

ADVANTECH

Enabling an Intelligent Planet



iFactory Shop Floor (SFC) 生產現場管理系統

iFactory Smart Manufacturing Solution



大綱

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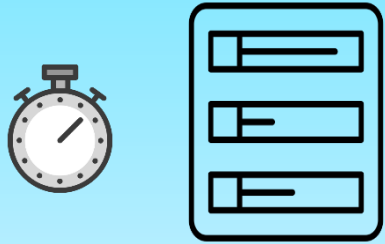


概述

Shop Floor生產現場管理系統，是用於生產追蹤、排程和產線工作狀態報告的管理系統工具。

生產現場管理系統會即時呈現關於工作進度和生產的資訊，除了讓管理者迅速掌握產線生產資訊外，也幫助作業員了解自身生產進度，進一步提高生產力並縮短生產週期。

生管人員可藉由系統設定每日生產目標，並分派給作業員。作業員可藉由個人介面進行報工。透過簡易的操作設定，Shop Floor車間系統提供一個便利的管理工具，協助工廠達成生產目標，進而改善效能和整體工廠生產力。



高效率工單管理

安排生產計畫和物料供應後，Shop Floor 系統可提供關於生產訂單排程的資訊，讓作業員預先為生產做準備。



工單狀態透明化

可透過現場儀錶板掌握製令單和工單的狀態。



加快生產管理和分析

Shop Floor 的使用者入口網站和儀錶板讓使用者和管理者能夠歸檔和儲存生產資訊。同時，生產資訊和工作進度以及報工記錄可用於分析和預測，進而加快管理者的決策速度。

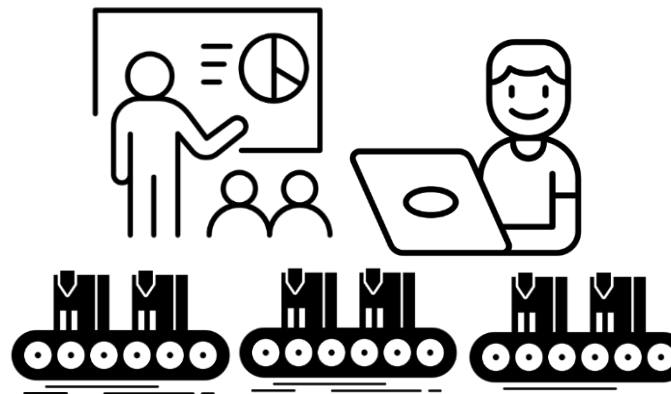
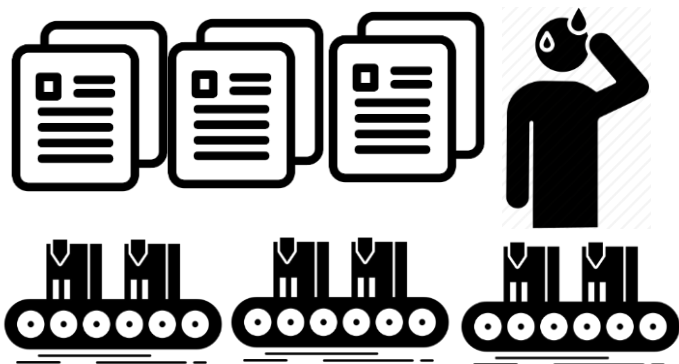
挑戰及解決方案

挑戰：

1. 人工或紙本的工作報告浪費人力成本。
2. 少量多樣導致頻繁換線使生產排程管理變得困難。
3. 手動生產進度報告需要較長處理時間。
4. 傳統的輸入方法難以追溯生產資料。

解決方案：iFactory Shop Floor

1. 數位生產管理包括：
 - 工單管理功能。
 - 以電子方式將工單指派至特定設備。
2. 工單狀態即時儀錶板，加快產線管理。
3. 完整儲存生產資料，可追溯生產歷史。未來也可以作為二次分析使用。
4. 與 I.App Data Connector 結合，連接 MES、WMS 和 ERP 企業系統的資訊，建立完整的資訊鏈。





iFactory/ShopFloor I.App 應用情境

許多中小企業仍手動管理工廠生產。iFactory/Shop Floor生產現場管理系統，可收集資訊、掌控即時生產資訊並，管理者藉此更瞭解生產狀況、能更快速的做出決定，解決生產現場問題及減少損失。



金屬加工業

為金屬加工工廠管理者提供工廠生產狀態和資訊。



電子組裝業

各個製程中的智慧資料擷取建立無縫連線，方便組裝線快速調整。

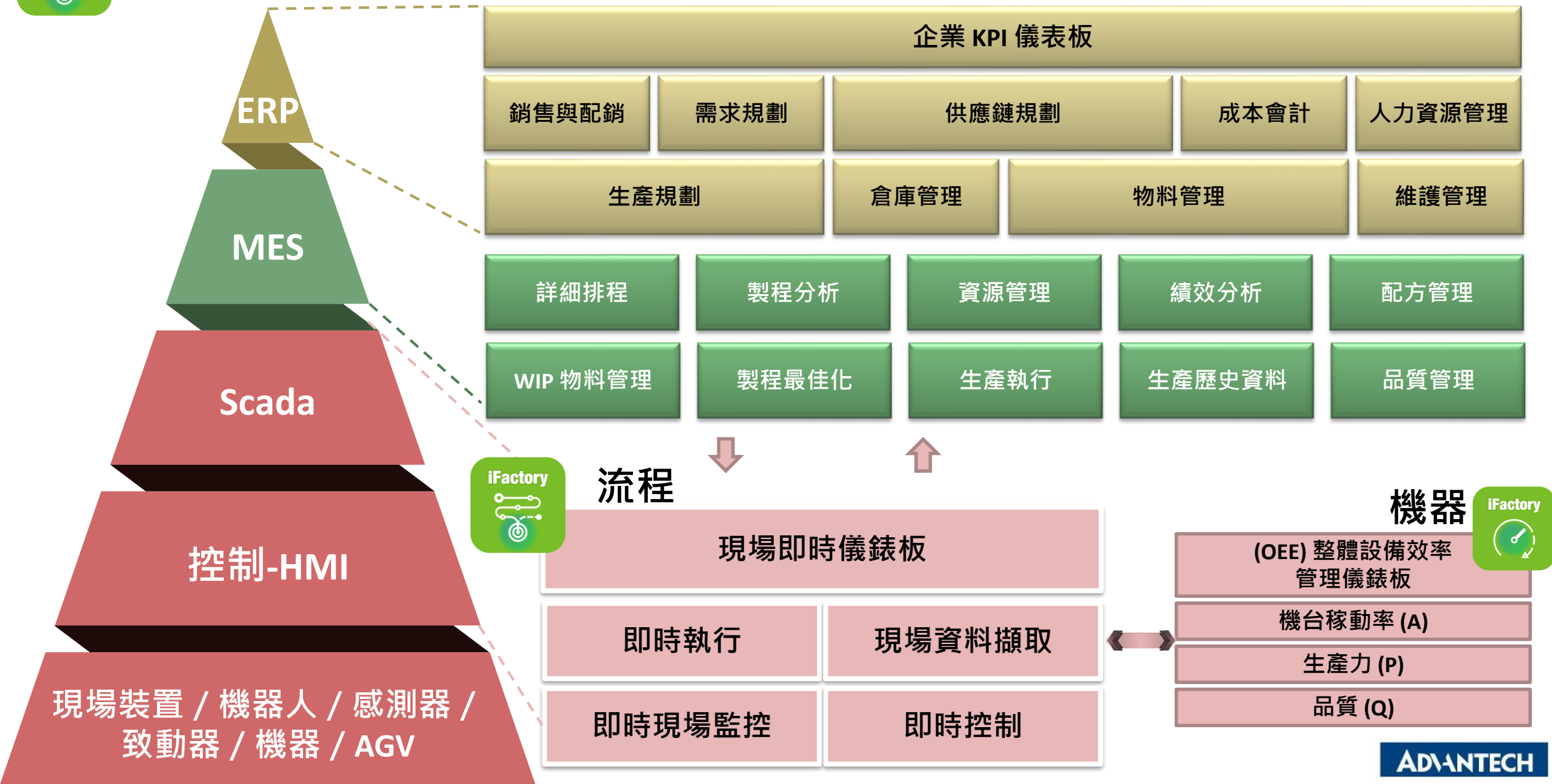


製鞋業

以無紙化方式將資料傳輸至工作站，進行智慧排程和生產即時顯示。



iFactory/ Shop Floor i.App 關聯結構



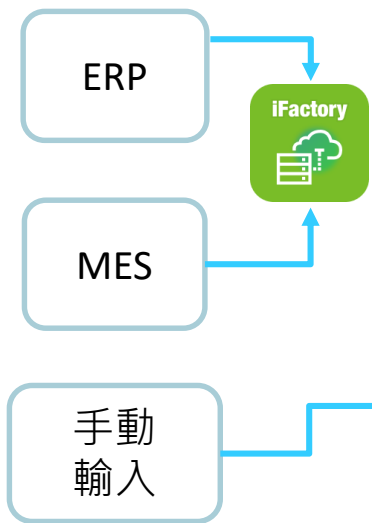


特色





運作資料流程



- 製程和工作
- 製造訂單
- 排序

輸入方法



現場控制和管理

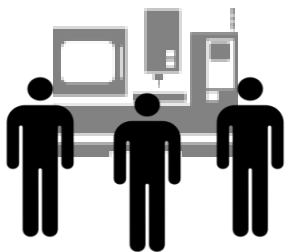
WIP / WO 狀態儀錶板

所有工單	已完成工單	未完成工單
24	5	19

工單編號	零件名稱	單位名稱	物料	數量	狀態	生產日期	完成率
WO-20220329-141846-001-3-1	MES-20220329-141846-001	零件	100	145	Done	2022-03-29 15:42	145.0%
WO-20220329-141846-001-2-1	MES-20220329-141846-001	零件	100	34	WIP	2022-03-29 18:10	34.0%
WO-20220329-141846-001-3-1	MES-20220329-141846-001	零件	100	50	WIP	2022-04-01 13:50	50.0%
WO-20220330-172116-001-1-1	MES-20220330-172116-001	零件	100	200	Done	2022-04-21 10:47	200.0%
WO-20220330-172116-001-2-1	MES-20220330-172116-001	零件	25	0	New	-	0%
WO-20220330-172116-001-3-1	MES-20220330-172116-001	零件	200	0	New	-	0%
WO-20220330-172116-001-4-1	MES-20220330-172116-001	零件	200	300	Done	2022-04-22 10:46	150.0%
WO-20220330-172116-001-5-1	MES-20220330-172116-001	零件	100	0	New	-	0%

執行中工單	30分鐘前工單	已完成工單
4	WO-20220329-141846-001-1-1 WO-20220329-141846-001-2-1 WO-20220329-141846-001-3-1	WO-20220329-141846-001-1-1 WO-20220329-141846-001-2-1 WO-20220329-141846-001-3-1
5	WO-20220330-140461-001-1-1 WO-20220330-140461-001-2-1 WO-20220330-140461-001-3-1	WO-20220330-140461-001-1-1 WO-20220330-140461-001-2-1 WO-20220330-140461-001-3-1

工作派遣 / 生產

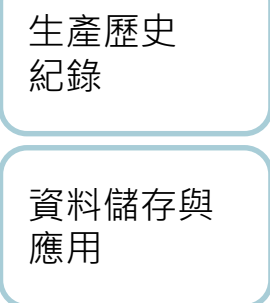


工單編號	零件名稱	單位名稱	物料	數量	狀態	生產日期	完成率
WO-20220329-141846-001-3-1	MES-20220329-141846-001	零件	100	145	Done	2022-03-29 15:42	145.0%
WO-20220329-141846-001-2-1	MES-20220329-141846-001	零件	100	34	WIP	2022-03-29 18:10	34.0%
WO-20220329-141846-001-3-1	MES-20220329-141846-001	零件	100	50	WIP	2022-04-01 13:50	50.0%
WO-20220330-172116-001-1-1	MES-20220330-172116-001	零件	100	200	Done	2022-04-21 10:47	200.0%
WO-20220330-172116-001-2-1	MES-20220330-172116-001	零件	25	0	New	-	0%
WO-20220330-172116-001-3-1	MES-20220330-172116-001	零件	200	0	New	-	0%
WO-20220330-172116-001-4-1	MES-20220330-172116-001	零件	200	300	Done	2022-04-22 10:46	150.0%
WO-20220330-172116-001-5-1	MES-20220330-172116-001	零件	100	0	New	-	0%

工單管理

Station	工單編號	零件名稱	單位名稱	物料	數量	狀態	生產日期	完成率
Station 001	WO-20210106-001	PCB001	PCB001	100 (PCS)	60 (56 / 4)	WIP	2021-01-06 08:10:45	60.0%
Station 003	WO-20210106-006	PCB002	PCB002	100 (PCS)	102 (100 / 2)	Done	2021-01-06 00:00:00	102.0%
Station 005	WO-20210106-003	PCB001	PCB001	100 (PCS)	-	New	2021-01-06 08:10:45	0%
Station 005	WO-20210106-005	PCB001	PCB001	10 (PCS)	10 (10 / 0)	In Process	2021-01-06 00:00:00	100.0%
Station 005	WO-20210106-005	PCB001	PCB001	10 (PCS)	10 (10 / 0)	Done	2021-01-06 00:00:00	100.0%

工作報告和紀錄





生產現場管理系統 – 生產概覽

生產概覽儀錶板顯示並統計各工單生產狀態，管理者能迅速了解目前生產狀況以利作出決策、提升生產效率。



工單狀態



生產現場管理系統 - WO/WIP 狀態

工單狀態儀錶板顯示生產的即時進度。除了讓操作員追蹤工單狀態之外，也可讓管理者找出生產流程中的瓶頸。

Dashboard | ShoopFloor > Status of Work Order | zh-TW | Last 1 year | 5s | POWERED BY WISE-PaaS

Group: AndonSim

所有工單	已完成工單	未完成工單
24	5	19

工單編號	製令單編號	產品名稱	目標	良品數	狀態	計畫開始時間	完成率
WO-20220329-141046-001-1-1	MO-20220329-141046-001	塗料	100	145	Done	2022-03-29 15:42	
WO-20220329-141046-001-2-1	MO-20220329-141046-001	塗料	100	34	WIP	2022-03-29 18:10	34.0%
WO-20220329-141046-001-3-1	MO-20220329-141046-001	塗料	100	90	WIP	2022-04-01 13:50	90.0%
WO-20220330-172316-001-1-1	MO-20220330-172316-001	運動鞋	100	200	Done	2022-04-22 10:47	200.0%
WO-20220330-172316-001-2-1	MO-20220330-172316-001	運動鞋	25	0	New	-	0%
WO-20220330-172316-001-3-1	MO-20220330-172316-001	運動鞋	200	0	New	-	0%
WO-20220330-172316-001-4-1	MO-20220330-172316-001	運動鞋	200	300	Done	2022-04-22 10:46	150.0%
WO-20220330-172316-001-5-1	MO-20220330-172316-001	運動鞋	100	0	New	-	0%

即時生產進度

人性化報告小工具，由終端使用者建立儀錶板

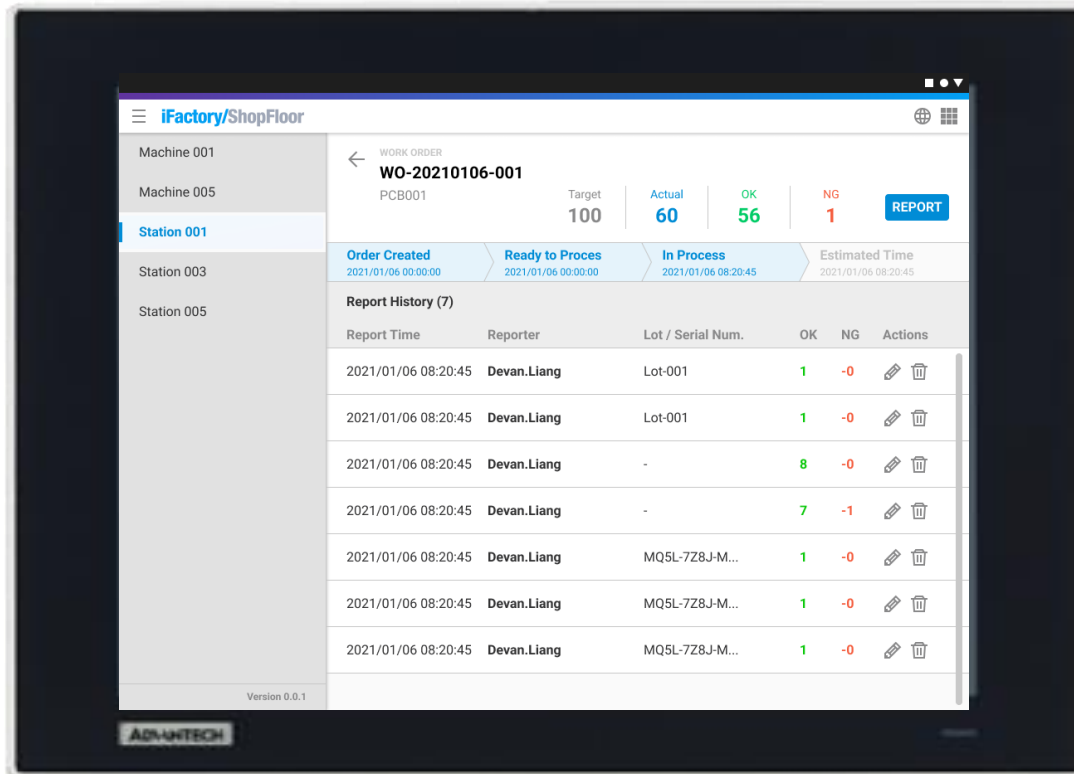
工單狀態



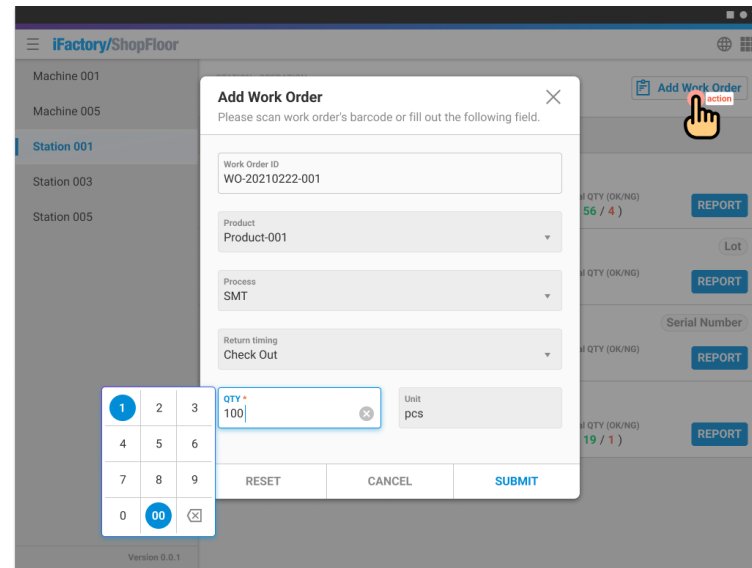


報工

我們提供生產現場人員容易上手的觸控面板，可隨時確認報工狀況與生產數據。



觸控面板工作報告

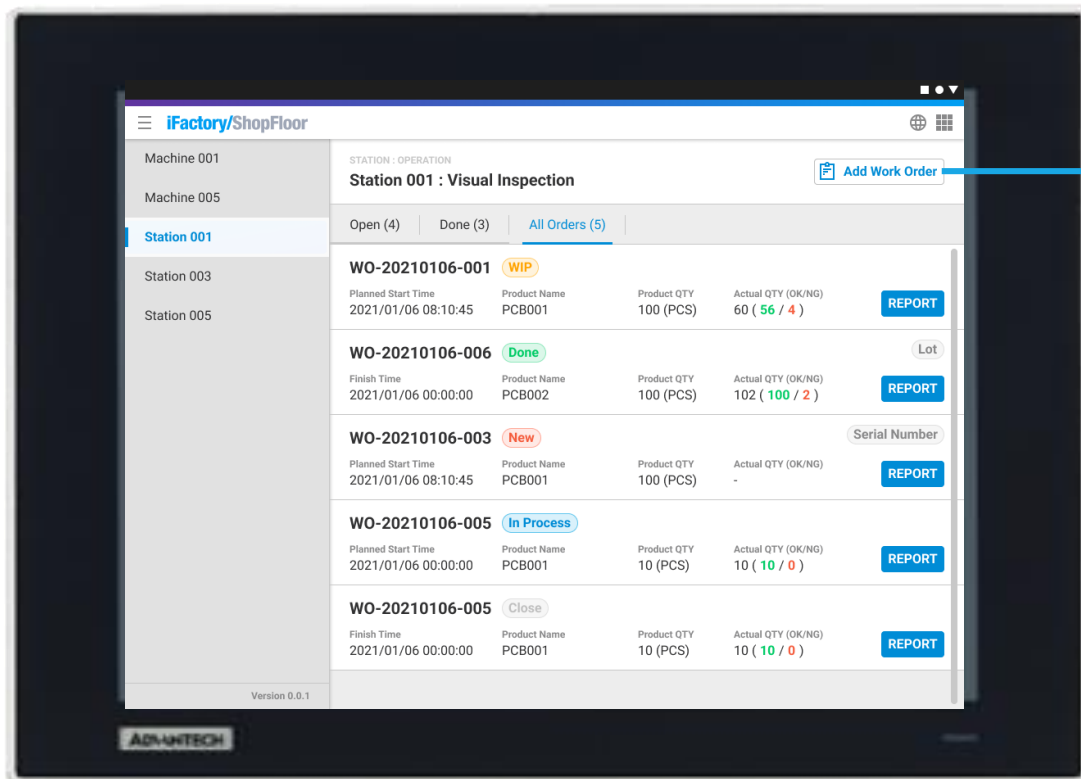


製造數量報告



報工-工單

靈活的報告包含預設工單，透過觸控面板新增工單，以更好滿足各種使用情境。



工作報告工單

Add Work Order ✕

* Required

Work Order ID
WO-20220422-102412-001

Product
Select...

Process
Select...

Report timing
Select...

Qty *
Select...

Unit
Unit

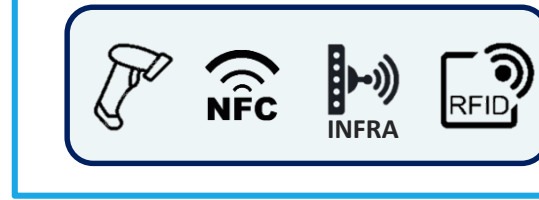
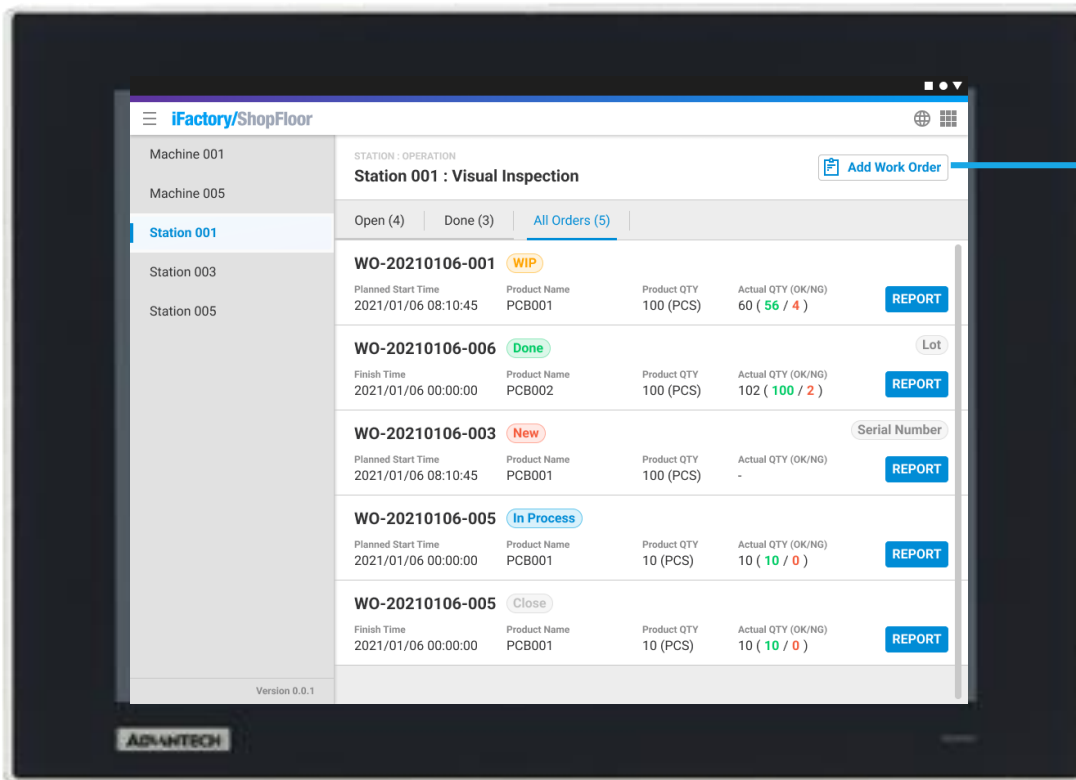
RESET CANCEL SUBMIT

新增工單



多種工單匯入方法

- 靈活的工單匯入方法
 - 預設工單選項，例如條碼掃描、RFID 等
 - 新增 / 匯入外部工單



Add Work Order

* Required

Work Order ID
WO-20220422-102412-001

Product
Select...

Process
Select...

Report timing
Select...

Qty *
Select...

Unit
Unit

RESET CANCEL SUBMIT

工單管理

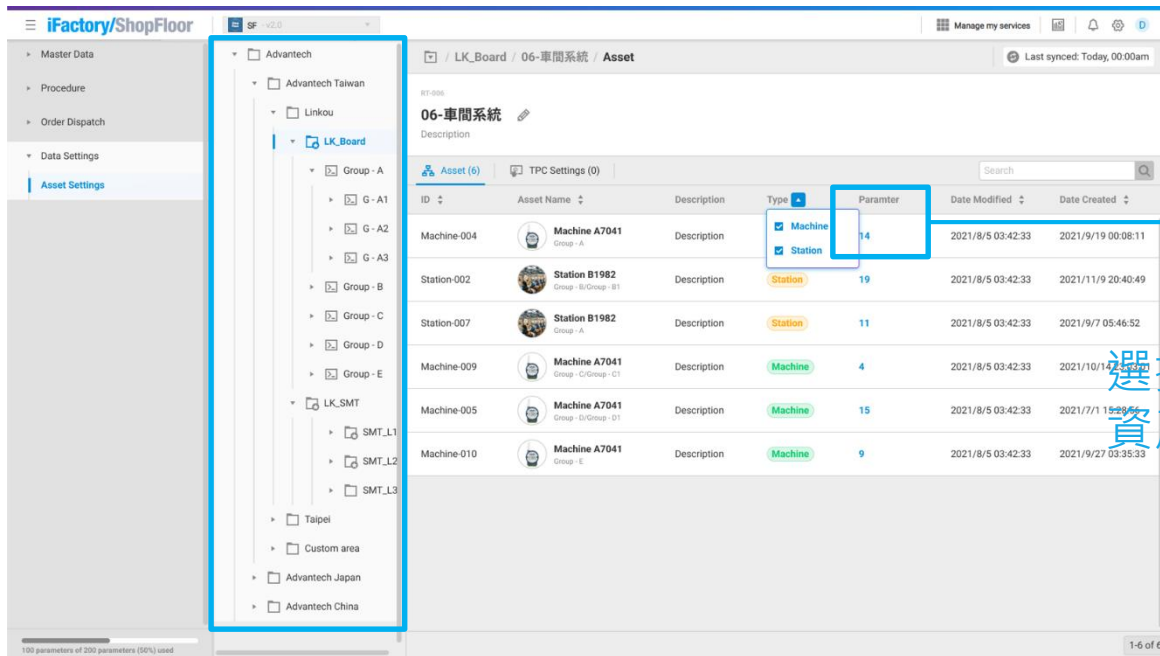
新增工單



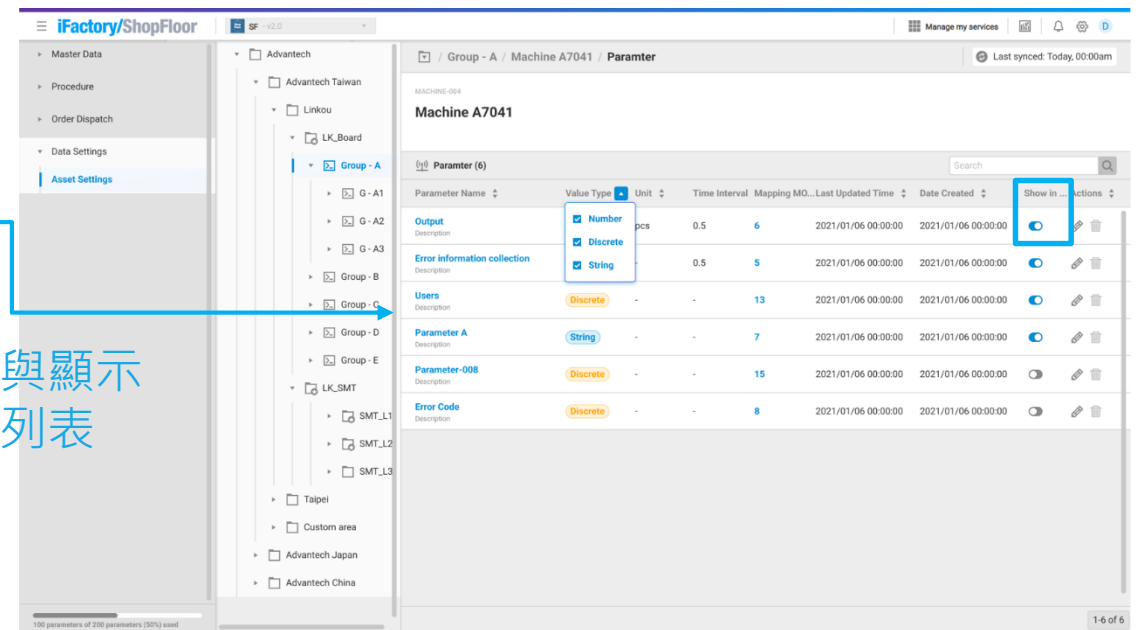


資料配置 – 資產設定

利用 iFactory/ RTM 管理生產製造的資產。MIS 可以替 Shop Floor 額外設置基本資產的參數，像是機器輸出數量和異常錯誤代碼。



選擇參數與顯示
資產參數列表



資產列表與拓樸

資產參數管理



資料配置 – 參數設定

創建 Shop Floor 專屬的參數並設定與匯入數據源的關聯。配置完成後，將自動從數據源蒐集所需的資料供業務邏輯使用。此外，這些參數也將運用在分析及可視化上。

Parameter Name	Value Type	Unit	Data Source	Mapping	Reporting ...	Time Interval	Last Update
Output	Number	pcs	15	6	0.5	2021/01/06 00:00:00	2021/01/06 00:00:00
Error information collection	Discrete		5	5	0.5	2021/01/06 00:00:00	2021/01/06 00:00:00
Users	Discrete		8	13	-	2021/01/06 00:00:00	2021/01/06 00:00:00
Parameter A	String		10	7	-	2021/01/06 00:00:00	2021/01/06 00:00:00
Parameter-008	Discrete		18	15	-	2021/01/06 00:00:00	2021/01/06 00:00:00
Error Code	Discrete		6	8	-	2021/01/06 00:00:00	2021/01/06 00:00:00

新建參數

Parameter Name	Description	Data Source	Value Type	Unit	Time Interval
Output	Description	SCADA001/Grou...	Number	%	0.5
Error information collection	Description	SCADA001/Grou...	Number	%	0.5
Users	Description	SCADA001/Grou...	Select ...	Unit	Time Interval
Parameter A	Description	Select ...	Select ...	Unit	Time Interval
Parameter-008	Description	Select ...	Select ...	Unit	Time Interval
Error Code	Description	Select ...	Select ...	Unit	Time Interval

參數圖

參數列表



主數據設置 - 產區

產區以樹狀圖定義製造流程，並提供組織化方式配置、控制和分析您的製造活動。這為建構產區的生產組織奠定了基礎。

The screenshot displays the iFactory/ShopFloor interface. On the left, a sidebar menu includes 'Production Area', 'Shift Management', 'Products', 'Procedure', 'Production Routing', 'Routing Map', 'Order Dispatch', and 'Manufacturing Order'. The main area shows a tree view of production areas under 'Advantech', with 'LK_SMT' selected. A table lists assets associated with 'LK_SMT', including machines and stations with their respective capacities and parameters. A 'Production Node Management' dialog box is open, allowing configuration of area details.

生產節點管理

建立設備、觸控面板和產區的關聯

Asset Name	Type	Capacity	Parameter	Date Modified	Date Created	Actions
Machine-003	Machine	1000 pcs/s	8	2021/8/5 03:42:33	2021/9/19 00:08:11	[Edit] [Delete]
Station-001	Station	1000 pcs/min	2	2021/8/5 03:42:33	2021/11/9 20:40:49	[Edit] [Delete]
Station-008	Station	1000 pcs/h	3	2021/8/5 03:42:33	2021/9/7 05:46:52	[Edit] [Delete]
Machine-009	Machine	1000 pcs/day	5	2021/8/5 03:42:33	2021/10/14 23:03:01	[Edit] [Delete]
Machine-007	Machine	-	19	2021/8/5 03:42:33	2021/7/1 15:28:56	[Edit] [Delete]
Machine-010	Machine	-	3	2021/8/5 03:42:33	2021/9/27 03:35:33	[Edit] [Delete]

產區



主數據設置 – 輪班管理

對於跨班次的生產數據分析，我們提供了在生產過程中定義班次的功能。輪班管理使生產經理能夠快速且輕鬆地管理生產現場的班表。

The screenshot displays the 'Shift Management' interface in the iFactory/ShopFloor system. The main view shows the 'Shift - 001 / Schedule' configuration. A sidebar on the left contains a navigation menu with 'Shift Management' selected. The main content area is divided into two sections: 'Shift' and 'Operator'. The 'Shift' section shows a table of shifts for 'Monday' and 'Tuesday', with columns for 'Week & Shift Name', 'Start time', 'End time', and 'First Shift'. The 'Operator' section shows a table of operators with columns for 'Index', 'Operator Name', 'Description', 'Position', 'Phone', 'E-Mail', 'Status', and 'Actions'. A blue arrow points from the 'Schedule' tab in the sidebar to the shift table, and another blue arrow points from the 'Operator' tab to the operator list. A blue text box with the text '按工作日、平日、星期定義班次' is overlaid on the shift table. A blue text box with the text '輪班人員列表' is overlaid on the operator list. A blue button with the text '輪班群組列表' is located at the bottom center of the interface.

Week & Shift Name	Start time	End time	First Shift
Monday			
Morning shift	08:00	12:00	✓
Lunch time	12:00	13:00	
Noon shift	13:00	15:30	
Break time	15:30	15:45	
Midday shift	15:45	17:00	
Tuesday			
Morning shift	08:00	12:00	✓
Lunch time	12:00	13:00	
Noon shift	13:00	15:30	
Break time	15:30	15:45	
Midday shift	15:45	17:00	

Index	Operator Name	Description	Position	Phone	E-Mail	Status	Actions
1	Savannah Nguyen	Description	Supervisor	(+886) 968110198	nevaeh.simmons@example.com	Enable	
2	Robert Fox	Description	Member	(+886) 968552310	nathan.roberts@example.com	Enable	
3	Brooklyn Simmons	Description	Member	(+886) 923148004	michael.mtc@example.com	Enable	
4	Guy Hawkins	Description	Member	(+886) 925174246	curtis.weaver@example.com	Enable	
5	Marvin McKinney	Description	Member	(+886) 951614382	felicia.reid@example.com	Enable	
6	Annette Black	Description	Member	(+886) 930019949	michelle.rivera@example.com	Disable	

輪班群組列表



主數據設置 – 輪班人員管理

輪班人員管理是一種用來管理員工班表的工具。根據班表和對應的人員，您將能夠了解團隊生產力的狀態。

The screenshot shows the 'iFactory/ShopFloor' interface. On the left is a navigation menu with 'Shift Management' selected. The main area displays a table of operators:

Operator Name	Description	Member Shift	Phone	E-Mail	Status	Date Modified	Date Created	Actions
Savannah Nguyen	Description	6	(+886) 968110198	nevaeh.simmons@exp...	Enable	2021/9/27 03:35:33	2021/9/27 03:35:33	[Edit] [Delete]
Robert Fox	Description	7	(+886) 968552310	nathan.roberts@exampl...	Enable	2021/9/27 03:35:33	2021/9/27 03:35:33	[Edit] [Delete]
Brooklyn Simmons	Description	8	(+886) 923148004	m...	Enable			
Guy Hawkins	Description	3	(+886) 925174246	ci...	Enable			
Marvin McKinney	Description	9	(+886) 951614382	fe...	Enable			
Annette Black	Description	18	(+886) 930019949	m...	Enable			

An 'Edit Operator "Wade Warren"' modal is open, showing fields for Status (Enable), User Name (Wade Warren), User ID (michael.mtc@example.com), Phone (+886 915671010), and E-Mail (michael.mtc@example.com). A 'Select Shift' button is highlighted with a blue circle.

編輯人員資訊

關聯人員與班表並設置其角色

The 'Add Operator' modal is shown with the 'Select Shift' tab active. It displays a list of shifts on the left and a 'Selected (5)' list on the right. The selected shifts are Shift - 001, Shift - 010, Shift - 002, Shift - 008, and Shift - 010. A role dropdown menu is open, showing 'Member' selected, with other options 'Supervisor' and 'Manage other...'. Navigation buttons 'PREVIOUS', 'NEXT', 'CANCEL', and 'SUBMIT' are at the bottom.



主數據設置 - 產品

根據在產品設定中設定的製造流程，Shop Floor 通過結合工單到期日與排序功能的生產途程來取代低效率的試算表，使團隊成員得提高生產效率。

The screenshot displays the 'iFactory/ShopFloor' interface. On the left, a sidebar menu includes 'Production Area', 'Shift Management', 'Products', 'Procedure', 'Order Dispatch', and 'Data Settings'. The main area shows 'Master Data / Products' with a table of product information. A blue box highlights the table, and a blue arrow points from it to the 'Add Product' modal form on the right. The table is titled '產品列表' (Product List).

Product ID	Product Name	Type	Unit	Cycle Time	Route	Current Version	Date Modified	Date Created	Actions
P-001	PCB-001 Description	A Type	PCS	00:00:30	Route-001	1.37.12	2021/01/06 00:00:00	2021/01/06 00:00:00	[Edit] [Delete]
P-002	PCB-002 Description	A Type	PCS	00:00:30	Route-001	1.37.12	2021/01/06 00:00:00	2021/01/06 00:00:00	[Edit] [Delete]
P-003	PCB-003 Description	A Type	PCS	00:00:30	Route-001	1.37.12	2021/01/06 00:00:00	2021/01/06 00:00:00	[Edit] [Delete]
P-004	PCB-004 Description	B Type	PCS	00:00:30	Route-001	1.37.12	2021/01/06 00:00:00	2021/01/06 00:00:00	[Edit] [Delete]
P-005	PCB-005 Description	B Type	PCS	00:00:30	Route-001	1.37.12	2021/01/06 00:00:00	2021/01/06 00:00:00	[Edit] [Delete]
P-006	PCB-006 Description	C Type	PCS	00:00:30	Route-001	1.37.12	2021/01/06 00:00:00	2021/01/06 00:00:00	[Edit] [Delete]

The 'Add Product' modal form includes the following fields:

- Dashboard Display Language(s): English (Default), Français, 繁體中文, 繁體中文, 日本語, 한국어
- Product ID: P-001
- Current Ver.: 1.32.1
- Product Name: Product - 001
- Type: A Type
- Description: Description
- Route: Route - 001
- Image URL: http://www.advantech.com/image.jpg
- Unit: pcs
- Cycle Time: 00:00:30

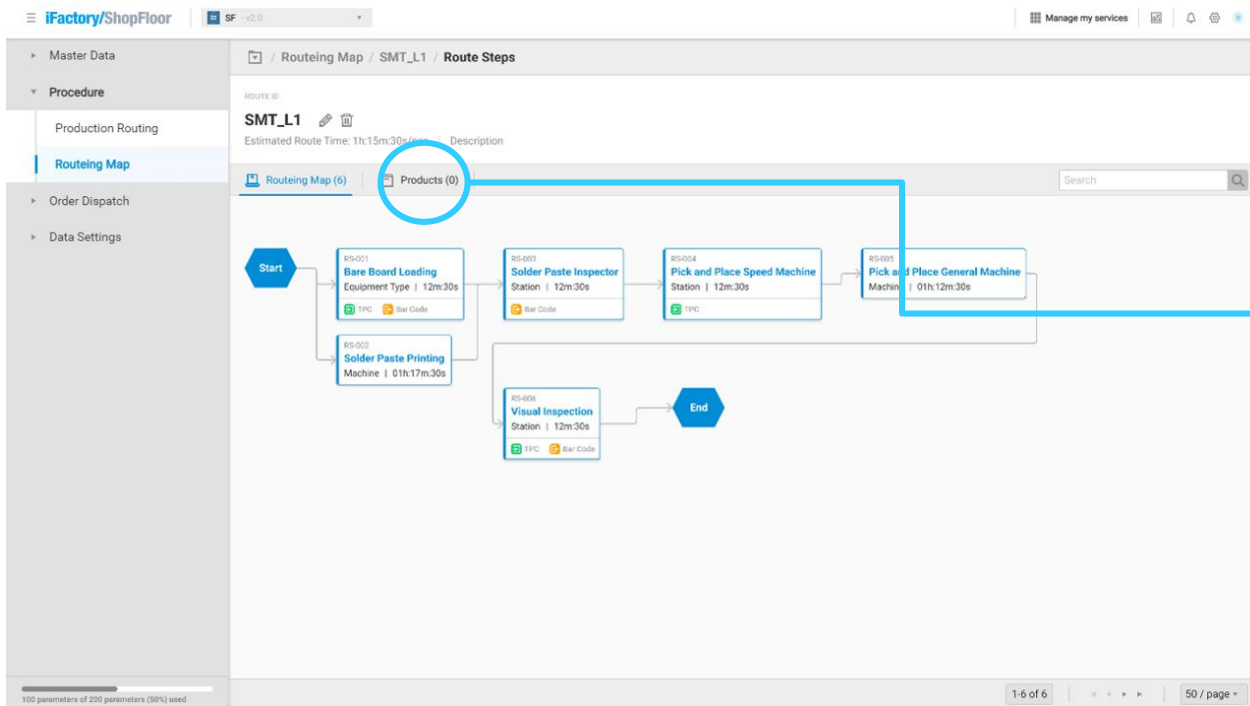
產品設定

產品詳情



流程設置 – 生產途程與途程拓樸圖

流程模組提供您定義重要生產製造流程的功能和步驟。透過詳細分解各操作員和機器的生產流程，可以在生產途程內預先定義好每個步驟，並繪製途程拓樸圖，以便在派發工單時重複利用。



Add Route

* Required

Route ID: R-001 | Route Name: SMT_L1 | Estimated Route Time: 01h:11m:30s | pcs | Description: Description

+ Route Step (6)

Route Step ID	Route Step Name	Job Report	Before Step	Report timing	Report Mode	Conversion R...	Availab ...	Actions
RS - 001	Bare Board Loading	<input checked="" type="checkbox"/>	First st...	Check I...	TPC	1.5	<input type="checkbox"/>	
RS - 002	Solder Paste Printing	<input checked="" type="checkbox"/>	Bare B...	None		1.5	<input type="checkbox"/>	
RS - 003	Solder Paste Inspector	<input checked="" type="checkbox"/>	Solder...	Check In		1.5	<input type="checkbox"/>	
RS - 004	Pick and Place Speed Ma...	<input type="checkbox"/>	Select ...	Check Out			<input type="checkbox"/>	
RS - 005	Pick and Place General M...	<input type="checkbox"/>	Pick a...	Check In & Check Out		1.5	<input type="checkbox"/>	
RS - 006	Visual Inspection	<input checked="" type="checkbox"/>	Select ...	Select ...	Select ...		<input type="checkbox"/>	

設置途程、報工時間、方法和產量轉換率

CANCEL SUBMIT

途程拓樸圖

設定生產途程步驟



工作分派 – 工單派工

生產經理創建工單、排定生產日期並透過 Shop Floor 工單派工發給各工作站，以滿足資源可用性、進度要求與產能。

Manufacturing Order ID	Product	QTY	Production Area	Shift	Route	Responsible	Estimated Com...	Completion Time	Date Created	On/Off	Actions
MO-20210106-001	PCB-001	11 pcs	...oard/LK_SMT	10	Route-001	Devan.Liang	2021/01/06 00:0...	2021/01/06 00:0...	2021/01/06 00:0...	On	✎ 🗑
MO-20210106-002	PCB-002	18 pcs	...oard/LK_SMT	8	Route-002	Devan.Liang	2021/01/06 00:0...	2021/01/06 00:0...	2021/01/06 00:0...	On	✎ 🗑
MO-20210106-003	PCB-003	17 pcs	...oard/LK_SMT	2	Route-003	Devan.Liang	2021/01/06 00:0...	2021/01/06 00:0...	2021/01/06 00:0...	On	✎ 🗑
MO-20210106-004	PCB-004	4 pcs	...oard/LK_SMT	6	Route-004	Devan.Liang	2021/01/06 00:0...	2021/01/06 00:0...	2021/01/06 00:0...	Off	✎ 🗑
MO-20210106-005	PCB-005	9 pcs	...oard/LK_SMT	14	Route-005	Devan.Liang	2021/01/06 00:0...	2021/01/06 00:0...	2021/01/06 00:0...	On	✎ 🗑
MO-20210106-006	PCB-006	6 pcs	...oard/LK_SMT	7	Route-006	Devan.Liang	2021/01/06 00:0...	2021/01/06 00:0...	2021/01/06 00:0...	On	✎ 🗑

新建產品製令單與工單

Work Order ID	Process	Station/Machine	QTY	Unit	Actions
WO-20210106-001-1-1	SMT	Machine007	50	PCS	✎ 🗑
WO-20210106-001-1-2	SMT	Station 002	25	PCS	✎ 🗑
WO-20210106-001-1-3	SMT	Station 001	25	PCS	✎ 🗑
-	DIP	Select	50	PCS	✎ 🗑
-	Task	Select	20	PCS	✎ 🗑
WO-20210106-001-2-1	Pack	Station 007	20	PCS	✎ 🗑

新建工單

工單管理



觸控面板初始化

透過觸控面板一步初始化，自動產生 ID。

≡ iFactory/ShopFloor



Touch Panel initialization

Touch Panel UUID *

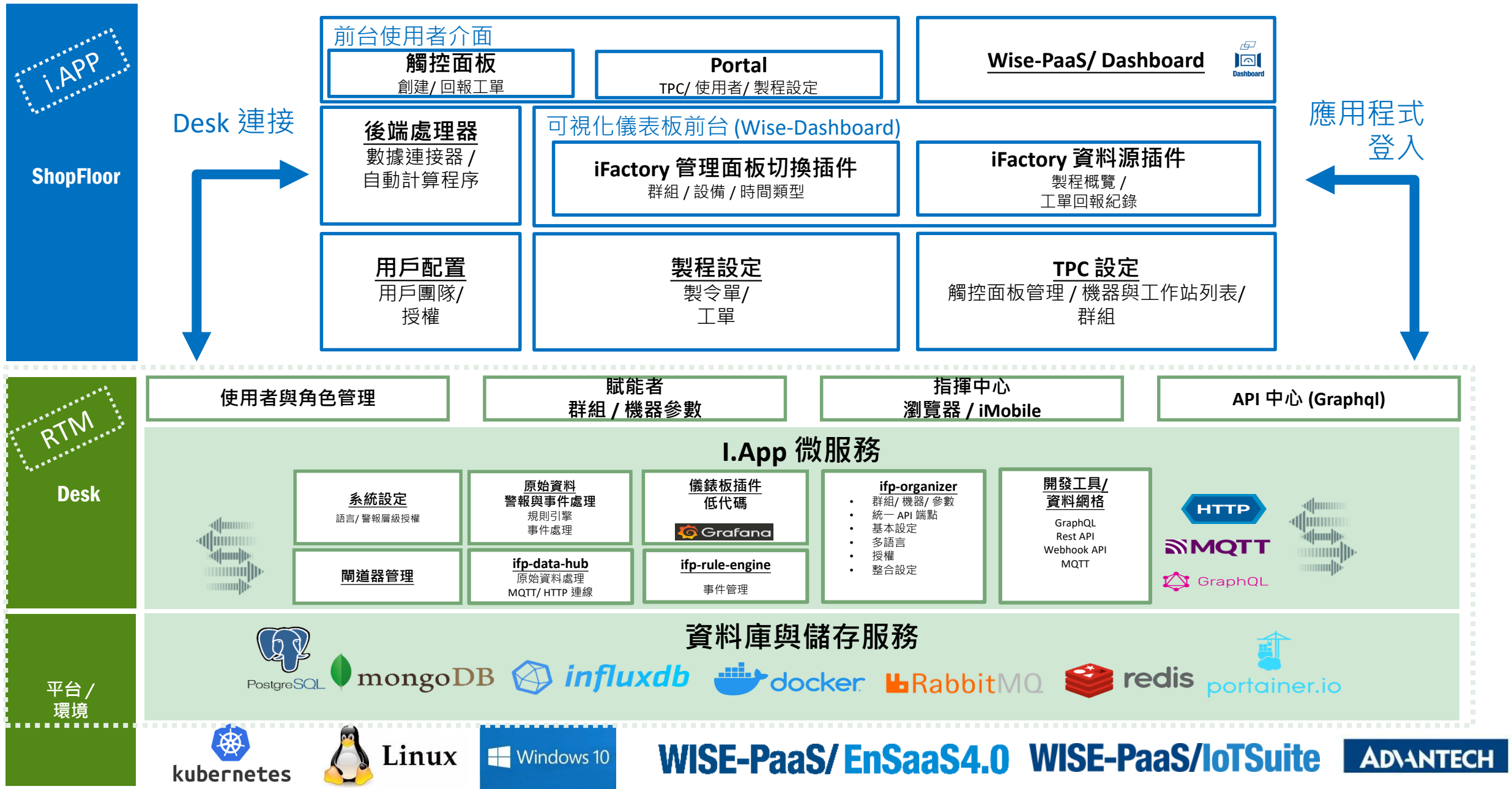
VFBDLTE2NDc1NzA5MDI=

Touch Panel Name *

TPC Name

Submit

iFactory ShopFloor 架構圖



IoTaaS, List of Apps for Subscription

■ No Code
■ Low Code
■ SI Enabled

2022.05.20 update

Solution Ready Package

iFactory		iWater & iEnvironment		iHospital	
WISE-iFactory/Andon Monitor OEE Management	WISE-iFactory/EHS Digital tool for work orders	WISE-iWater/Quality Monitoring The distributed management solution for water distribution treatment processes in the water treatment plants	WISE-iWater/Facility Management Monitor all the facility availability, identify and control maintenance to optimize water treatment facility management	WISE-iDS/SignageCMS Media management, program editing, program upload system	WISE-iDS/SignageCMS Media management, program editing, program upload system
WISE-iFactory/OEE Improve your OEE performance	WISE-iFactory/Manual Digital tool for work orders			WISE-iQM/Inspection Cloud storage, video analysis technology and mobile internet technology to optimize equipment management	WISE-iQM/Inspection Cloud storage, video analysis technology and mobile internet technology to optimize equipment management
WISE-iFactory/Maintenance Improve your OEE performance				WISE-iVA/Counting Help you measure visitor traffic to improve people flow management	WISE-iVA/Counting Help you measure visitor traffic to improve people flow management
iEMS		iMachine		AIFS	
iEMS/IVAC Media management, program editing, program upload system	iMachine/Pump System Monitor all the facility availability, identify and control maintenance to optimize water treatment facility management	AIFS/InspectionAI Forge Monitor all the facility availability, identify and control maintenance to optimize water treatment facility management	iCity, iRetail & Public Services	WISE-iDS/SignageCMS Media management, program editing, program upload system	WISE-iVA/Counting Help you measure visitor traffic to improve people flow management
iEMS/CarbonR Media management, program editing, program upload system	iMachine/Chiller System Monitor all the facility availability, identify and control maintenance to optimize water treatment facility management	AIFS/PHM Inspection Multiple predictive maintenance solution for bearing diagnosis	WISE-iQM/Inspection Cloud storage, video analysis technology and mobile internet technology to optimize equipment management		
iEMS/ECOWatch Digital tool for work orders	iMachine/MachineUnits Monitor all the facility availability, identify and control maintenance to optimize water treatment facility management				

WISE Platform

WISE-Dashboard Report visualization tool	WISE-InsightAPM Digital tool for work orders	WISE-IoTSuite Management Platform
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Edge Service

WISE-DataConnect Help you reduce initial setup to improve people flow management	Edge WebAccess SCADA Help you measure visitor traffic to improve people flow management	Edge WebAccess DMP Help you measure visitor traffic to improve people flow management	
Edge Cybersecurity SRP Help you measure visitor traffic to improve people flow management	Edge DeviceOn Help you measure visitor traffic to improve people flow management	Edge AI Help you measure visitor traffic to improve people flow management	Edge Triangle Help you measure visitor traffic to improve people flow management

WISE Platform & Edge Service

WISE Platform



No Code

WISE-Dashboard

Report visualization tool



No Code

WISE-InsightAPM

Digital twin low code platform



No Code

WISE-IoTSuite

Device IoT Platform

Edge Service



No Code

WISE-DataConnect

Help you measure footfall traffic to improve people flow management.



No Code

WebAccess SCADA

Help you measure footfall traffic to improve people flow management.



No Code

WebAccess DMP

Help you measure footfall traffic to improve people flow management.



No Code

Cybersecurity SRP

Help you measure footfall traffic to improve people flow management.



Low Code

DeviceOn

Help you measure footfall traffic to improve people flow management.



Low Code

Edge AI

Help you measure footfall traffic to improve people flow management.



Low Code

Triangle

Help you measure footfall traffic to improve people flow management.

Domain Solution

Solution Ready Package

iFactory



WISE-iFactory/Andon

Abnormal Event Management



WISE-iFactory/EHS

Digital twin low code platform



WISE-iFactory/OEE

Digital twin low code platform



WISE-iFactory/eManual

Digital twin low code platform



WISE-iFactory/Maintenance

Digital twin low code platform

iWater & iEnvironment



WISE-iWater/Quality Monitoring

The centralized management platform for various distributed treatment processes in the water treatment plants



WISE-iWater/Facility Management

Analysis of the facility availability, reliability and power consumption to optimize water treatment facility management

iHospital



WISE-iDS/SignageCMS

Media management, program editor, program dispatch system.



WISE-iDS/SignageCMS

Media management, program editor, program dispatch system.



WISE-iQM/Inspection

Cloud storage, video analysis technology and mobile internet technology to provide enterprise management.



WISE-iQM/Inspection

Cloud storage, video analysis technology and mobile internet technology to provide enterprise management.



WISE-iVA/Counting

Help you measure footfall traffic to improve people flow management.



WISE-iVA/Counting

Help you measure footfall traffic to improve people flow management.

iEMS



iEMS/HVAC

Media management, program editor, program dispatch system.



iEMS/CarbonR

Media management, program editor, program dispatch system.



iEMS/ECOWatch

Digital twin low code platform

iMachine



iMachine/Pump System

Analysis of the facility availability, reliability and power consumption to optimize water treatment facility management.



iMachine/Chiller System

Analysis of the facility availability, reliability and power consumption to optimize water treatment facility management.



iMachine/MachineUnite

Analysis of the facility availability, reliability and power consumption to optimize water treatment facility management.

AIFS



AIFS/InspectionAI.Forge

Analysis of the facility availability, reliability and power consumption to optimize water treatment facility management.



AIFS/PHM.Inspection

Intelligence Predictive Maintenance Solution for Rotating Machinery

iCity, iRetail & Public Services



WISE-iDS/SignageCMS

Media management, program editor, program dispatch system.



WISE-iVA/Counting

Help you measure footfall traffic to improve people flow management.



WISE-iQM/Inspection

Cloud storage, video analysis technology and mobile internet technology to provide enterprise management.

Co-Creating the Future of the IoT World

