

Sunward Portal Management System

DOCUMENT INFORMATION

Prepared by	Appcentric Technologies
Client	Sunward
Project Name	Sunward Portal Management System
Prepared by	Arun
Module Name	Planning Master Module
Pages	10

Disclaimer and Confidentiality Statement

This document is a technical reference prepared by **Appcentric Technologies** for the **Sunward Portal Management System** project. It provides detailed information on the system architecture, technical approach, implementation methodology, and related technical specifications.

This document is **confidential** and is intended solely for the internal use of the authorized technical team of **Sunward**.

No part of this document may be copied, modified, distributed, or disclosed to any third party without prior written approval from **Appcentric Technologies**.

Although every effort has been made to ensure the accuracy and reliability of the technical information contained in this document, **Appcentric Technologies** makes no warranties, express or implied, regarding its completeness, accuracy, or suitability for any specific purpose. Users of this document are advised to perform the necessary verification and testing before acting upon any technical details provided herein.

AppCentric
Technologies

Table of Contents

Sunward Portal Management System	1
1. Project Overview	3
2. Objectives	3
3. System Modules & Key Functions	3
3.1 AC Entry	3
3.2 Method Code	3
3.3 Product Grouping.....	4
3.4 Production Simulation	4
3.5 Item Link.....	4
3.6 Tender Orders	5
3.7 Item Master.....	5
4. Functional Components	6
4.1 Data Grid Components	6
4.2 Command Toolbar	6
4.3 Master-Detail Integration.....	6
4.4 NAV Data Integration.....	6
5. Business Logic.....	7
5.1 AC Entry	7
5.2 Method Code Logic	7
5.3 Product Grouping Logic.....	8
5.4 Item Link Logic.....	8
5.5 Production Simulation Logic	9
5.6 Item Master Logic.....	9
6. Summary	10

1. Project Overview

The **Planning Master Module** is a core component of the Sunward Portal System designed to manage planning-related master data, production simulation, tender management, and item cross-referencing between multiple companies. It provides planners, production teams, and supply chain personnel with structured tools to forecast production, maintain item relationships, and ensure accurate planning across regions (Malaysia/Singapore).

2. Objectives

- To centralize all planning-related configurations in one module.
- To optimize production and supply chain forecasting.
- To standardize item codes, methods, and product groups across companies.
- To support long-term and short-term planning using simulation and tender order data.
- To improve coordination between Malaysia and Singapore operations.

3. System Modules & Key Functions

3.1 AC Entry

Purpose:

Maintains customer-specific Agreement Cycles (AC) used for forecasting and planning.

Key Functions:

- Add/Edit/Delete AC records.
- Capture Start Date, End Date, Customer, Company, Version, Remarks.
- Supports Copy, Attachment upload, and Audit Log.

3.2 Method Code

Purpose:

Stores all Method Codes used in regulatory, planning, and production documentation.

Key Functions:

- Add/Edit/Delete Method Name and Method Description.
- Used by Item Master for mapping Method Code to each item.
- Supports grouping, filtering, and audit logging.

3.3 Product Grouping

Purpose:

Defines product groups used for reporting, pricing, and planning.

Key Functions:

- Create and manage product groups with Code, Description, Status.
- Supports filtering, grouping, audit log.
- Used in predicting customer demand and production planning.

3.4 Production Simulation

Purpose:

Simulates production plans by importing production orders from NAV.

Key Functions:

- Sync production orders per company (SWMY/SWSG).
- View order details: Prod No, Item No, Description, Pack Size, Planned Qty, Produced Qty, Batch No, Starting Date.
- Mark primary output using “Is Output”.
- Export simulation data for planning.

3.5 Item Link

Purpose:

Maps equivalent items between Malaysia and Singapore.

Key Functions:

- Link MY Item ↔ SG Item.
- Track Added/Modified information.
- Export cross-company mapping.
- Used in Tender Orders and stock planning.

3.6 Tender Orders

Purpose:

Displays and manages tender orders imported from NAV.

Key Functions:

- View tenders by company.
- Fields include Customer, Document Type, Item No, Description, Outstanding Qty, Promised/Shipped Dates.
- Export & Import Excel.
- Used for long-term production forecasting.

3.7 Item Master

Purpose:

Centralized master list for all items across companies.

Key Functions:

- View items grouped by company.
- Displays Description, Import Reference, Steroid/Non-Steroid, Pack Size, Recommended Factor, Generic Code, Method Code, Inventory.
- Add Pack Method.
- Fully integrated with Method Code & Production Simulation.

AppCentric
Technologies

4. Functional Components

4.1 Data Grid Components

Each module uses DevExpress grids with:

- Sorting
- Filtering
- Grouping
- Searching
- Pagination
- Export to Excel

4.2 Command Toolbar

Standard toolbar options:

- **Add** – create new record
- **Edit** – modify existing
- **Delete** – remove entries
- **Copy** – duplicate AC Entry
- **Sync** – fetch NAV data (Production Simulation / Tender Orders)
- **Attachment** – upload supporting files
- **Audit Log** – view change history

4.3 Master–Detail Integration

Modules are interconnected:

- **Method Code** maps to **Item Master**
- **Item Link** used in **Tender Orders**
- **AC Entry** influences planning simulations
- **Product Grouping** supports reporting

4.4 NAV Data Integration

Some modules fetch data from the NAV OData service:

- Production Simulation
- Tender Orders
- Delivery Orders
- Item Master

NAV company selection ensures correct data isolation.

5. Business Logic

5.1 AC Entry

- Each customer + company may have multiple AC versions.
- Latest version is used in planning forecasts.
- AC entry validity controlled by Start/End date.

Dynamic Dashboard
Dashboard
My Day
Notify JD
Dynamic Dashboard
Notify PA
Application Settings
Settings
Users
HR Masters
Planning Master
AC Entry
Method Code
Product Grouping
Production Simulation
Item Link
Tender Orders
Delivery Order
Item Master
Dist. Items
Syrup Planning
Form

Start Date	End Date	Customer	Company	Version	Remark	Added By	Modified By
15-Jun-2023	31-Mar-2024	Antah Pharma Sdn Bhd	Sunward Malaysia		In-active	Kwee JeeHong	Kwee JeeHong
01-Jul-2023	15-Jun-2024	Medical Supplies (Sarawak) Sdn Bhd	Sunward Malaysia		InActive	Kwee JeeHong	Nur RasyidahBinti Roslan
01-Jul-2023	15-Jun-2024	Medical Supplies (Sarawak) Sdn Bhd	Sunward Singapore		InActive	Soo QingTeoh	Nur RasyidahBinti Roslan
01-Jul-2023	15-Jun-2024	PHARMAEXPRESS Sdn Bhd	Sunward Malaysia		In-active	Kwee JeeHong	Kwee JeeHong
01-Jul-2023	15-Jun-2024	PHARMAEXPRESS Sdn Bhd	Sunward Singapore		In-active	Soo QingTeoh	Kwee JeeHong
01-Aug-2023	31-Dec-2025	APEX PHARMA MARKETING PTE LTD	Sunward Singapore		Active	Kwee JeeHong	Chin HwaWong
01-Aug-2023	30-Jun-2025	APEX PHARMA MARKETING PTE LTD	Sunward Malaysia		Active	Kwee JeeHong	NajwaBinti Ayob
29-Feb-2024	30-Jun-2024	APEX PHARMA MARKETING PTE LTD	Sunward Singapore		Ave. 6 mths as of 31/05/24	Kwee JeeHong	Rui Chin
29-Feb-2024	30-Jun-2024	APEX PHARMA MARKETING PTE LTD	Sunward Malaysia		Ave. 6 mths as of 31/05/24	Kwee JeeHong	Rui Chin
01-Apr-2024	30-Jun-2025	Antah Pharma Sdn Bhd	Sunward Malaysia		InActive	Kwee JeeHong	Chin HwaWong
01-Apr-2024	31-Mar-2025	Antah Pharma Sdn Bhd	Sunward Singapore		InActive	Kwee JeeHong	Chin HwaWong
01-Jul-2024	30-Jun-2025	PHARMAEXPRESS Sdn Bhd	Sunward Malaysia		Active	Kwee JeeHong	Chin HwaWong
Count: 29							

5.2 Method Code Logic

- Method Codes are unique and linked to Item Master.
- Items without Method Code may be restricted in production simulation.

Dynamic Dashboard
Dashboard
My Day
Notify JD
Dynamic Dashboard
Notify PA
Application Settings
Settings
Users
HR Masters
Planning Master
AC Entry
Method Code
Product Grouping
Production Simulation
Item Link
Tender Orders
Delivery Order
Item Master
Dist. Items
Syrup Planning
Form

Method Name	Method Description
APC-NAPRO NA DS Tablet BMP1	APC-NAPRO NA DS Tablet BMP1
Beco Tablet BMP1	Beco Tablet BMP1
Benil Tablet BMP1	Benil Tablet BMP1
Metformin 500 Tablet BMP1	Metformin 500 Tablet BMP1
Bromhexine Tablet BMP1	Bromhexine Tablet BMP1
Calcium Lactate Tablet BMP1	Calcium Lactate Tablet BMP1
Diatrol Tablet BMP1	Diatrol Tablet BMP1
Fenadium F Tablet BMP1	Fenadium F Tablet BMP1
Fenadium Tablet BMP1	Fenadium Tablet BMP1
Fenagesic 500 Tablet BMP1	Fenagesic 500 Tablet BMP1
Ferocom Tablet BMP1	Ferocom Tablet BMP1
Folic Acid Tablet BMP1	Folic Acid Tablet BMP1
Laxodyl Tablet BMP1	Laxodyl Tablet BMP1
Metformin 850 Tablet BMP1	Metformin 850 Tablet BMP1
Mucoclear Tablet BMP1	Mucoclear Tablet BMP1
Mucodin Tablet BMP1	Mucodin Tablet BMP1
Multico Tablet BMP1	Multico Tablet BMP1
Nephrogen Tablet BMP1	Nephrogen Tablet BMP1
Onadrine Tablet BMP1	Onadrine Tablet BMP1
Pamol 500 Tablet BMP1	Pamol 500 Tablet BMP1
Count: 183	

5.3 Product Grouping Logic

- Product Groups define classification for planning.
- Active groups appear across all dropdowns.
- Inactive groups are hidden but retained for audit.

Q Filter...

AC Entry x Method Code x Product Grouping x

+ Add Edit x Delete Audit Log

Drag a column header here to group by that column

Q Enter text to search...

Code	Description	Added By	Modified By	Status Code	Modified Date
<input checked="" type="radio"/> Metformin 500mg Tablet 1000 SWSIN		Soo QingTeoh	Kwee JeeHong	Inactive	17-May-2023
<input type="radio"/> Metformin 500mg Tablet 10X10X10 SWSIN		Soo QingTeoh	Kwee JeeHong	Active	03-Jan-2024
<input type="radio"/> SW Metformin 500mg Tablet 10X10 MY		Soo QingTeoh	Kwee JeeHong	Active	17-May-2023
<input type="radio"/> SW Metformin 500mg Tablet 10X10X10 MY		Soo QingTeoh	Kwee JeeHong	Active	17-May-2023
<input type="radio"/> Apo-Napro-Na DS Tablet 50X10 MY		Soo QingTeoh	Kwee JeeHong	Active	17-May-2023
<input type="radio"/> Beco Tablet 1000 MY		Soo QingTeoh	Kwee JeeHong	Active	17-May-2023
<input type="radio"/> Beco Tablet 1000 SWSIN		Soo QingTeoh	Kwee JeeHong	Active	17-May-2023
<input type="radio"/> Benil Tablet 10X10X10 MY		Soo QingTeoh	Kwee JeeHong	Active	17-May-2023
<input type="radio"/> Walesolone Syrup 100ml MBD		Soo QingTeoh	Kwee JeeHong	Active	17-May-2023
<input type="radio"/> Walesolone Syrup 3.6L SG		Soo QingTeoh	Kwee JeeHong	Active	17-May-2023
<input type="radio"/> SW Bena-Expectorant 3.8L SG		Soo QingTeoh	Kwee JeeHong	Active	17-May-2023
<input type="radio"/> Mendicof Syrup 3.8L SG		Soo QingTeoh	Kwee JeeHong	Active	17-May-2023
<input type="radio"/> Paedico Syrup 3.8L SG		Soo QingTeoh	Kwee JeeHong	Active	17-May-2023
<input type="radio"/> Polaxax Syrup 3.8L SG		Soo QingTeoh	Kwee JeeHong	Active	17-May-2023
<input type="radio"/> Promelix Syrup 3.8L SG		Soo QingTeoh	Kwee JeeHong	Active	17-May-2023
<input type="radio"/> Sunsedyl Cough Linctus 3.8L SG		Soo QingTeoh	Kwee JeeHong	Active	17-May-2023
<input type="radio"/> Sunsedyl Forte Cough Linctus 3.8L		Soo QingTeoh	Kwee JeeHong	Active	17-May-2023
Count: 331					

Dynamic Dashboard
Dashboard
My Day
Notify JD
Dynamic Dashboard
Notify PA
Application Settings
Settings
Users
HR Masters
Planning Master
AC Entry
Method Code
Product Grouping
Production Simulation
Item Link
Tender Orders
Delivery Order
Item Master
Dist. Items
Syrup Planning
Form

5.4 Item Link Logic

- Many-to-one relationship allowed (MY → SG or SG → MY).
- Used when tender items differ from production items.
- Ensures compatibility between Malaysia/Singapore MOS.

Q Filter...

AC Entry x Method Code x Product Grouping x Production Simulation x Item Link x Tender Orders x Delivery Order x Item Master x

Edit + Add PackMethod Export

Company ↑

Q Enter text to search...

C. ↑	No	Descripti...	Descripti...	In... Ref	SL...	IL... Gr...	BU...	Pack Size	Pack Size BUOM	NAV FP Descr...	Recommen... factor for planning	Generic Code	Method Code	Inventory
Company: Kireen														
Kireen	FP-IMP-PP-CRM-001	Acylete Cream SGM		Import from BioPhar...	Steroid	FP BIOPHAR	BOX							6,245
Kireen	FP-IMP-PP-TAB-001	Allerpid Tablet 40X14		Import from BioPhar...	Steroid	FP BIOPHAR	BOX							0
Kireen	FP-IMP-PP-TAB-002	Acylete Tablet 400mg 8X10		Import from BioPhar...	Steroid	FP BIOPHAR	BOX							517
Kireen	FP-IMP-PP-TAB-004	Meosciam Tablet 7.5mg 50X7		Import from BioPhar...	Steroid	FP BIOPHAR	BOX							0
Kireen	FP-IMP-TAB-003	Enzofase E.C. Tablet 5mg 10X10		Import from BioPhar...	Steroid	FP BIOPHAR	BOX							6,300
Kireen	FP-IMP-VIAL-001	Fibingluraas 1Kit	Fibrin Sealant, Human	Shanghai RAAS	Steroid	FP SH RAAS	KIT							8
Kireen	PKG0001	Hologram In Sheet Form		Kireen	Steroid	INFO 1.A.B.E.I	PC							16,691
Count: 3,885														

Dynamic Dashboard
Dashboard
My Day
Notify JD
Dynamic Dashboard
Notify PA
Application Settings
Settings
Users
HR Masters
Planning Master
AC Entry
Method Code
Product Grouping
Production Simulation
Item Link
Tender Orders
Delivery Order
Item Master
Dist. Items
Syrup Planning
Form

5.5 Production Simulation Logic

- NAV production orders synced based on selected company.
- Each production order has one **primary output** item.
- Planned Qty vs Actual Qty difference used for reporting.

Q Filter...

AC Entry x Method Code x Product Grouping x Production Simulation x

Dynamic Dashboard

Dashboard

My Day

Notify JD

Dynamic Dashboard

Notify PA

Application Settings

Settings

Users

HR Masters

Planning Master

AC Entry

Method Code

Product Grouping

Production Simulation

Item Link

Tender Orders

Delivery Order

Item Master

Dist. Items

Syrup Planning

Form

Edit x Delete Sync Export

Company: Sunward Malaysia

Drag a column header here to group by that column

Q Enter text to search...

Is Output	Prod Order No	Item No	Item Name	Descript...	Pack Size	Planned Qty	Quantity	Uom	Per Quantity	Per Qty Uom	Batch No	Starting Date
<input checked="" type="checkbox"/>	MS24-0512	FP-PP-SYR-217	Sunthorphan Syrup	Sunthorphan Syrup 50X120ML	50X120ML	150	150	CARTON	900,000	ML	339-24008	31-Dec-2025
<input type="checkbox"/>	MS25-0229	FP-NP-SYR-060	SW Bromhexine Elixir	SW Bromhexine Elixir 50X120ML	50X120ML	150	150	CARTON	900,000	ML		01-Feb-2026
<input type="checkbox"/>	MS25-0232	FP-NP-SYR-060	SW Bromhexine Elixir	SW Bromhexine Elixir 50X120ML	50X120ML	150	150	CARTON	900,000	ML		01-Feb-2026
<input type="checkbox"/>	MS25-0233	FP-NP-SYR-060	SW Bromhexine Elixir	SW Bromhexine Elixir 50X120ML	50X120ML	150	150	CARTON	900,000	ML		01-Feb-2026
<input type="checkbox"/>	MS25-0273	FP-PP-CRM-099	Medisone Cream 24X15G	Medisone Cream 24X15G	24X15G	208	208	PACK	74,880	GM	202125003	31-Dec-2025
<input type="checkbox"/>	MS25-0274	FP-PP-CRM-099	Medisone Cream 24X15G	Medisone Cream 24X15G	24X15G	208	208	PACK	74,880	GM	202125004	31-Dec-2025
<input type="checkbox"/>	MS25-0383	FP-PP-SYR-313	Sunex Cough Syrup	Sunex Cough Syrup 50X120ML	50X120ML	150	150	CARTON	900,000	ML	334-25064	31-Dec-2025

Count: 118

5.6 Item Master Logic

- Inventory quantity sourced from NAV or internal updates.
- Method Code and Generic Code determine:
- Regulatory mapping
- Production process
- Planning calculations
- Recommended factor affects simulation calculations.

Q Filter...

AC Entry x Method Code x Product Grouping x Production Simulation x Item Link x Tender Orders x Delivery Order x **Item Master** x

Dynamic Dashboard

Dashboard

My Day

Notify JD

Dynamic Dashboard

Notify PA

Application Settings

Settings

Users

HR Masters

Planning Master

AC Entry

Method Code

Product Grouping

Production Simulation

Item Link

Tender Orders

Delivery Order

Item Master

Dist. Items

Syrup Planning

Form

Edit + Add PackMethod Export

Company: Kireen

Q Enter text to search...

C. ↑	No	Descripti...	Descripti...	In... Ref	St...	IL... Gr...	BU...	Pack Size	Pack Size BUOM	NAV FP Descr...	Recommen... factor for planning	Generic Code	Method Code	Inventory
Kireen	FP-IMP-PP-CRM-001	Acylete Cream 5GM		Import from BioPhar...	Steroid	FP BIOPHAR	BOX							6,245
Kireen	FP-IMP-PP-TAB-001	Allerpid Tablet 40X14		Import from BioPhar...	Steroid	FP BIOPHAR	BOX							0
Kireen	FP-IMP-PP-TAB-002	Acylete Tablet 400mg 8X10		Import from BioPhar...	Steroid	FP BIOPHAR	BOX							517
Kireen	FP-IMP-PP-TAB-004	Meoscam Tablet 7.5mg 50X7		Import from BioPhar...	Steroid	FP BIOPHAR	BOX							0
Kireen	FP-IMP-TAB-003	Endase E.C. Tablet 5mg 10X10		Import from BioPhar...	Steroid	FP BIOPHAR	BOX							6,300
Kireen	FP-IMP-VIAL-001	Fibingluraas 1Kit	Fibrin Sealant, Human	Shanghai RAAS	Steroid	FP SH RAAS	KIT							8
Kireen	PKG0001	Hologram In Sheet Form		Kireen	Steroid	INFO LABS	PC							16,691

Count: 5,805

6. Summary

The **Planning Master Module** is a critical component that integrates customer agreements, item mapping, production forecasting, product grouping, tender planning, and item information. It ensures consistent, accurate, and region-aligned planning between Sunward Malaysia and Sunward Singapore.

Through structured master data, NAV integration, and simulation features, the module provides powerful tools for planners, production managers, and supply chain teams.

AppCentric
Technologies