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Average Cost in Project Actual Environment with GPD and PACE

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About the Speakers

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- SAP Finance and Controlling & Aerospace and Defense
- Samsung Electronics, Goodrich Corp, United Technologies and General Atomics

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Key Outcomes/Objectives

1. Understand GA's requirement for Average Part cost

2. Explain foundational framework of the calculation by leveraging PACE (Product Actual Costing and Estimating)

3. Explain configuration rationale for average cost calculation solution.

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Agenda

- Business need for Average Part Cost

- Scope of Calculation

- Configuration

- Calculation Selection

- New Reports

- Future Enhancement Opportunities

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Background

- GPD (Grouping, Pegging, Distribution) – is an Aerospace & Defense solution - Strategy for collecting actual direct costs where assignment of stock and orders is to a Group WBS

- GPD keeps track of the incremental cost of each replenishment element (Prod. Order & Purch. Order) and the actual rolled up cost is supplied by Dassian PACE cost rollup functionality

- An averaged cost per material is often required to report in various circumstances

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Background

- Property System Inductions (Acquisition Cost)
- Contractual Reporting Requirement
- MRP related PRs
- Manufacturing ETC
- Valuation Declaration (Common Carrier Freight & Import/Export)
- Threshold for serialization determination ($5K UID)
- Threshold for scrap disposition procedure (QN required)

Scope of Calculation

Included

- GPD relevant parts
- Completed Replenishments
- Can include items scrapped from stock
- True Subcontracting POs
- Provide components to vendor to build assembly

Excluded

- Plant Stock
- Reads current material master, items previously GPD are excluded
- WIP Replenishments
- Rework Orders
- Zero Cost Replenishments
- Return to Vendor POs

Configuration

- Pre-requisite: PACE (**P**roduct **A**ctual **C**osting and **E**stimating) installed
- BADis available for company specific customization

```
∨ 📁 Configuration
   · ⚙ /DSN/GPD_MACCFG - General Settings
   · ⚙ /DSN/GPD_MACRWT - Rework Order Type
   · ⚙ /DSN/GPD_MACEPO - Exclude PACE Object Types
   · ⚙ /DSN/GPD_MACEOT - Exclude Production Order Types
   · ⚙ /DSN/GPD_MACERP - Exclude Replenishment
   · ⚙ /DSN/GPD_MACESS - Exclude System Statuses
   · ⚙ /DSN/GPD_MACEUS - Exclude User Statuses
   · ⚙ /DSN/GPD_MACEMAT - Exclude Materials
   · ⚙ /DSN/GPD_MACISS - Include System Statuses
   · ⚙ /DSN/GPD_MACIUS - Include User Statuses
∨ 📁 Process
   · ⚙ /DSN/GPD_MACCALC - Calculate MAC
   · ⚙ /DSN/GPD_MACUPD - Update MAC from Date
   · ⚙ /DSN/GPD_MACUPDFL - Update MAC from Log
   · ⚙ /DSN/GPD_MACMLH - Maintain Log Header
∨ 📁 Reports
   · ⚙ /DSN/GPD_MACDISP - Dispaly MAC Value
   · ⚙ /DSN/GPD_MACCHGH - Display MAC Change History
   · ⚙ /DSN/GPD_MACDISPL - Display MAC Log
```
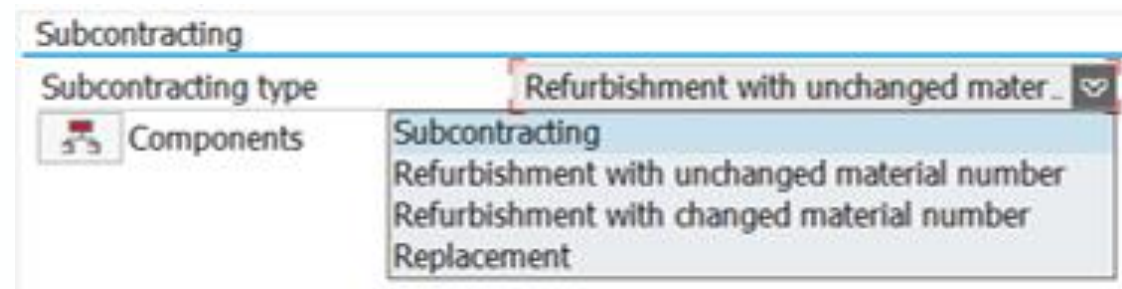
GA utilizes a BADi to differentiate Subcontract / Return to Vendor from data selection

Configuration examples

Include by System Status "DLV"

Change View "GPD MAC System Statuses Included"

New Entries

GPD MAC Syst...
SysSt
I0012

Exclude by System Status (PCNF)

Change View "GPD MAP System Statuses Excluded"

New Entries

GPD MAP Syst...
SysSt
I0010

Exclude by Production Order Type : Rework / Gain w/o prior loss

Change View "GPD MAP Exclusion of Production Order Types"

New Entries

GPD MAP Ex...
Type
Y002
Y008

Exclude by Materials

Display View "GPD MAC Exclusion by Materials": Overview

GPD MAC Exclusion by Materials
Material   Plnt

Calculation Selection

- The history source is from PACE
- Calculation frequency can be same as PACE snapshot or Monthly/Yearly
- Date range can be used to limit which replenishments are in the calculation

Material Master MAP update

GPD MAC Update from Date

Selection
- Cost Date
- Material
- Plant

Target
- ☐ Material Master
- ☐ PACE Object Master
- History ID

Update
- ☑ Test
- ☑ Wait for Update

Options
- ☑ Display

- Optional MAP update from the calculation

- BADi available to update a custom field in MM

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Reports Overview

Display Average of Actual
- Run by Material and As of Date
- Provides dollar and hour average by material and plant

Display Change History of the Calculation
- Run by Material
- Provides history of dollar and hour average by material and plant

Display Calculation Log
- Shows the details of the average calculation for a particular PACE history ID or MAC Log ID
- Incremental material dollars, labor dollars, and labor hours
- Rolled up material dollars, labor dollars, and labor hours
- Cost Quantity
- Whether the value for that plant was calculated, copied from another plant, carried forward from previous calculation, or not processed (no relevant data)

Reports - Display Average of Actual log

GPD MAC Display Log

Source
- MAC Log ID: 00000019 to
- PACE History ID: to

Date Selection
- Run Date: to
- Costing date: to

Filter
- Plant
- Material

Plant Type
- ☑ Procurement Plant
- ☑ Non-Procurement Plant

Calculation Type
- ☑ Calculated
- ☑ Copied
- ☑ Carried Forward
- ☑ No Cost Data Available

- Run date from the calculation processing date
- Costing date from the PACE snapshot
- Calculation type
  - ❑ Calculated: main plant with cost activity
  - ❑ Copied: value copied from calculated plant
  - ❑ Carried Forward: no change, value copied from previous MAC ID log
  - ❑ No Cost Data Available: no activity, no value copied, calculated, or carried forward

MAC Log ID	Creation date	History ID	Cost Date	Material	Plant	P	Method	Src P	M	TotMatCost	TotLabCost	TotLabHour	TCostQTY	AveMatCost	AveLabCost	TotAveHrs	Total Cost	TotalAveCt
00000019	01/22/2019	0000253	01/22/2019			X	Calculated			348.06	2,847.31	98.71	15	23.20	189.82	6.581	213.02	213.02
00000019	01/22/2019	0000253	01/22/2019				Copied							23.20	189.82	6.581	213.02	213.02
00000019	01/22/2019	0000253	01/22/2019				Copied							23.20	189.82	6.581	213.02	213.02
00000019	01/22/2019	0000253	01/22/2019				Copied							23.20	189.82	6.581	213.02	213.02

More Reports

Display Average of Actual

GPD MAC Display Moving Average Cost

Selection Date   04/09/2019

Material	Plant	Costing Date	MAC Log ID	History ID	MM.MAP	TotalAveCt	TotalAveLH	Curren...
	5000	01/22/2019	00000019	00000253		213.02	6.581	USD
	5001	01/22/2019	00000019	00000253		213.02	6.581	USD
	5002	01/22/2019	00000019	00000253		213.02	6.581	USD
	5003	01/22/2019	00000019	00000253		213.02	6.581	USD

Change History of the Calculation

GPD MAC Display Change History

Material	Plant	Costing Date	MAC Log ID	History ID	MM.MAP	TotalAveCt	TotalAveLH
	5000	02/12/2019	00000022	00000256		213.02	6.581
	5000	02/20/2019	00000023	00000257		213.02	6.581
	5000	02/26/2019	00000024	00000258		216.13	6.609
	5000	03/05/2019	00000025	00000259		228.30	7.063
	5000	03/12/2019	00000027	00000260		228.30	7.063
	5000	03/19/2019	00000028	00000261		228.30	7.063
	5000	03/26/2019	00000029	00000262		228.30	7.063
	5000	04/02/2019	00000030	00000263		228.30	7.063
	5000	04/09/2019	00000031	00000264		228.30	7.063

Future Enhancement Opportunities

- Currently only base (M&L) cost included, O/H can be added to have a full part cost

- Have capability to segregate averages by Production vs. Sustainment

- Make vs. Buy same part

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Presentation Materials

Access the slides from 2019 ASUG Annual Conference here:
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Q&A

For questions after this session, contact us at [email] and [email].

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