

WIP Table Schema



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2019/06/10 v1.1

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Discrete Job Base Tables

Table Name	Alias	Description
WIP_ENTITIES	we	工單實體檔
WIP_DISCRETE_JOBS	wdj	分散式工單單頭檔
WIP_REQUIREMENT_OPERATIONS	wro	工單材料需求明細檔
WIP_OPERATIONS	wo	工單作業站別明細檔
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WIP_ENTITIES

工單實體檔

1. 工單 ID、工單號碼，定義在這個 table 裡面；

Key Columns	Description	必要
ORGANIZATION_ID	組織 ID	Y
WIP_ENTITY_ID	工單 ID	Y
WIP_ENTITY_NAME	工單號碼	Y
ENTITY_TYPE	工單類別 (1: 未結案的工單 3: 已結案的工單)	Y
PRIMARY_ITEM_ID	工單組裝料號 ID	

WIP_DISCRETE_JOBS

分散式工單單頭檔

1. 分散式工單單頭資料，如工單類別、數量、開完工日期等，定義在這個 table 裡面；

Key Columns	Description	必要
ORGANIZATION_ID	組織 ID	Y
WIP_ENTITY_ID	工單 ID	Y
CLASS_CODE	工單類別	Y
START_QUANTITY	工單開工數量	Y
NET_QUANTITY	工單 MRP Net 數量	Y
PRIMARY_ITEM_ID	工單組裝料號 ID	
QUANTITY_COMPLETED	工單已完工數量	Y
STATUS_TYPE	工單狀態 (1: 未核發 3: 已核發 4: 已完工 5: 已完工不允認列費用 7: 取消 12: 已結案)	Y
SCHEDULED_START_DATE	工單預計開工日期	Y
SCHEDULED_COMPLETION_DATE	工單預計完工日期	Y
DATE_RELEASED	工單實際核發日期	
DATE_COMPLETED	工單實際完工日期	
DATE_CLOSED	工單實際結案日期	
COMPLETION_SUBINVENTORY	工單預設完工入庫庫房名稱	
JOB_TYPE	工單類別 (1: 標準工單 3: 非標準工單)	Y
FIRM_PLANNED_FLAG	工單 Firm 選項	Y

WIP_DISCRETE_JOBS

Path: (N) WIP > Discrete > Discrete Jobs

工單號碼和組裝料號，定義在 WIP_ENTITIES

其他工單資料，都定義在 WIP_DISCRETE_JOBS

WIP:Discrete:Discrete Jobs

Discrete Jobs

- WIP

- Notifications Summary
- + Material Transactions
- + Move Transactions
- + Resource Transactions
- Discrete
 - Discrete Jobs
 - Discrete Jobs (BMC)
 - Discrete Workstation
- + Component Pick Release
- Job Workbench
- Resource Workbench
- Simulate Discrete Jobs
- Import Jobs and Schedules
- AutoCreate Orders
- Update OSP Need-by Date
- + Close Discrete Jobs
- + Purge Discrete Jobs
- View Discrete Jobs
- View Genealogy
- Pending Jobs and Schedules

Discrete Jobs (M1)

Job: 266412
Assembly: AS54888-LCS01

Type: Standard

Class: Discrete
Status: Released

UOM: Ea
☐ Firm

Quantities
Start: 1000
MRP Net: 1000

Dates
Start: 21-MAR-2017 00:00:00
Completion: 21-MAR-2017 00:00:00

Reference:
Alternate:
Revision: A
Supply Type: Based on Bill

Revision Date: 21-MAR-2017 17:50:00

Serial Numbers Sales Orders Operations Components

WIP_REQUIREMENT_OPERATIONS

工單材料需求明細檔

1. 工單材料需求明細，以及實際的已發料數量，記錄在這個 table 裡面；

Key Columns	Description	必要
ORGANIZATION_ID	組織 ID	Y
WIP_ENTITY_ID	工單 ID	Y
OPERATION_SEQ_NUM	投料站別號碼	Y
INVENTORY_ITEM_ID	材料料號 ID	Y
QUANTITY_PER_ASSEMBLY	單位用量	Y
COMPONENT_YIELD_FACTOR	材料良率	Y
DATE_REQUIRED	需求日期	Y
REQUIRED_QUANTITY	需求數量	Y
QUANTITY_ISSUED	已發料數量	Y
MRP_NET_FLAG	是否列入 MRP 考慮	Y
MPS_DATE_REQUIRED	需求日期 (MRP 看這個欄位)	
MPS_REQUIRED_QUANTITY	需求數量 (MRP 看這個欄位)	
WIP_SUPPLY_TYPE	發料方式 (1: Push 2: Assembly Pull 3: Operation Pull 4: Bulk 5: Supplier)	Y
COMPONENT_SEQUENCE_ID	此項材料需求對應的 BOM 記錄 ID	

WIP_REQUIREMENT_OPERATIONS

Path: (N) WIP > Discrete > Discrete Jobs > (Button) Components

The screenshot shows the 'Discrete Jobs (M1)' window. The 'Job' field is 266412, 'Assembly' is AS54888-LCS01, and 'Type' is Standard. The 'Class' is Discrete and 'Status' is Released. The 'Quantities' section shows 'Start' as 1000 and 'MRP Net' as 1000. The 'Dates' section shows 'Start' as 21-MAR-2017 00:00:00 and 'Completion' as 21-MAR-2017 00:00:00. The 'Reference' field is empty, 'Alternate' is A, and 'Revision' is Based on Bill. The 'Revision Date' is 21-MAR-2017 17:50:00. At the bottom, there are buttons for 'Serial Numbers', 'Sales Orders', 'Operations', and 'Components'. The 'Components' button is highlighted with a red rectangle.

The screenshot shows the 'Material Requirements (M1)' window. The 'Job' field is 266412, 'Assembly' is AS54888-LCS01, and 'Line' is empty. The 'Start Date' is 21-MAR-2017 00:00:00 and 'Operation Seq Num' is empty. The 'Main' tab is selected, and the 'Quantities' sub-tab is active. The table below shows the material requirements for various components.

Component	UOM	Type	Basis	Per Assembly	Inverse Usage	Yield	Required	Issued	Open	On Hand	
CM00101	Ea	Item	1	1	1	1	1000	100	900	14904	...
CM18759	Ea	Item	2	5	1	1	2000	200	1800	15622	...
CM28287	Ea	Item	1	1	1	1	1000	100	900	15431	...
CM42047	Ea	Item	1	1	1	1	1000	100	900	12317	...
CM86324	Ea	Item	1	1	1	1	1000	100	900	31961	...
SB34701	Ea	Item	2	5	1	1	2000		2000	10398	...
SB55105	Ea	Item	0	0	1	0	0		0	10535	...
SB86662	Ea	Item	0	0	1	0	0		0	12482	...
SB90207	Ea	Item	1	1	1	1	1000	100	900	12909	...

At the bottom of the table, there are buttons for 'Select All' and 'Check ATP'.

WIP_OPERATIONS

工單作業站別明細檔

1. 工單作業站別明細，以及各站目前的在製品數量，記錄在這個 table 裡面；

Key Columns	Description	必要
ORGANIZATION_ID	組織 ID	Y
WIP_ENTITY_ID	工單 ID	Y
OPERATION_SEQ_NUM	作業站別號碼	Y
DEPARTMENT_ID	部門 ID	Y
QUANTITY_IN_QUEUE	在製品數量 (狀態：等待中)	Y
QUANTITY_RUNNING	在製品數量 (狀態：加工中)	Y
QUANTITY_WAITING_TO_MOVE	在製品數量 (狀態：等候移轉)	Y
QUANTITY_REJECTED	在製品數量 (狀態：判退待處理)	Y
QUANTITY_SCRAPPED	在製品數量 (狀態：報廢)	Y
QUANTITY_COMPLETED	本站完成數量 (包含「等候移轉、判退、報廢」三項，及已移轉出去的數量)	Y
FIRST_UNIT_START_DATE	本站預計開始日期	Y
LAST_UNIT_COMPLETION_DATE	本站預計結束日期	Y
COUNT_POINT_TYPE	是否為計數站 (Count Point) 和自動認列資源站 (Autocharge) 1: Count Point = Yes, Autocharge = Yes 2: Count Point = No, Autocharge = Yes 3: Count Point = No, Autocharge = No	Y
BACKFLUSH_FLAG	是否為扣料站 (是否要在本站觸發 Backflush) (1: Yes 2: No)	Y

WIP_OPERATIONS

Path: (N) WIP > Discrete > Discrete Jobs > (Button) Operations

Navigator - Manufacturing and Distribution Manager

Functions Documents Pa Discrete Jobs (M1)

WIP:Discrete:Discrete Jobs

Discrete Jobs

- WIP
- Notifications Summary
- + Material Transactions
- + Move Transactions
- + Resource Transactions
- Discrete
- Discrete Jobs
- Discrete Jobs (Bill of Materials)
- Discrete Workstation
- + Component Pick List
- Job Workbench
- Resource Workbench
- Simulate Discrete
- Import Jobs and Schedules
- AutoCreate Order
- Update OSP Needs
- + Close Discrete Job
- + Purge Discrete Job
- View Discrete Job
- View Genealogy
- Pending Jobs and Schedules
- WIP Value Summary
- AUWIPM0001
- AUWIPM0001_PMM

Job: 266412 Type: Standard

Assembly: AS54888-LCS01 Sentinel Standard Desktop (Lucas Test 01) 20160630

Class: Discrete UOM: Ea

Status: Released ☐ Firm

Quantities: Start: 1000 MRP Net: 1000

Dates: Start: 21-MAR-2017 00:00:00 Completion: 21-MAR-2017 00:00:00

Bill Routing Job History Schedule Group, Project Scheduling More

Reference: Alternate: Revision: A Revision Date: 21-MAR-2017 17:50:00

Supply Type: Based on Bill

Serial Numbers Sales Orders Operations Components

Operations (M1)

Find Job or Schedule

Job: 266412 Line:

Assembly: AS54888-LCS01 Sentinel Standard Desktop (Lucas Test 01) 20160630

Start Date: 21-MAR-2017 00:00:00

Operations

Main Quantities Dates Description

Seq	In	Queue	Running	To Move	Rejected	Scrapped	Completed	
10	800						200	
20	100			100			100	

Operation Competencies Components Resources

WIP_OPERATION_RESOURCES

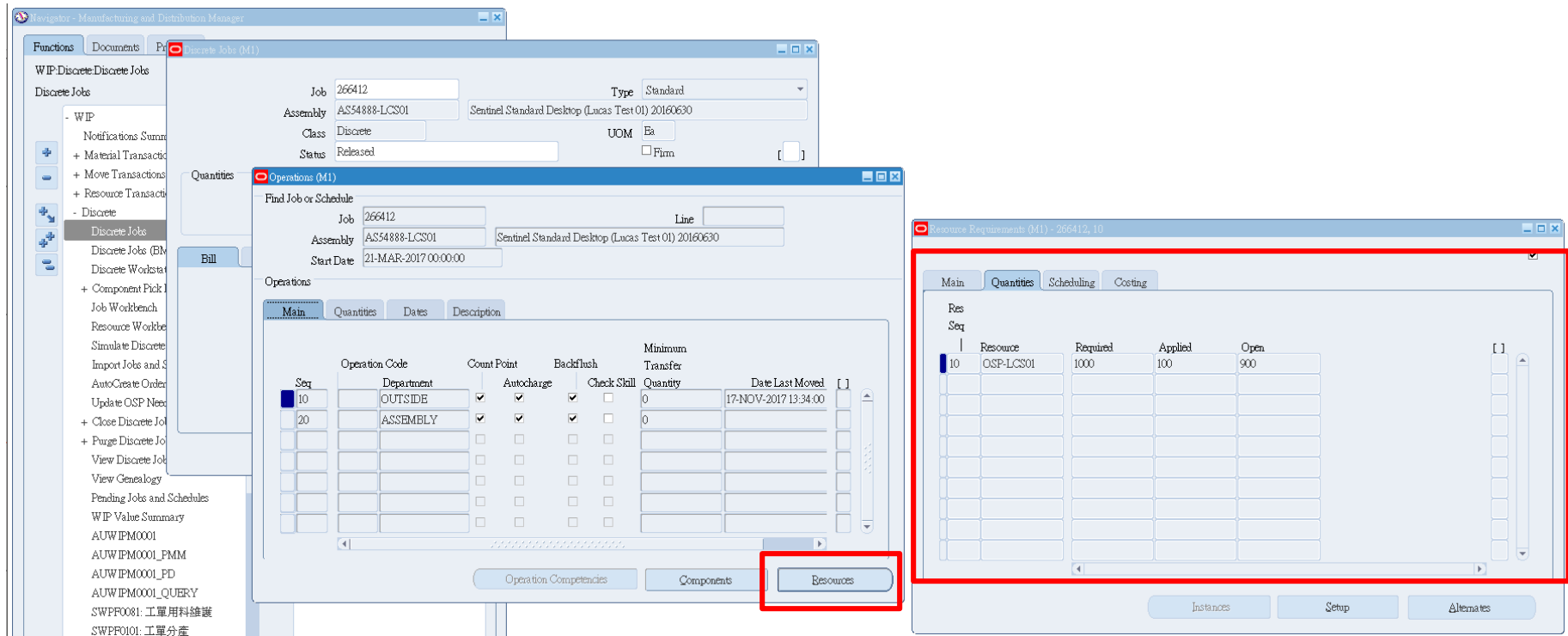
工單作業站資源需求明細檔

1. 工單每個作業站的資源需求明細，以及各項資源已認列數量，記錄在這個 table 裡面；
2. 此 table 裡面只有各項資源的單位用量、沒有「需求數量」，需要自行按照每一項資源的 BASIS_TYPE 去計算得到：
BASIS_TYPE = 1 (By Item)：用 USAGE_RATE_OR_AMOUNT 乘以工單數量，得到該項資源的需求數量；
BASIS_TYPE = 2 (By Lot)：USAGE_RATE_OR_AMOUNT 即為該項資源的需求數量；

Key Columns	Description	必要
ORGANIZATION_ID	組織 ID	Y
WIP_ENTITY_ID	工單 ID	Y
OPERATION_SEQ_NUM	作業站別號碼	Y
RESOURCE_SEQ_NUM	資源項目號碼	Y
DEPARTMENT_ID	部門 ID	Y
RESOURCE_ID	資源項目 ID	Y
USAGE_RATE_OR_AMOUNT	資源項目單位用量	Y
APPLIED_RESOURCE_UNITS	資源項目已認列數量	Y
BASIS_TYPE	資源認列基礎 (1: By Item 2: By Lot)	Y
SCHEDULED_FLAG	是否參與排程計算	Y
AUTOCHARGE_TYPE	資源認列方式 (1: WIP move 2: Manual 3: PO receipt 4: PO move)	Y
STANDARD_RATE_FLAG	是否依照標準用量產生相關分錄	Y

WIP_OPERATION_RESOURCES

Path: (N) WIP > Discrete > Discrete Jobs > (Button) Operations > (Button) Resources



The screenshot displays the SAP WIP (Work in Process) interface. The left sidebar shows the navigation tree with 'Discrete Jobs' selected. The main window is titled 'Operations (M1)' and contains a table of operations. The 'Resources' button at the bottom is highlighted with a red box. To the right, the 'Resource Requirements (M1) - 266412, 10' window is open, showing a table of resource requirements for the selected operation. The 'Resources' button in the 'Operations (M1)' window is highlighted with a red box.

Operations (M1) Table:

Seq	Operation Code	Count Point	Backflush	Minimum Transfer	Date Last Moved
10	OUTSIDE	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	0	17-NOV-2017 13:34:00
20	ASSEMBLY	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	0	
		<input type="checkbox"/>	<input type="checkbox"/>		
		<input type="checkbox"/>	<input type="checkbox"/>		
		<input type="checkbox"/>	<input type="checkbox"/>		
		<input type="checkbox"/>	<input type="checkbox"/>		
		<input type="checkbox"/>	<input type="checkbox"/>		
		<input type="checkbox"/>	<input type="checkbox"/>		

Resource Requirements (M1) - 266412, 10 Table:

Res Seq	Resource	Required	Applied	Open
10	OSP-LCS01	1000	100	900

MTL_RESERVATIONS

工單保留給訂單明細檔

1. 工單保留給訂單的明細，記錄在這個 table 裡面；
2. 此 table 的內容即為 INV 模組的 Reservation 畫面內容；
3. 工單完工入庫後，此畫面的資料會自動從「工單保留給訂單」關係轉成「庫存保留給訂單」關係，原來的保留關係會消失；

Key Columns	Description	必要
ORGANIZATION_ID	組織 ID	Y
RESERVATION_ID	此筆保留記錄的 ID	Y
INVENTORY_ITEM_ID	料號 ID	Y
DEMAND_SOURCE_TYPE_ID	需求來源類別 (2: 訂單)	Y
DEMAND_SOURCE_HEADER_ID	訂單單頭 ID	Y
DEMAND_SOURCE_LINE_ID	訂單明細行 ID	Y
RESERVATION_QUANTITY	保留數量 (訂單 UOM)	Y
PRIMARY_RESERVATION_QUANTITY	保留數量 (料號 UOM)	Y
SUPPLY_SOURCE_TYPE_ID	供來來源類別 (5: 工單)	Y
SUPPLY_SOURCE_HEADER_ID	工單 ID	Y

MTL_RESERVATIONS

Path: (N) WIP > Discrete > Discrete Jobs > (Button) Sales Orders

The screenshot displays the SAP Navigator interface for Manufacturing and Distribution Manager. The left-hand menu shows the navigation path: WIP > Discrete > Discrete Jobs. The main window is titled 'Discrete Jobs (M1)' and contains fields for Job (266412), Assembly (AS54888-LCS01), Class (Discrete), Status (Released), Type (Standard), UOM (Ea), and Dates (Start: 21-MAR-2017 00:00:00). Below these fields are tabs for Bill, Routing, Job History, Schedule Group, Project, and Scheduling. The 'Sales Orders' button at the bottom is highlighted with a red box.

The 'Sales Orders' window is open, showing a table of reservations. The table has columns for Sales Order, Line, Demand Class, Primary Qty Reserved, Primary UOM, Quantity Reserved, and Line UOM. The first row is highlighted with a red box and contains the following data:

Sales Order	Line	Demand Class	Primary Qty Reserved	Primary UOM	Quantity Reserved	Line UOM
1037.Mixed.ORDER ENTR		WEST	55	Ea	55	Ea

The total quantity reserved is 55.

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Discrete Job Interfaces

Table Name	Alias	Description
WIP_JOB_SCHEDULE_INTERFACE	wjsi	工單單頭介面檔
WIP_JOB_DTLS_INTERFACE	wjdi	工單單身介面檔

WIP_JOB_SCHEDULE_INTERFACE

工單單頭介面檔

1. 要從外部匯入或修改工單單頭資料時，先將資料寫入這個 table 裡面，再執行「WIP Mass Load」程式執行匯入；

Key Columns	Description	必要
GROUP_ID	介面資料群組 ID	Y
ORGANIZATION_ID	組織 ID	Y
LOAD_TYPE	匯入種類 (1: 新增標準工單 3: 修改工單 4: 新增非標準工單)	Y
JOB_NAME	工單號碼	Y
PRIMARY_ITEM_ID	工單組裝料號 ID	
START_QUANTITY	工單開工數量	Y
NET_QUANTITY	工單 MRP Net 數量	Y
CLASS_CODE	工單類別	Y
ALTERNATE_BOM_DESIGNATOR	使用主途程或替代途程	
ALTERNATE_ROUTING_DESIGNATOR	使用主料表或替代料表	
FIRST_UNIT_START_DATE	工單預計開工日期	Y
LAST_UNIT_COMPLETION_DATE	工單預計完工日期	Y
HEADER_ID	介面資料單頭 ID (與 WIP_JOB_DTLS_INTERFACE 的 PARENT_HEADER_ID 對應)	Y
ALLOW_EXPLOSION	是否要按照 BOM / Routing 重新展開工單單身內容 (Y/N)	Y
PROCESS_PHASE	處理階段 (2: Validation 3: Explosion 4: Completion 5: Creation)	Y
PROCESS_STATUS	處理狀態 (1: Pending 2: Running 3: Error 4: Complete 5: Warning)	Y

WIP_JOB_SCHEDULE_INTERFACE

補充說明：

1. 也可以直接 Call API [WIP_MASSLOAD_PUB.massLoadJobs](#) 去執行匯入；
 - (1) 依照傳回值 x_returnStatus = FND_API.G_RET_STS_SUCCESS 判斷是否成功匯入；
 - (2) 如果匯入時有錯誤，可以從 [WIP_INTERFACE_ERRORS](#) 取得錯誤訊息內容；

WIP_JOB_SCHEDULE_INTERFACE

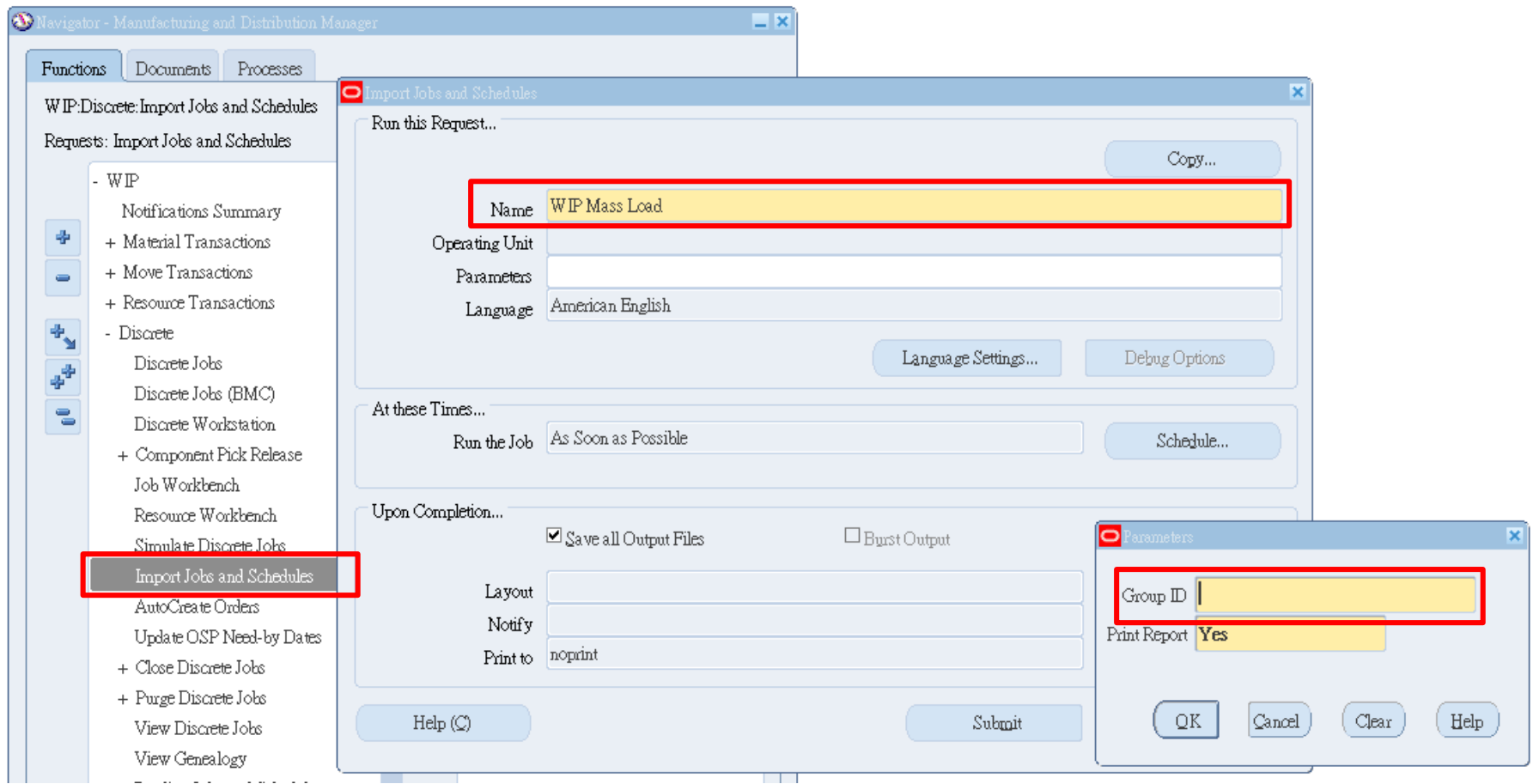
Path: (N) WIP > Discrete > Discrete Jobs > Pending Jobs and Schedules

The screenshot displays the 'WIP:Discrete:Pending Jobs and Schedules' interface. The left sidebar shows a tree view with 'Pending Jobs and Schedules' highlighted. The main window contains a table of job data with columns: Group ID, Phase, Status, Request ID, Source Code, and Source Line ID. The table is filtered to show pending jobs.

Group ID	Phase	Status	Request ID	Source Code	Source Line ID
-999	Validation	Pending		MRP	11086350
4072724	Complete	Complete	6745682	WICDOL	496483
4073722	Complete	Complete	6832138	JHOMP22	
4073724	Complete	Complete	6832194	JHOMP22	
4073726	Complete	Complete	6832387	JHOMP22	
4073728	Complete	Complete	6832387	JHOMP22	
4073730	Complete	Complete	6832387	JHOMP22	
4073732	Complete	Complete	6843654	JHOMP22	
4073734	Complete	Complete	6843654	JHOMP22	
4073736	Complete	Complete	6843654	JHOMP22	

WIP_JOB_SCHEDULE_INTERFACE

Path: (N) WIP > Discrete > Discrete Jobs > Import Jobs and Schedules



WIP_JOB_DTLS_INTERFACE

工單單身介面檔

1. 要從外部匯入或修改工單身資料時，先將資料寫入這個 table 裡面，再執行「WIP Mass Load」程式執行匯入；
2. 該工單必須在 WIP_JOB_SCHEDULE_INTERFACE 裡面也有資料，程式才會做處理；
3. 要新增/修改/刪除工單的材料需求、作業站別、作業資源需求，都是透過這個 table；

Key Columns	Description	必要
GROUP_ID	介面資料群組 ID	Y
ORGANIZATION_ID	組織 ID	Y
LOAD_TYPE	匯入種類 (1: 資源需求 2: 材料需求 3: 作業站, 4: 資源用量)	Y
PARENT_HEADER_ID	介面資料單頭 ID (與 WIP_JOB_SCHEDULE_INTERFACE 的 HEADER_ID 對應)	Y
WIP_ENTITY_ID	工單 ID	
OPERATION_SEQ_NUM	作業站別號碼	Y
SUBSTITUTION_TYPE	要執行的動作 (1: Delete 2: Add 3: Change)	Y
PROCESS_PHASE	處理階段 (2: Validation 3: Explosion 4: Completion 5: Creation)	Y
PROCESS_STATUS	處理狀態 (1: Pending 2: Running 3: Error 4: Complete 5: Warning)	Y

(上面是共通的資料欄位，不管要匯入是那一種類別的資料都需要提供)

(下面三頁會逐項說明各種類別匯入資料必須提供的資料欄位)

WIP_JOB_DTLS_INTERFACE

(續) 匯入工單材料需求 (Components) 時，必須提供的資料欄位：

Key Columns	Description	必要
INVENTORY_ITEM_ID_OLD	舊材料料號 ID (要修改或刪除工單現有材料需求時，提供此欄位)	Y (二擇一)
INVENTORY_ITEM_ID_NEW	新材料料號 ID (要新增工單現有材料需求時，提供此欄位)	
QUANTITY_PER_ASSEMBLY	單位用量	Y
DATE_REQUIRED	需求日期	Y
REQUIRED_QUANTITY	需求數量	Y
MPS_DATE_REQUIRED	需求日期 (MRP 看這個欄位)	Y
MPS_REQUIRED_QUANTITY	需求數量 (MRP 看這個欄位)	Y
QUANTITY_ISSUED	已發料數量	
MRP_NET_FLAG	是否列入 MRP 考慮	Y
WIP_SUPPLY_TYPE	發料方式 (1: Push 2: Assembly Pull 3: Operation Pull 4: Bulk 5: Supplier)	Y
COMPONENT_YIELD_FACTOR	材料良率	Y
SUPPLY_SUBINVENTORY	預設發料倉庫	
SUPPLY_LOCATOR_ID	預設發料儲位	

WIP_JOB_DTLS_INTERFACE

(續) 匯入工單作業站 (Operations) 時，必須提供的資料欄位：

Key Columns	Description	必要
DEPARTMENT_ID	部門 ID	Y
STANDARD_OPERATION_ID	標準作業站 ID	
COUNT_POINT_TYPE	是否為計數站 (Count Point) 和自動認列資源站 (Autocharge) 1: Count Point = Yes, Autocharge = Yes 2: Count Point = No, Autocharge = Yes 3: Count Point = No, Autocharge = No	Y
BACKFLUSH_FLAG	是否為扣料站 (是否要在本站觸發 Backflush) (1: Yes 2: No)	Y
FIRST_UNIT_START_DATE	本站首件預計開工日期	Y
FIRST_UNIT_COMPLETION_DATE	本站首件預計完工日期	Y
LAST_UNIT_START_DATE	本站末件預計開工日期	Y
LAST_UNIT_COMPLETION_DATE	本站末件預計完工日期	Y

WIP_JOB_DTLS_INTERFACE

(續) 匯入工單作業站資源需求 (Operation Resources) 時，必須提供的資料欄位：

Key Columns	Description	必要
DEPARTMENT_ID	部門 ID	Y
RESOURCE_SEQ_NUM	資源項目號碼	Y
RESOURCE_ID_OLD	舊的資源項目 ID (要修改或刪除工單現有作業站資源需求時，提供此欄位)	Y (二擇一)
RESOURCE_ID_NEW	新的資源項目 ID (要新增工單現有作業站資源需求時，提供此欄位)	
USAGE_RATE_OR_AMOUNT	資源項目單位用量	Y
BASIS_TYPE	認列基礎 (1: By Item 2: By Lot)	Y
SCHEDULED_FLAG	是否參與排程計算	Y
AUTOCHARGE_TYPE	認列方式 (1: WIP move 2: Manual 3: PO receipt 4: PO move)	Y
STANDARD_RATE_FLAG	是否依照標準用量產生相關分錄	Y

Contents

- Discrete Job Base Tables
- Discrete Job Interfaces
- Transactions Base Tables
- Transactions Interfaces
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Transactions Base Tables

Table Name	Alias	Description
MTL_MATERIAL_TRANSACTIONS	mmt	工單發料 / 完工入庫交易記錄檔
MTL_TRANSACTION_LOT_NUMBERS	mtln	工單發料 / 完工入庫交易記錄批號明細檔
MTL_UNIT_TRANSACTIONS	mut	工單發料 / 完工入庫交易記錄序號明細檔
WIP_MOVE_TRANSACTIONS	wmt	工單過站交易記錄檔
WIP_TRANSACTIONS	wt	工單資源交易記錄檔

MTL_MATERIAL_TRANSACTIONS

工單發料 / 完工入庫交易記錄檔

1. 工單發料、退料、負發料、負退料，以及工單完工入庫、完工退庫、成品報廢、報廢退回，這 8 種交易都記錄在這個 table；

Key Columns	Description	必要
TRANSACTION_ID	交易記錄 ID	Y
ORGANIZATION_ID	組織 ID	Y
SUBINVENTORY_CODE	庫房名稱	Y
LOCATOR_ID	儲位 ID	
INVENTORY_ITEM_ID	料號 ID	Y
TRANSACTION_DATE	交易日期	Y
ACCT_PERIOD_ID	會計期間 ID (依交易日期不同，會計期間 ID 會不一樣)	Y
TRANSACTION_TYPE_ID	交易類型 ID (參考下頁)	Y
TRANSACTION_ACTION_ID	交易動作 ID (參考下頁)	Y
TRANSACTION_SOURCE_TYPE_ID	交易來源類型 ID (5, Job or Schedule)	Y
TRANSACTION_SOURCE_ID	工單 ID	Y
TRANSACTION_QUANTITY	交易數量 (交易 UOM)	Y
TRANSACTION_UOM	交易單位 (UOM)	Y
PRIMARY_QUANTITY	交易數量 (料號主要 UOM)	Y
TRANSACTION_REFERENCE	交易參考訊息 (Reference)	
COSTED_FLAG	是否已經產生會計分錄	Y
REVISION	版本號碼 (如果料號有啟用版本控制時，才會有值)	

MTL_MATERIAL_TRANSACTIONS

TRANSACTION_TYPE_ID	TRANSACTION_ACTION_ID	交易類型
35	1 (Issue from stores)	工單發料 (WIP Issue)
43	27 (Receipt into stores)	工單退料 (WIP Return)
38	33 (Negative component issue)	工單負發料 (WIP Negative Issue)
48	34 (Negative component return)	工單負退料 (WIP Negative Return)
44	31 (Assembly completion)	工單完工入庫 (WIP Completion)
14	32 (Assembly return)	工單完工入庫 (WIP Completion Return)
90	30 (WIP scrap transaction)	工單成品報廢 (WIP assembly scrap)
91	30 (WIP scrap transaction)	工單成品報廢退回 (WIP return from scrap)

MTL_MATERIAL_TRANSACTIONS

Path: (N) WIP > Material Transactions > View Material Transactions

The screenshot displays the SAP Navigator interface for Manufacturing and Distribution Manager. The left pane shows the 'Functions' tab with a tree structure. The 'View Material Transactions' option is highlighted with a red box. The main pane shows the 'Find Material Transactions (M1)' dialog with search criteria: Transaction Dates from 02-JUN-2017 00:00:00 to 02-JUN-2019 23:59:59, Item AIC-SF-001, and Revision 1. The 'Material Transactions (M1)' table is displayed with columns: Location, Intransit, Reason, Reference, Transaction ID, Transaction Type, and Consumption Advice. The table contains 12 rows of transactions, with the first row highlighted. A red box highlights the 'Transaction Type' column.

Item	Source Type	Source	Transaction Type	Transaction
AIC-SF-001	Job or Schedule	20190320-1	WIP Issue	Issue from :
AIC-PI-005	Job or Schedule	20190320-1	WIP Issue	Issue from :
AIC-PI-002	Job or Schedule	20190320-1	WIP Issue	Issue from :
AIC-FG-001	Job or Schedule	20190320-1	WIP Completion	Assembly c
AS54888	Job or Schedule	282421	WIP Completion	Assembly c
SB32982	Job or Schedule	282421	WIP Issue	Issue from :
CM15138	Job or Schedule	282421	WIP Issue	Issue from :
SB55105	Job or Schedule	282421	WIP Issue	Issue from :
CM28287	Job or Schedule	282421	WIP Issue	Issue from :
CM86324	Job or Schedule	282421	WIP Issue	Issue from :

Item Description: AIC Semi-Finish Item-001
Primary UOM: Ea
Secondary UOM:
Date: 20-MAR-2019 14:25:47
Primary Quantity: -2
Secondary Quantity:
Buttons: Distributions, Lot / Serial

MTL_TRANSACTION_LOT_NUMBERS

工單發料 / 完工入庫交易記錄批號明細檔

1. 料號如果有啟用批號控制 (Lot Control) 時，工單發料 / 完工入庫交易記錄對應的批號明細記錄在這個 table 裡面；

Key Columns	Description	必要
TRANSACTION_ID	交易記錄 ID (與 MTL_MATERIAL_TRANSACTIONS 的 TRANSACTION_ID 連結)	Y
ORGANIZATION_ID	組織 ID	Y
LOT_NUMBER	批號	Y
INVENTORY_ITEM_ID	料號 ID	Y
TRANSACTION_DATE	交易日期	Y
TRANSACTION_SOURCE_TYPE_ID	交易來源類型 ID (5, Job or Schedule)	Y
TRANSACTION_SOURCE_ID	工單 ID	Y
TRANSACTION_QUANTITY	交易數量 (交易 UOM)	Y
PRIMARY_QUANTITY	交易數量 (料號主要 UOM)	Y
EXPIRATION_ACTION_DATE	批號到期處理日期	
EXPIRATION_ACTION_CODE	批號到期處理方式	
ATTRIBUTE1 ~ ATTRIBUTE15	15 個標準彈性欄位	
C_ATTRIBUTE1 ~ C_ATTRIBUTE20	20 個額外文字彈性欄位	
D_ATTRIBUTE1 ~ D_ATTRIBUTE10	10 個額外日期彈性欄位	
N_ATTRIBUTE1 ~ N_ATTRIBUTE10	10 個額外數值彈性欄位	
SERIAL_TRANSACTION_ID	如果料號同時也有啟用序號控制，此欄位記錄對應序號明細記錄 ID	

MTL_TRANSACTION_LOT_NUMBERS

Path: (N) WIP > Material Transactions > View Material Transactions > (Button) Lot / Serial

The screenshot displays the SAP Manufacturing and Distribution Manager interface. The left sidebar shows the navigation tree with 'View Material Transactions' selected. The main window shows the 'View Material Transactions' dialog with the 'Lot / Serial' button highlighted. The 'Lot Transactions (M1) - CM00102' window is open, showing a table of lot numbers and their expiration dates.

View Material Transactions Dialog:

- Transaction Dates: 02-JUN-2017 00:00:00 - 02-JUN-2019 23:59:59
- Item:
- Description:
- Category Set:
- Category:

Lot Transactions (M1) - CM00102 Table:

Lot	Expires On	Transaction Quantity	Primary Quantity
11155000001	30-JUN-2019 12:22:03	-1	-1
11155000002	30-JUN-2019 12:22:03	-1	-1
11155000003	30-JUN-2019 12:22:03	-1	-1
11155000004	30-JUN-2019 12:22:03	-1	-1
11155000005	30-JUN-2019 12:22:03	-1	-1

MTL_UNIT_TRANSACTIONS

工單發料 / 完工入庫交易記錄序號明細檔

1. 料號如果有啟用序號控制 (Serial Control) 時，工單發料 / 完工入庫交易記錄對應的序號明細記錄在這個 table 裡面；

Key Columns	Description	必要
TRANSACTION_ID	交易記錄 ID (與 MTL_MATERIAL_TRANSACTIONS 的 TRANSACTION_ID 連結)	Y
ORGANIZATION_ID	組織 ID	Y
SUBINVENTORY_CODE	庫房名稱	Y
LOCATOR_ID	儲位 ID	
INVENTORY_ITEM_ID	料號 ID	Y
TRANSACTION_DATE	交易日期	Y
TRANSACTION_SOURCE_TYPE_ID	交易來源類型 ID (5, Job or Schedule)	Y
TRANSACTION_SOURCE_ID	工單 ID	Y
SERIAL_NUMBER	序號	Y
ATTRIBUTE1 ~ ATTRIBUTE15	15 個標準彈性欄位	
C_ATTRIBUTE1 ~ C_ATTRIBUTE20	20 個額外文字彈性欄位	
D_ATTRIBUTE1 ~ D_ATTRIBUTE10	10 個額外日期彈性欄位	
N_ATTRIBUTE1 ~ N_ATTRIBUTE10	10 個額外數值彈性欄位	

MTL_UNIT_TRANSACTIONS

Path: (N) WIP > Material Transactions > View Material Transactions > (Button) Lot / Serial

The screenshot displays the SAP Navigator interface for Manufacturing and Distribution Manager. The left-hand menu shows the navigation path: **Functions** > **WIP** > **Material Transactions** > **View Material Transactions**. The main window, titled "View WIP Material Transactions", shows search criteria: Transaction Dates from 02-JUN-2001 00:00:00 to 02-JUN-2019 23:59:59, Item CM66629, Description Mother Board, and Category Set. Below this is a table of material transactions.

Item	Subinventory	Locator	Location	Revision	Transfer Subin
CM66629	FGI				
CM66629	Depot				
CM66629	FGI				
CM66629	Depot				
CM66629	FGI				
CM66629	Depot				
CM66629	FGI				
CM66629	Depot				
CM66629	RIP				
CM66629	RIP				

Below the table, the item details are shown: Item Description Mother Board, Date 22-JUL-2004 14:45:00, Primary UOM Ea, Primary Quantity -15, Secondary UOM, and Secondary Quantity. At the bottom, there are buttons for "Distributions" and "Lot / Serial", with the latter highlighted by a red box.

To the right, a separate window titled "Transaction Serial Numbers (M1) - CM66629" is shown, displaying a table of serial numbers and their attributes. This window is also highlighted by a red box.

Serial	Attributes
7220001	
7220002	
7220003	
7220004	
7220005	
7220006	
7220007	
7220008	
7220009	
7220010	

WIP_MOVE_TRANSACTIONS

工單過站交易記錄檔

1. 工單在製品過站的交易記錄 (Move Transactions) ;

Key Columns	Description	必要
TRANSACTION_ID	交易記錄 ID	Y
ORGANIZATION_ID	組織 ID	Y
WIP_ENTITY_ID	工單 ID	Y
PRIMARY_ITEM_ID	工單組裝料號 ID	Y
ACCT_PERIOD_ID	會計期間 ID (依交易日期不同，會計期間 ID 會不一樣)	Y
FM_OPERATION_SEQ_NUM	起點作業站號碼	Y
FM_OPERATION_CODE	起點作業站標準作業站代碼	
FM_DEPARTMENT_ID	起點作業站部門 ID	Y
FM_INTRAOPERATION_STEP_TYPE	起點作業站站內狀態	Y
TO_OPERATION_SEQ_NUM	終點作業站號碼	Y
TO_OPERATION_CODE	終點作業站標準作業站代碼	
TO_DEPARTMENT_ID	終點作業站部門 ID	Y
TO_INTRAOPERATION_STEP_TYPE	終點作業站站內狀態	Y
TRANSACTION_DATE	過站交易日期	Y
TRANSACTION_QUANTITY	過站交易數量 (只允許正數)	Y
OVERCOMPLETION_TRANSACTION_QTY	超量過站交易數量	
OVERCOMPLETION_TRANSACTION_ID	超量過站交易記錄 ID	

WIP_MOVE_TRANSACTIONS

Path: (N) WIP > Move Transactions > View Move Transactions

The screenshot displays the 'Navigator - Manufacturing and Distribution Manager' application. On the left, a tree view under 'WIP: Move Transactions: View Move Transactions' has 'View Move Transactions' highlighted with a red box. In the center, a 'Find Move Transactions (M1)' dialog box is open, showing search criteria for Transaction Dates, Job, Line, Assembly, From Department, To Department, From Step, and To Step. On the right, the 'View Move Transactions (M1)' window is open, showing a table of transactions. A red box highlights a specific row in the table.

Transaction Date	Job	Assembly	Line	Transaction ID	
20-MAR-2019 14:25:47	20190320-1	AIC-FG-001		34172584	
02-DEC-2018 23:17:56	AIC-20151007-J1	AIC-20151007-A		33707901	
02-DEC-2018 23:16:56	AIC-20151007-J1	AIC-20151007-A		33707891	
02-DEC-2018 23:15:31	AIC-20151007-J1	AIC-20151007-A		33707881	
02-DEC-2018 22:49:18	AIC-20151007-J1	AIC-20151007-A		33707793	
02-DEC-2018 22:46:59	AIC-20151007-J1	AIC-20151007-A		33707783	
02-DEC-2018 21:36:50	AIC-20151007-J1	AIC-20151007-A		33707561	
02-DEC-2018 21:36:41	AIC-20151007-J1	AIC-20151007-A		33707557	
02-DEC-2018 21:35:37	AIC-20151007-J1	AIC-20151007-A		33707547	
02-DEC-2018 21:29:32	AIC-20151007-J1	AIC-20151007-A		33707513	

At the bottom of the 'View Move Transactions (M1)' window, there are input fields for Transaction Date (20-MAR-2019 14:25:47), Assembly (AIC-FG-001), Job (20190320-1), and Line.

WIP_TRANSACTIONS

工單資源交易記錄檔

1. 工單認列的資源交易記錄 (Resource Transactions) ;

Key Columns	Description	必要
TRANSACTION_ID	交易記錄 ID	Y
ORGANIZATION_ID	組織 ID	Y
WIP_ENTITY_ID	工單 ID	Y
PRIMARY_ITEM_ID	工單組裝料號 ID	Y
ACCT_PERIOD_ID	會計期間 ID (依交易日期不同，會計期間 ID 會不一樣)	Y
OPERATION_SEQ_NUM	作業站號碼	Y
DEPARTMENT_ID	作業站部門 ID	Y
RESOURCE_SEQ_NUM	作業站資源號碼	Y
RESOURCE_ID	作業站資源 ID	Y
TRANSACTION_TYPE	資源交易類型 (1: Resource transaction 2: Overhead transaction 3: Outside processing 4: Cost update 5: Period close variance 6: Job close variance)	Y
TRANSACTION_DATE	資源交易日期	Y
TRANSACTION_QUANTITY	資源交易數量 (允許正數和負數)	Y
TRANSACTION_UOM	資源交易 UOM	Y
RCV_TRANSACTION_ID	如果是外包收貨產生的資源交易記錄，會記錄對應收料記錄的 ID	
MOVE_TRANSACTION_ID	如果是由工單過站交易記錄觸發的資源交易記錄，會記錄對應過站記錄的 ID	

WIP_TRANSACTIONS

Path: (N) WIP > Resource Transactions > View Resource Transactions

The screenshot displays the 'Navigator - Manufacturing and Distribution Manager' application. The left sidebar shows a tree view under 'WIP.Resource Transactions: View Resource Transactions'. The 'View Resource Transactions' option is highlighted with a red box. The main window, titled 'Find Resource Transactions (M1)', shows a search criteria form with fields for Transaction Dates, Job/Schedule, Line, Assembly, Department, Resource, Employee Number, Activity, PO Number, and Transferred to Projects. The 'Include Variance Transactions' checkbox is checked. The 'View Resource Transactions (M1)' window is open, showing a table of transactions. The 'Job/Schedule' column is highlighted with a red box. The table has columns for Transaction Date, Job/Schedule, Assembly, Line, and Transaction ID. The data is as follows:

Transaction Date	Job/Schedule	Assembly	Line	Transaction ID
20-MAR-2019 14:28:45	20190320-1			34172602
20-MAR-2019 14:26:02	20190320-1	AIC-FG-001		34172591
20-MAR-2019 14:25:47	20190320-1	AIC-FG-001		34172586
20-MAR-2019 14:25:47	20190320-1	AIC-FG-001		34172585
20-MAR-2019 14:22:14	282421			34172570
20-MAR-2019 14:22:14	282420			34172569
20-MAR-2019 14:22:14	282419			34172568
20-MAR-2019 14:22:14	276423			34172567

At the bottom of the 'View Resource Transactions (M1)' window, there are input fields for Transaction Date (20-MAR-2019 14:28:45), Job/Flow Schedule (20190320-1), Assembly, and Line. A 'Distributions' button is located at the bottom right.

Contents

- Discrete Job Base Tables
- Discrete Job Interfaces
- Transactions Base Tables
- Transactions Interfaces
- Job Close Tables

Transactions Interfaces

Table Name	Alias	Description
MTL_TRANSACTIONS_INTERFACE	mti	工單發料 / 完工入庫交易記錄介面檔
MTL_TRANSACTION_LOTS_INTERFACE	mtli	工單發料 / 完工入庫交易記錄介面批號明細檔
MTL_SERIAL_NUMBERS_INTERFACE	msni	工單發料 / 完工入庫交易記錄介面序號明細檔
WIP_MOVE_TXN_INTERFACE	wmti	工單過站交易記錄介面檔
WIP_COST_TXN_INTERFACE	wcti	工單資源交易記錄介面檔
WIP_TXN_INTERFACE_ERRORS	wtie	工單交易記錄介面錯誤訊息檔

MTL_TRANSACTION_INTERFACE

工單發料 / 完工入庫交易記錄介面檔

1. 要產生工單發料 / 工入庫交易記錄時，透過此 table 寫入要匯入的資料，之後當 INV 模組的 Transaction Manager 執行時就會自動執行匯入；

Key Columns	Description	必要
TRANSACTION_HEADER_ID	介面交易記錄表頭 ID (從 MTL_MATERIAL_TRANSACTIONS_S 取值)	Y
TRANSACTION_INTERFACE_ID	介面交易記錄 ID (也是從 MTL_MATERIAL_TRANSACTIONS_S 取值)	Y
ORGANIZATION_ID	組織 ID	Y
SUBINVENTORY_CODE	庫房名稱	Y
LOCATOR_ID	儲位 ID	
INVENTORY_ITEM_ID	料號 ID	Y
TRANSACTION_DATE	交易日期	Y
TRANSACTION_TYPE_ID	交易類型 ID	Y
TRANSACTION_ACTION_ID	交易動作 ID	Y
TRANSACTION_SOURCE_TYPE_ID	交易來源類型 ID (5, Job or Schedule)	Y
TRANSACTION_SOURCE_ID	工單 ID	Y
PROCESS_FLAG	是否進行處理 (1: Yes, 2: No, 3: Error)	Y
TRANSACTION_MODE	處理方式 (2: Concurrent, 3: Background)	Y
TRANSACTION_QUANTITY	交易數量 (交易 UOM)	Y
TRANSACTION_UOM	交易單位 (UOM)	Y

MTL_TRANSACTIONS_INTERFACE

(續)

Key Columns	Description	必要
FINAL_COMPLETION_FLAG	是否為該工單最後一筆完工入庫交易	Y
WIP_ENTITY_TYPE	工單類別 (1: Standard Discrete Jobs, 2: Non-Standard Discrete Jobs)	Y
SOURCE_CODE	交易來源代號 (自訂，例如客製程式編號)	
SOURCE_HEADER_ID	交易來源表頭 ID	
SOURCE_LINE_ID	交易來源明細行 ID	
ERROR_CODE	錯誤代碼	
ERROR_EXPLANATION	錯誤訊息	

MTL_TRANSACTIONS_INTERFACE

補充說明：

1. 也可以直接 Call API [INV_TXN_MANAGER_PUB.PROCESS_TRANSACTIONS](#) 去執行匯入；
 - (1) 以參數 P_HEADER_ID 傳入 TRANSACTION_HEADER_ID 的值，告訴程式要處理那一筆資料；
 - (2) 依照傳回值 x_returnStatus = FND_API.G_RET_STS_SUCCESS 判斷是否成功匯入；
 - (3) 如果匯入時有錯誤，可以從 MTL_TRANSACTIONS_INTERFACE 的 ERROR_CODE 和 ERROR_EXPLANATION 取得錯誤訊息內容；
2. TRANSACTION_MODE = 3 (Background) 時，Transaction Manager 會自動定時處理匯入；
TRANSACTION_MODE = 2 (Concurrent) 時，不會自動匯入，需要自己執行 Inventory transaction worker 去處理；

MTL_TRANSACTIONS_INTERFACE

Path: (N) INV > Transactions > Transaction Open Interface

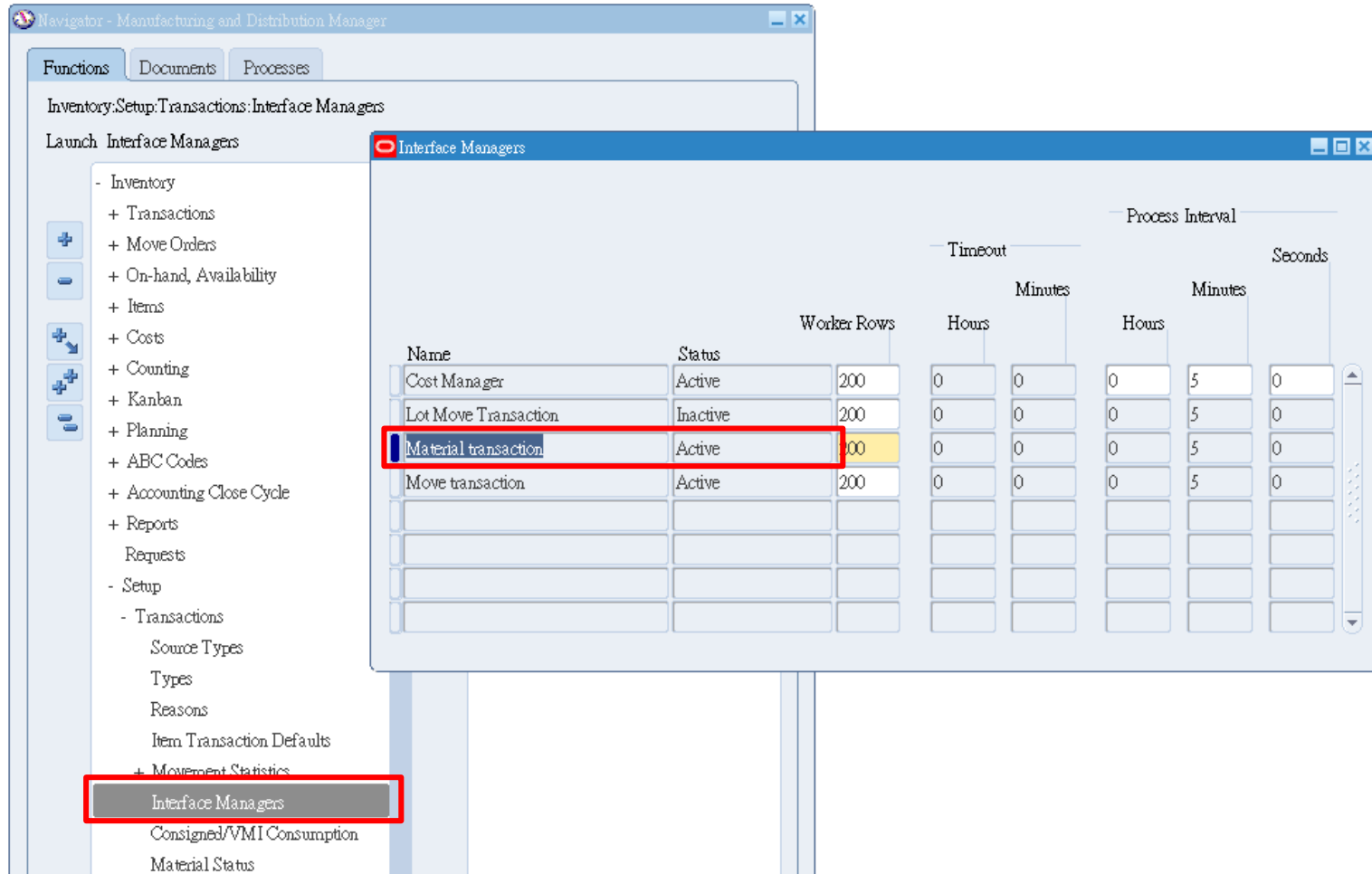
The screenshot displays the SAP Navigator - Manufacturing and Distribution Manager interface. The left-hand menu shows the path: Inventory > Transactions > Transaction Open Interface, which is highlighted with a red box. The main window shows the 'Find Interface Transactions' dialog with various search criteria. The 'Transaction Interface' window is open, showing a table of transactions. The table has columns: Item, Transaction Source Type, Header ID, and Interface. The data is as follows:

Item	Transaction Source Type	Header ID	Interface
SB22680	Job or Schedule	24800895	2419256
SB22680	Job or Schedule	24800895	2419258
SB22680	Job or Schedule	24800895	2419258
CM00102	Job or Schedule	24800895	2461950
CM00102	Job or Schedule	24800895	2461951
CM00102	Job or Schedule	24800895	2461952
CM00102	Job or Schedule	24800895	2461953
CM00102	Job or Schedule	24800895	2461993

Below the table, the 'Primary Qty' is 1, 'Secondary Qty' is 1, and the 'Date' is 11-SEP-2016 16:59:57. The 'Primary UOM' is 'Ea' and the 'Secondary UOM' is empty. The 'Item Description' is 'Envoy Upgrade Board' and the 'Error Explanation' is 'Transaction quantity has an incorrect sign for the given transaction action'. The 'Cost Details' and 'Lot / Serial' buttons are visible at the bottom.

MTL_TRANSACTIONS_INTERFACE

Path: (N) INV > Setup > Transactions > Interface Managers



MTL_TRANSACTION_LOTS_INTERFACE

工單發料 / 完工入庫交易記錄介面批號明細檔

1. 料號如果有啟用批號控制 (Lot Control) 時，將工單發料 / 完工入庫交易記錄介面資料對應的批號明細寫到這個 table 裡面；

Key Columns	Description	必要
TRANSACTION_INTERFACE_ID	介面交易記錄 ID (與 MTL_TRANSACTIONS_INTERFACE 的 TRANSACTION_INTERFACE_ID 連結)	Y
ORGANIZATION_ID	組織 ID	Y
LOT_NUMBER	批號	Y
INVENTORY_ITEM_ID	料號 ID	Y
TRANSACTION_DATE	交易日期	Y
TRANSACTION_SOURCE_TYPE_ID	交易來源類型 ID (5, Job or Schedule)	Y
TRANSACTION_SOURCE_ID	工單 ID	Y
TRANSACTION_QUANTITY	交易數量 (交易 UOM)	Y
PRIMARY_QUANTITY	交易數量 (料號主要 UOM)	Y
EXPIRATION_ACTION_DATE	批號到期處理日期	
EXPIRATION_ACTION_CODE	批號到期處理方式	
LOT_EXPIRATION_DATE	批號到期日	
ATTRIBUTE1 ~ ATTRIBUTE15	15 個標準彈性欄位	
C_ATTRIBUTE1 ~ C_ATTRIBUTE20	20 個額外文字彈性欄位	
D_ATTRIBUTE1 ~ D_ATTRIBUTE10	10 個額外日期彈性欄位	
N_ATTRIBUTE1 ~ N_ATTRIBUTE10	10 個額外數值彈性欄位	

MTL_TRANSACTION_LOTS_INTERFACE

(續)

Key Columns	Description	必要
SERIAL_TRANSACTION_TEMP_ID	如果料號同時也有啟用序號控制，此欄位記錄對應序號明細臨時記錄 ID	
SOURCE_CODE	交易來源代號 (自訂，例如客製程式編號)	
SOURCE_LINE_ID	交易來源明細行 ID	
ERROR_CODE	錯誤代碼	
ERROR_EXPLANATION	錯誤訊息	

MTL_SERIAL_NUMBERS_INTERFACE

工單發料 / 完工入庫交易記錄介面序號明細檔

1. 料號如果有啟用序號控制 (Serial Control) 時，將工單發料 / 完工入庫交易記錄介面資料對應序號明細寫入這個 table 裡面；

Key Columns	Description	必要
TRANSACTION_INTERFACE_ID	介面交易記錄 ID (與 MTL_TRANSACTIONS_INTERFACE 的 TRANSACTION_INTERFACE_ID 連結)	Y
FM_SERIAL_NUMBER	起始序號	Y
TO_SERIAL_NUMBER	終止序號	Y
ATTRIBUTE1 ~ ATTRIBUTE15	15 個標準彈性欄位	
C_ATTRIBUTE1 ~ C_ATTRIBUTE20	20 個額外文字彈性欄位	
D_ATTRIBUTE1 ~ D_ATTRIBUTE10	10 個額外日期彈性欄位	
N_ATTRIBUTE1 ~ N_ATTRIBUTE10	10 個額外數值彈性欄位	
SOURCE_CODE	交易來源代號 (自訂，例如客製程式編號)	
SOURCE_LINE_ID	交易來源明細行 ID	
ERROR_CODE	錯誤代碼	

WIP_MOVE_TXN_INTERFACE

工單過站交易記錄介面檔

1. 要產生工單過站交易記錄時，透過此 table 寫入要匯入的資料，之後當 INV 模組的 Move Transaction Manager 執行時就會自動執行匯入；

Key Columns	Description	必要
GROUP_ID	介面資料群組 ID (自訂，只要能區分資料即可)	Y
TRANSACTION_ID	交易記錄 ID (從 WIP_TRANSACTIONS_S 取值)	Y
ORGANIZATION_ID	組織 ID	二選一
ORGANIZATION_CODE	組織代碼	
WIP_ENTITY_ID	工單 ID	二選一
WIP_ENTITY_NAME	工單號碼	
PRIMARY_ITEM_ID	工單組裝料號 ID	Y
ACCT_PERIOD_ID	會計期間 ID (依交易日期不同，會計期間 ID 會不一樣)	Y
TRANSACTION_DATE	過站交易日期	Y
TRANSACTION_TYPE	過站交易類型 (1: Move transaction, 2: Move Completion, 3: Move Return)	Y
PROCESS_PHASE	處理階段 (1: Move Validation, 2: Move Processing, 3: Operation Backflush Setup)	Y
PROCESS_STATUS	處理狀態 (1: Pending, 2: Running, 3: Error)	Y
TRANSACTION_QUANTITY	過站交易數量 (只允許正數)	Y
TRANSACTION_UOM	過站交易單位 (UOM)	Y
REFERENCE	過站交易參考訊息	

WIP_MOVE_TXN_INTERFACE

(續)

Key Columns	Description	必要
FM_OPERATION_SEQ_NUM	起點作業站號碼	Y
FM_OPERATION_CODE	起點作業站標準作業站代碼	
FM_DEPARTMENT_ID	起點作業站部門 ID	二選一
FM_DEPARTMENT_CODE	起點作業站部門代碼	
FM_INTRAOPERATION_STEP_TYPE	起點作業站站內狀態	Y
TO_OPERATION_SEQ_NUM	終點作業站號碼	Y
TO_OPERATION_CODE	終點作業站標準作業站代碼	
TO_DEPARTMENT_ID	終點作業站部門 ID	二選一
TO_DEPARTMENT_CODE	終點作業站部門代碼	
TO_INTRAOPERATION_STEP_TYPE	終點作業站站內狀態	Y

WIP_MOVE_TXN_INTERFACE

補充說明：

1. 也可以直接 Call API [WIP_MOVPROC_PUB.PROCESSINTERFACE](#) 去執行匯入；
 - (1) 以參數 P_GROUP_ID 傳入 GROUP_ID 的值，告訴程式要處理那一個群組的資料；
 - (2) 依照傳回值 x_returnStatus = FND_API.G_RET_STS_SUCCESS 判斷是否成功匯入；
 - (3) 如果匯入時有錯誤，可以從 [WIP_TXN_INTERFACE_ERRORS](#) 取得錯誤訊息內容；
2. 寫入資料，請固定使用以下的值，才會順利執行：
PROCESS_PHASE = 1 (Move Validation)
PROCESS_STATUS = 2 (Running)

WIP_MOVE_TXN_INTERFACE

Path: (N) WIP > Move Transactions > Pending Move Transactions

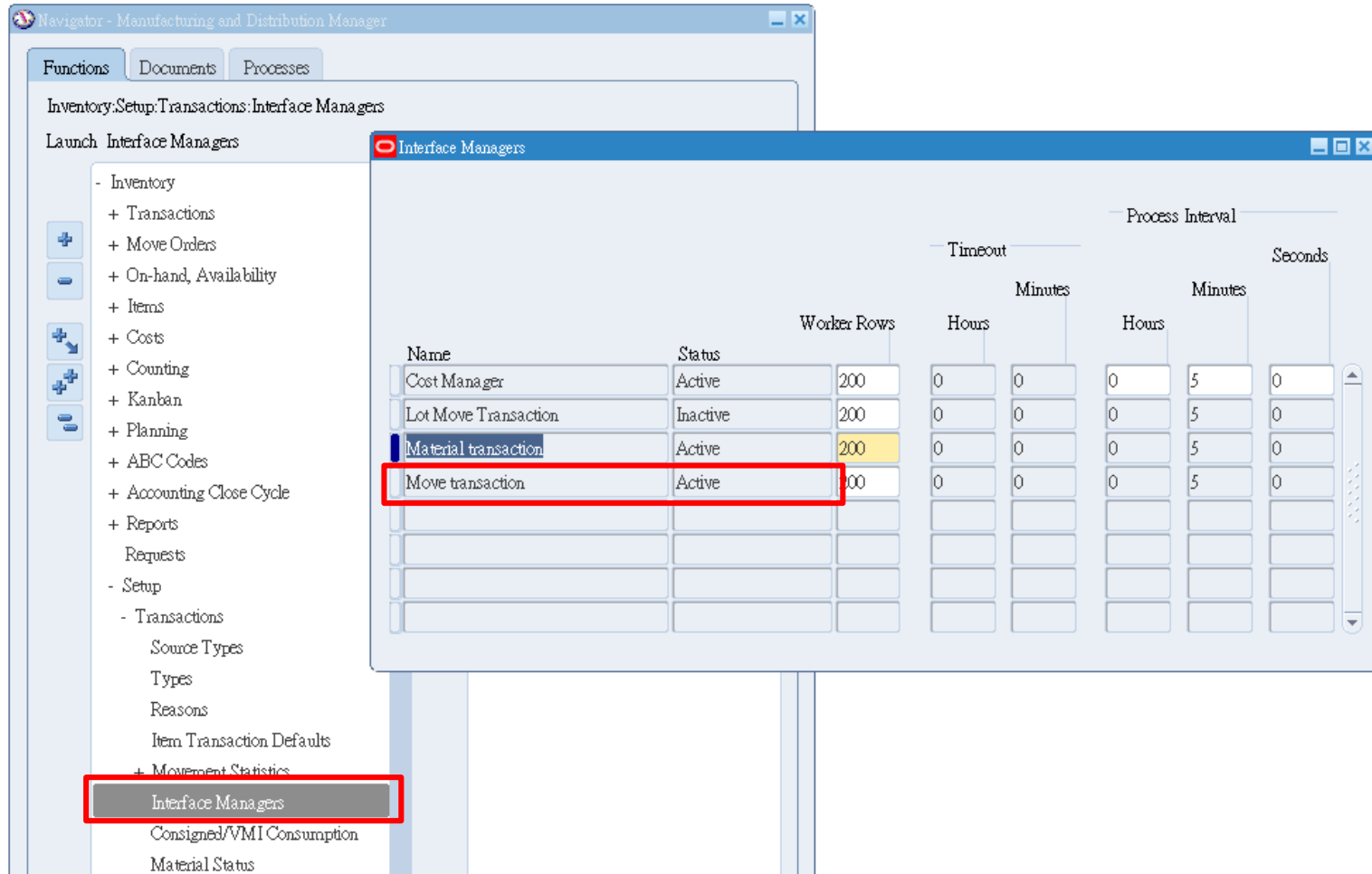
The screenshot displays the 'Navigator - Manufacturing and Distribution Manager' interface. On the left, a tree view under 'Functions' shows the path: WIP > Move Transactions > Pending Move Transactions, with the last item highlighted by a red box. The main window, titled 'Find Pending Move Transactions', contains search filters for 'Transaction Dates', 'Organization', and 'Job or Schedule Name'. Below these is a 'Pending Move Transactions' window with a 'Processing' tab selected. A red box highlights a table of transactions:

Resubmit					
	Transaction ID	Group ID	Phase	Status	[]
<input checked="" type="checkbox"/>	32322466	32322470	Backflush setup	Error	<input type="checkbox"/>
<input type="checkbox"/>	33707123	33707122	Move processing	Pending	<input type="checkbox"/>
<input type="checkbox"/>	33707467	33707466	Move processing	Pending	<input type="checkbox"/>
<input type="checkbox"/>					<input type="checkbox"/>
<input type="checkbox"/>					<input type="checkbox"/>
<input type="checkbox"/>					<input type="checkbox"/>
<input type="checkbox"/>					<input type="checkbox"/>

An 'Errors' button is located at the bottom right of the window.

WIP_MOVE_TXN_INTERFACE

Path: (N) INV > Setup > Transactions > Interface Managers



WIP_COST_TXN_INTERFACE

工單資源交易記錄介面檔

1. 要產生工單資源交易記錄時，透過此 table 寫入要匯入的資料，之後 INV 模組的 Cost Manager 執行時會自動執行匯入；
(而且只能透過此方式匯入，沒有 API)

Key Columns	Description	必要
GROUP_ID	介面資料群組 ID (自訂，只要能區分資料即可)	Y
TRANSACTION_ID	交易記錄 ID (從 WIP_TRANSACTIONS_S 取值)	Y
ORGANIZATION_ID	組織 ID	二選一
ORGANIZATION_CODE	組織代碼	
WIP_ENTITY_ID	工單 ID	二選一
WIP_ENTITY_NAME	工單號碼	
PRIMARY_ITEM_ID	工單組裝料號 ID	Y
ACCT_PERIOD_ID	會計期間 ID (依交易日期不同，會計期間 ID 會不一樣)	Y
TRANSACTION_DATE	資源交易日期	Y
TRANSACTION_TYPE	資源交易類型 (1: Normal resource transactions, 2: Overhead transactions, 3: Outside processing transactions)	Y
PROCESS_PHASE	處理階段 (1: Resource Validation, 2: Resource Processing)	Y
PROCESS_STATUS	處理狀態 (1: Pending, 2: Running, 3: Error)	Y
TRANSACTION_QUANTITY	資源交易數量	Y
TRANSACTION_UOM	資源交易單位 (UOM)	Y
REFERENCE	資源交易參考訊息	

WIP_COST_TXN_INTERFACE

(續)

Key Columns	Description	必要
PRIMARY_QUANTITY	資源交易數量 (主 UOM)	Y
PRIMARY_UOM	資源交易主單位 (UOM)	Y
OPERATION_SEQ_NUM	作業站號碼	Y
DEPARTMENT_ID	作業站部門 ID	二選一
DEPARTMENT_CODE	作業站部門代碼	
RESOURCE_SEQ_NUM	資源項目號碼	Y
RESOURCE_ID	資源 ID	二選一
RESOURCE_CODE	資源代碼	
MOVE_TRANSACTION_ID	如果此筆資源交易有對應的過站交易，在此欄位提供交易記錄 ID	
COMPLETION_TRANSACTION_ID	如果此筆資源交易有對應的完工入庫交易，在此欄位提供交易記錄 ID	
RCV_TRANSACTION_ID	如果此筆資源交易來自外包收料，在此欄位提供收料交易記錄 ID	
PO_HEADER_ID	如果此筆資源交易來自外包收料，在此欄位提供採購單單頭 ID	
PO_LINE_ID	如果此筆資源交易來自外包收料，在此欄位提供採購單單身 ID	
SOURCE_CODE	交易來源代號 (自訂，例如客製程式編號)	
SOURCE_LINE_ID	交易來源明細行 ID	
AUTOCHARGE_TYPE	資源認列方式 (1: WIP move 2: Manual 3: PO receipt 4: PO move)	Y
BASIS_TYPE	資源認列基礎 (1: By Item 2: By Lot)	Y

WIP_COST_TXN_INTERFACE

Path: (N) WIP > Resource Transactions > Pending Resource Transactions

The screenshot displays the 'Navigator - Manufacturing and Distribution Manager' interface. The left-hand navigation pane shows a tree structure under 'WIP:Resource Transactions:Pending Resource Transactions'. The 'Pending Resource Transactions' item is highlighted with a red rectangle. The main window area shows the 'Find Pending Resource Transactions' dialog box, which includes fields for 'Transaction Dates', 'Organization', and 'Job or Schedule Name'. Below this, the 'Pending Resource Transactions' window is open, showing a table with columns: Transaction ID, Group ID, Phase, Status, and a checkbox column. The table is titled 'Resubmit' and contains several rows of data. The table area is also highlighted with a red rectangle. The bottom right corner of the window has an 'Errors' button.

Navigator - Manufacturing and Distribution Manager

Functions Documents Processes

WIP:Resource Transactions:Pending Resource Transactions

Pending Resource Transactions

- + Purchasing
- + EDI
- WIP
 - Notifications Summary
 - + Material Transactions
 - + Move Transactions
 - Resource Transactions
 - Resource Transactions
 - Pending Resource Transactions**
 - View Resource Transactions
 - + Discrete
 - + Repetitive
 - Job/Schedule Details
 - Operations
 - Material Requirements
 - View Operations
 - View Material Requirements
 - View Resource Requirements
 - Report
 - Business Intelligence
- + Setup
- + Other
- + Manufacturing Scheduling

Find Pending Resource Transactions

Transaction Dates [] - []

Organization []

Job or Schedule Name []

Pending Resource Transactions

Processing Source Concurrent Request Job or Schedule Name Operation Resource Transaction Comments Project Information

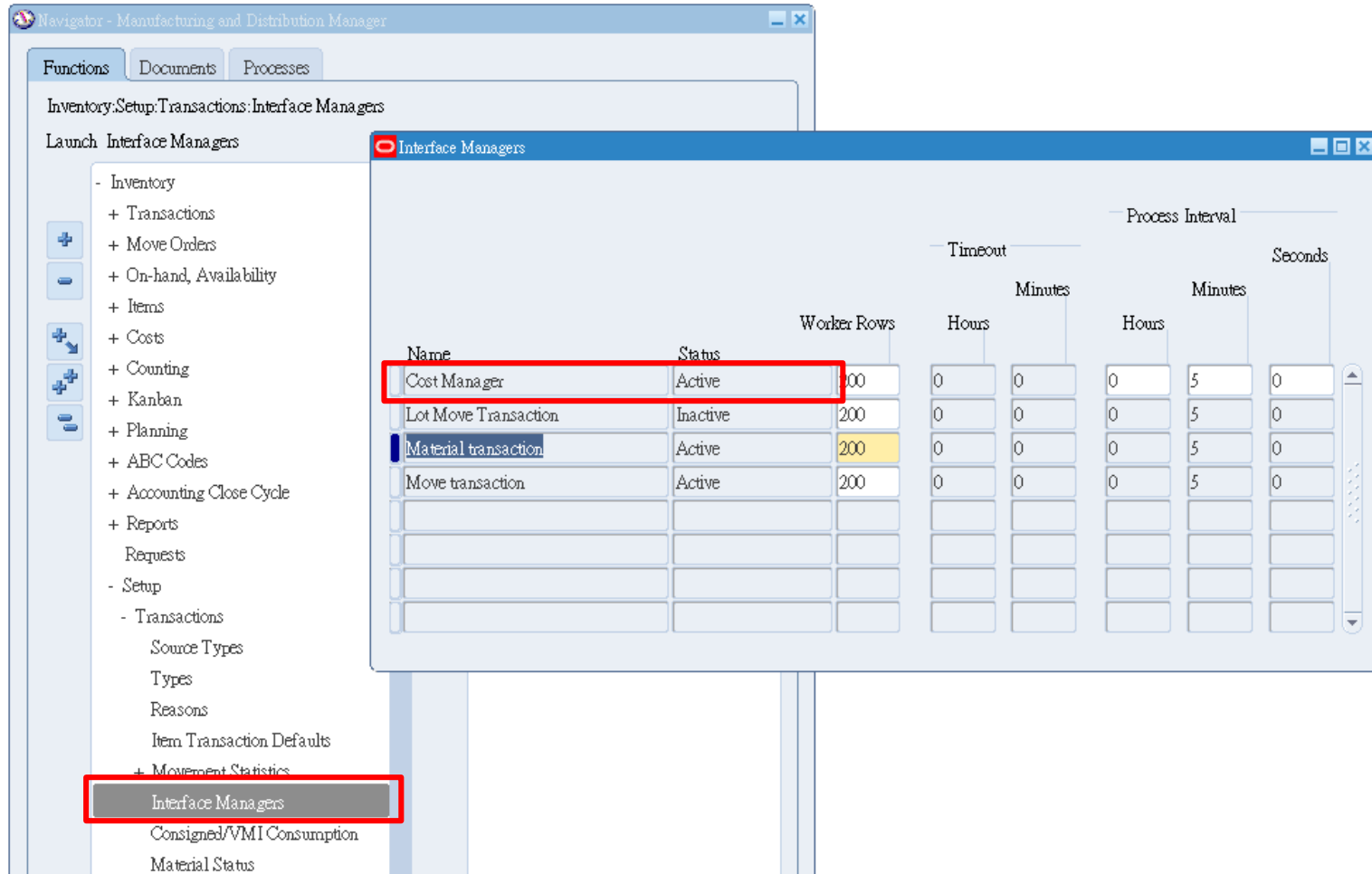
Resubmit

Transaction ID	Group ID	Phase	Status	[]
[]	[]	[]	[]	[]
[]	[]	[]	[]	[]
[]	[]	[]	[]	[]
[]	[]	[]	[]	[]
[]	[]	[]	[]	[]
[]	[]	[]	[]	[]
[]	[]	[]	[]	[]
[]	[]	[]	[]	[]
[]	[]	[]	[]	[]
[]	[]	[]	[]	[]

Errors

WIP_COST_TXN_INTERFACE

Path: (N) INV > Setup > Transactions > Cost Managers



WIP_TXN_INTERFACE_ERRORS

工單交易記錄介面錯誤訊息檔

1. 匯入工單過站交易或是工單資源交易時，如果發生錯誤，會將錯誤訊息記錄在此 table 中；

Key Columns	Description	必要
TRANSACTION_ID	交易記錄 ID	Y
ERROR_MESSAGE	錯誤訊息	
ERROR_COLUMN	發生錯誤的欄位名稱	

WIP_TXN_INTERFACE_ERRORS

Path: (N) WIP > Move Transactions > Pending Move Transactions > (Button) Errors

Path: (N) WIP > Resource Transactions > Pending Resource Transactions > (Button) Errors

The screenshot illustrates the SAP WIP interface for handling transaction errors. It shows the navigation path from the main menu to the 'Pending Move Transactions' screen, and then to the 'Errors' button. The 'Pending Move Transactions' screen displays a table of transactions, with one transaction (ID 32322466) marked as 'Error'. The 'Errors' button is highlighted, leading to a detailed error message window.

Navigation Path:

- Functions > Documents > Process > WIP: Move Transactions: Pending Move Transactions
- Functions > Documents > Process > WIP: Move Transactions: Pending Move Transactions > Errors

Pending Move Transactions Table:

Transaction ID	Phase	Status
32322466	Backflush setup	Error
33707123	Move processing	Pending
33707467	Move processing	Pending

Error Message:

Column	Message
	An assembly transaction cannot be processed in background mode if it has backflush.

Contents

- Discrete Job Base Tables
- Discrete Job Interfaces
- Transactions Base Tables
- Transactions Interfaces
- Job Close Tables

Job Close Tables

Table Name	Alias	Description
WIP_DJ_CLOSE_TEMP	wdct	工單結案暫存檔
WIP_TRANSACTIONS	wt	工單資源交易記錄檔

WIP_DJ_CLOSE_TEMP

工單結案暫存檔

1. 工單結案時，會將要結案的工單資料先寫入這個 table，再進行工單結案；
2. 工單結案後，就會這個暫存檔裡面對應的資料刪除；
3. 如果因為某些因素，造成工單結案發生錯誤，此時這個暫存檔裡面的資料可能還殘留著，會造成該工單無法結案、或是會計期間無法關閉；

Key Columns	Description	必要
ORGANIZATION_ID	組織 ID	Y
WIP_ENTITY_ID	工單 ID	Y
WIP_ENTITY_NAME	工單號碼	Y
PRIMARY_ITEM_ID	工單組裝料號 ID	Y
STATUS_TYPE	工單目前狀態	Y
ACTUAL_CLOSE_DATE	預計結案日期	Y
GROUP_ID	群組 ID	Y

WIP_DJ_CLOSE_TEMP

Path: (N) WIP > Discrete > Discrete Jobs > Close Discrete Jobs > Close Discrete Jobs (SRS)

The screenshot displays the SAP Navigator - Manufacturing and Distribution Manager interface. The left pane shows the navigation tree with the following structure:

- Functions
- Documents
- Processes
 - WIP:Discrete:Close Discrete Jobs:Close Discrete Jobs (SRS)
 - WIP
 - Notifications Summary
 - + Material Transactions
 - + Move Transactions
 - + Resource Transactions
 - Discrete
 - Discrete Jobs
 - Discrete Jobs (BMC)
 - Discrete Workstation
 - + Component Pick Release
 - Job Workbench
 - Resource Workbench
 - Simulate Discrete Jobs
 - Import Jobs and Schedules
 - AutoCreate Orders
 - Update OSP Need-by Dates
 - Close Discrete Jobs
 - Close Discrete Jobs (Form)
 - Close Discrete Jobs (SRS)
 - + Purge Discrete Jobs
 - View Discrete Jobs
 - View Genealogy
 - Pending Jobs and Schedules
 - WIP Value Summary
 - AUWIPM0001
 - AUWIPM0001_PMM
 - AUWIPM0001_PD
 - AUWIPM0001_OTEDV

The main pane shows the 'Close Discrete Jobs (M1)' dialog box with the following fields:

- Run this Request...
 - Name: Close Discrete Jobs
 - Operating Unit:
 - Parameters:
 - Language: American English
- At these Times...
 - Run the Job: As Soon as Possible
- Upon Completion...
 - ☒ Save all Output Files
 - Layout:
 - Notify:
 - Print to: noprint
- Help (H)

The 'Parameters' dialog box is also open, showing the following fields:

- Class Type
- From Class
- To Class
- From Job
- To Job
- From Job Release Date
- To Job Release Date
- From Job Start Date
- To Job Start Date
- From Job Completion Date
- To Job Completion Date
- Status: Complete - No Charges
- Exclude Reserved Jobs: Yes
- Exclude Un-Completed Jobs: Yes
- Exclude Jobs with Pending Trans: No
- OK, Cancel, Clear, Help buttons

WIP_TRANSACTIONS

工單資源交易記錄檔

1. 工單結案時，會在這個 table 裡面寫入一筆 TRANSACTION_TYPE = 6 (Job close variance) 的記錄，再以這一筆交易為依據產生相關的分錄工單，將工單結案時會尚未轉出的所有在製餘額 (WIP Value)，全部轉到工單的差異科目去；

Key Columns	Description	必要
TRANSACTION_ID	交易記錄 ID	Y
ORGANIZATION_ID	組織 ID	Y
WIP_ENTITY_ID	工單 ID	Y
ACCT_PERIOD_ID	會計期間 ID (依交易日期不同，會計期間 ID 會不一樣)	Y
TRANSACTION_TYPE	資源交易類型 (6: Job close variance)	Y
TRANSACTION_DATE	資源交易日期	Y