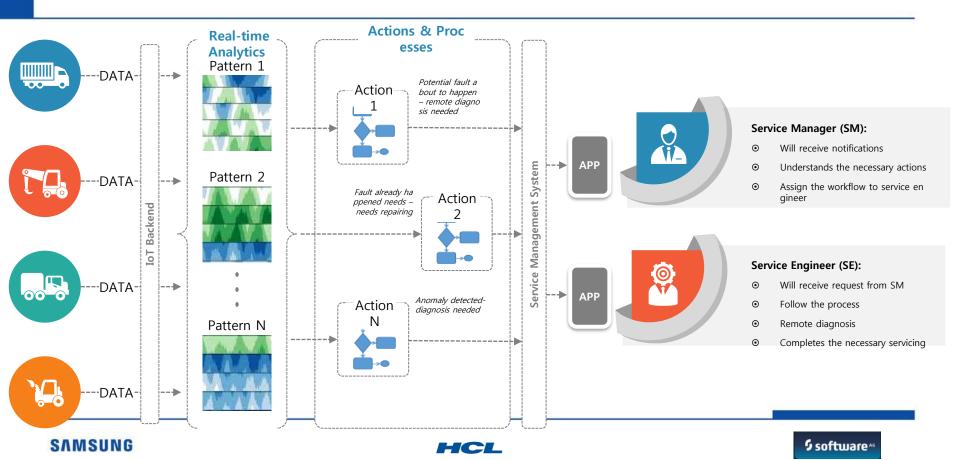
Predictive Maintenance – Solution



Predictive Maintenance – Solution (cont)

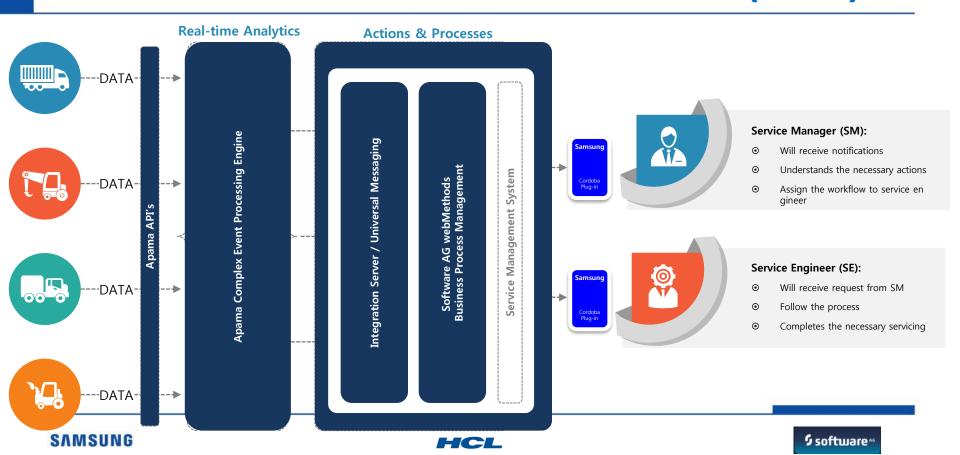
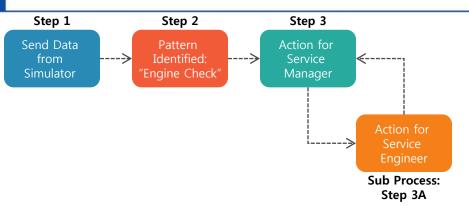


Illustration One – Performance of Engine



Steps	Activity	
Step 1	Simulator will send the data for Location, Engine RPM, Oil Viscosity & Speed	
Step 2	Pattern Matched: Engine RPM goes down even thoug h the other parameters are same. For different locatio n, this condition could be varying. Duration of Check: Monthly	
Step 3	Service Manager Activities	
Step 3A	Sub Process: Service Engineer Activities	

Sample Pattern

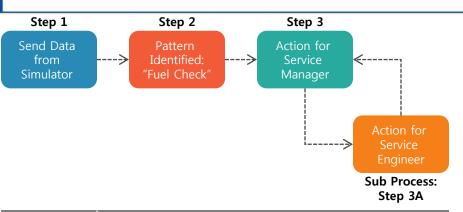
	•				
	Month	M1	M2	M3	M4
>	Engine RPM	1600	1400	1300	1000
	Location	Hanover	Hanover	Hanover	Hanover
	Speed	70	70	70	70
	Oil Viscosity	20	20	20	20

Action for Service Manager (SM):

- 1. SM will get a notification
- 2. SM has to trigger the following workflow:
 - 1. Inform the Owner
 - 2. On confirmation, Assign Service Engineer (SE) (Step 3A)
 - 3. Verify & Close the Process
- 1. Receives the request for work
- 2. Follow the guide lines
- 3. If spare parts needed order for that



Illustration Two – Fuel Efficiency



Steps	Activity	
Step 1	Simulator will send the data for Fuel Level & Speed, Mileage	
Step 2	Pattern Matched: Every week, Fuel Consumed / Distance Travelled. For different location, this condition could be varying Duration of Check: Weekly	-
Step 3	Service Manager Activities	_
Step 3A	Sub Process: Service Engineer Activities	

Sample Pattern

>_	Week	W1	W2	W3	W4
	Fuel Consumed (litres)	20	25	10	20
	Distance Travelled	200	250	100	200

Action for Service Manager (SM):

SM will get a notification, if the Fuel Efficiency goes below 7 SM has to trigger the following workflow:

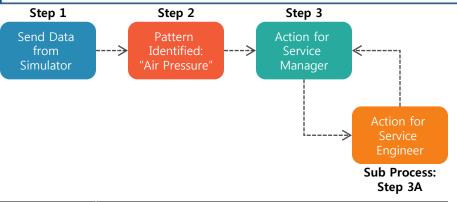
- 1. Inform the Owner
- 2. On confirmation of servicing, Assign Service Engineer (SE)
- 3. Verify & Close the Process

Sub Process for SE:

- 1. Receives the request for work
- 2. Service the Vehicle
 - 1. Follow the Guide
 - 2. Order the parts



Illustration Three – Air Pressure



Steps	Activity		
Step 1	Simulator will send the data for Tire Pressure, Location		
Step 2	Pattern Matched: Every 5 mins, the Tire pressure is go ing down for the same location. For different location, this condition could be varying Duration of Check: 5 Mins		
Step 3	Service Manager Activities		
Step 3A	Sub Process: Service Engineer Activities		

Sample Pattern

	Minutes	5	5	5	5
>	Tyre Pressure	35	30	25	22
	Location	Chennai	Chennai	Chennai	Chennai

Action for Service Manager (SM):

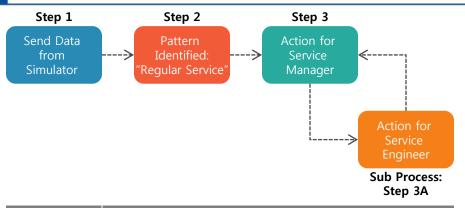
- 1. SM will get a notification
- 2. Trigger Straight Through Process to SE

Sub Process for SE (Point 2):

- 1. Receives the request for work
- 2. Assist the Owner
 - 1. With the steps for replacing OR
 - 2. Suggest the dealer based on proximity



Illustration Four – Service Request



Steps	Activity	
Step 1	Simulator will send the data for Km run	
Step 2	Pattern Matched: If the vehicle km has reached 10000 comparing to previous service.	
Step 3	Service Manager Activities	
Step 3A	Sub Process: Service Engineer Activities	

Action for Service Manager (SM):

SM will get a notification, if the km had reached 10000 compared to previous run

SM has to trigger the following workflow:

- 1. Inform the Owner
- 2. On confirmation of servicing, Assign Service Engineer (SE)
- 3. Verify & Close the Process

Sub Process for SE:

- 1. Receives the request for work
- 1--> 2. Service the Vehicle
 - 1. Follow the Guide & Perform regular service
 - 2. Order the parts





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