
TEGO

Powering Assets with Intelligence

Enhanced Equipment Servicing Based on Flyable Parts

ATA eBusiness Forum – October 2015

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Acknowledgment to B/E Aerospace

Tego appreciates the strong partnership and involvement of B/E Aerospace in jointly pioneering the concepts in the developments shown in the following presentation.



Thousands of Airplane Parts are now 'smart' with information

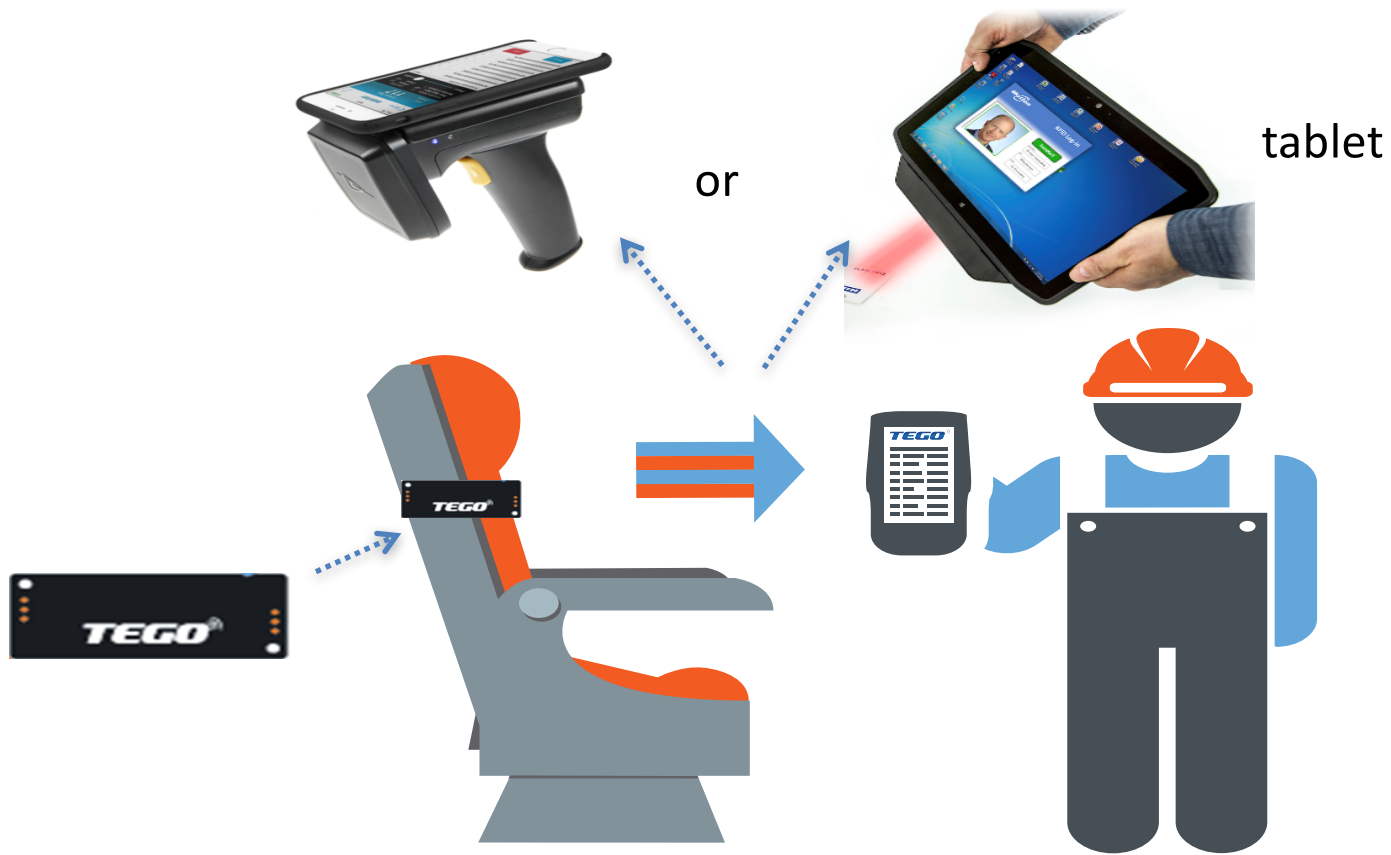
The screenshot shows the Airbus press center website. The main headline is "Airbus extends RFID part-marking across all its aircraft families". Below the headline is a sub-headline: "Efficient and error-proof identification of aircraft components". The page includes a search bar, navigation menu, and social media sharing options.

The screenshot shows the RFID Journal website. The main headline is "Boeing Program Automates Aircraft Maintenance Tasks". The article is by Jennifer Zalno and is dated July 28, 2013. The article text states: "RFID Integrated Solutions, certified by the FAA, promises to help airlines save labor, time and money." The article also includes a quote from Steve Meizlish, President & CEO of MeizCorp Services, Inc., who says: "I have found that RFID Journal provides an objective viewpoint of RFID. It you are looking for a resource that provides insights as to the application and implications of..."

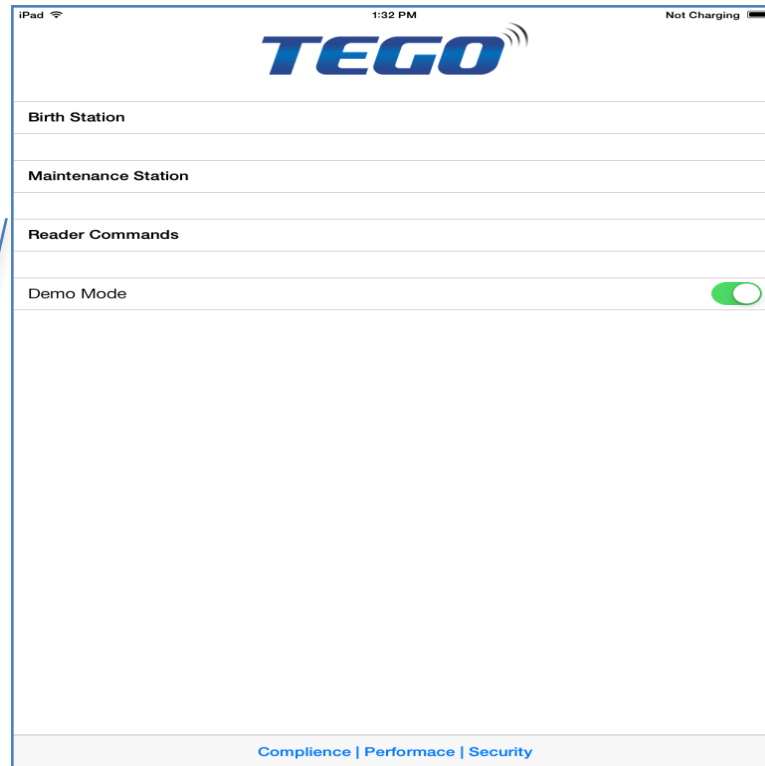
During maintenance activity, worker reads data embedded on seat ...



During maintenance activity, worker reads data embedded on seat ...




Launch app for reading data wirelessly from the seat



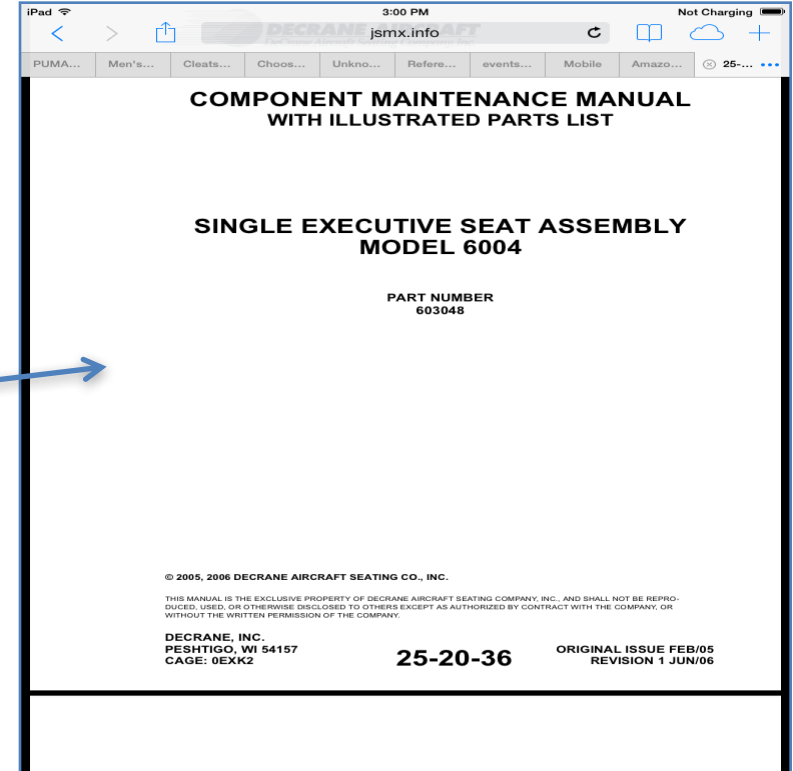
Airplane seat has MFR, PNO, SER, DMF ...

All data was encoded during OEM's manufacturing



Birth Station		B/E-SPG SER CMM	
92801	Manufacturer CAGE code (MFR)		
TST147	Spec2000 Unique Serial # (SER)		
87947201DC01	Original Part Number (PNO)		
1	UID Construct Indicator (UIC)		
PASSENGER_SEAT_ASSEMBLY	Part Description (PDT)		
20141204	Manufacture date (yyyyMMdd) (DMF)		
940110	International Commodity Code (ICC)		
129.6	Original Manufacture Weight (WGT)		
LB	Unit of Measure (UNT)		
1	Life Limited Equipment Indicator (LLE)		
25-23-51-3729	Component Maintenance Manuals (.CMM)		

So now we can reference, for example, full CMM ...

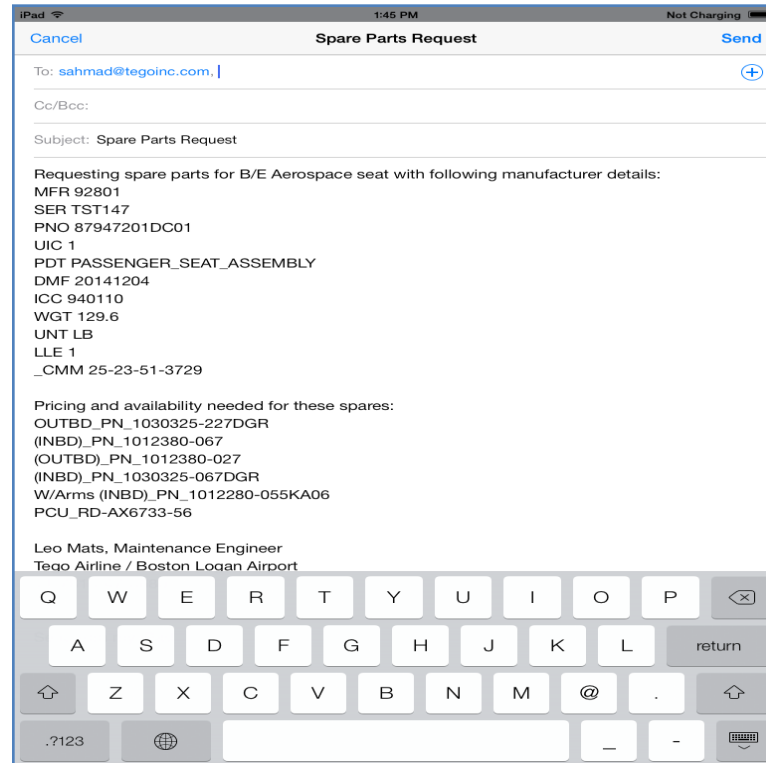


.....or access full list of all related Spare Parts, and ...

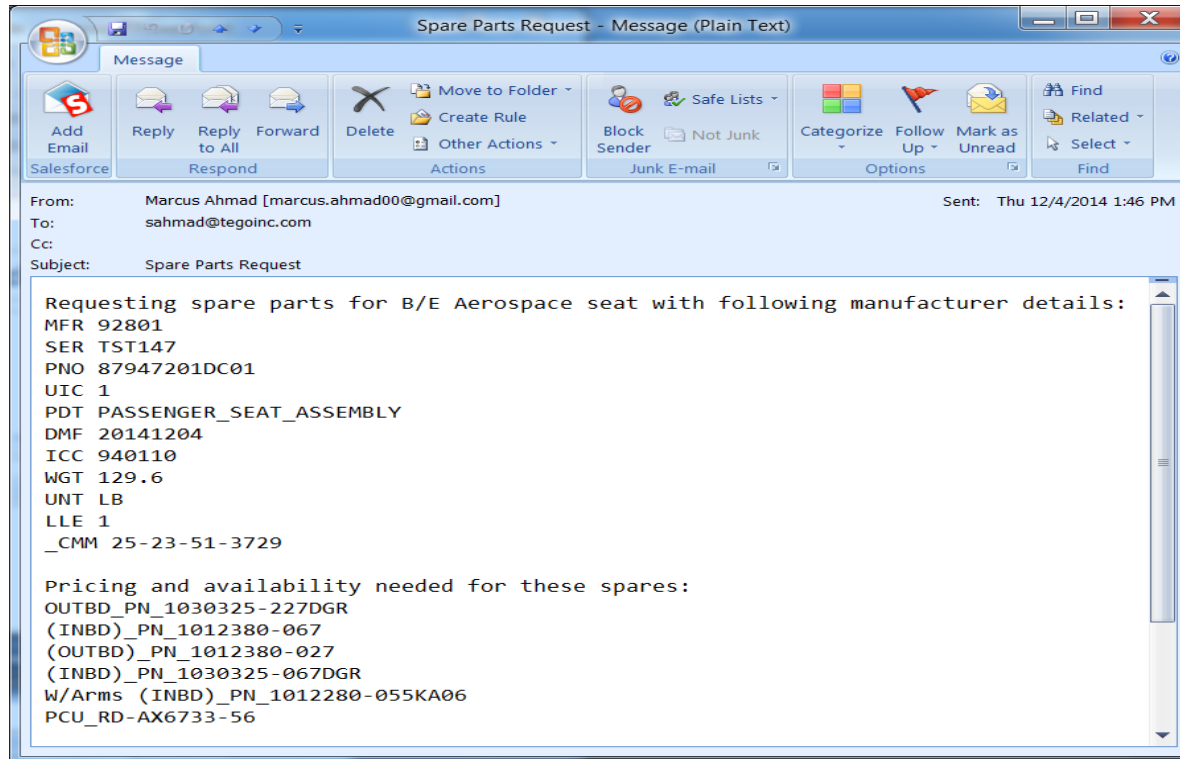
Spare Parts	
COVER - BOTTOM	
INBD_PN_1030325_227DGR	
CTR_PN_1030325-227DGR	
OUTBD_PN_1030325-227DGR	✓
CUSHION ASSEMBLY - BOTTOM	
(INBD)_PN_1012380-067	✓
(CTR)_PN_1012380-027	
(OUTBD)_PN_1012380-027	✓
COVER ASSEMBLY - BACK	
(INBD)_PN_1030325-067DGR	✓
(CTR)_PN_1030325-067DGR	
(OUTBD)_PN_1030325-067DGR	
BACK-MOUNTED FOODTRAY ASSEMBLY	
W/Arms (INBD)_PN_1012280-055KA06	✓
W/Arms (CTR)_PN_1012280-055KA06	
W/Arms (OUTBD)_PN_1012280-055KA06	
IFE	
SEB_RD-AX4332-01	
PCU_RD-AX6733-56	✓
RJU_RD-AX6421-21	

Send E-mail

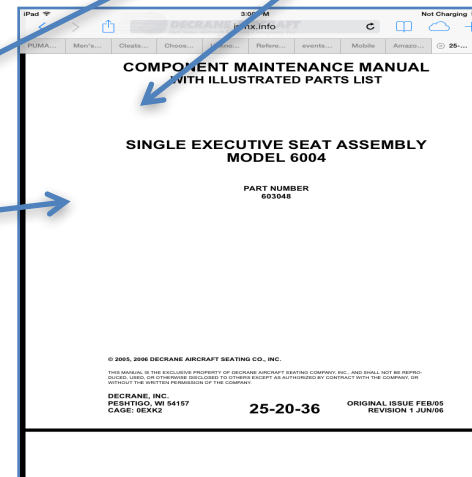
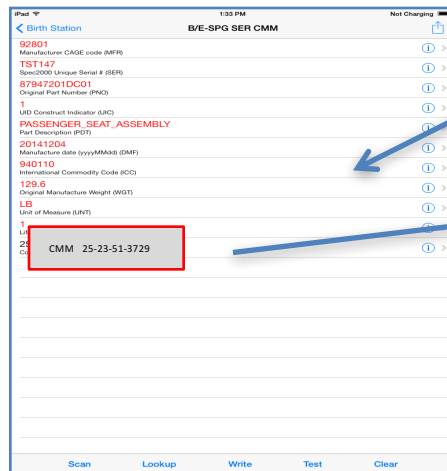
... send email, incl. exact part details from the seat needing maintenance



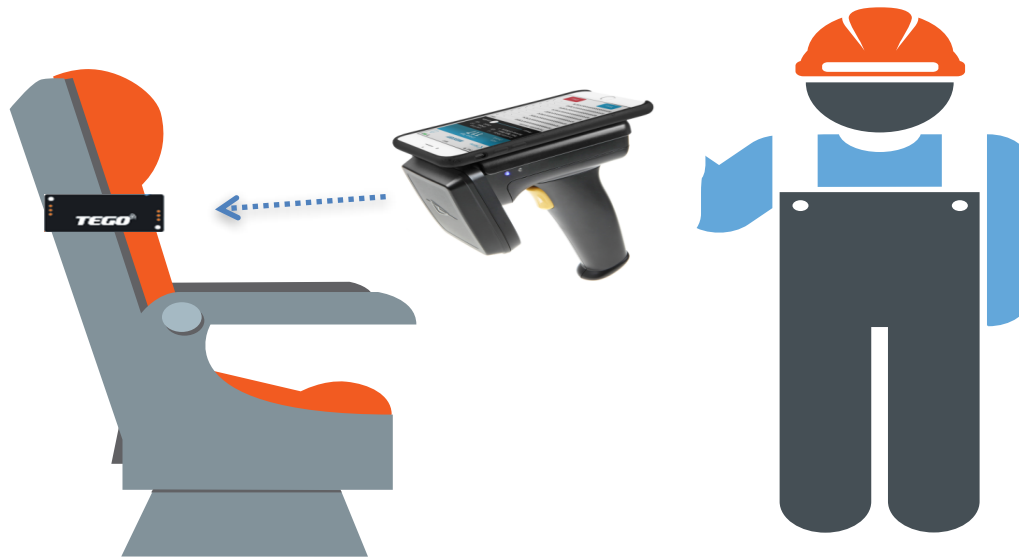
Supplier gets email for spare parts and/or service



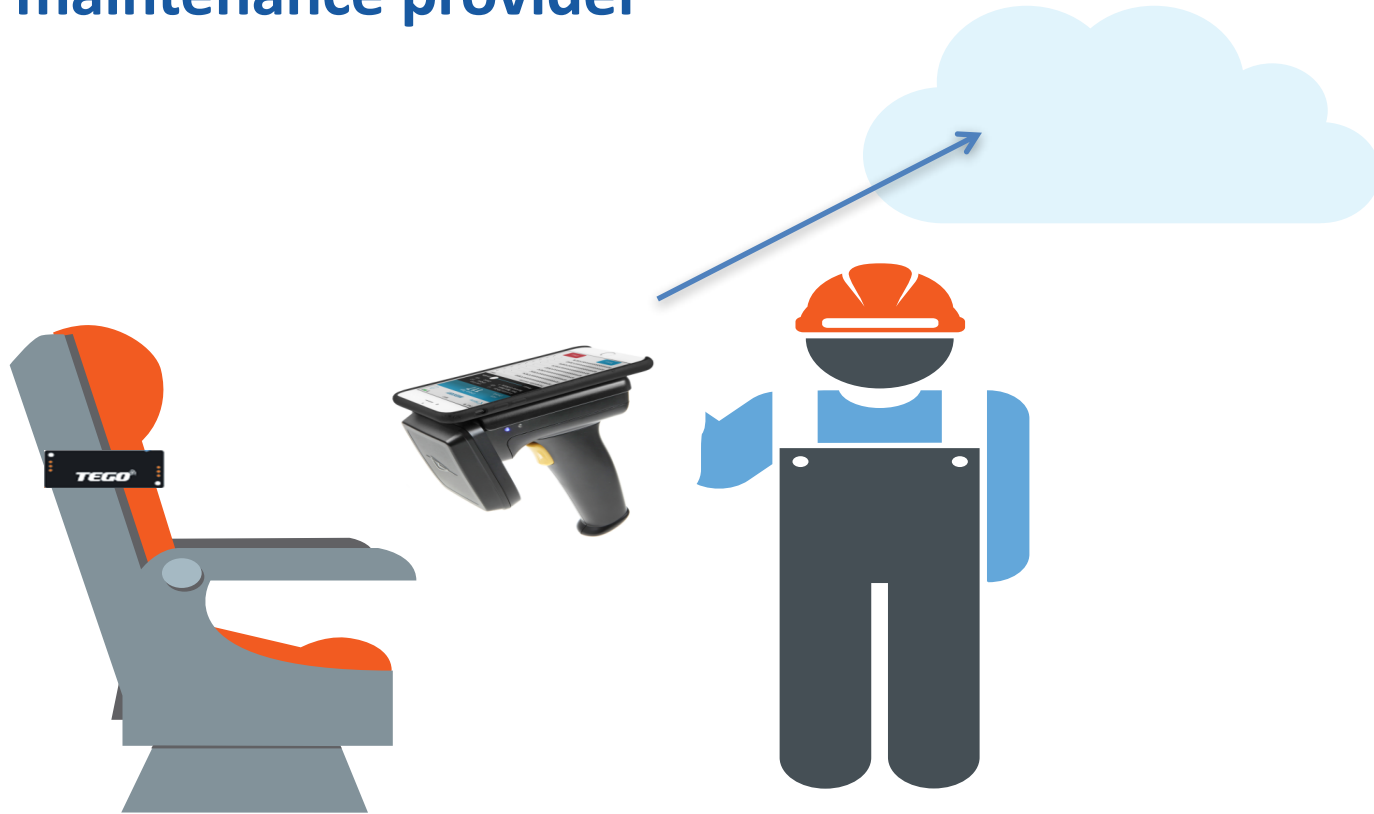
Parts list, software revisions and CMM Manual can be distributed/updated through the Cloud



**When maintenance activity completed,
write Part History Record update to airplane seat ...**



... and have its log history shared in the cloud with the part owner or maintenance provider



This only the beginning...

- There is a whole world of additional enhancements emerging:
 - work processes
 - data services
- Another name for this in the broader context is..Internet of Things!