

Enhanced Equipment Servicing Based on Flyable Parts

ATA eBusiness Forum – October 2015

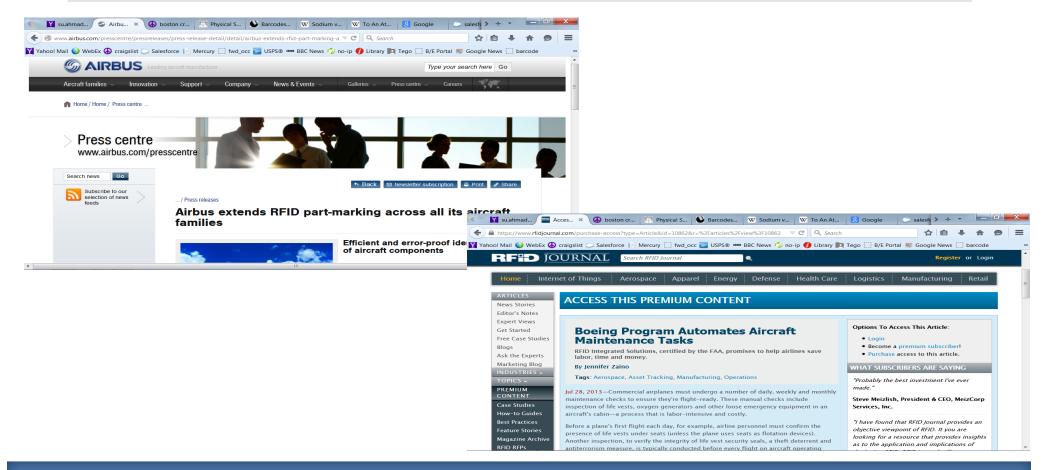
Su Ahmad, Customer Specialist Tego, Inc.

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



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

		iPad 🗢	1:32 PM	Not Charging 📟
		Birth Station		
		Maintenance Station		
	/	Reader Commands		
	/			
	/	Demo Mode		
TEGO	/			
	/			
	/			
	/			
	/			
		Complienc	e Performace Security	

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

All data was encoded during OEM's manufacturing



iPad 🗢		1:33 PM		Not Charging 💻
Birth Station	B/	E-SPG SER CMM		Ê
92801 Manufacturer CAGE code (MFR)				(i) >
TST147 Spec2000 Unique Serial # (SER)				(i) >
87947201DC01 Original Part Number (PNO)				(i) >
1 UID Construct Indicator (UIC)				(i) >
PASSENGER_SEAT_A	SSEMBLY			(i) >
20141204 Manufacture date (yyyyMMdd) (E	DMF)			(i) >
940110 International Commodity Code (I	CC)			(i) >
129.6 Original Manufacture Weight (WC	ат)			(i) >
LB Unit of Measure (UNT)				(i) >
1 Life Limited Equipment Indicator	(LLE)			(i) >
25-23-51-3729 Component Maintenance Manua	ls (_CMM)			(i) >
Scan	Lookup	Write	Test	Clear

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



Pad ᅙ	1:33 PM	Not Charging 📟	iPad 🗢					3:00 PM				Not Charging	.g 💻
Kernel Station	B/E-SPG SER CMM	Ē.	<	> 🗅				jsmx.info		c	P	\bigcirc	+
92801 Manufacturer CAGE code (MFR)		(i) >	PUMA	Men's	Cleats	Choos	Unkno	Refere	events	Mobile	Amazo	. 🛞 25	•••
TST147 Spec2000 Unique Serial # (SER)		(i) >			CON			MAINT				L	
87947201DC01 Original Part Number (PNO)		(i) >				VVII		JSTRAT	ED PAR	15 LIST			
1 UID Construct Indicator (UIC)		(i) >											
PASSENGER_SEAT_ASSEMBLY Part Description (PDT)	•	(1) >											
20141204 Manufacture date (yyyyMMdd) (DMF)		(1) >			SIN	GLEE				ASSE	MBL	(
940110 nternational Commodity Code (ICC)		(i) >					Ň		0004				
129.6 Driginal Manufacture Weight (WGT)		(i) >						PART NUI 60304					
_B Jnit of Measure (UNT)		(i) >											
1 Life Limited Equipment Indicator (LLE)		(i) >		>									
				G	2005, 2006 D	ECRANE AIR	CRAFT SEA	ATING CO., INC.					
					HIS MANUAL IS T UCED, USED, OR /ITHOUT THE WR	OTHERWISE DIS	SCLOSED TO O	DECRANE AIRCRAFT ITHERS EXCEPT AS A IMPANY.	SEATING COMPAN UTHORIZED BY CO	Y, INC., AND SHALL NTRACT WITH THE	NOT BE REPRO COMPANY, OR		
				F	DECRANE, I PESHTIGO, CAGE: 0EXI	WI 54157		25-2	0-36	ORIGINA RE ^V	L ISSUE F	EB/05 UN/06	
	p Write	Test Clear											

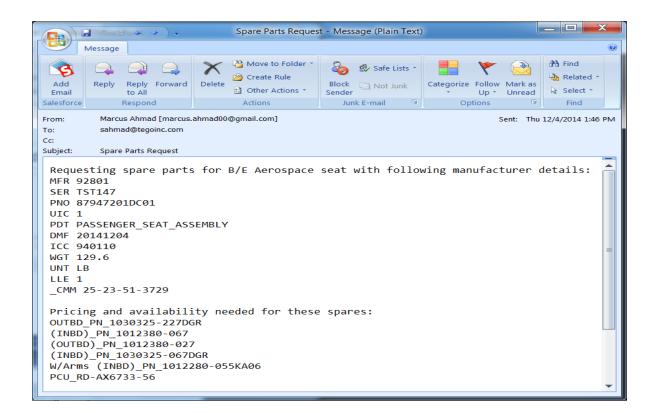
.....or access full list of all related Spare Parts, and ...

iPad 🗢	1:44 PM	Not Charging
< Birth Record	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_1030325-067DGF	3	
BACK-MOUNTED FOODTRAY ASSEME	BLY	
W/Arms (INBD)_PN_1012280-05	55KA06	~
W/Arms (CTR)_PN_1012280-05	5KA06	
W/Arms (OUTBD)_PN_1012280	-055KA06	
IFE		
SEB_RD-AX4332-01		
PCU_RD-AX6733-56		~
RJU_RD-AX6421-21		
	Send E-mail	

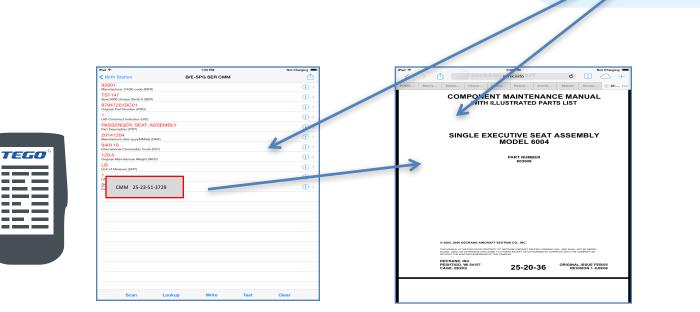
... send email, incl. exact part details from the seat needing maintenance

					-									
Cancel					Spare	e Parts	Reque	est						Send
To: <mark>sahr</mark>	mad@tego	inc.com	,											÷
Cc/Bcc:														
Subject:	Spare Pa	irts Requ	uest											
	sting spar	e parts	for B/E	Aeros	pace	seat w	ith follo	owing	manu	ufact	urer d	etails	s:	
MFR 92	2801													
SER TS	ST147													
	79472010	DC01												
UIC 1														
	ASSENGE	R_SEA	T_ASSI	EMBLY	·									
	0141204													
ICC 94														
WGT 1														
	3													
LLE 1 _CMM Pricing OUTBE	25-23-51 and avai D_PN_103	lability r 30325-2	27DGF		ese sp	ares:								
Pricing OUTBE (INBD)_ (OUTBI (INBD)_ W/Arm: PCU_R Leo Ma	25-23-51 and avai D_PN_103 PN_1012 D)_PN_101 C_PN_1030 s (INBD)_ RD-AX673 ats, Maint	ability r 30325-2 2380-06 012380- 0325-06 PN_10 ⁻ 3-56 enance	227DGF 37 -027 37DGR 12280-0 - Engine	3 D55KA(er		oares:								
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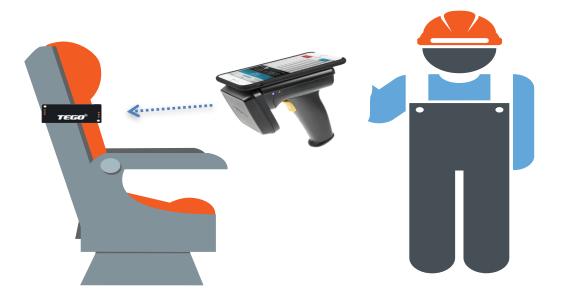
Supplier gets email for spare parts and/or service



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!