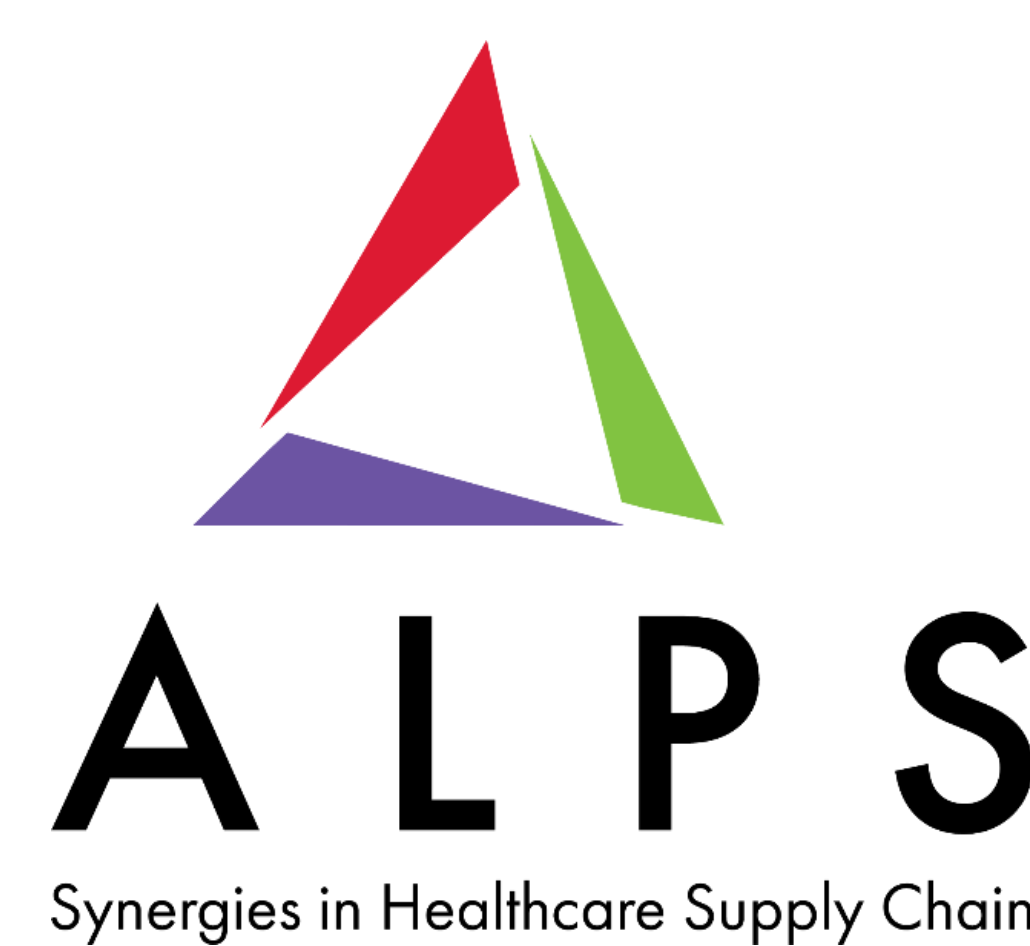


# ALPS Data Management System

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## Singapore Healthcare Management 2023

### Introduction

#### Why Data Management is Important?

As data is used to provide insights and make critical decisions, it has become the lifeblood in many organizations.

#### What are the Challenges in Data Management?

Due to the lack of investments in an automated system or available customized solutions, most organizations adopted a laborious data collating process

### Aim

#### Establish new workflow that offers the following benefits:

- Eliminate staff fatigue as a result of tracking of events and collating of data
- Significantly reduce man-hours to support monthly management reporting *i.e. Contracts Update, Progress and Savings Performance Update*
- Man-hours saved allows staff to spend time on more purposeful activities. *i.e. vendor and stakeholder engagements, building domain expertise*
- Supports development of ALPS Dashboard. Purpose is to share Data Analytics with staff and stakeholders at the hospitals

### Results

#### 1 Eliminated staff fatigue and significantly reduced man-hours by automating the process to collate, track and report data

##### Track Progress of Events

Process Flow	Data Entry	Data Collation	Track and Report
Before	Manual (1 man-hour)	Manual (8 man-hours)	Manual (16 man-hours)
After	Manual (0.5 man-hour)	Automate (0 man-hour*)	Automate (0 man-hour*)
Changes	Man-hours reduced by 50%	Man-hours reduced by 100%	Man-hours reduced by 100%

\*Staff do not need to be present to perform the task. System takes 34 mins to collate, track and report data

Automated Data Fields														
Description	Institution	Activity	RFP Number	PIC	Budget	Qty	RFP Date	Award Date	Time Elapsed (Man-days)	Time Remain (Man-days)	Stage	Current Status	Date	Act.
Oximeters, Pulse, Bedside	WHC	S2C	GPMQ01522	HweeMin	X\$36,384	25	19-Aug-22		215.6	4.4	10	Seek Mgmt Approval	26-May-23	update
Ventilators, NIV, CPAP	WHC	2C	GPMQ02821	Janet	XXXXX\$0	0	02-Mar-22		340.3	37.4	8	Price Nego. Mtg	30-Jun-23	

System track progress of events. It sends email reminders to staff and auto-generate weekly progress updates to team

Auto track & trigger staff to Act: Staff to check & update schedule when they missed the timeline

Bryan Lee Chan Yin (ALPS) | Schedule Update required for Oximeters, Pulse, Bedside GPMQ01522

Workplan Update.pdf (538 KB)

Hi HweeMin, please update your RFP schedule for Oximeters, Pulse, Bedside GPMQ01522. Let me know after you have updated the schedule. Thanks, Bryan

Status	Started	Completed	New Contracts	Pre-RFP	Sourcing	Evaluation	Negotiation	Approval	Contract
New Contracts (S2C,S2C-2C, 2C)	36	2	S2C: Sourcing to Contract (Award recommended by PH)						
Contracts Support	4	1	S2C-2C: Sourcing to Contract (Award recommended by ALPS)						

Description	Institution	Activity	RFP Number	Category Lead	Qty	RFP Date	Contract Start	Time Elapsed (Man-days)	Process Stage	Progress Status	Target Award	Vendor	Progress Status
1 Radiographic Systems, Dental	SGH	S2C	GPMR03622	Jimmy	1	03-Jun-22	28-Apr-23	241.3	11	Sign Contracts & LOA	28-Apr-23	PHI	Contract
2 Scanning Systems, Ultrasonic, Portable	WHC	S2C	GPMR05521	Janet	2	24-Sep-21	25-Apr-23	423.9	11	Sign Contracts & LOA	25-Apr-23	PHI	Contract
3 Oximeters, Pulse, Bedside	WHC	S2C	GPMQ01522	HweeMin	25	19-Aug-22		215.6	10	Seek Mgmt Approval	15-Jun-23		Approval

1st week of each month, System auto-generates progress update status report and email to all stakeholders. Purpose is to empower them make better decisions with visibility of the progress

Progress Status Update.pdf (142 KB)

Hi Folks! Please refer attached Progress Status Update. From: ALPS SP

#### Challenges in ALPS Strategic Procurement, Med Tech

- Laborious manual process to track and collate data resulted in staff fatigue and low morale
- Manual data entry are prone to human errors. Inaccurate data entered into the system produces erroneous reports
- Reporting progress updates to stakeholders and management reporting is a time consuming and laborious routine.

### Methodology

- 1 Using Visual Basic (VB) programming to automate activities or processes in the new workflow:
- 2 Automate the transformation of Level 1 data inputs to serve different data needs or purposes as required by stakeholders
- 3 Automate data collation to support management reporting. Automate notifications for Contracts and Progress Update
- 4 Produces a Database that supports the development of ALPS Pyramid Dashboard under the Tableau platform

#### Contracts Management and Track Contract Expiry

Process Flow	Data Entry	Track and Report	Data Accuracy
Before	Manual (0.2 man-hour)	Manual (96 man-hours)	50% (human error)
After	Manual (0.2 man-hour)	Automate (0 man-hour*)	100% (no human error)
Changes	No change	Man-hours reduced by 100%	100% accuracy

\*Staff do not need to be present to perform the task. System takes 57secs to complete track and report

ALPS National Term Contracts								93	Link to Contract Documents	12 June, 2023
Description	Vendor Name	ContractID	Model Description	Contract Effective	Contract Expiry	Option Year	DRS LINK	ACT6M Status		
Anesthesia Units	GEINGE	GPMQ03821	Flow-I C20	31-May-22	30-May-25	2	<a href="http://infopedia/sites/ALPS/FFE/Documents/Term%20Contracts/Anesthesia%20Units/FY21/GPMQ03821">http://infopedia/sites/ALPS/FFE/Documents/Term%20Contracts/Anesthesia%20Units/FY21/GPMQ03821</a>	Active		
Bronchoscopes, Flexible, Video Monitor	GEINGE	GPMQ12820-G	aView Monitor & Bronchoscope	31-Aug-21	30-Aug-26	2	<a href="http://infopedia/sites/ALPS/FFE/Documents/Term%20Contracts/Bronchoscopes%20Flexible%20Video/FY20/GPMQ12820-G">http://infopedia/sites/ALPS/FFE/Documents/Term%20Contracts/Bronchoscopes%20Flexible%20Video/FY20/GPMQ12820-G</a>	Active		
Cabinets, Biological Safety	GEINGE	GPMR05017-E	6 Feet BSC with swivel arms, 4 Feet BSC with swivel arms	15-Oct-18	14-Oct-23	0	<a href="http://infopedia/sites/ALPS/FFE/Documents/Term%20Contracts/Cabinets%20Biological%20Safety/FY17/GPMR05017-E">http://infopedia/sites/ALPS/FFE/Documents/Term%20Contracts/Cabinets%20Biological%20Safety/FY17/GPMR05017-E</a>	Expiring		

System track contract expiry & email notifications to stakeholders monthly, for 6 months before contract expires. Remind staff to exercise option year

Bryan Lee Chan Yin (ALPS) | Scanning Systems, MRI, 3T GPMR03918 (P2)-5 from Siemens Healthcare is expiring in 7/30/2023

Term Contract List.pdf (585 KB)

Hello! Please take note that contract for MAGNETOM Vida (3T) is going to expire in 7/30/2023. For contract details, kindly refer to [http://infopedia/sites/ALPS/FFE/Documents/Term%20Contracts/Scanning%20Systems%20MRI/FY18/GPMR03918%20\(P2\)-5](http://infopedia/sites/ALPS/FFE/Documents/Term%20Contracts/Scanning%20Systems%20MRI/FY18/GPMR03918%20(P2)-5)

#### 2 Developed ALPS Data Analytics Dashboard (Tableau) for Management Reporting and share insights with stakeholders

SP Capex FFE Dashboard

FY2022 | Sourcing/Support | Activity | Event

Total 69 Activities | Total 35 Planned Events

Events Started by RFP Date (FY2022)

Events Started: 100.00% | Events Completed: 51.43% | Average Man-days: 208.5/198 | Total Man-days: 631.4

Completed Contract by Awarded Date (FY2022)

Progress update status report generated by the System enables & supports ALPS Pyramid Dashboard. Purpose is to provide insights for staff, stakeholders and facilitate management reporting

Total 43 contracts completed in FY2022  
Total awarded spend: \$18,010,032

### Conclusion:

ALPS Data Management system is able to significantly reduce (1) laborious administrative activities and repetitive tasks, (2) significantly improves efficiency & data accuracy, and (3) enables the creation of ALPS Data Analytics Dashboard!