



# ShopFloor I.App Solution Introduction

Advantech Industrial IoT / AI/  
iFactory Smart Manufacturing Solution



# Outline

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iFactory Shop Floor & MES

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Features & Functions Introduction

## 3. Software Architecture

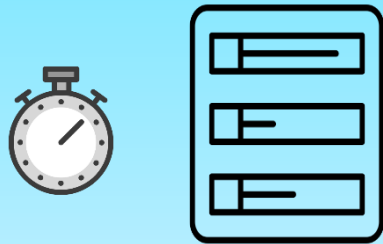


# Overview

Shop Floor is a set of manufacturing management systems and tools for production tracking, scheduling, and status reporting.

Data about work progress and production time is collected and reported by the Shop Floor system to increase productivity and shorten cycle times. In addition to providing workforce information to supervisors, real-time Shop Floor control is also useful for operators themselves.

It provides operators with access to their own workflow, enabling them to set, reach, and exceed their own goals. With an incentive mechanism, operators can be further encouraged and motivated to achieve these goals, thereby improving performance and overall plant productivity.



## Efficient Work Order Management

After the production plan and the material supply is arranged, the Shop Floor system can provide information on the production order schedule, thus, the operators can prepare for production in advance.



## Transparent Work Order Status

Status for Manufacturing Order and Work Order can be controlled through Shop Floor Dashboard.

## Accelerate Production Management & Analysis



The user portal of Shop Floor and the Dashboard enable users and managers file and store production information conveniently. At the same time, these production and job report data such as production output, efficiency, production loss, inventory can be used for analyzing and predicting, which can speed up decision making for the managers.

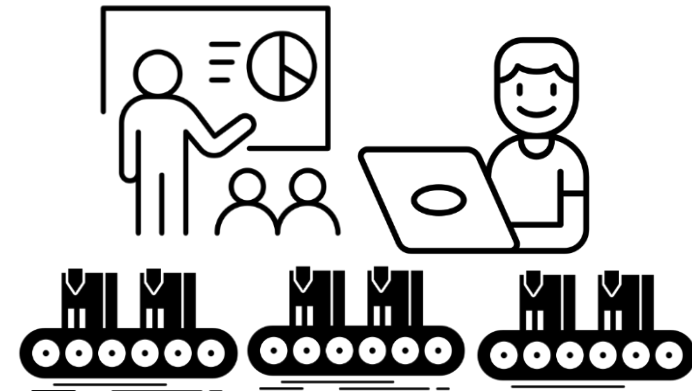
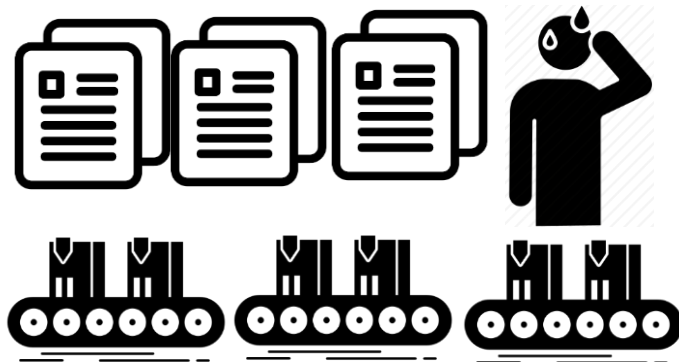
# Pain Points & Proposed Solution

## Main Pain Points :

1. Paper job reporting or manual input of job reporting information are time-wasting and sometimes incorrect.
2. Frequent line changes, means difficult production schedule management.
3. Manually confirm the progress of WIP, current reports of production progress might need to wait until the next day.
4. Traditional input methods of production make it difficult to trace back the production data.

## Solutions: iFactory Shop Floor

1. Digital production management including:
  - Work order management function.
  - Electronic assignment of work orders to specific equipment.
2. Real-time dashboard of work order status, accelerating production line management.
3. Complete storage of production data which allows tracing back production history, also it can be used as a secondary analysis in the future.
4. Combined with I.App Data connector, connects the information of MES, WMS, ERP enterprise systems to build a complete information chain.





# Application Scenarios of iFactory/ShopFloor I.App

Many small and medium-sized enterprises still use computers or manual type to alternately manage factory production. iFactory/ShopFloor I.Apps can collect information, monitor and reports it to managers on the manufacturing site to enable managers to immediately understand production conditions and make corresponding decisions to quickly resolve production problems and reduce cost of losses.



## Metal Process

Provide workshop production status and information to managers for plant control and management.



## Electronic Assembly

Intelligent data acquisition in each process, to achieve seamless connection, rapid adjustment, to improve efficiency.

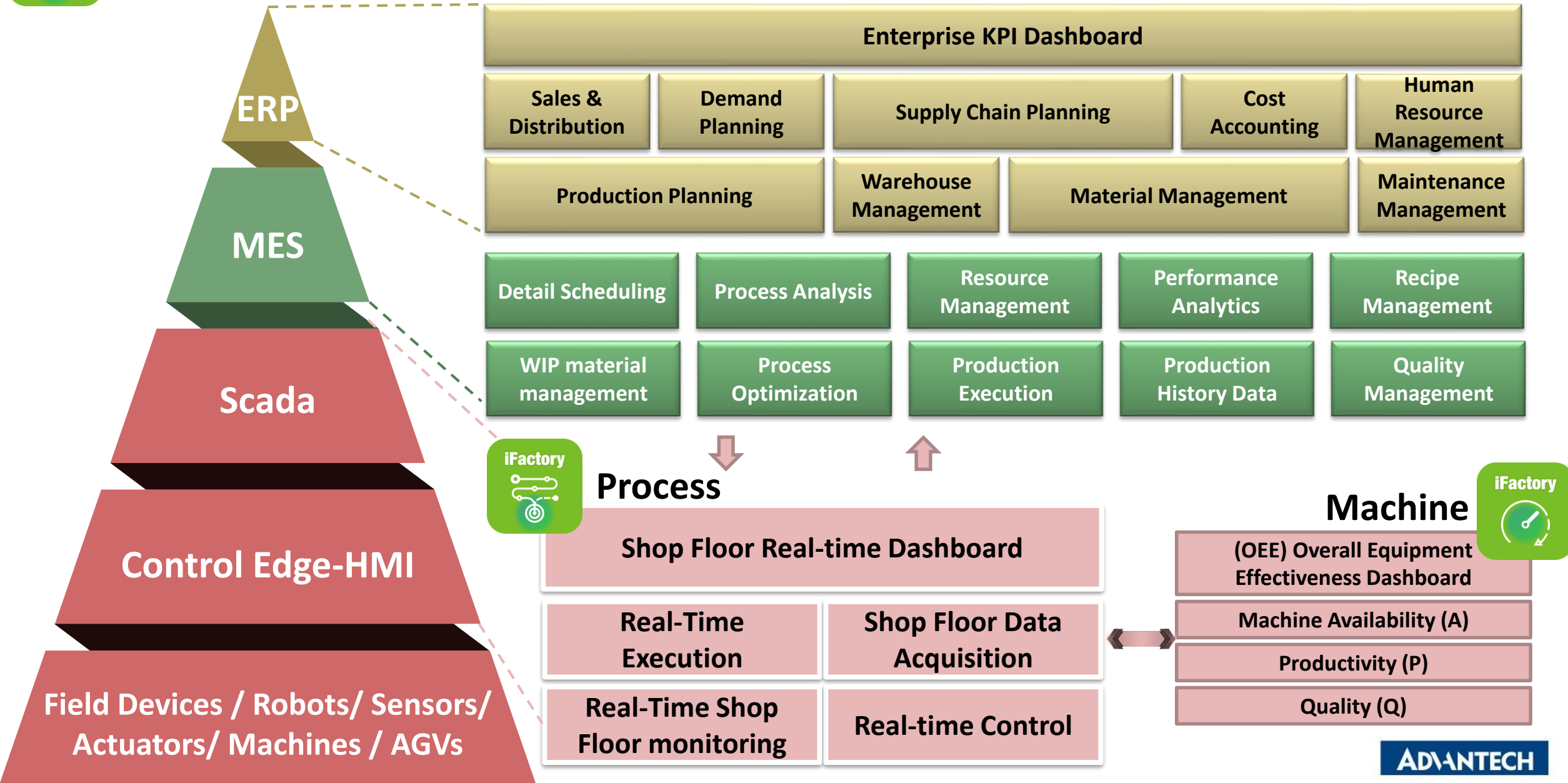


## Footwear and Shoe

Paperless data to workstations, equipment, for intelligent scheduling to provide visual electronic real-time display of the production site



# iFactory/ ShopFloor I.App Co-Relationship Structure



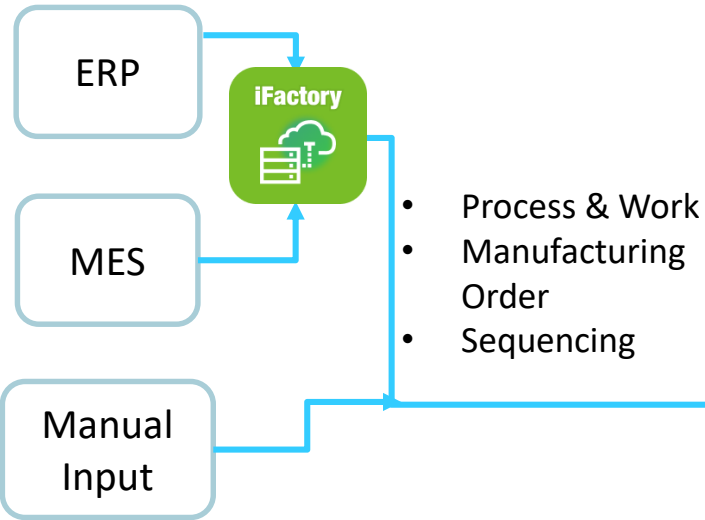


# Features in Shop Floor





# Shop Floor Operational Data Flow



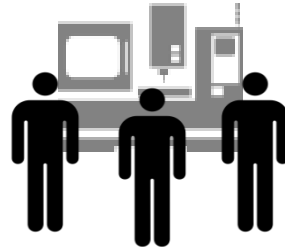
## Shop Floor Control and Management

### Dashboard of WIP / WO Status

iFactory/ShopFloor						
Status of Work Order						
Total Work Orders	Completed Work Orders		Open Work Orders			
24	5		19			
Work Order	Manufacturing Order	Product Name	Target	Count	Status	Plan Start Time
WO-20220329-141046-001-1-1	MO-20220329-141046-001	手机	100	115	Done	2022-03-29 15:42
WO-20220329-141046-001-2-1	MO-20220329-141046-001	手机	100	11	WIP	2022-03-29 18:38
WO-20220329-141046-001-3-1	MO-20220329-141046-001	手机	100	91	WIP	2022-04-01 13:50
WO-20220330-172316-001-1-1	MO-20220330-172316-001	蓝牙耳机	300	300	Done	2022-04-22 10:47
WO-20220330-172316-001-2-1	MO-20220330-172316-001	蓝牙耳机	25	0	New	-
WO-20220330-172316-001-3-1	MO-20220330-172316-001	蓝牙耳机	200	0	New	-
WO-20220330-172316-001-4-1	MO-20220330-172316-001	蓝牙耳机	200	400	Done	2022-04-22 10:46
WO-20220330-172316-001-5-1	MO-20220330-172316-001	蓝牙耳机	300	0	New	-

iFactory/ShopFloor						
Shop Floor Overview						
Work Order In Execution	Top 10 Late Work Order		Defective Rate Process			
4	WO-20220329-141046-001-2-1	手机	37.0 day	手机	4.8%	4.8%
Completed Work Orders	Top 10 Operation Spot		Machine 01			
5	WO-20220329-141046-001-1-1	手机	37.0 day	手机	10.0%	10.0%
Completed Manufacturing Order	Work Order List		Machine 01			
1	MO-20220329-141046-001	手机	35.9 day	手机	6.0%	6.0%

### Job Dispatching/Producing



Order Dispatch	Manufacturing Order	Product Name	Target	Count	Status	Plan Start Time
MO-20220329-141046-001	MO-20220329-141046-001	手机	100	115	Done	2022-03-29 15:42
MO-20220329-141046-001	MO-20220329-141046-001	手机	100	11	WIP	2022-03-29 18:38
MO-20220329-141046-001	MO-20220329-141046-001	手机	100	91	WIP	2022-04-01 13:50

Station	Work Order ID	Product Name	Product Qty	Actual Qty	Status
Station 001	WO-20210106-001	PCB001	100 (PCS)	60 (56 / 4)	WIP
Station 003	WO-20210106-006	PCB002	100 (PCS)	100 (100 / 0)	Done
Station 005	WO-20210106-003	PCB001	100 (PCS)	-	New
	WO-20210106-005	PCB001	10 (PCS)	10 (10 / 0)	In Process
	WO-20210106-005	PCB001	10 (PCS)	10 (10 / 0)	Close



### Job Reports and Records







# ShopFloor Management System – Production Overview

Production overview dashboard can calculate and display the timely status of work orders, facilitating decision-making to improve production efficiencies.

**iFactory/ShopFloor** 2022/05/05 14:45:45 POWERED BY WISE-PaaS

1 RealTime ShopFloor Overview

1-1 Production Overview

1-2 Status of Work Order

Group III

Work Order In Execution		Top 10 Idle Work Order		Defective Rate Process	
Done <b>4</b>	WO-20220329-141046-001-2-1 34%	WO-20220329-141046-001-1-1 37.0 day		打版	4.8%
	WO-20220329-141046-001-2-1 34%	WO-20220329-141046-001-2-1 37.0 day		成型	4.8%
		WO-20220329-141046-001-3-1 37.0 day		精煉	6.3%
		WO-20220330-172316-001-1-1 35.9 day		SMT	10.0%
		WO-20220330-172316-001-2-1 35.9 day		萃取	NaN.0%
				剪裁	10.3%
				原料	NaN.0%
				針車	6.3%
				上底	NaN.0%

Completed Work Orders		Top 10 Operation Spot	
Done <b>5</b>	WO-20220329-141046-001-1-1 145%	Machine_01 NaN.0 year	
	WO-20220330-172316-001-1-1 200%	G7-01240242 23.8 day	
		UG7-01240241 NaN.0 year	
		HG7-01270712 NaN.0 year	

Completed Manufacturing Order		Work Order List						
WorkOrderID	Manufacturing Order ID	Product Name	Qty	Good	No Good	Status	Start Time	Achieve Rate
WO-20220413-153400-001-1	-	-	100	200	10	Done	2022-04-22 10:47:14	200.0%
WO-20220330-172316-001-7-1	MO-20220330-172316-001	運動鞋	100	200	10	Done	2022-04-22 10:48:05	200.0%

Status of Work Order





# ShopFloor Management System – Production Overview

Work order status dashboard **shows real-time progress of production**. Apart from tracking the status of work orders by an operator, it also allows managers to **identify bottlenecks in the production process**.

Work Order	Manufacturing Order	Product Name	Target	Good	Status	Plan Start Time	AchieveRate
<a href="#">WO-20220329-141046-001-1-1</a>	MO-20220329-141046-001	塗料	100	145	Done	2022-03-29 15:42	145.0%
<a href="#">WO-20220329-141046-001-2-1</a>	MO-20220329-141046-001	塗料	100	34	WIP	2022-03-29 18:10	34.0%
<a href="#">WO-20220329-141046-001-3-1</a>	MO-20220329-141046-001	塗料	100	90	WIP	2022-04-01 13:50	90.0%
<a href="#">WO-20220330-172316-001-1-1</a>	MO-20220330-172316-001	運動鞋	100	200	Done	2022-04-22 10:47	200.0%
<a href="#">WO-20220330-172316-001-2-1</a>	MO-20220330-172316-001	運動鞋	25	0	New	-	0%
<a href="#">WO-20220330-172316-001-3-1</a>	MO-20220330-172316-001	運動鞋	200	0	New	-	0%
<a href="#">WO-20220330-172316-001-4-1</a>	MO-20220330-172316-001	運動鞋	200	300	Done	2022-04-22 10:46	150.0%
<a href="#">WO-20220330-172316-001-5-1</a>	MO-20220330-172316-001	運動鞋	100	0	New	-	0%

User friendly reporting widget to build dashboard by end user

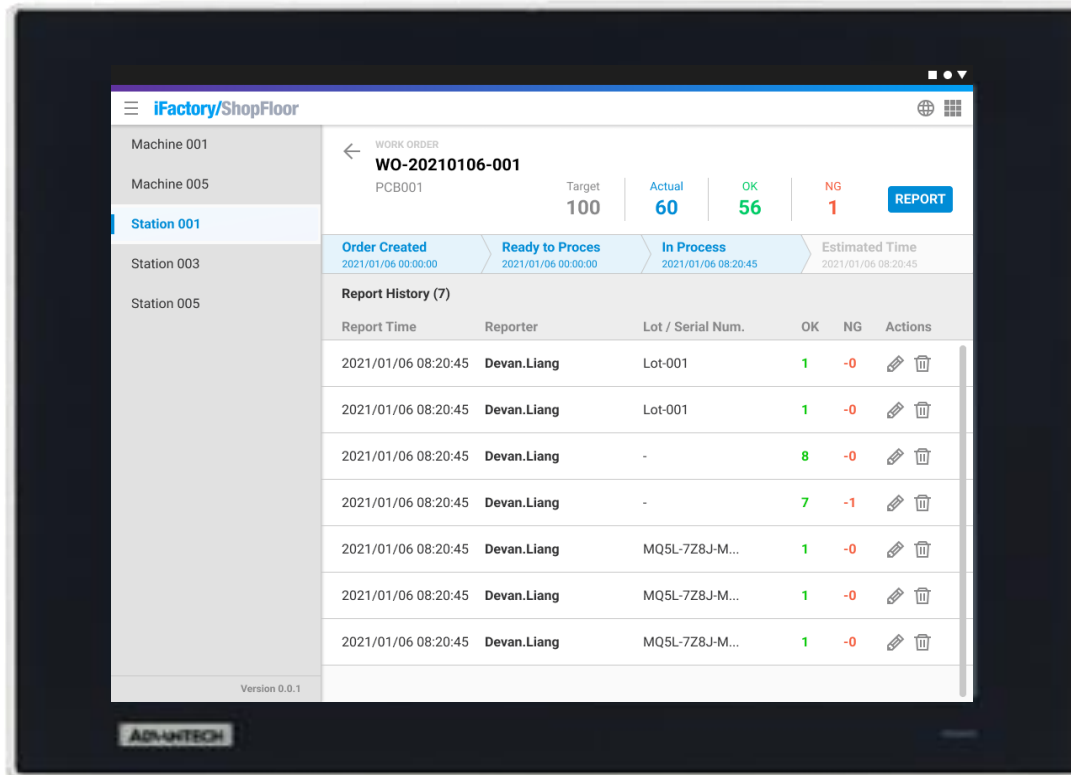
Status of Work Order



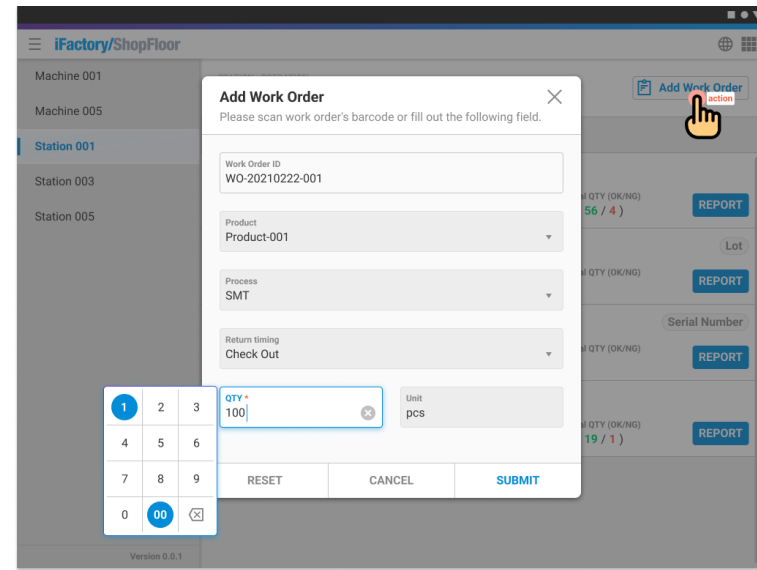


# Job Report

Touch panel job report collects production data and empowers workers and managers with up to the minute production visibility and control. Easy work order reporting interface minimizes operation time.



Touch Panel Job Report



Manufacturing Quantity Report



# Job Report – Work Order

Flexible reports with pre-set work orders. New order creation on touch panel to fulfill any scenario.

**iFactory/ShopFloor**

Machine 001  
Machine 005  
**Station 001**  
Station 003  
Station 005

STATION : OPERATION  
**Station 001 : Visual Inspection** Add Work Order

Open (4) | Done (3) | **All Orders (5)**

Work Order ID	Status	Planned Start Time	Product Name	Product QTY	Actual QTY (OK/NG)	Actions
WO-20210106-001	WIP	2021/01/06 08:10:45	PCB001	100 (PCS)	60 ( 56 / 4 )	REPORT
WO-20210106-006	Done	2021/01/06 00:00:00	PCB002	100 (PCS)	102 ( 100 / 2 )	REPORT
WO-20210106-003	New	2021/01/06 08:10:45	PCB001	100 (PCS)	-	Serial Number REPORT
WO-20210106-005	In Process	2021/01/06 00:00:00	PCB001	10 (PCS)	10 ( 10 / 0 )	REPORT
WO-20210106-005	Close	2021/01/06 00:00:00	PCB001	10 (PCS)	10 ( 10 / 0 )	REPORT

Version 0.0.1

ADVANTECH

Job Report Work Order

**Add Work Order** ×

\* Required

Work Order ID  
WO-20220422-102412-001

Product  
Select...

Process  
Select...

Report timing  
Select...

Qty \*  
Select...

Unit  
Unit

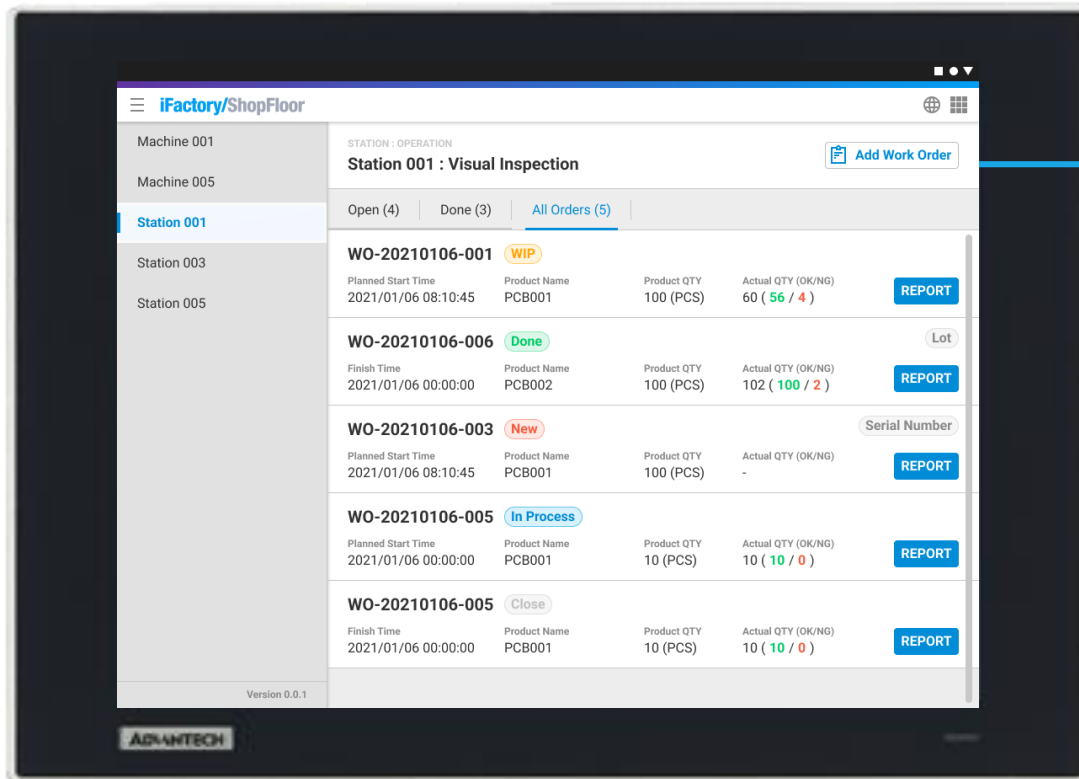
RESET CANCEL SUBMIT

Add New Work Order

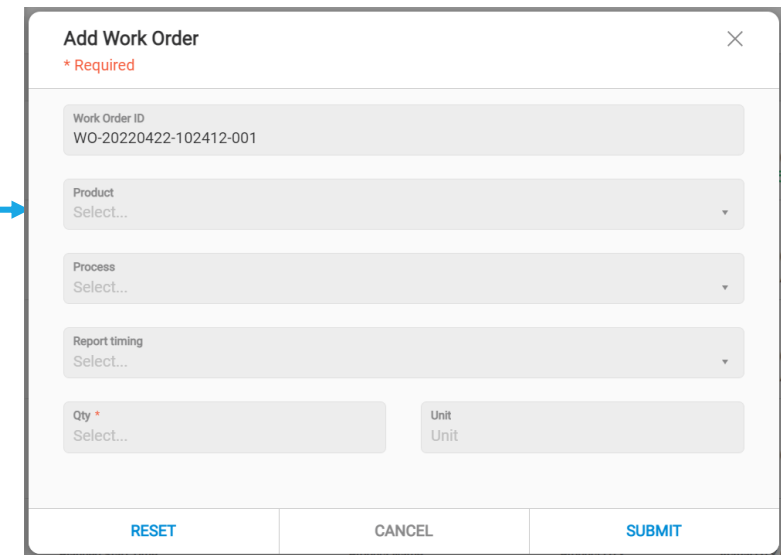


# Multi-Method of Work Order Import

- Flexible work order import method
  - Preset work order options: such as barcode scans, RFID etc.
  - On site work order add function for importing external work orders



Work order Mgmt.



On site work order adding





# Data Settings – Asset Settings

Leverage iFactory/RTM to manage manufacturing assets. MIS can set up essential parameters for Shop Floor usage, such as machine output quantity and abnormal error codes.

ID	Asset Name	Description	Type	Parameter	Date Modified	Date Created
Machine-004	Machine A7041 Group - A	Description	Machine	14	2021/8/5 03:42:33	2021/9/19 00:08:11
Station-002	Station B1982 Group - B/Group - B1	Description	Station	19	2021/8/5 03:42:33	2021/11/9 20:40:49
Station-007	Station B1982 Group - A	Description	Station	11	2021/8/5 03:42:33	2021/9/7 05:46:52
Machine-009	Machine A7041 Group - C/Group - C1	Description	Machine	4	2021/8/5 03:42:33	2021/10/14 23:03:01
Machine-005	Machine A7041 Group - B/Group - B1	Description	Machine	15	2021/8/5 03:42:33	2021/7/1 15:28:56
Machine-010	Machine A7041 Group - E	Description	Machine	9	2021/8/5 03:42:33	2021/9/27 03:35:33

Asset List & Topo.

Parameter Name	Value Type	Unit	Time Interval	Mapping MO...	Last Updated Time	Date Created	Show in ...
Output Description	Number	pcs	0.5	6	2021/01/06 00:00:00	2021/01/06 00:00:00	<input checked="" type="checkbox"/>
Error information collection Description	Discrete		0.5	5	2021/01/06 00:00:00	2021/01/06 00:00:00	<input checked="" type="checkbox"/>
Users Description	Discrete			13	2021/01/06 00:00:00	2021/01/06 00:00:00	<input checked="" type="checkbox"/>
Parameter A Description	String			7	2021/01/06 00:00:00	2021/01/06 00:00:00	<input checked="" type="checkbox"/>
Parameter-008 Description	Discrete			15	2021/01/06 00:00:00	2021/01/06 00:00:00	<input type="checkbox"/>
Error Code Description	Discrete			8	2021/01/06 00:00:00	2021/01/06 00:00:00	<input type="checkbox"/>

Asset Parameter Mgmt.

Select Parameter and display asset parameter list.



# Data Settings – Parameter Settings

Create your own shop floor parameters and settings after importing data source. After configuration, the service can automatically collect essential data from the data source for business logic usage.

The screenshot shows the 'Parameter Settings' page in the iFactory ShopFloor application. The page title is 'Data Settings / Parameter Settings / MOM Parameter'. A table lists several parameters with columns for 'Parameter Name', 'Value Type', 'Unit', 'Data Source', 'Mapping Reporting ...', and 'Time Interval'. The 'Value Type' column has a dropdown menu open, showing options for 'Number', 'Discrete', and 'String'. A blue box highlights the 'MOM Parameter (6)' header, and a blue arrow points from it to the 'Add Parameter' button in the bottom right corner of the table area. The table contains the following data:

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

Parameter List

The 'Add Parameter' dialog box is shown, featuring a 'Dashboard Display Language(s)' list on the left and a 'Primitive (6)' table on the right. The table lists parameters with columns for 'Parameter Name', 'Description', 'Data Source', 'Value Type', 'Unit', and 'Time Interval'. The 'Data Source' column has a dropdown menu open, showing options for 'SCADA001/Grou...'. The 'Value Type' column has a dropdown menu open, showing options for 'Number', 'Unit', and 'Time Interval'. The table contains the following data:

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

Parameter Mapping



# Master Data – Production Area

The Production Area defines your manufacturing process in a tree view and provides an organized way to **configure, control, and analyze your manufacturing activities**. It provides the foundation of production organization on which areas are built.

Production node management

The screenshot displays the iFactory/ShopFloor interface. On the left, a sidebar menu shows 'Master Data' with 'Production Area' selected. Below it, a 'Production node management' window is open, showing fields for 'Area Name' (Production), 'Type' (Other), 'Area Type' (Free Text), 'Time Zone' (UTC+8 Taipei), and 'Description'. A blue arrow points from the 'Production node management' text to this window. The main area shows a tree view of 'Advantech' > 'Advantech Taiwan' > 'Linkou' > 'LK\_Board' > 'LK\_SMT'. A table of equipment is displayed below, with columns for Asset Name, Type, Capacity, Parameter, Date Modified, Date Created, and Actions. The table lists six assets: Machine-003, Station-001, Station-008, Machine-009, Machine-007, and Machine-010.

Asset Name	Type	Capacity	Parameter	Date Modified	Date Created	Actions
Machine-003 ../LK_SMT/LK_SMT_L1	Machine	1000 pcs/s	8	2021/8/5 03:42:33	2021/9/19 00:08:11	[Edit] [Delete]
Station-001 ../LK_SMT/LK_SMT_L1	Station	1000 pcs/min	2	2021/8/5 03:42:33	2021/11/9 20:40:49	[Edit] [Delete]
Station-008 ../LK_SMT/LK_SMT_L1	Station	1000 pcs/h	3	2021/8/5 03:42:33	2021/9/7 05:46:52	[Edit] [Delete]
Machine-009 ../LK_SMT/LK_SMT_L1	Machine	1000 pcs/day	5	2021/8/5 03:42:33	2021/10/14 23:03:01	[Edit] [Delete]
Machine-007 ../LK_SMT/LK_SMT_L1	Machine	-	19	2021/8/5 03:42:33	2021/7/1 15:28:56	[Edit] [Delete]
Machine-010 ../LK_SMT/LK_SMT_L1	Machine	-	3	2021/8/5 03:42:33	2021/9/27 03:35:33	[Edit] [Delete]

Establish equipment relations and production areas on touch panels

Production Area







# Master Data – Shift Management

For production data analysis across shifts, we provide a feature for defining shifts during production runs. **Shift Management** allows production managers to quickly and easily manage schedules on site.

The screenshot displays the iFactory/ShopFloor interface for Shift Management. The main view shows a hierarchy: Master Data > Shift Management > Shift - 001 > Schedule. The 'Schedule' tab is active, showing a table of shifts for Monday and Tuesday. The 'Operator' tab is also visible, showing a list of operators with their details.

Week & Shift Name	Start time	End time	First Shift
<input type="checkbox"/> Monday			
<input type="checkbox"/> Morning shift	08:00	12:00	✓
<input type="checkbox"/> Lunch time	12:00	13:00	
<input type="checkbox"/> Noon shift	13:00	15:30	
<input type="checkbox"/> Break time	15:30	15:45	
<input type="checkbox"/> Midday shift	15:45	17:00	
<input type="checkbox"/> Tuesday			
<input type="checkbox"/> Morning shift	08:00	12:00	✓
<input type="checkbox"/> Lunch time	12:00	13:00	
<input type="checkbox"/> Noon shift	13:00	15:30	
<input type="checkbox"/> Break time	15:30	15:45	
<input type="checkbox"/> Midday shift	15:45	17:00	

Index	Operator Name	Description	Position	Phone	E-Mail	Status	Actions
1	Savannah Nguyen	Description	Supervisor	(+886) 968110198	nevah.simmons@example.com	Enable	
2	Robert Fox	Description	Member	(+886) 968552310	nathan.roberts@example.com	Enable	
3	Brooklyn Simmons	Description	Member	(+886) 923148004	michael.mito@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	

Define shifts by work day, weekday, days of the week

Shift Operator List

Shift Group List



# Master Data – Shift Management

Shift Management is a tool to manage the shifts of employees. Based on the schedule and dedicated operators, you will be able to know the state and productivity of your teams.

The screenshot displays the 'iFactory/ShopFloor' interface for 'Shift Management / Operator'. A table lists operators with columns for Name, Description, Member Shift, Phone, E-Mail, Status, Date Modified, Date Created, and Actions. Two modal windows are overlaid: 'Edit Operator "Wade Warren"' and 'Add Operator'. The 'Edit Operator' window has a 'Select Shift' button circled in blue. The 'Add Operator' window shows a list of shifts and a 'Selected (5)' list with a role dropdown menu.

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	micl				
Guy Hawkins	Description	3	(+886) 925174246	curt				
Marvin McKinney	Description	9	(+886) 951614382	felic				
Annette Black	Description	18	(+886) 930019949	micl				

**Operator information editing**

**Associate operator with shifts & set up role**

Shift Operator Management





# Master Data – Products

Depending on the manufacturing processes which have been set under products, shop floor will incorporate due dates and sequencing of work orders through the manufacturing workflow, which can improve efficiency.

Master Data / Products

Product ID	Product Name	Type	Unit	Cycle Time	Route	Current Version	Date Modified	Date Created	Actions	
1	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	
2	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	
3	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	
4	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	
5	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	
6	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	

Product List

Add Product

Dashboard Display Language(s)

English (Default)

Français

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 \*  
pes

Cycle Time \*  
00:00:30

CANCEL SUBMIT

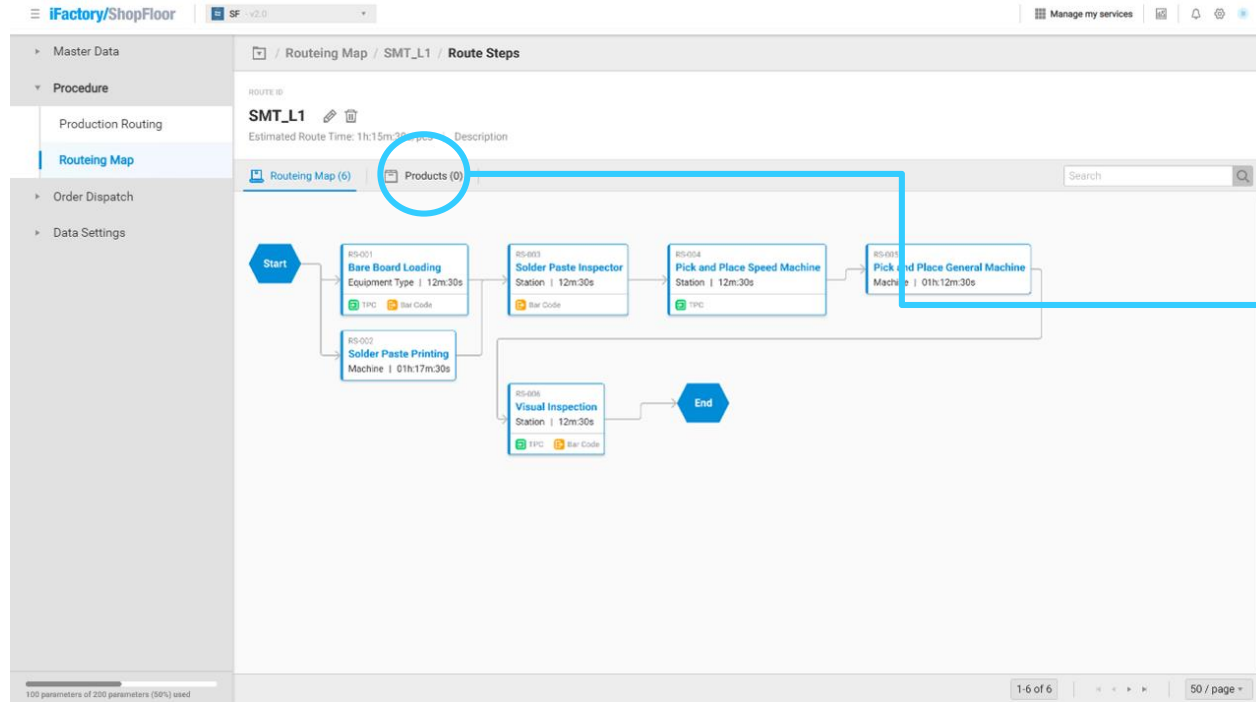
Product Settings

Product Detail Information



# Procedure – Routing Map & Production Routing

The procedure module provides the functionality to define important pieces of manufacturing. By breaking down the process in the labor and machine groups, production routing allows you to define operations as a combination of these elements. You can then create routings as a set of step-by-step operations for use in the order dispatch module without needing to recreate them every time.



Routing Map

The 'Add Route' dialog shows the configuration for route R-001. The table below lists the route steps and their settings:

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"/>	

Setting up routing flow, report timing, methods, and quantity conversion rates.

Routing Step Settings



# Work Dispatching – Order Dispatch

Managers of production create work orders and schedule production dates and dispatch those to every workstation through WISE- Shop Floor Order Dispatch.

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...	<input type="checkbox"/>	
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...	<input checked="" type="checkbox"/>	
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...	<input checked="" type="checkbox"/>	
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...	<input type="checkbox"/>	
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...	<input checked="" type="checkbox"/>	
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...	<input checked="" type="checkbox"/>	

Add manufacturing orders & work orders

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	

Work Order Management

Add New Work Order



# Touch Panel Initialization

One-step touch panel initialization by submitting an auto-generated ID.

≡ iFactory/ShopFloor ↶ 🌐 ☰

## Touch Panel initialization

**Touch Panel UUID \***

**Touch Panel Name \***

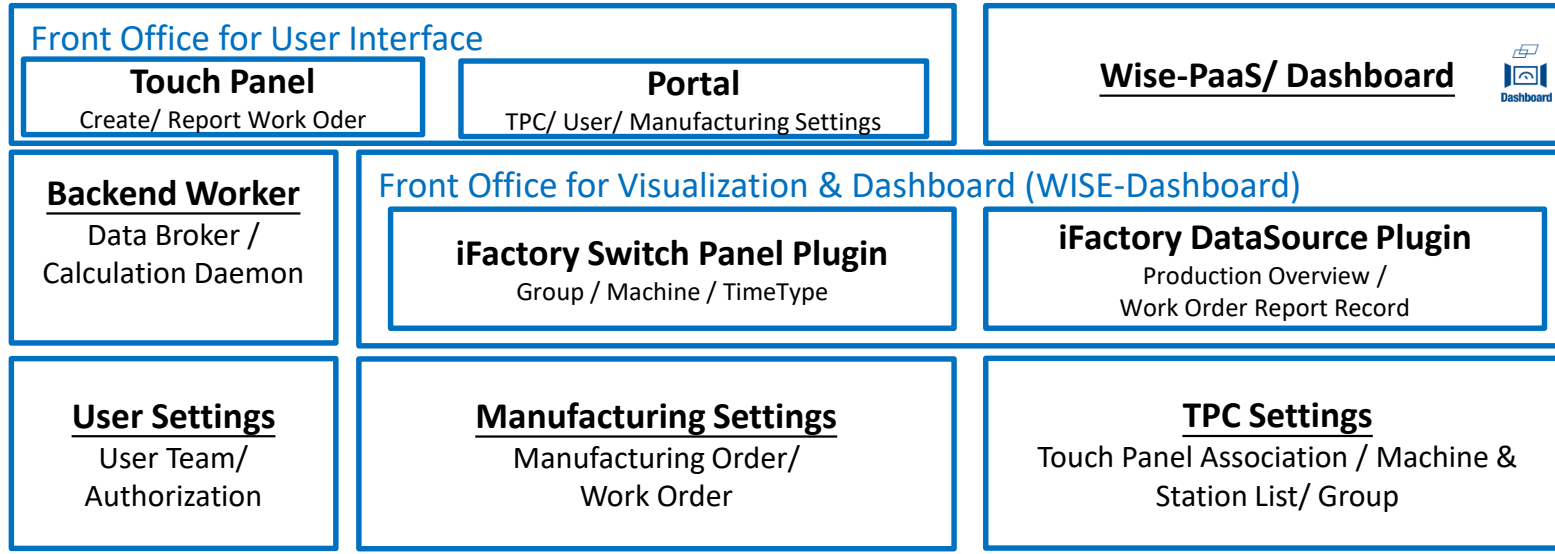
**Submit**

# iFactory ShopFloor Architecture

**I.App**

**ShopFloor**

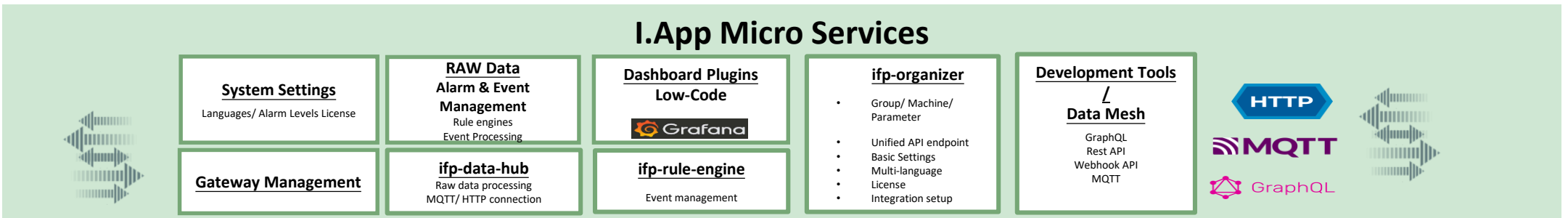
Desk  
Connection



APP  
Register

**RTM**

**Desk**



**Platform / Environment**



**WISE-EnSaaS**

**WISE-IoTSuite**

**ADVANTECH**

# Co-Creating the Future of the IoT World

