

August 17-19, 2023
Little Rock/LRAFB, AR

As Presented at:



... And Quite A Bit More!

By: Larry Crain, LTC(Ret), USAF
Founder, CEO, and Principal Investigator

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www.IDEA-LTK.com — 314-541-4499

Loadmaster ToolKit

A Standard Electronic Flight Bag

for all US Air Force, DoD, and Allied

Loadmasters and Boomers and Flight Engineers

to **improve** airlift mission planning,
execution, management & reporting

and to substantially **reduce** airlift
operational costs and effort

at a very **low cost** and **low risk**
to build, test, *Field and **FLY!***

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Loadmaster Toolkit³SM

was designed to deliver, on Airlifter:

Automated Payload Planning & Management app: “**LTK-F**”

Plus:

- ✓ Crew Communication: Message, E-Mail, Voice/Video
 - ? Interactive Crew Training: Audio/Video, Interactive, Text
 - + Electronic Checklists, Forms, and Manuals/TOs
 - + **Many More** Capabilities: Custom and COTS Apps
- ... in an easy-to-use, **fully-supported, affordable Service**



**... with a new, quick, accurate,
easy-to-use standard app ...**

KBLV@01:23 ==> KLAX@12:34

Pilot: CPT. ARNOLD		C130-CP-2	
Load: A/C ABLE		3. Crew	2B+D
		4. Cr Bag	45@C
10. TO Fuel	21000	5-8. Eq/Other	1035
- Est. Burn (11:11) 51300		9. Op Wgt	82250
23. LD Fuel	14500	12. TOTAL	103250

Place Load

900

MaxLoad@	to	23138
PAX	10	2150
Pallets	0	0
Vehicles	1	5900
Floor Load	3	2945
15. CARGO		10995
Remaining		12743

CG Limits (GMAC)

TO: 20	27.9	30
ZF: 15	25.8	29
DR: 27.4	=>	28.5
LD: 17	27.9	29

Weight Limits

19. TO Wgt	114245
21. ZF Wgt	93245
22. Air Drop	900
24. LD Wgt	106845

LM: _____ W&B: _____ Pilot: _____ Filed: _____

Mission: GOLOAD14

PLACE LOAD

C130#96-1003 @ 2014-02-17

Load: 10995#; CG @ TO: 561; @ LD: 583.5

... running on already-issued flight crew tablets (iPad®)

... plus on any standard PC

GoLOADS23 LTK.key - August 19, 2023

LTK-F Savings & Fee:

"A Buck A Ton!"


From HQ MAC, 1995-ish

CARGO LOADING
...THIS IS GRAVY \$\$
"WHAT'S THAT YOU SAY!"
LOADS CAN'T SAVE FUEL
"OH YEAH!"

DID YOU KNOW THAT BY LOADING YOUR AIRCRAFT TO AN **AET** CG POSITION (WITHIN AERODYNAMIC STABILITY LIMITS) RANGE GOES \rightarrow (AS MUCH AS **2%**) OR FUEL CONSUMPTION GOES \rightarrow (AS MUCH AS **2%**).

WHY: OPTIMUM CG NEGATES THE NEED FOR TRIM (WHICH IS DRAG) TO COMPENSATE FOR THE AIRCRAFT IMBALANCE. **AET CG** MOVES THE CENTER OF GRAVITY OF THE AIRCRAFT CLOSER TO THE CENTER OF LIFT OF THE WING.

REMEMBER LOADS, KEEP YOUR C.G. IN THE REAR!!



By optimizing payload CG, LTK-F could yield 0.5-1.5% fuel cost savings...

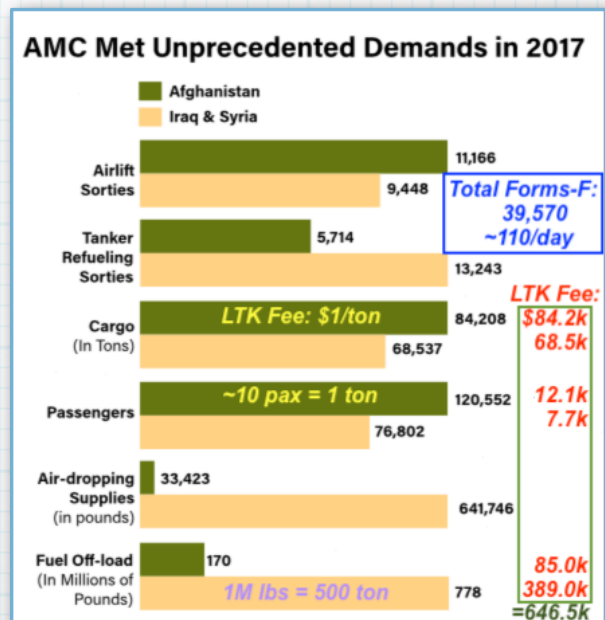
A loaded C-130:



... burns about 1000 gallons of Jet Fuel per hour. A 0.5% savings is 5 gallon, costing about \$20.

Thus, on a 10-ton C-130 load, LTK-F would repay a \$10 fee less than 30 minutes into the mission.

From HQ AMC, 2018



LTK-F should save the USAF over \$10 Million/yr! And generate a viable cash flow for an SVOB.

LTK-F *Will Support:*

- **C-130:**

- **KC-135:**

- **C-5 + C-17:**

- **KC-10 + KC-46:**

- ***Other USAF: HH-60, CV-22, etc***

- ***Other US Services, Plus our Allies: CH-47, CH-53, etc.***

USAF Airlifters & Tankers

Mission Inputs to LTKSM

7

Our original focus for **Loadmaster ToolKit™** was on helping all our military Loadmasters — before, during, and after their airlift missions.

However, having briefed **LTK-F™** at a dozen Loadmaster and Tactical Airlift conferences, and having discussed “real world” workflows, we’ve discovered that there are also several “surrounding” groups...

- ➔ Aerial Porters assembling and preparing shipments
- ➔ Unit Deployment/Movement Planners and managers
- ➔ Theatre/Command/Joint Mission Planners and managers
- ➔ Others? *(Almost certainly YES! But just WHO they are remains still TBD...)*

... who would also benefit from simplified versions of our payload planning technology, focused on **their** responsibilities and duties.

IDEA ToolKits is therefore pivoting to also create additional ToolKits, one for each of these groups, and mutually interoperable with **LTK-F** and with each other. We expanded our focus, to build and offer a...

Payload Logistics Accelerator



Payload Logistics Accelerator System

Payload **L**ogistics **A**ccelerator **S**ystem
will provide USAF/DOD Airlift operators with:



... improving turn-around, capacity, responsiveness,
... at ***ZERO*** Additional Cost!

Payload **L**ogistics **A**ccelerator **S**ystem
will provide USAF/DOD Airlift operators with:

+ Deployment Planner ToolKit

+ Aerial Porter* ToolKit
* +ALCE



+ Leadership Visibility

+ Shipment Tracking

FREE!

... improving turn-around, capacity, responsiveness,

... also at **Little Additional Cost!**

Payload Logistics Accelerator System, for...

Tracking, Inquiries & Command



Presented at:



20 23
Gathering
of Loads

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But Wait!

There's...

Just One MORE Thing!

PLA

Missions
Mission: AAAATTTT
Date: 09-19-97
Load: 23.34

KADW @ 23.34 **Wing: KBLV @ 03:24**

Plat/Misc CHARLES
Type: A/CABLE

10. To Fuel 40000
- Est. Burn(3:50) 15300
23. LD Fuel 22500

Place Load

CG Limits
TO: 22 27.24 30
ZF: 15 22.4 30
DR: 20.8 22.4 30
LD: 19 23.2 30

Weight Limits
Max Wt 133500
22. MaxPrg 93500
23. MaxPrg 2600
24. LD Wgt 113250

Remaining 21642

MaxLand
Crew 2800
C. Cr. Bag 2600
S. Cr. Bag 1100
P. Op. Wt 9100
22. TOTAL 121000
PAX 0
Paratro 3100
Fuel 800
Floorload 0

L.M.: W&R: 244.0
Send/Print... Filed:

Help Wanted!

Payload Logistics Accelerator System

*IDEA ToolKits*TM

VISION:

A single common **ToolKit*** for **ALL** Military Loadmasters,
... **interoperating** with similar ToolKits for Aerial Porters and ALCEs,
for Deployment Planners, and for Commanders and Logisticians,
across the US Air Force, the DoD, and our Allies,

... all created, supported, and continuously improved by a
dedicated and passionate **Veteran-Owned Small Business**,

... and available as an affordable, Pay-as-you-Fly **SERVICE**
with minimal up-front cost, risk, training, or commitment.

★ **“ToolKit”** == An integrated set of applications, data, IT services,
practices, and (optionally) hardware, to **Support Airlift Mission...**
specifically payload planning, management, and reporting



- Aerial Porters/ALCEs
- Deployment Planners
- Champions, In and Out
- Business Partners & Employees



Payload Logistics Accelerator System