

## Bonepile Tracking

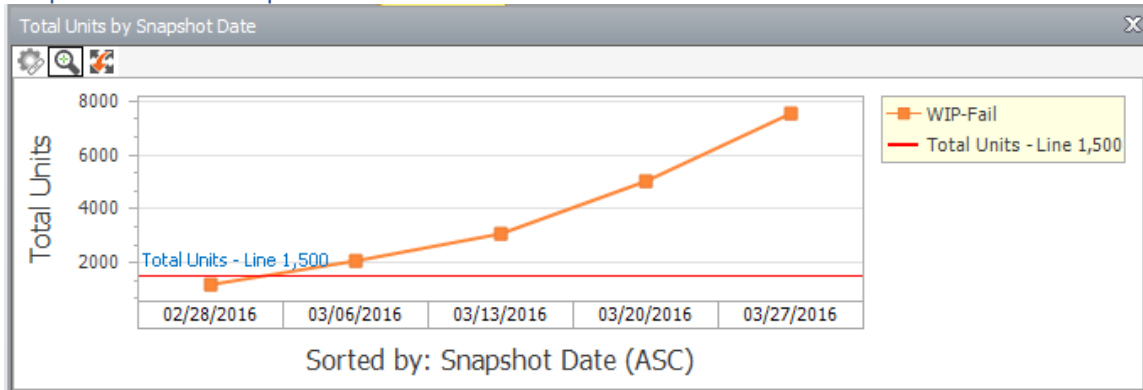
### The Challenge:

Preventing surprise invoices and “price variance” chargebacks are a concern of every electronics manufacturer. The timely write-off of obsolete material, identifying intermittent issues, corner cases and pairing/ compatibility insights, and preventing the salvaging of bad components need to be identified before costly expenditures are incurred.

### The Solution:

Global Ops for Electronics enables the tracking of factory bonepile in real-time. It helps engineers identify faulty products and associated failing operations and investigate patterns that may contribute to bonepile generation such as Line, Firmware and Operator. The example below shows a step-by-step illustration of the automated bonepile management capabilities inherent in Global Ops.

#### Step 1: Monitor Bonepile Accumulation



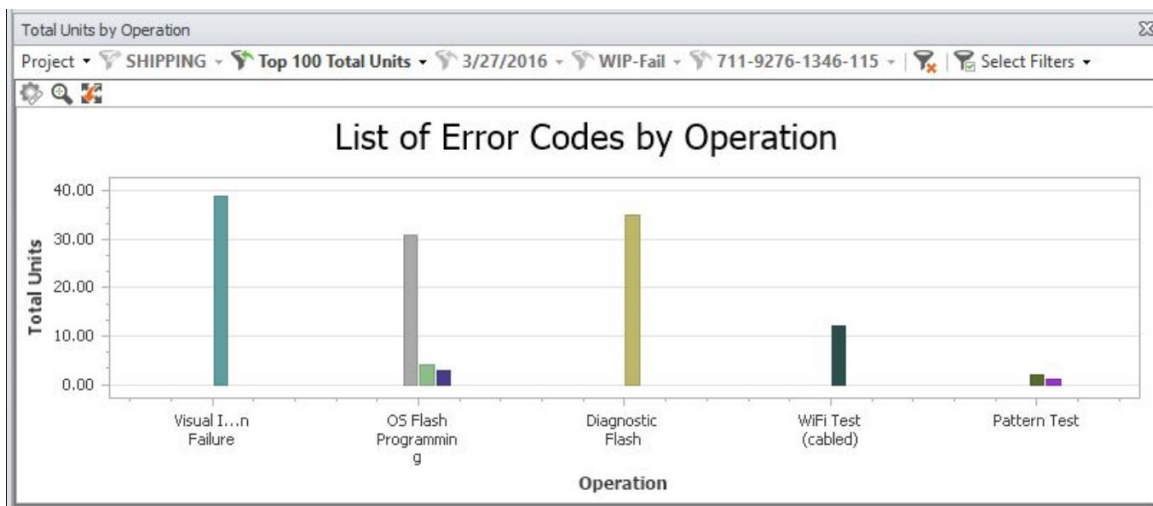
#### Step 2: Breakdown by Part number & Quantity

Inventory & Bonepile Analysis				
	Product	Snapshot Date	Unit State	Total Units
▶	791-63123-1181-113	3/27/2016	WIP-Fail	1,665
	791-33191-1311-212	3/27/2016	WIP-Fail	1,241
	911-72962-4913-311	3/27/2016	WIP-Fail	1,034
	911-72963-4913-311	3/27/2016	WIP-Fail	915
	911-71963-5336-411	3/27/2016	WIP-Fail	851
	791-23640-1939-211	3/27/2016	WIP-Fail	756
	799-63121-1611-821	3/27/2016	WIP-Fail	666
	911-72963-6313-421	3/27/2016	WIP-Fail	280

Step 3: Breakdown by Aging



Step 4: Distribution by Operation & Error Code



Step 5: Discover contributing dimensions

Snapshot Date	Total Units	Unit State	Product	Operation	Operator	Line
3/27/2016	34	WIP-Fail	711-9276-1346-115	Diagnostic Flash	2120347	ST8_PCBA_0
3/27/2016	28	WIP-Fail	711-9276-1346-115	Visual Inspection Failure	2094533	ST8_PCBA_0
3/27/2016	22	WIP-Fail	711-9276-1346-115	OS Flash Programming	2120347	ST8_PCBA_0
3/27/2016	12	WIP-Fail	711-9276-1346-115	OS Flash Programming	2079331	ST8_PCBA_0
3/27/2016	11	WIP-Fail	711-9276-1346-115	Visual Inspection Failure	2123653	ST8_PCBA_0
3/27/2016	5	WIP-Fail	711-9276-1346-115	WiFi Test (cabled)	2120347	ST8_PCBA_0
3/27/2016	4	WIP-Fail	711-9276-1346-115	WiFi Test (cabled)	2123653	ST8_PCBA_0
3/27/2016	4	WIP-Fail	711-9276-1346-115	OS Flash Programming	2123653	ST8_PCBA_0
3/27/2016	3	WIP-Fail	711-9276-1346-115	WiFi Test (cabled)	2079331	ST8_PCBA_0
3/27/2016	3	WIP-Fail	711-9276-1346-115	Pattern Test	1319421	ST8_PCBA_0
3/27/2016	1	WIP-Fail	711-9276-1346-115	Diagnostic Flash	2123653	ST8_PCBA_0