# SQA Metric Items From FPA Spreadsheet - June 2018

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#### Abstract

Evaulation of various potential matrics, performance indicators from the Excel workbook that Software Quality Assurance collected called First Pass Acceptance. This will only be run for the month of January 2018.  $^{1}$ 

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<sup>&</sup>lt;sup>1</sup>Date Ran: Wednesday 1<sup>st</sup> August, 2018 at 10:42

#### 1 Introduction

The data is processed using R<sup>2</sup>, Version 3.5.1 named "Feather Spray". The only extension (package or library) utilized is lubridate (version 1.7.4) to provide key functionality in the processing of dates.

The data is read into R from a comma seperated value (csv) file which is derived (saved) from the spreadsheet without modification. Additional values are computed as needed.

This report is prepared in the R environment using a collection of packages know as Sweave that included knitr which in turn feeds the package into LATEX  $2_{\varepsilon}$  a typeseting program to produce a PDF file. LATEX  $2_{\varepsilon}$  in implented in MiTeX. LATEX  $2_{\varepsilon}$  is utilizing the following packages to control style and formating:

- datetime and
- multitoc

This will only show a point in time summary and no trends.

#### 2 Data and Calculations

#### 2.1 Data

A seperate data dictionary will be prepared to for both the source data and computed values stored in R.

#### 2.2 Calculations

All calculations presented here have not been implemented in R as formulas.

## 3 Work Yet to be Completed

#### 3.1 Formula

Some calculations would be better implemented as formulas. The calculations need to be evulated and the formulas developed where needed.

#### 3.2 Trending

Eventually the "System" will be updated to select the data on a for a calander month. After processing the resulots will be stored in a seperate file. This will allow for longer term trending of this data.

#### 3.2.1 Graphs

When "trending" is implented graphs of the trends will also be added.

 $<sup>^2</sup>$ RStudio is utilized as an IDE

## 4 Quanity Metrics

#### 4.1 Application supported

This is a list of all application support this period.

Note: Alphabatize the list

- [1] "GS Reports"
- [2] "DARA Filler DHM and RU"
- [3] "CMSNext"
- [4] "EP Evaluator"
- [5] "TrendReader"
- [6] "CMSnext"
- [7] "GDSN/GS1"
- [8] "Alinity S Non-LIMS spreadsheets"
- [9] "WWLIMS"
- [10] "DFCS"
- [11] "IRIS"
- [12] "Pulse"
- [13] "Knowledge Management"
- [14] "ADD Shop Floor Paper (SFP) Report System"
- [15] "eNovator"

## 4.2 Number of Projects

The total number of projects worked on in this period. This may differ from the application list because some applications may have more than one project in the periond.

[1] 28

#### 4.3 Number of Reviews

This is the number of items reviewed, a document will be counted more than once if it is reviewed more than once.

[1] 176

## 4.4 Number of Items Reviewed

This is the number of unique items reviewed, each item is only counted once regardless of how many times it is reviewed.

**Note:** This is reporting low due to certian items having no way to descrimate between such as multiple executions of the same test script or results from an IIVP run on different computers within the same project.

[1] 134

## 4.5 Number of Projects Started

The point at which a project is started is when version 1 of the *Software Change Request* is approved.

**Note:** This now counts ML type projects (Metrics Library and GS Reports) using the Project Plan as the point that a project starts.

[1] 8

#### 4.6 Projects Completed

The point at which a project is considered completed is when version 1 of the *System Certification Summary* is approved.

**Note:** now counts GS (Global Service) Reports Move to Production as the end of project.

[1] 7

## 4.7 Number Of Deliverables by Type

This is unique for each deliverable. It only counts each document once so a deliverable that is disapproved and then approved is only counted once.

Cancellation	CII
2	10
Decommissioning Report	Design Documentation
0	0
Design Verification	ERES
4	1
FRS	IDP
1	5
IIVP	IIVP results
10	21
IIVP Results	ISSD
0	2
Maintenance Plan	Move to Production
2	4
Other	Project Plan
1	6
Release Notes	Risk Assessment
0	1
Software Change Request	Software Compliance Assessment
8	1
System Certification Summary	Test Protocol
5	17
Test Protocol Results	Traceability
14	9

URS				URS/FRS
3				0
User Acceptance Protocol	User	Acceptance	${\tt Protocol}$	results
1				4
Validation Plan				
2				

## 4.8 Number of Deliverable by Application

This is the number of unique deliverables that each application submitted. Itonly counts each document once, regardless of the status.

```
Abbott Transfusion Medicine
ADD Shop Floor Paper (SFP) Report System
                                      AFMS
                                         0
         Alinity S Non-LIMS spreadsheets
                 Alinity Source Verifier
                                         0
                                       AMM
                                         0
                                AP 24 CIP
                               Apollo/PHM
                      Assay File Database
           BioCommand Batch Control Plus
                                  {\tt CMSnext}
                                         1
                                   CMSNext
                  DARA Filler DHM and RU
                                         7
                                  DaVinci
                                         0
                                     DFCS
                                         9
                                       DPW
                                         0
                                      EDMS
                                         0
```

```
eNovator
        EP Evaluator
            GDSN/GS1
           Groninger
          GS Reports
           ideaPoint
                IRIS
Knowledge Management
     Metrics Library
           Navigator
             PCN/SCN
                   0
                PEAR
            Power BI
     Print on Demand
               Pulse
                QIMS
     Reliasoft Xfmea
               RSLMS
                   0
                 SAS
                   0
        TestComplete
                TODS
                   0
         TrendReader
                  13
              WWLIMS
                  36
```

## 4.9 Number of Approvals, Disapprovals, and First Pass Approvals

A A-FP D 33 100 43

## 4.10 Table of Deliverables by Application

	Cancellation	CII
Abbott Transfusion Medicine	0	0
ADD Shop Floor Paper (SFP) Report System	0	0
AFMS	0	0
Alinity S Non-LIMS spreadsheets	0	0
Alinity Source Verifier	0	0
AMM	0	0
AP 24 CIP	0	0
Apollo/PHM	0	-
Assay File Database	0	0
BioCommand Batch Control Plus	0	0
CMSnext	0	0
CMSNext	1	3
DARA Filler DHM and RU	0	2
DaVinci	0	0
DFCS	0	0
DPW	0	0
EDMS	0	0
eNovator	0	0
EP Evaluator	0	0
GDSN/GS1	0	0
Groninger	0	0
GS Reports	0	0
ideaPoint	0	0
IRIS	0	0
Knowledge Management	0	0
Metrics Library	0	0
Navigator	0	0
PCN/SCN	0	0
PEAR	0	0
Power BI	0	0
Print on Demand	0	0
Pulse	0	0
QIMS	0	0
Reliasoft Xfmea	0	0
RSLMS	0	0
SAS	0	0
TestComplete	0	0

TODS	0	0
TrendReader	1	1
WWLIMS	0	4

#### Decommissioning Report Abbott Transfusion Medicine ADD Shop Floor Paper (SFP) Report System 0 AFMS 0 Alinity S Non-LIMS spreadsheets 0 Alinity Source Verifier 0 AMM 0 AP 24 CIP 0 Apollo/PHM 0 Assay File Database 0 BioCommand Batch Control Plus 0 ${\tt CMSnext}$ 0 CMSNext 0 DARA Filler DHM and RU 0 0 DaVinci **DFCS** 0 DPW 0 **EDMS** 0 eNovator 0 EP Evaluator 0 GDSN/GS1 0 Groninger 0 **GS** Reports 0 ideaPoint 0 IRIS 0 Knowledge Management 0 Metrics Library 0 Navigator 0 PCN/SCN 0 PEAR 0 Power BI 0 Print on Demand 0 Pulse 0 QIMS 0 Reliasoft Xfmea 0 RSLMS 0 SAS 0 ${\tt TestComplete}$ 0 TODS 0 TrendReader 0 WWLIMS 0

	Design	Documentation	1		
Abbott Transfusion Medicine	Design	O O			
ADD Shop Floor Paper (SFP) Report System		0			
AFMS		0			
		0			
Alinity S Non-LIMS spreadsheets		0			
Alinity Source Verifier					
AMM		0			
AP 24 CIP		0			
Apollo/PHM					
Assay File Database		0			
BioCommand Batch Control Plus		0			
CMSnext		0			
CMSNext		0			
DARA Filler DHM and RU		0			
DaVinci		0			
DFCS		0			
DPW		0			
EDMS		0			
eNovator		0			
EP Evaluator		0			
GDSN/GS1		0			
Groninger		0			
GS Reports		0			
ideaPoint		0	)		
IRIS		0	)		
Knowledge Management		0	)		
Metrics Library		0	)		
Navigator		0	)		
PCN/SCN		0	)		
PEAR		0	)		
Power BI		0	)		
Print on Demand		0	)		
Pulse		0	)		
QIMS		0	)		
Reliasoft Xfmea		0	)		
RSLMS		0	)		
SAS		0	)		
TestComplete		0	)		
TODS		0	)		
TrendReader		0	)		
WWLIMS		0	)		
	Design	Verification	ERES	FRS	IDP
Abbott Transfusion Medicine		0	0	0	0
ADD Shop Floor Paper (SFP) Report System		0	0	0	0
AFMS		0	0	0	0

Alinity S Non-LIMS spreadsheets				0	0	0	0
Alinity Source Verifier				0	0	0	0
AMM				0	0	0	0
AP 24 CIP				0	0	0	0
Apollo/PHM				0	0	0	0
Assay File Database				0	0	0	0
BioCommand Batch Control Plus				0	0	0	0
CMSnext				0	0	0	1
CMSNext				2	0	0	1
DARA Filler DHM and RU				0	0	0	1
DaVinci				0	0	0	0
DFCS				0	0	0	0
DPW				0	0	0	0
EDMS				0	0	0	0
eNovator				0	0	0	1
EP Evaluator				0	1	0	0
GDSN/GS1				0	0	1	0
				0		0	0
Groninger					0		
GS Reports ideaPoint				0	0	0	0
				0	0	0	0
IRIS				0	0	0	0
Knowledge Management				0	0	0	0
Metrics Library				0	0	0	0
Navigator				0	0	0	0
PCN/SCN				0	0	0	0
PEAR				0	0	0	0
Power BI				0	0	0	0
Print on Demand				0	0	0	0
Pulse				0	0	0	0
QIMS				0	0	0	0
Reliasoft Xfmea				0	0	0	0
RSLMS				0	0	0	0
SAS				0	0	0	0
TestComplete				0	0	0	0
TODS				0	0	0	0
TrendReader				0	0	0	0
WWLIMS				2	0	0	1
		IIVP	results	IIVP	Res		
Abbott Transfusion Medicine	0		0			0	0
ADD Shop Floor Paper (SFP) Report System			0			0	0
AFMS	0		0			0	0
Alinity S Non-LIMS spreadsheets	0		0			0	0
Alinity Source Verifier	0		0			0	0
AMM	0		0			0	0
AP 24 CIP	0		0			0	0

Apollo/PHM	0	0	0	0
Assay File Database	0	0	0	0
BioCommand Batch Control Plus	0	0	0	0
CMSnext	0	0	0	0
CMSNext	1	5	0	1
DARA Filler DHM and RU	2	2	0	0
DaVinci	0	0	0	0
DFCS	0	0	0	0
DPW	0	0	0	0
EDMS	0	0	0	0
eNovator	0	0	0	0
EP Evaluator	0	0	0	0
GDSN/GS1	0	0	0	0
Groninger	0	0	0	0
GS Reports	0	0	0	0
ideaPoint	0	0	0	0
IRIS	2	0	0	0
Knowledge Management	0	0	0	1
Metrics Library	0	0	0	0
Navigator	0	0	0	0
PCN/SCN	0	0	0	0
PEAR	0	0	0	0
Power BI	0	0	0	0
Print on Demand	0	0	0	0
Pulse	0	0	0	0
QIMS	0	0	0	0
Reliasoft Xfmea	0	0	0	0
RSLMS	0	0	0	0
SAS	0	0	0	0
TestComplete	0	0	0	0
TODS	0	0	0	0
TrendReader	1	3	0	0
WWLIMS	3	11	0	0
	Maintenance		to Productio	n
Abbott Transfusion Medicine		0		0
ADD Shop Floor Paper (SFP) Report System		0		0
AFMS		0		0
Alinity S Non-LIMS spreadsheets		0		0
Alinity Source Verifier		0		0
AMM		0		0
AP 24 CIP		0		0
Apollo/PHM		0		0
Assay File Database		0		0
BioCommand Batch Control Plus		0		0

 ${\tt CMSnext}$ 

CMSNext			1			0
DARA Filler DHM and RU			0			0
DaVinci			0			0
DFCS			0			0
DPW			0			0
EDMS			0			0
eNovator			0			0
EP Evaluator			0			0
GDSN/GS1			0			0
Groninger			0			0
GS Reports			0			4
ideaPoint			0			0
IRIS			0			0
Knowledge Management			0			0
Metrics Library			0			0
Navigator			0			0
PCN/SCN			0			0
PEAR			0			0
Power BI			0			0
Print on Demand			0			0
Pulse			0			0
QIMS			0			0
Reliasoft Xfmea			0			0
RSLMS			0			0
SAS			0			0
TestComplete			0			0
TODS			0			0
TrendReader			1			
						0
WWLIMS			0			0
	0+1	D	D1	D-1	M-+	
Abbatt Turnefusion Madiains		Project		Release		
Abbott Transfusion Medicine	0		0		0	
ADD Shop Floor Paper (SFP) Report System	0		0		0	
AFMS	0		0		0	
Alinity S Non-LIMS spreadsheets	0		0		0	
Alinity Source Verifier	0		0		0	
AMM	0		0		0	
AP 24 CIP	0		0		0	
Apollo/PHM	0		0		0	
Assay File Database	0		0		0	
BioCommand Batch Control Plus	0		0		0	
CMSnext	0		0		0	
CMSNext	1		0		0	
DARA Filler DHM and RU	0		0		0	
DaVinci	0		0		0	
DFCS	0		2		0	
== <del></del>	•		_		·	

DPW	0	0	0
EDMS	0	0	0
eNovator	0	0	0
EP Evaluator	0	0	0
GDSN/GS1	0	0	0
Groninger	0	0	0
GS Reports	0	4	0
ideaPoint	0	0	0
IRIS	0	0	0
Knowledge Management	0	0	0
Metrics Library	0	0	0
Navigator	0	0	0
PCN/SCN	0	0	0
PEAR	0	0	0
Power BI	0	0	0
Print on Demand	0	0	0
Pulse	0	0	0
QIMS	0	0	0
Reliasoft Xfmea	0	0	0
RSLMS	0	0	0
SAS	0	0	0
TestComplete	0	0	0
TODS	0	0	0
TrendReader	0	0	0
WWLIMS	0	0	0

#### Risk Assessment

Abbott Transfusion Medicine	0
ADD Shop Floor Paper (SFP) Report System	0
AFMS	0
Alinity S Non-LIMS spreadsheets	0
Alinity Source Verifier	0
AMM	0
AP 24 CIP	0
Apollo/PHM	0
Assay File Database	0
BioCommand Batch Control Plus	0
CMSnext	0
CMSNext	0
DARA Filler DHM and RU	0
DaVinci	0
DFCS	0
DPW	0
EDMS	0
eNovator	0
EP Evaluator	0

GDSN/GS1	0
Groninger	0
GS Reports	0
ideaPoint	0
IRIS	0
Knowledge Management	0
Metrics Library	0
Navigator	0
PCN/SCN	0
PEAR	0
Power BI	0
Print on Demand	0
Pulse	0
QIMS	0
Reliasoft Xfmea	0
RSLMS	0
SAS	0
TestComplete	0
TODS	0
TrendReader	1
WWLIMS	0

## Software Change Request

Abbott Transfusion Medicine	0
ADD Shop Floor Paper (SFP) Report System	0
AFMS	0
Alinity S Non-LIMS spreadsheets	1
Alinity Source Verifier	0
AMM	0
AP 24 CIP	0
Apollo/PHM	0
Assay File Database	0
BioCommand Batch Control Plus	0
CMSnext	0
CMSNext	1
DARA Filler DHM and RU	0
DaVinci	0
DFCS	2
DPW	0
EDMS	0
eNovator	0
EP Evaluator	0
GDSN/GS1	0
Groninger	0
GS Reports	0
ideaPoint	0

IRIS	0
Knowledge Management	0
Metrics Library	0
Navigator	0
PCN/SCN	0
PEAR	0
Power BI	0
Print on Demand	0
Pulse	1
QIMS	0
Reliasoft Xfmea	0
RSLMS	0
SAS	0
TestComplete	0
TODS	0
TrendReader	2
WWLIMS	1

## Software Compliance Assessment

	boroward comprisance	Hobobbincho
Abbott Transfusion Medicine		0
ADD Shop Floor Paper (SFP) Report System	l	0
AFMS		0
Alinity S Non-LIMS spreadsheets		0
Alinity Source Verifier		0
AMM		0
AP 24 CIP		0
Apollo/PHM		0
Assay File Database		0
BioCommand Batch Control Plus		0
CMSnext		0
CMSNext		0
DARA Filler DHM and RU		0
DaVinci		0
DFCS		0
DPW		0
EDMS		0
eNovator		0
EP Evaluator		0
GDSN/GS1		0
Groninger		0
GS Reports		0
ideaPoint		0
IRIS		0
Knowledge Management		0
Metrics Library		0
Navigator		0

PCN/SCN				0
PEAR				0
Power BI				0
Print on Demand				0
Pulse				0
QIMS				0
Reliasoft Xfmea				0
RSLMS				0
SAS				0
TestComplete				0
TODS				0
TrendReader				0
WWLIMS				1
	System	Certification	Summary	
Abbott Transfusion Medicine			0	
ADD Shop Floor Paper (SFP) Report System			0	
AFMS			0	
Alinity S Non-LIMS spreadsheets			0	
Alinity Source Verifier			0	
AMM			0	
AP 24 CIP			0	
Apollo/PHM			0	
Assay File Database			0	
BioCommand Batch Control Plus			0	
CMSnext			0	
CMSNext			2	
DARA Filler DHM and RU			0	
DaVinci			0	
DFCS			1	
DPW			0	
EDMS			0	
eNovator			0	
EP Evaluator			0	
GDSN/GS1			0	
Groninger GS Remarks			0	
GS Reports			0	
ideaPoint			0	
IRIS Knowledge Management			0	
Metrics Library			0	
Navigator			0	
PCN/SCN			0	
PEAR			0	
Power BI			0	
Print on Demand			0	
			U	

Pulse	0
QIMS	0
Reliasoft Xfmea	0
RSLMS	0
SAS	0
TestComplete	0
TODS	0
TrendReader	0
WWLIMS	1

#### Test Protocol Test Protocol Results Abbott Transfusion Medicine ADD Shop Floor Paper (SFP) Report System AFMS Alinity S Non-LIMS spreadsheets Alinity Source Verifier MMAAP 24 CIP Apollo/PHM Assay File Database BioCommand Batch Control Plus CMSnext ${\tt CMSNext}$ DARA Filler DHM and RU DaVinci **DFCS** DPW **EDMS** eNovatorEP Evaluator GDSN/GS1 Groninger **GS** Reports ideaPointIRIS Knowledge Management Metrics Library Navigator PCN/SCN PEAR Power BI Print on Demand Pulse QIMS Reliasoft Xfmea RSLMS

SAS	0	0
TestComplete	0	0
TODS	0	0
TrendReader	2	0
WWLIMS	2	5

	Traceability	URS	URS/FRS
Abbott Transfusion Medicine	0	0	0
ADD Shop Floor Paper (SFP) Report System	0	0	0
AFMS	0	0	0
Alinity S Non-LIMS spreadsheets	0	1	0
Alinity Source Verifier	0	0	0
AMM	0	0	0
AP 24 CIP	0	0	0
Apollo/PHM	0	0	0
Assay File Database	0	0	0
BioCommand Batch Control Plus	0	0	0
CMSnext	0	0	0
CMSNext	2	0	0
DARA Filler DHM and RU	0	0	0
DaVinci	0	0	0
DFCS	0	0	0
DPW	0	0	0
EDMS	0	0	0
eNovator	0	0	0
EP Evaluator	0	0	0
GDSN/GS1	1	0	0
Groninger	0	0	0
GS Reports	0	0	0
ideaPoint	0	0	0
IRIS	0	0	0
Knowledge Management	0	0	0
Metrics Library	0	0	0
Navigator	0	0	0
PCN/SCN	0	0	0
PEAR	0	0	0
Power BI	0	0	0
Print on Demand	0	0	0
Pulse	4	0	0
QIMS	0	0	0
Reliasoft Xfmea	0	0	0
RSLMS	0	0	0
SAS	0	0	0
TestComplete	0	0	0
TODS	0	0	0
TrendReader	0	1	0

WWLIMS 2 1 0

			D . 1
Abbatt Transfersion Madiains	user	Acceptance	
Abbott Transfusion Medicine			0
ADD Shop Floor Paper (SFP) Report System			0
AFMS			0
Alinity S Non-LIMS spreadsheets			0
Alinity Source Verifier			0
AP 24 CIP			0
Apollo/PHM			0
Assay File Database			0
BioCommand Batch Control Plus			0
CMSnext			0
CMSNext			0
DARA Filler DHM and RU			0
DaVinci			0
DFCS			1
DPW			0
EDMS			0
eNovator			0
EP Evaluator			0
GDSN/GS1			0
Groninger			0
GS Reports			0
ideaPoint			0
IRIS			0
Knowledge Management			0
Metrics Library			0
Navigator			0
PCN/SCN			0
PEAR			0
Power BI			0
Print on Demand			0
Pulse			0
QIMS			0
Reliasoft Xfmea			0
RSLMS			0
SAS			0
TestComplete			0
TODS			0
TrendReader			0
WWLIMS			0

User Acceptance Protocol results

Abbott Transfusion Medicine

ADD Shop Floor Paper (SFP) Report System	0
AFMS	0
Alinity S Non-LIMS spreadsheets	0
Alinity Source Verifier	0
AMM	0
AP 24 CIP	0
Apollo/PHM	0
Assay File Database	0
BioCommand Batch Control Plus	0
CMSnext	0
CMSNext	0
DARA Filler DHM and RU	0
DaVinci	0
DFCS	3
DPW	0
EDMS	0
eNovator	0
EP Evaluator	0
GDSN/GS1	0
Groninger	0
GS Reports	0
ideaPoint	0
IRIS	0
Knowledge Management	0
Metrics Library	0
Navigator	0
PCN/SCN	0
PEAR	0
Power BI	0
Print on Demand	0
Pulse	0
QIMS	0
Reliasoft Xfmea	0
RSLMS	0
SAS	0
TestComplete	0
TODS	0
TrendReader	0
WWLIMS	1

## Validation Plan

Abbott Transfusion Medicine	0
ADD Shop Floor Paper (SFP) Report System	0
AFMS	0
Alinity S Non-LIMS spreadsheets	0
Alinity Source Verifier	0

AMM	0
AP 24 CIP	0
Apollo/PHM	0
Assay File Database	0
BioCommand Batch Control Plus	0
CMSnext	0
CMSNext	0
DARA Filler DHM and RU	0
DaVinci	0
DFCS	0
DPW	0
EDMS	0
eNovator	0
EP Evaluator	0
GDSN/GS1	1
Groninger	0
GS Reports	0
ideaPoint	0
IRIS	0
Knowledge Management	0
Metrics Library	0
Navigator	0
PCN/SCN	0
PEAR	0
Power BI	0
Print on Demand	0
Pulse	0
QIMS	0
Reliasoft Xfmea	0
RSLMS	0
SAS	0
TestComplete	0
TODS	0
TrendReader	0
WWLIMS	1

## 4.11 Table of Rejection Reasons

Incorrect scope	Inaccurate information
0	21
Insufficient traceability	Insufficient testing
4	1
Not compliant with procedure	N/A
8	2
Not following document version control	Not following configuration management
1	0

Not using template	Other
2	3
Requirement deficiency	
0	

## 4.12 Defects Verses Application

·		
	Inaccurate information Incorrec	t scope
Alinity S Non-LIMS spreadsheets	0	0
CMSnext	1	0
CMSNext	9	0
DFCS	1	0
eNovator	0	0
GDSN/GS1	2	0
Knowledge Management	0	0
Pulse	3	0
TrendReader	1	0
WWLIMS	4	0
	Insufficient testing	
Alinity S Non-LIMS spreadsheets	0	
CMSnext	0	
CMSNext	1	
DFCS	0	
eNovator	0	
GDSN/GS1	0	
Knowledge Management	0	
Pulse	0	
TrendReader	0	
WWLIMS	0	
	Insufficient traceability N/A	
Alinity S Non-LIMS spreadsheets	1 0	
CMSnext	0 0	
CMSNext	3 2	
DFCS	0 0	
eNovator	0 0	
GDSN/GS1	0 0	
Knowledge Management	0 0	
Pulse	0 0	
TrendReader	0 0	
WWLIMS	0 0	
	Not compliant with procedure	
Alinity S Non-LIMS spreadsheets	1	
CMSnext	0	

Pulse0TrendReader0WWLIMS0	
Not following configuration ma	nagement
Alinity S Non-LIMS spreadsheets	0
CMSnext	0
CMSNext DFCS	0
eNovator	0
GDSN/GS1	0
Knowledge Management	0
Pulse	0
TrendReader	0
WWLIMS	0
Not following document version Alinity S Non-LIMS spreadsheets CMSnext CMSNext	0 0 0
DFCS	0
eNovator GDSN/GS1	1
Knowledge Management	0
Pulse	0
TrendReader	0
WWLIMS	0
Not using template Other	
Not using template Other Alinity S Non-LIMS spreadsheets 0 1	
Alinity S Non-LIMS spreadsheets 0 1 CMSnext 0 0 CMSNext 0 2	
Alinity S Non-LIMS spreadsheets       0       1         CMSnext       0       0         CMSNext       0       2         DFCS       0       0	
Alinity S Non-LIMS spreadsheets       0       1         CMSnext       0       0         CMSNext       0       2         DFCS       0       0         eNovator       0       0	
Alinity S Non-LIMS spreadsheets 0 1  CMSnext 0 0  CMSNext 0 2  DFCS 0 0  eNovator 0 0  GDSN/GS1 0 0	
Alinity S Non-LIMS spreadsheets 0 1  CMSnext 0 0  CMSNext 0 2  DFCS 0 0  eNovator 0 0  GDSN/GS1 0 0  Knowledge Management 0 0	
Alinity S Non-LIMS spreadsheets 0 1  CMSnext 0 0  CMSNext 0 2  DFCS 0 0  eNovator 0 0  GDSN/GS1 0 0  Knowledge Management 0 0	

Requirement deficiency

Alinity S Non-LIMS spreadsheets	0
CMSnext	0
CMSNext	0
DFCS	0
eNovator	0
GDSN/GS1	0
Knowledge Management	0
Pulse	0
TrendReader	0
WWLIMS	0

## 4.13 Defects Verses Deliverable

> table(as.character(subset(FPA, subset = (status == "D"))\$deliverable),
+ subset(FPA, subset = (status == "D"))\$reason)

Inaccurate	information	Incorrect	scope
CII	0		0
Design Verification	0		0
IDP	1		0
IIVP results	1		0
ISSD	0		0
Maintenance Plan	0		0
Other	0		0
Project Plan	1		0
Software Change Request	5		0
Software Compliance Assessment	1		0
System Certification Summary	5		0
Test Protocol	3		0
Test Protocol Results	1		0
Traceability	0		0
URS	0		0
Validation Plan	3		0

	Insufficient testi:	ng Insufficient	traceability
CII		0	0
Design Verification		0	0
IDP		0	0
IIVP results		0	0
ISSD		0	0
Maintenance Plan		0	0
Other		0	0
Project Plan		0	0
Software Change Request		0	0
Software Compliance Assessment		0	0
System Certification Summary		0	0

Test Protocol Test Protocol Results Traceability URS Validation Plan		1 0 0 0 0	
CII	N/A O	Not compliant with procedure 0	
Design Verification	0		
IDP	0		
IIVP results	0	0	
ISSD	0	0	
Maintenance Plan	0	1	
Other	0	1	
Project Plan	0	0	
Software Change Request	1	0	
Software Compliance Assessment	0	0	
System Certification Summary	1		
Test Protocol	0		
Test Protocol Results	0		
Traceability	0		
URS Validation Plan	0		
Validation Plan	U	0	
	Not	following configuration management	
CII		0	
Design Verification		0	
IDP		0	
IIVP results		0	
ISSD		0	
Maintenance Plan		0	
Other		0	
Project Plan		0	
Software Change Request		0	
Software Compliance Assessment		0	
System Certification Summary Test Protocol		0	
Test Protocol Results		0	
Traceability		0	
URS		0	
Validation Plan			
varidation rian		0	
varidation i fan		0	
varidation rian	Not	following document version control	
CII	Not		
	Not	following document version control	

IIVP results		0
ISSD		0
Maintenance Plan		0
Other		0
Project Plan		0
Software Change Request		0
Software Compliance Assessment		0
System Certification Summary		0
Test Protocol		0
Test Protocol Results		0
Traceability		0
URS		0
Validation Plan		0
	Not using template Other	

	Not	using	template	Other
CII			1	0
Design Verification			0	0
IDP			0	0
IIVP results			0	0
ISSD			0	1
Maintenance Plan			1	0
Other			0	0
Project Plan			0	0
Software Change Request			0	0
Software Compliance Assessment			0	0
System Certification Summary			0	0
Test Protocol			0	2
Test Protocol Results			0	0
Traceability			0	0
URS			0	0
Validation Plan			0	0

	Requirement	deficiency
CII		0
Design Verification		0
IDP		0
IIVP results		0
ISSD		0
Maintenance Plan		0
Other		0
Project Plan		0
Software Change Request		0
Software Compliance Assessment		0
System Certification Summary		0
Test Protocol		0
Test Protocol Results		0

Traceability	0
URS	0
Validation Plan	0

## 4.14 Rejection Reason by Deliverable

CIT	Danima Vanifiantian
CII	Design Verification
1	2
IDP	IIVP results
3	1
ISSD	Maintenance Plan
1	2
Other	Project Plan
1	1
Software Change Request	Software Compliance Assessment
7	1
System Certification Summary	Test Protocol
7	8
Test Protocol Results	Traceability
1	3
URS	Validation Plan
1	3

## 4.15 Number of Rejections by Project

Alinity S Non-LIMS spreadsheets	CMSnext
3	1
CMSNext	DFCS
22	1
eNovator	GDSN/GS1
1	3
Knowledge Management	Pulse
1	3
TrendReader	WWLIMS
4	4

## 5 Rate Metrics

## 5.1 Document Approval Rate

This is portion of documents that are approved upon review.

It is computed by counting the number of approvals devided that by the total number of reviews.

#### [1] 0.7556818

## 5.2 First Pass Acceptance

this is the portion of documents that are approved on the first review conducted by SQA.

It is computed by counting the number of first pass approvals devided by the number of reviews.

[1] 0.5681818