Report Specification*.

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1 Introduction

1.1 Purpose

The purpose of this document is to describe the functional specification for the Data Extract that can be used by states and territories.

The purpose of the report is to produce extracts to provide discard values (cost and unit quantities) for fresh components over a given time period for the selected health provider.

Below is a matrix which identifies which reporting system and by which audiences, the report can be generated.

Reports Generated By	BloodNet Reports	Jurisdictional Reporting	NBA Internal Reports	Report Subscriptions
Facility Administrators	✓			✓
Facility User	✓			✓
Jurisdictional Blood Committee Members		✓		✓
Jurisdictional Blood Committee Proxies		✓		✓
NBA Staff	✓	✓	✓	✓
Blood Service Staff				
State/Territory Government Staff		✓		✓

1.2 Document Audience

This document should be used by:

- The Architect - to ensure this report fit into the NBA framework and meets all the essential core design features and elements of NBA systems.
- The Database Administrator – to form the design of the BloodNet reports database.
- The Developers - to form the basis of the development of BloodNet reports.
- The System Tester - to create the system test plan and system test cases.
- The Systems Support Team – to develop an understanding of the BloodNet reports to support users.
- The Business Stakeholders - to confirm that their requirements have been properly understood and approve the report specification.
- The Project Manager - to obtain project requirements/design signoff from the stakeholders and to assist in detailed task estimation and refinement of the project schedule and milestones.

1.3 Related Documents

- BloodNet Reporting Requirements;
- Report Register;
- BloodNet User Manual; and
- Jurisdictional Reports – Security Matrix SM.01 Functional Specification

2 Report Details

2.1 Description

The Fresh Component Health Provider Discard report is comprised of the following extracts:

1. Summary Data Extract – summary view that is based on each fresh component cost group for the entire reporting period;
2. Discards Data Extract – detailed view of discards for the reporting period;
3. Issues and Transfers Data Extract – detailed view of issues for the reporting period; and
4. Benchmarks Table.

The report is primarily designed to be exported into Excel for subsequent manipulation.

2.2 Business Rules¹

This report is based on the following rules:

1. This report extracts data that is entered into BloodNet.
2. Date and time fields will be displayed for the local time zone of the Health Provider, where applicable.
3. Report is based on a date range using start date and end date parameters².
 - a. All components³ that have a Discard Date⁴ (ie. when the discard took place) within the date range will be displayed in the Discard Data Extract; and
 - b. All components⁵ that have an Issue Date and Time (ie when the Issue Note was created by Blood Service) within the date range will be displayed in the Issue Data Extract.
4. The report includes the following issues statuses:
 - Unreceipted;
 - Receipted; and
 - Partially receipted.The report excludes “Cancelled” issue notes.
5. Orphaned issue notes (ie. issues notes for health providers that are not ordering through BloodNet) that exist in the BloodNet database matching on AHP code are included in the results by default⁶.

¹ Note: The business rules for Fate007e are mostly the same as Fate007. It is only the output format that is different.

² If for example, issue note was created by the Blood Service Distribution Centre on the 30th June (issue date), and the components within the issue note was discarded on 1st July (discard date), and you want to see all these data in Fate007e, then you need to ensure that your report start and end date will cover these period (ie. from 30th June to 1st July).

³ BR3a holds true, pending that the health provider matches what was selected.

⁴ There is no DiscardTime within BloodNet.

⁵ BR3b holds true, pending that the health provider matches what was selected.

⁶ Any issue data not recorded prior to the Health Provider using BloodNet will be included.

- a. Orphaned issue notes will be linked to a state/territory based on the first number of the AHP code (please refer to table below). For example, an AHP code of **27ZCSL** would refer to the state of NSW (because the first number of this code is “2”, and this refers to the state of “NSW”, as per table below).

StateID	CountryID	StateCode	StateName
1	1	ACT	Australian Capital Territory
2	1	NSW	New South Wales
3	1	VIC	Victoria
4	1	QLD	Queensland
5	1	SA	South Australia
6	1	WA	Western Australia
7	1	TAS	Tasmania
8	1	NT	Northern Territory

6. The issues and discard figures in the report are based on these figures having issue date, transfer date and the discard date that falls within the reporting period.

For example, say for a health provider, a quantity of Fresh Component Z was:

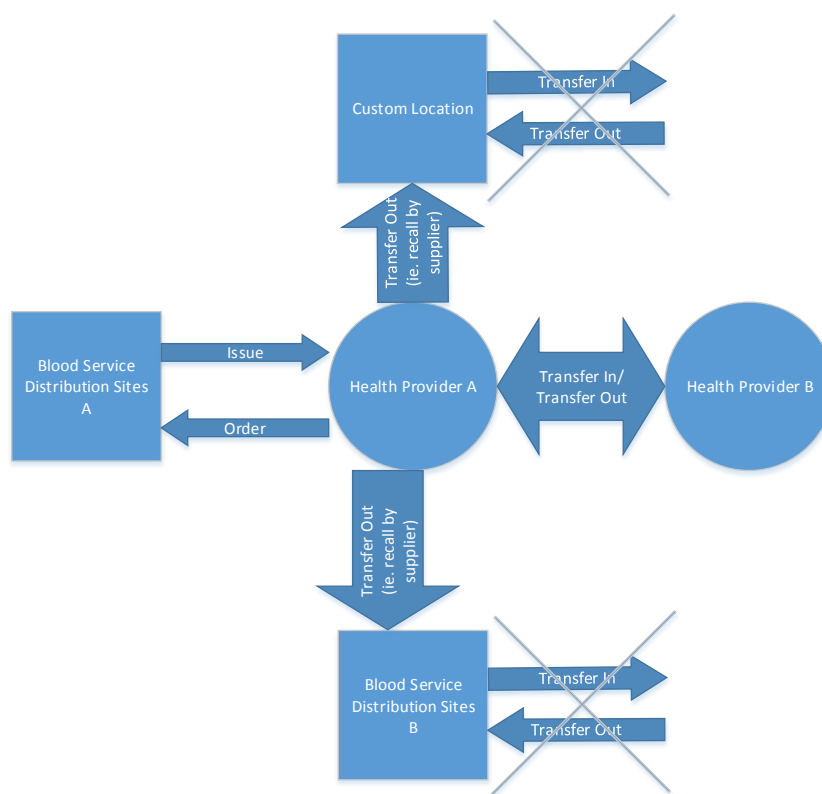
- Issued on 20th June 2012;
- Transferred on 30th June 2012 (as transfer in occurs at exactly the same date/time as the transfer out, both the transfer in and transfer out dates will be 30th June 2012); and
- Discarded on 12th July 2013.

If the reporting period was set for 1st July 2013 to 30th June 2014, then only the quantity of fresh component discarded will be included, as this date falls within the reporting period.

7. When considering transfers, the report will include:
- Transfers Out of health providers to other health providers, distribution sites and/or custom locations⁷ (as this reduces the stock levels of facilities); and
 - Transfers In to health providers from another health provider.

This report cannot report on any of the corresponding ‘Transfers In to’, and ‘Transfers Out from’ distribution sites and custom locations.

⁷ This is a location that was entered by a BloodNet user using the free text box entry when performing a transfer in BloodNet.



8. Below is the benchmark table, which will determine the Benchmark DAPI in the Section 1 – Summary Table:

Full year targets						
Red Blood Cells		Units	2013-14	2014-15	2015-16	2016-17
Super	>=	10000	4.5%	3.0%	2.5%	2.0%
Large	>=	5000	4.5%	3.0%	2.5%	2.0%
Medium	>=	2500		3.0%	2.5%	2.5%
Small	>=	500		5.0%	4.0%	3.0%
Exempt	<	500				
Platelets			2013-14	2014-15	2015-16	2016-17
Super	>=	2400	18.0%	15.0%	14.0%	12.0%
Large	>=	1400	18.0%	15.0%	14.0%	12.0%
Medium	>=	400		20.0%	18.0%	17.0%
Small	>=	200		22.0%	20.0%	18.0%
Exempt	<	200				
CFFP		All	18.0%	15.0%	12.0%	10.0%
Cryoprecipitate		Exempt				
Cryodepleted		Exempt				

- a. The year is based on the financial year (ie. 2013-14 implies July 1st 2013 to June 30th 2014);
- b. The Units (ie. Net issued qty) is based on a full year period (365 days), but pro-rata on a daily basis depending on the reporting period (ie. the number of days (inclusive) between start and end date). For example, if the reporting period is from 1st July 2014 to 5th July 2014, and we are looking at red blood cells for a super group, then the number of units issued will be 137 for the reporting period of 5 days $((10,000 \text{ units} \times 5 \text{ days}) / 365 \text{ days})$;
- c. The benchmark percentage will populate the applicable cells in the Summary Table, depending on which Component Group, Group, and Start Date⁸. The Benchmark percentage is fixed (ie. is not pro rata based on the reporting period like the Units). For example, a “Red Cell” Component Group for a “Super” Group where the reporting period is from 1st May 2015 to 18th July 2015, will have a start date of 1st May 2015 which corresponds to the 2014-15 column. Matching this for the Red Cell Component Group and Super Group, means that the benchmark will be 3.0%.
- d. If the group is exempt, then there are no benchmarks.

⁸ Note that it is the Start Date parameter that sets the comparison with the specific benchmark financial year.

2.3 Report Sample

Below are samples of the Fresh Component Health Provider Discard extracts once it is exported to Excel. The Excel will be made up of primarily 5 worksheets/tabs as follows:

1st worksheet - Header – displays the NBA logo, report title, description and selected parameters.



FATE007e - Fresh Component Health Provider Discards

This report shows the discard values (cost and unit quantities) for fresh components over a given time period for the selected health provider. The discard figures presented are also used to create the Discard as a Percentage of Issue (DAPI) so that health provider's DAPI can be compared against the Benchmark DAPI, Group DAPI, State DAPI and National DAPI. This report was designed to be exported into Excel for further manipulation

SHEET 1	Header
SHEET 2	Summary
SHEET 3	Discards
SHEET 4	Issues and Transfers
SHEET 5	Benchmarks

Extract Filter Details

State	State 1
Health Provider	Hospital Pathology 1
Start Date	01 Jan 2013
End Date	30 Jun 2013

Printed By: BloodNet on 16-Sep-2013 09:01:11

BloodNet: FATE007e - Fresh Component Health Provider Discards

2nd worksheet – Summary Worksheet – displays a summary view that is based on each fresh component cost group for the entire reporting period.

Component Group	Cost Group Code	Cost Group Description	Issued Qty	Transfer In Qty	Transfer Out Qty	Net Issued	Net Issued Cost	Discard Qty	Discard Cost	DAPI	Group	Group DAPI	Benchmark 2012-13	Net Issued Qty State	Discard Qty State	State DAPI	Net Issued Qty National	Discard Qty National	National DAPI
Red Cells	2a	WB Red Cell	0	0	0	0	\$0	0	\$0	0.0%	Super	4.198%	0.0%	0	0	0.0%	0	7	0.0%
Red Cells	2b	WB Red Cell - Leucodepleted	5895	804	7	6692	\$2,153,679	108	\$39,091	1.61%	Super	4.198%	0.0%	74457	2641	3.55%	365892	20523	5.61%
Red Cells	2d	WB Paediatric Red Cell - Leucodepleted (1 of 4)	119	0	0	119	\$22,203	48	\$9,035	40.34%	Super	4.198%	0.0%	529	207	39.13%	3996	1328	33.23%
Red Cells	2f	WB Washed Red Cell - Leucodepleted	2	0	0	2	\$551	0	\$0	0.0%	Super	4.198%	0.0%	118	3	2.54%	4178	70	1.68%
Platelets	3b	WB Platelet - Leucodepleted	1507	3	0	1510	\$589,569	140	\$54,380	9.27%	Super	12.63%	0.0%	10879	2157	19.83%	41507	8061	19.42%
Platelets	3d	Apheresis Platelet - Leucodepleted	1276	0	0	1276	\$698,533	108	\$59,124	8.46%	Super	12.63%	0.0%	6133	828	13.5%	24528	3535	14.41%
Platelets	3e	Paediatric Apheresis Platelet - Leucodepleted (1 of 4)	0	0	0	0	\$0	0	\$0	0.0%	Super	12.63%	0.0%	11	8	72.73%	1945	395	20.31%
Clinical Fresh Frozen Plasma	4b	WB Clinical FFP - Buffy Coat Poor	1420	4	0	1424	\$420,533	130	\$38,500	9.13%	All	10.674%	0.0%	9509	1427	15.01%	52197	5422	10.39%
Clinical Fresh Frozen Plasma	4c	Paediatric WB Clinical FFP (1 of 4)	22	0	0	22	\$1,033	0	\$0	0.0%	All	10.674%	0.0%	71	7	9.86%	1004	93	9.26%
Clinical Fresh Frozen Plasma	4d	Apheresis Clinical FFP	531	6	0	537	\$174,704	62	\$20,070	11.55%	All	10.674%	0.0%	4814	729	15.14%	16352	1909	11.67%
Cryoprecipitate	5a	WB Cryoprecipitate	1411	0	0	1411	\$56,271	103	\$4,108	7.3%	Exempt	7.841%	0.0%	7087	478	6.74%	38218	2849	7.45%
Cryoprecipitate	5b	Apheresis Cryoprecipitate	0	0	0	0	\$0	0	\$0	0.0%	Exempt	7.841%	0.0%	15	0	0.0%	3001	383	12.76%
Cryo-depleted Plasma	6a	WB Cryo-depleted Plasma	26	0	0	26	\$1,049	1	\$40	3.85%	Exempt	6.098%	0.0%	1925	71	3.69%	5590	338	6.05%
Cryo-depleted Plasma	6b	Apheresis Cryo-depleted Plasma	0	0	0	0	\$0	0	\$0	0.0%	Exempt	6.098%	0.0%	0	0	0.0%	150	12	8.0%

3rd worksheet – Discards Worksheet – detailed discard view based on each discard date event.

State	AHP Code	Health Provider	Episode Number	Discard Date	Component Name	Supplier Mnemonic	Cost Group Code	Cost Group Description	Blood Group (ABO + RH)	Donation Number	Discard Group	Discard Reason	Discard Location	Modifiers	Issue Number	Supplier Order Number	Order Ref	Unit Price	Discard Qty	Total Discard Cost
State 1	12ABCD	Hospital Pathology 1		02 Jan 2013	Platelets Pooled	PLATELET POOLED LEUCODEPLETED SSP+	3b	WB Platelet - Leucodepleted	O-		Expired	Expired - Time expired	Pathology	Irradiated; CMV negative;	0000013126047	0000001692755	311702	\$391.22	1	\$391.22
State 1	12ABCD	Hospital Pathology 1		02 Jan 2013	Platelets Pooled	PLATELET POOLED LEUCODEPLETED SSP+	3b	WB Platelet - Leucodepleted	O-		Expired	Expired - Time expired	Pathology	Irradiated; CMV negative;	0000013126047	0000001692755	311702	\$391.22	1	\$391.22
State 1	12ABCD	Hospital Pathology 1		02 Jan 2013	Platelets Pooled	PLATELET POOLED LEUCODEPLETED SSP+	3b	WB Platelet - Leucodepleted	O+		Expired	Expired - Time expired	Pathology	Irradiated; CMV negative;	0000013126047	0000001692755	311702	\$391.22	1	\$391.22
State 1	12ABCD	Hospital Pathology 1		02 Jan 2013	Platelets Pooled	PLATELET POOLED LEUCODEPLETED SSP+	3b	WB Platelet - Leucodepleted	O+		Expired	Expired - Time expired	Pathology	Irradiated; CMV negative;	0000013126047	0000001692755	311702	\$391.22	1	\$391.22
State 1	12ABCD	Hospital Pathology 1		03 Jan 2013	Platelets Pooled	PLATELET POOLED LEUCODEPLETED SSP+	3b	WB Platelet - Leucodepleted	O+		Expired	Expired - Time expired	Pathology	Irradiated;	0000013126808	0000001693403	312114	\$391.22	1	\$391.22
State 1	12ABCD	Hospital Pathology 1		03 Jan 2013	Platelets Pooled	PLATELET POOLED LEUCODEPLETED SSP+	3b	WB Platelet - Leucodepleted	B+		Expired	Expired - Time expired	Pathology	Irradiated; CMV negative;	0000013126281	0000001692974	311869	\$391.22	1	\$391.22
State 1	12ABCD	Hospital Pathology 1		27 Jun 2013	Red Cells Paediatric	RED CELLS IN SAG-M 1 OF 4 LEUCODEPLETED	2d	WB Paediatric Red Cell - Leucodepleted (1 of 4)	O-		Expired	Expired - Time expired	Pathology	CMV negative; Irradiated NEONATAL;	0000013256929	0000001808034	385810	\$70.04	1	\$70.04
State 1	12ABCD	Hospital Pathology 1		29 Jun 2013	Red Cells	RED CELLS IN SAG-M LEUCODEPLETED	2b	WB Red Cell - Leucodepleted	B+		Expired	Expired - Time expired	Pathology		0000013230601	0000001784728	370691	\$365.34	1	\$365.34
State 1	12ABCD	Hospital Pathology 1		30 Jun 2013	Red Cells Paediatric	RED CELLS IN SAG-M 2 OF 4 LEUCODEPLETED	2d	WB Paediatric Red Cell - Leucodepleted (1 of 4)	O-		Expired	Expired - Time expired	Pathology	CMV negative; Irradiated NEONATAL;	0000013260249	0000001811130	387814	\$70.04	1	\$70.04

4th worksheet – Issues and Transfers Worksheet – detailed issue view based on each issue date event.

State	AHP Code	Health Provider	Episode Number	Issue Type	Issue Number	Issue Date	Issue Time	Transfer Date	Expiry Date	Days to Expire	Component Name	Suppliers Component Identifier	Supplier Mnemonic	Cost Group Code	Cost Group Description	Blood Group	Donation Number	Modifiers	Supplier Order Number	Order Ref	Unit Price	Qty
State 1	12ABCD	Hospital Pathology 1		Issue	0000013126250	01 Jan 2013	07:01 +10:00		25 Jan 2013	25	Red Cells	04390	RED CELLS IN SAG-M LEUCODEPLETED	2b	WB Red Cell - Leucodepleted	O +	4278561		0000001692946	311869	\$365.34	1
State 1	12ABCD	Hospital Pathology 1		Issue	0000013126250	01 Jan 2013	07:01 +10:00		25 Jan 2013	25	Red Cells	04390	RED CELLS IN SAG-M LEUCODEPLETED	2b	WB Red Cell - Leucodepleted	O +	4284542		0000001692946	311869	\$365.34	1
State 1	12ABCD	Hospital Pathology 1		Issue	0000013126250	01 Jan 2013	07:01 +10:00		25 Jan 2013	25	Red Cells	04390	RED CELLS IN SAG-M LEUCODEPLETED	2b	WB Red Cell - Leucodepleted	O +	4278539		0000001692946	311869	\$365.34	1
State 1	12ABCD	Hospital Pathology 1		Issue	0000013126250	01 Jan 2013	07:01 +10:00		25 Jan 2013	25	Red Cells	04390	RED CELLS IN SAG-M LEUCODEPLETED	2b	WB Red Cell - Leucodepleted	O +	4261128		0000001692946	311869	\$365.34	1
State 1	12ABCD	Hospital Pathology 1		Issue	0000013126250	01 Jan 2013	07:01 +10:00		21 Jan 2013	21	Red Cells	04390	RED CELLS IN SAG-M LEUCODEPLETED	2b	WB Red Cell - Leucodepleted	O +	4279683		0000001692946	311869	\$365.34	1
State 1	12ABCD	Hospital Pathology 1		Issue	0000013126250	01 Jan 2013	07:01 +10:00		21 Jan 2013	21	Red Cells	04390	RED CELLS IN SAG-M LEUCODEPLETED	2b	WB Red Cell - Leucodepleted	O +	4298645		0000001692946	311869	\$365.34	1
State 1	12ABCD	Hospital Pathology 1		Issue	0000013126250	01 Jan 2013	07:01 +10:00		21 Jan 2013	21	Red Cells	04390	RED CELLS IN SAG-M LEUCODEPLETED	2b	WB Red Cell - Leucodepleted	O +	4286207		0000001692946	311869	\$365.34	1
State 1	12ABCD	Hospital Pathology 1		Issue	0000013126250	01 Jan 2013	07:01 +10:00		21 Jan 2013	21	Red Cells	04390	RED CELLS IN SAG-M LEUCODEPLETED	2b	WB Red Cell - Leucodepleted	O +	4295911		0000001692946	311869	\$365.34	1

Note that Excel 2003 has a limitation of been able to display 65,000 rows when exporting the data to Excel. When this happens, there may be multiple Excel worksheets for “Discards Data Extract” and “Issues and Transfers Data Extract” (where each worksheet can hold a maximum of 65,000 rows). Hence the worksheet order will be: 1st worksheet is the header, the 2nd worksheet will be the summary data extract, and the subsequent sheets will cover the discards and issues and transfers data extracts, followed by the benchmarks worksheet.

5th worksheet – Benchmarks Worksheet – the benchmark level set as the comparison between hospitals that are categorised in the same peer group.

Component Group	Peer Group	Lower Limit	Upper Limit	2013-14	2014-15	2015-16	2016-17
Whole Blood	Exempt	0	999999	0	0	0	0
Red Cells	Super	10000	999999	4.5	3	2.5	2
	Large	5000	9999	4.5	3	2.5	2
	Medium	2500	4999	0	3	2.5	2.5
	Small	500	2499	0	5	4	3
	Exempt	0	499	0	0	0	0
Platelets	Super	2400	99999	18	15	14	12
	Large	1400	2399	18	15	14	12
	Medium	400	1399	0	20	18	17
	Small	200	399	0	22	20	18
	Exempt	0	199	0	0	0	0
Clinical Fresh Frozen Plasma	All	0	99999	18	15	12	10
Cryoprecipitate	Exempt	0	99999	0	0	0	0
Cryo-depleted Plasma	Exempt	0	99999	0	0	0	0

3 Report Content

3.1 Title

The report title is: Fresh Component Health Provider Discard Report.

The Report ID is: FATE007e

This report title and Report ID will be seen consistently on the NBA internal site and also within the extract.

3.2 Description

The following report description will display on the report:

“This report shows the discard values (cost and unit quantities) for fresh components over a given time period for the selected health provider. The discard figures presented are also used to create the Discard as a Percentage of Issue (DAPI) so that health provider’s DAPI can be compared against the Benchmark DAPI, Group DAPI, State DAPI and National DAPI. This report was designed to be exported into Excel for further manipulation.”

3.3 Parameters

The following parameters⁹ will be available:

Name	Mandatory	Description	Control Type	Values/Value List	Default Value
State	Yes	The state will filter all the applicable health providers that will be considered for the selected state(s).	Drop Down	All States ACT NSW NT QLD SA TAS VIC WA	All States
Health Provider	Yes	The selected health provider determines all the fresh components that are issued/discarded by the selected health provider.	Drop down	A list of all the current health providers filtered by the State selected.	<Select a Value>
Start Date	Yes	The starting date of the range for the report (inclusive).	Date Picker	Any valid date	<Select a Value>
End Date	Yes	The end date of the range for the report (inclusive)	Date Picker	Any valid date	<Select a Value>

This report is designed be exported to Excel. The following rules apply on the report outputs (noting that the display is not optimised for a screen):

1. Worksheet 1 displays the NBA Logo, report title, description and selected parameters.
2. Worksheet 2 displays the Summary table.
3. Worksheet 3 displays the Discards table.
4. Worksheet 4 displays the Issues and Transfers table.
5. Worksheet 5 displays the Benchmarks table.
6. Where the selected criteria returns no results, a message is displayed on the relevant page:
 - For Summary table:
 - “No Summary is available using the selected parameters.”
 - For Discard table:
 - “No Discards were found using the selected parameters.”
 - For Issue table:
 - “No Issues were found using the selected parameters.”

⁹ Note: The parameters will come from FATE007. There will be a link on FATE007 for data extract, which will redirect you to FATE007e, with the parameters selected that were chosen in FATE007.

3.4 Report Field Description

1. **Summary Table** - data is displayed as a table with the following columns.

Data Item	Description	Source Data
Component Group	The description of a fresh component at a high level (ie. whole blood, red cell, platelet, clinical fresh frozen plasma, cryoprecipitate, cryo-depleted plasma, and other.	BloodNet_Reporting.dbo.ComponentGroup.ComponentGroupName
Cost Group Code	Used to describe the logical grouping of components into pricing brackets. For example a cost group code of 2a is WB Red Cell, 2b is WB Red Cell - Leucodepleted.	ComponentCostGroup.GroupingCode
Cost Group Description	The name of the logical grouping used to describe the fresh components grouped in the price bracket.	ComponentCostGroup.Description
Issued Qty	The number of units issued by the Blood Service Distribution Centre to the selected Health Provider. Note: Issued Qty does not take into account of transfers in/out quantities.	ConsignmentNoteLine.Qty
Transfer In Qty	The number of units transferred into the selected Health Provider from other Health Providers.	ConsignmentNoteLine.Qty
Transfer Out Qty	The number of units transferred out of the selected Health Provider to other Health Providers/Blood Service Distribution Centre or Custom Locations	ConsignmentNoteLine.Qty
Net Issued	The number of units issued taking into account of the transfers in/out quantities for the selected Health Provider. ie. Net Issued = Issues + Transfers IN – Transfers OUT	Calculated using fields above
Net Issued Cost	The total net issued cost at the time of issued. As unit cost may vary during a reporting period, this report will take into account any unit cost change within the reporting period.	ComponentUnitCost.PublishedPrice * Net Issued
Discard Qty	The number of units discarded by the selected Health Provider.	count(DiscardEpisodeComponent)
Discard Cost	The total cost of discards for each cost group for the selected Health Provider.	DiscardEpisodeComponent.Published Price
DAPI	The number of Discards As a Percentage of Issued (DAPI) for each cost group, for the selected Health Provider. This is based on the reporting period. DAPI for each Cost group: (DiscardQty) / (Net IssuedQty) x 100	Derived

Data Item	Description	Source Data
Group	<p>The Group DAPI is where any Health Provider that has a matching group and matching cost group (ie. belongs to a large group, and for cost group (ie. 2a – WB Red Cell)) will have its discard and net issue quantities counted towards the group average.</p> <p>This is based on the reporting period.</p> <p>[Average of \sum (DiscardQty) / Average of \sum (NetIssuedQty)] x 100</p> <p>Filter: Component & Facility.PeerGroupId = @PeerGroupId</p> <p>For a specific cost group, obtain a list of all health providers’ net issued and discard quantities. Then from this list, filter out all the health provider that has a net issued quantity that is between the limits stated in the Benchmark Table (Section 2.2).</p> <p>For example, for a Red Blood Cell, the limits are:</p> <ul style="list-style-type: none"> • 0 to 499 – Exempt; • 500 to 2,499 - small; • 2,500 to 4,999 - medium; • 5,000 to 9,999 - large; • >=10.000 - super. <p>If there are 5 health providers that have net issued quantities of 500, 550, 1000, 2000, and 2499 (ie. all in the small group), and their corresponding discard quantities are 1, 2, 3, 4, and 5 , then these health providers would be filtered to determine the group average for this specific fresh component and for a small group.</p> <p>Hence sum the net issued quantities and divide by 5 health providers to obtain the “sum net issued average” (ie. (500 + 550 + 1000 + 2000 + 2499)/5 = 1310) and sum the discard quantities and divide by 5 health providers to obtain the “sum discard average” ((1 + 2 + 3 + 4 + 5)/5 = 3).</p> <p>Then divide the sum discard average by the sum net issued average, multiply by 100 (ie. 3/1310 x 100 = 0.23%).</p> <p>0.23% will then be the group average for a small group, and for this specific cost group.</p>	
Group DAPI	Any Health Provider that has a matching group and matching fresh component (ie. belongs to a large group, and for component group (ie. all 2’s (Red Cells), 3’s	Derived

Data Item	Description	Source Data
	<p>(Platelets), etc, will have its discard and net issue quantities counted towards the Group DAPI. This is based on the reporting period.</p> <p>[Average of \sum (DiscardQty) / Average of \sum (NetIssuedQty)] x 100</p> <p>Filter: Component & Facility.PeerGroupId = @PeerGroupId</p> <p>For a specific fresh component, obtain a list of all health providers' net issued and discard quantities. Then from this list, filter out all the health provider that has a net issued quantity that is between the limits stated in the Benchmark Table (Section 2.2, BR10).</p> <p>For example, for a Red Blood Cell, the limits are:</p> <ul style="list-style-type: none"> • 0 to 499 – Exempt; • 500 to 2,499 - small; • 2,500 to 4,999 - medium; • 5,000 to 9,999 - large; • >=10.000 - super. <p>If there are 5 health providers that have net issued quantities of 500, 550, 1000, 2000, and 2499 (ie. all in the small group), and their corresponding discard quantities are 1, 2, 3, 4, and 5, then these health providers would be filtered to determine the group average for this specific fresh component and for a small group.</p> <p>Hence sum the net issued quantities and divide by 5 health providers to obtain the "sum net issued average" (ie. (500 + 550 + 1000 + 2000 + 2499)/5 = 1310) and sum the discard quantities and divide by 5 health providers to obtain the "sum discard average" ((1 + 2 + 3 + 4 + 5)/5 = 3).</p> <p>Then divide the sum discard average by the sum net issued average, multiply by 100 (ie. 3/1310 x 100 = 0.23%).</p> <p>0.23% will then be the group average for a small group, and for this specific fresh component.</p>	
Benchmark <FY>	<p>The benchmark is set by NBA annually. There is a benchmark table that can be updated easily. Refer to Section 2.2 for the Benchmark table.</p>	Reference.componentGroupPeerBenchmark.BenchmarkPercent
Net Issued Qty State	<p>The number of units issued taking into account of the transfers in/out quantities for all the Health Providers in</p>	ConsignmentNoteLine.Qty

Data Item	Description	Source Data
	<p>the selected State.</p> <p>Note that if "All States" is selected, then this field will remain blank.</p>	
Discard Qty State	<p>The number of units discarded for the selected Health Provider.</p> <p>Note: The state is determined by the selection of the Health Provider (and which state this Health Provider is located). This report is for a single Health Provider.</p>	count(DiscardEpisodeComponent)
State DAPI	<p>The number of Discards As a Percentage of Issued (DAPI) for each cost group, for the selected state.</p> <p>This is based on the reporting period.</p> <p>State DAPI for each Cost group: $(\text{DiscardQty State}) / (\text{Net IssuedQty State}) \times 100$</p>	Derived
Net Issued Qty National	<p>The number of units issued taking into account of the transfers in/out quantities for all the Health Providers for all states and territories.</p>	ConsignmentNoteLine.Qty
Discard Qty National	<p>The number of units discarded for all the Health Providers for all states and territories.</p>	count(DiscardEpisodeComponent)
National DAPI	<p>The number of Discards As a Percentage of Issued (DAPI) for each cost group, for all states/territories.</p> <p>This is based on the reporting period.</p> <p>National DAPI for each Cost group: $(\text{DiscardQty National}) / (\text{Net IssuedQty National}) \times 100$</p>	Derived

2. **Discards Table** - data is displayed as a table with the following columns.

Data Item	Description	Source Data
State	The state/territory to which this report will be based upon. Determines the list of health providers available for selection.	BloodNetReporting.Facility.State
AHP Code	This Approved Health Provider (AHP) code identifies the Health Provider that has discarded or been issued components. It should be noted that each Health Provider has a unique AHP code and in some instances, one large hospital may have multiple facilities (ie. Pathology facility, Pharmacy facility, Oncology facility), and all these facilities will have its own unique AHP code.	Facility.HealthProviderCode
Health Provider	The AHP Name of the Health Provider receiving the components.	Facility.FacilityName
Episode Number	A BloodNet generated number which relates to one discard incident, or one transfer incident. Hence, for the 'Issues and Transfers' worksheet, an episode number will only be displayed when the Issue Type = Transfer In or Transfer Out. For the 'Discards' worksheet, an episode number should be displayed. Note that one discard/transfer incident can relate to discard of one or many components.	TransferEpisode.TransferEpisodeid Or DiscardEpisode.DiscardEpisodeid
Discard Date	This is the date the discard took place. The format is dd-Mmm-yyyy. Note: There is a field in BloodNet called discard date that the user can enter – this is the date that is used for this report.	DiscardEpisode.DiscardDateTime
Component Name	Component Name is what is ordered (ie. platelet pooled, platelet apheresis, etc). Note that this is totally different from Component Group (ie. platelet) which deals with what was issued.	Component.ComponentName
Supplier Mnemonic	The mnemonic used by the supplier to indicate a product. Used on packaging slips and consignment notes.	SupplierComponent.SupplierMnemonic
Cost Group Code	The code used to describe the logical grouping of components into pricing brackets. For example a cost group code of 2a is WB Red Cell, 2b is WB Red Cell - Leucodepleted.	ComponentCostGroup.GroupingCode
Cost Group Description	The name of the logical grouping used to describe the fresh components grouped in the price bracket.	ComponentCostGroup.Description

Data Item	Description	Source Data
Blood Group (ABO + RH)	Any one of the various groups into which human blood is classified on the basis of its agglutinogens. Also called blood type.	consignmentNoteLine.group
Donation Number	The donation/lot number of the unit so it can be traced back to the donor of manufacturing batch and printed on the individual issue note line items.	ConsignmentNoteLine.DonationNoLot
Discard Group	Discard group has been created so that discard reasons can be grouped manageably. Discard groups include: Expired, Damaged, Clinical, Recall, Storage, Transport and Other.	DiscardGroup.DiscardGroupName
Discard Reason	Each discard group is broken down into its discard reasons. Discard reasons are entered into BloodNet during a discard. For example, the Expired discard group will show discard reasons such as: Extended life plasma; Thawed cryoprecipitate; Thawed FFP; and Time expired.	DiscardReason.DiscardReasonName
Discard Location	The location where the discard of the component took place.	Location.Location
Modifiers	The text from the Modifiers field printed on the individual issue note line items. This is a list of mnemonics that represent the changes/additions applied to the original component during manufacture. Examples include Irradiated, Washed or Phenotyped.	ConsignmentNoteLine.Modifiers
Issue Number	The issue note number is used by the Red Cross Blood Service and printed on the top of their issue note.	ConsignmentNote.IssueNumber
Supplier Order Number	An order number generated by the supplier. Used to hold the issue note numbers from Blood Service if available when creating the order.	ConsignmentNote.SupplierOrderNumber
Order Ref	This is the BloodNet order number.	ConsignmentNote.OrderRef
Unit Price	The cost of the discard on the date the component was issued.	ComponentUnitCost.PublishedPrice
Discard Qty	This discard quantity will always be 1 because users discard by donation number	Count(DiscardEpisodeComponent)
Total Discard Cost	This is the total discard cost for the component on the discard date (ie. unit cost x discard qty).	Sum(discardEpisodeComponent * PublishedPrice)

3. **Issues and Transfers table** - the data is displayed as a table with the following columns

Report Item	Description	Source Data
State	The state/territory to which this report will be based upon. Determines the list of health providers available for selection.	BloodNetReporting.Facility.State
AHP Code	This Approved Health Provider (AHP) code identifies the Health Provider that has discarded or been issued components. It should be noted that each Health Provider has a unique AHP code and in some instances, one large hospital may have multiple facilities (ie. Pathology facility, Pharmacy facility, Oncology facility), and all these facilities will have its own unique AHP code.	Facility.HealthProviderCode
Health Provider	Depending on the Issue Type, the Health Provider value listed here will have different meanings. If Issue Type = Issue, then this is the Health Provider receiving the components (ie. the health provider you are reporting on); If Issue Type = Transfer Out, then the Health Provider displayed will be the Health Provider where the components are transferred to; and If Issue Type = Transfer In, then the Health Provider displayed will be the Health Provider where components have come from (and transferred into your selected Health Provider).	Facility.FacilityName
Episode Number	A BloodNet generated number which relates to one discard incident, or one transfer incident. Hence, for the 'Issues and Transfers' worksheet, an episode number will only be displayed when the Issue Type = Transfer In or Transfer Out. For the 'Discards' worksheet, an episode number should be displayed. Note that one discard/transfer incident can relate to discard of one or many components.	TransferEpisode.TransferEpisodeId Or DiscardEpisode.DiscardEpisodeId
Issue Type	The type of issue. Can be either Issue, Transfer In, or Transfer Out.	Derived
Issue Number	The issue note number is used by the Red Cross Blood Service and printed on the top of their issue note.	ConsignmentNote.IssueNumber
Issue Date	The date the issue note was created by the Blood Service Distribution Centre. The format is dd-Mmm-yyyy.	ConsignmentNote.OrderDateTime
Issue Time	The local time the issue note was created by the Blood Service Distribution Centre. The format is hh:mm:tt. The time is in 24hr format, and tt represents the different time zones for the different states and territories.	ConsignmentNote.OrderDateTime
Transfer Date	The date the fresh component was transferred. Note that transfer in occurs at exactly the same date as transfer out).	TransferComponent.TransferDate
Expiry Date	The expiry date (ie. component shelf-life) on the item.	ConsignmentNoteLine.ExpiredOn

Report Item	Description	Source Data
Days to Expire	The number of days to expiry from the issue date/transfer date. Note that if the issue date/time is 19 th August 11:59pm, we will still count this as one day.	Derived
Component Name	Component Name is what is ordered (ie. platelet pooled, platelet apheresis, etc). Note that this is totally different from Component Group (ie. platelet) which deals with what was issued.	Component.ComponentName
Supplier Component Identifier	The code used by the supplier and manufacturer to identify the product. Often printed as a barcode on the product.	ConsignmentNoteLine.SupplierComponentIdentifier
Supplier Mnemonic	The mnemonic used by the supplier to indicate a product. Used on packaging slips and consignment notes.	SupplierComponent.SupplierMnemonic
Cost Group Code	The code used to describe the logical grouping of components into pricing brackets. For example a cost group code of 2a is WB Red Cell, 2b is WB Red Cell - Leucodepleted.	ComponentCostGroup.GroupingCode
Cost Group Description	The name of the logical grouping used to describe the fresh components grouped in the price bracket.	ComponentCostGroup.Description
Blood Group (ABO + RH)	Any one of the various groups into which human blood is classified on the basis of its agglutinogens. Also called blood type.	ConsignmentNoteLine.Group
Donation Number	The donation/lot number of the unit so it can be traced back to the donor of manufacturing batch and printed on the individual issue note line items.	ConsignmentNoteLine.DonationNumber
Modifiers	The text from the Modifiers field printed on the individual issue note line items. This is a list of mnemonics that represent the changes/additions applied to the original component during manufacture. Examples include Irradiated, Washed or Phenotyped.	ConsignmentNoteLine.Modifiers
Supplier Order Number	An order number generated by the supplier. Used to hold the issue note numbers from Blood Service if available when creating the order.	ConsignmentNote.SupplierOrderNumber
Order Ref	This is the BloodNet order number.	ConsignmentNote.OrderRef
Unit Price	The published price for the cost group on the date the component was issued (ie. issue date).	ComponentUnitCost.PublishedPrice
Qty	For fresh components, the quantity will always be one (or -1 for transfer out), because a transfer always relates to a single donation number.	ConsignmentNoteLine.Qty

4 Glossary

Term	Definition
AHP	Approved Health Provider, normally referred to as a 'Health Provider'. Also known as facility.
Benchmark	The level set as the comparison between hospitals that are categorized in the same peer group.
BloodNet	Operated by the NBA, BloodNet is Australia's national online ordering and inventory management system, enabling staff in pathology laboratories to place orders online for blood and blood products, record inventory levels, and to record the final fate of each unit.
Blood Service	Australian Red Cross Blood Service.
Component	Known as Fresh Components within BloodNet. Also, commonly referred to as Fresh Blood Products within the blood sector. The most common fresh components are: <ol style="list-style-type: none"> Red Cells Platelets Clinical Fresh Frozen Plasma Cryoprecipitate
Component Group	This is the higher level description of the Fresh Component Group. Examples of Component Groups are: Whole Blood, Red Cell, Platelet, Clinical Fresh Frozen Plasma, Cryoprecipitate, Cryo-depleted plasma, and Other.
Cost Group	When you combine Fresh Component Cost Group Code and Fresh Component Cost Group description together (ie. 2a – WB Red Cell).
Custom Location	This is a location that was entered by a BloodNet user using the free text box entry when performing a transfer in BloodNet.
DAPI	Discard as a Percentage of Net Issue. This is based on the reporting period.
Discard Cost	The cost of the quantity discarded for each component/manufactured product (ie. discard cost = unit price x quantity discarded). The unit cost for the cost group on the date the component was issued.
Discard quantity	The number of units of blood and blood products that are discarded.
Extract	The process of retrieving data out of data sources for further data processing or data storage (data migration).
Episode Number	A BloodNet generated number which relates to one discard incident, or one transfer incident. One discard/transfer incident can relate to discard of one or many components.
Facility	Also known as an Approved Health Provider (AHP) or Health Provider. It should be noted that each Facility has a unique AHP code and that in some instances, one Health Provider may be comprised of multiple facilities using BloodNet (eg Pathology and Pharmacy).
Facility user	General users of BloodNet to order, receive and fate blood and blood products.
Facility administrator	Users of BloodNet with administrator rights which gives the ability to approve users, change templates and add new items. Once approved facility administrators will also be automatically granted facility user access to the facility indicated. Facility administrator can be a lab manager, scientist in charge (SIC) or second in charge (2IC).
Cost Group Code	This is the 2 alphanumeric code that corresponds to a Fresh Component Group. Examples of Fresh Component Cost Groups include: 1a, 1b, 2a, 2b, 2c etc
Group Description	Also known as Components. Also, commonly referred to as Fresh Blood Products within the blood sector. The components referred to in this report are issued fresh components, not ordered products. Some of the examples are: Whole Blood; Whole

Term	Definition
	Blood – Leucodepleted; WB Red Cell; WB Red Cell – Leucodepleted; WB Red Cell - Buffy Coat Poor; WB Paediatric Red Cell - Leucodepleted (1 of 4) etc.
Group	The health provider is categorised into groups depending on their size and the number of fresh components and manufactured products issued to them. This category will be used to group health providers of similar size together to allow comparison.
Group Average	The discard average rate across the same group. Any Health Provider that has a matching group and matching fresh component (ie. belongs to a large group, and for specific “2b – WB Red Cell – Leucodepleted” fresh component), will have its discard and net issue quantities counted towards the group average. This is based on the reporting period.
Health Provider	A health provider is an individual or an institution that provides preventive, curative, promotional, or rehabilitative health care services in a systematic way to individuals, families or communities. Please refer to AHP. Also known as facility.
Inventory	Refers to the stock kept and maintained by the laboratory, and can be entered into BloodNet as stock on hand.
Issue note	An issue note is sent out with the order to the Health Provider both in hard copy format within the box sent from the Blood Service, and within the facilities BloodNet site. The issue note will contain information like the issue number, the date time of the issue, which Blood Service site made the issue, the issued quantity, total issue price and the order number. Issue note can have different statuses such as active, completed (when the issue note is 100% receipted) and cancelled.
Issued quantity	The number of units issued by the Blood Service Distribution Centre.
Modified components	Changes or additions to the original component. Examples include Irradiated, Washed or Phenotyped.
NBA	National Blood Authority
Net Issued Cost	The total net issued cost at the time of issued. As unit cost may vary during a reporting period, this report will take into account of any unit cost change within the reporting period. For each date within the reporting period and for each cost group, it will calculate the “net issued qty x unit cost = net issued cost”.
Null	Blank. No data.