



A PUSH FOR PAPERLESS

Robert Saunders highlights the benefits of digital mobility solutions

For over a decade, Ultramain Systems has been a leader in paperless mobility solutions. We partner with airlines and MROs of all sizes to help them achieve the many benefits that come with digital transformation, securing significant operational efficiencies, from faster turnaround times to improved aircraft reliability, through adoption of our digital solutions.

To meet two distinct areas of customer demand, we offer ULTRAMAIN ELB and ULTRAMAIN v9 M&E/MRO. ULTRAMAIN ELB is a full online/off-line electronic tech and cabin log providing instinctive usability for flight crew, cabin crew and both airline and third party mechanics. The application has been adopted by many airlines regardless of which M&E system was already in place.

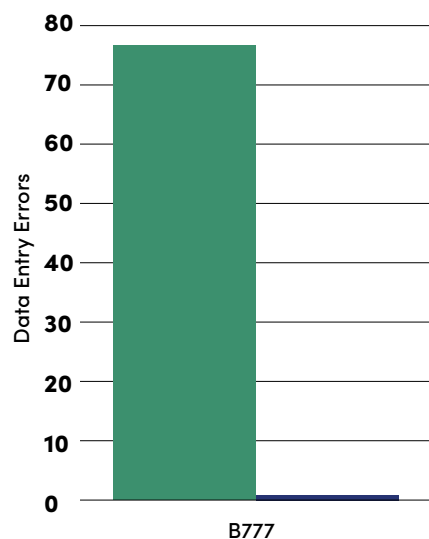
ULTRAMAIN Unity v9 is a complete Airline/MRO system capable of managing all engineering functions from aircraft/engine acquisition to disposal. Its

functional modules, with strong interface capabilities, make v9 ideal for full system replacement or modular integrations with existing M&E systems. This can fast-track business benefits without requiring a major system replacement.

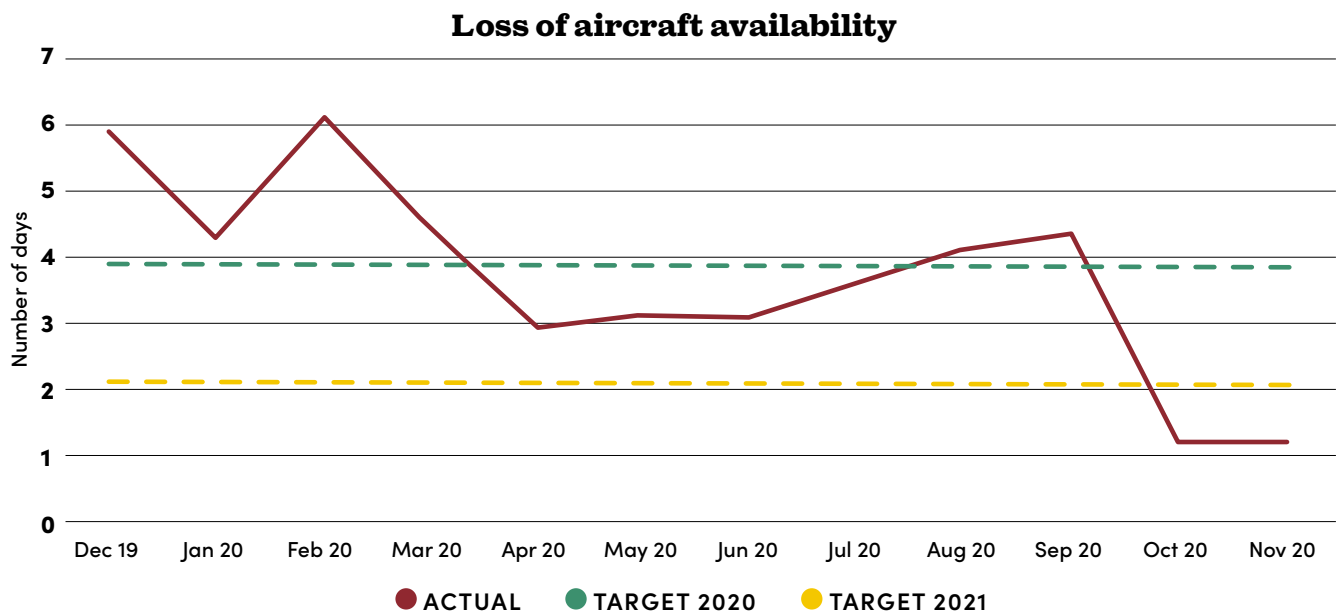
Our ELB software is at the core of our discussion today. Barriers to paperless operations are now lower than ever before. Adopting a proven electronic system with over 3 million sectors of customer experience presents low risk and high gain. Ultramain has implemented ELB across diverse customer fleets, incorporating user-driven enhancements into the core product and today many airlines use ULTRAMAIN ELB in daily paperless operations.

There are, of course, the inherent and tangible savings in eliminating paper usage including printing, distribution, collection, data entry and avoidance of tech records storage. However, just removing the paper should not be the main objective. There is a

Defect trends



● PAPER MAINTENANCE LOG
● ULTRAMAIN ELECTRONIC LOGBOOK



▲ Progressively improving trend in aircraft availability (effective airframes per day unavailable to the operation due to unscheduled defects)

“BARRIERS TO PAPERLESS OPERATIONS ARE NOW LOWER THAN EVER BEFORE”

much bigger opportunity. For longer term users of ULTRAMAIN ELB, the initial improvements in efficiency have resulted in a paradigm shift in the way line maintenance is managed. The initial positive impact has exceeded expectations.

Data integrity and real time operational decisions support

Upon adoption of ULTRAMAIN ELB, there is an immediate positive impact on data integrity and avoidance of data entry errors. This improvement is reflected in your existing maintenance system and processes by providing accurate structured ELB data that can be relied on for operational decisions as well as planning, parts and labour allocation.

Aircraft availability

Defects must be rectified or properly deferred prior to the next flight. Defect rectification is often scheduled during ground time made available by increasing the utilisation of other aircraft. This increases the risk of disruption if defects on other aircraft occur. The compounded effect is a higher risk of delays and cancellations.

Conversely, reduced time to rectify defects, and the avoidance of repeat

defects will lead to more aircraft availability. For larger fleets, sustainable defect life cycle reduction can provide availability to operate additional sectors without increase fleet size. This operational saving far outweighs delay cost avoidance.

Reduction in PIREP rate

The PIREP rate is a primary indication of aircraft system reliability. ULTRAMAIN ELB's on-device decision support tools can lead to the reduction of repeated faults. Real-time visibility of inbound defects on the ELB fleet dashboard enables inbound defects to be rectified before the next flight.

This information is available without attending the aircraft, so manpower can be directed to the aircraft requiring engineering presence. Clear system history available on the ELB device highlights component changes and avoids repeat replacements of serviceable LRUs due to a reoccurrence of the defect.

Aircraft delays are seen as a primary measurement of aircraft reliability. A reduction in initial and repeat defects will avoid the risk of a delay, but there is a wider story to delay rates. To be more precise, dispatch reliability is a measure of the organisation's ability to react



▲ ULTRAMAIN ELB defect maintenance log

and accommodate a defect occurrence, without that defect causing a delay. Real time visibility allows for preparation.

ULTRAMAIN ELB enables optimised disruption management to avoid delays and reduce delay duration. By eliminating inefficiencies relating to paper-based systems, Ultramain Systems continues to set the standard for digital transformation in aviation maintenance. ●



For more on Ultramain Systems, visit: ultramain.com