



INSPECTION/CERTIFICATION

ANALYTICS

Business Transformation Reimagined

As industries are getting rapidly digitalized and disrupted, business transformation is gathering pace across spectrum. Analytics is expected to play a big role in business transformation, especially through inspection and certification. Some of the disruptive innovations are multi-channel information sharing, 3D modeling, color-coded warnings, Interactive Electronic Technical Publications (IETPs), and new-age training modules.

Unavailability of right data, lack of document architecture, lack of visibility into approvals, and version control are critical challenges that have been haunting businesses for quite a while now. Certification analytics intend to address these challenges and create a seamless ecosystem. Solutions range from content modules, certification indexing, and cloud-based storage to invalid document notification, interactive schematics, embedded training, and automated publishing and delivery.

HCL's solutions suite is carefully tailored to benefit clients across domains. Benefits of HCL's inspection and certification analytics-driven services include reduced time for searching documents, easy revision and updating, improved efficiency, and user-friendly navigation among others.

CHALLENGES



UNAVAILABILITY OF THE RIGHT DATA

Unavailability of the right data at the maintenance facility library or database, when data exists in resources such as separate Supplementary Type Certificate (STC) or service bulletin



LACK OF DOCUMENT ARCHITECTURE

Lack of compliance to document architectures (S1000D, FAA Form 8130 etc.) makes it difficult to track, search and maintain data



APPROVALS

It is extremely difficult to keep a track of all approvals (design, production, airworthiness standards etc.) required for different certifications



VERSION CONTROL

The risk of using outdated/wrong documents is more common at facilities which rely on manual/paper based technical documents



DOCUMENT RETENTION PERIOD

All type of documents should be retained for a minimum of 5 years for products and articles and a minimum of 10 years for critical parts. It is difficult to manage such data for paper based documents



DIFFERENT AIRCRAFT CONFIGURATIONS

Manual/Paper based technical publications increase the risk that the maintenance will be conducted for an incorrect aircraft configuration



LIMITED SEARCH CAPABILITIES

Usage of electronic page turners and portable document formats (PDFs) is inefficient due to limited search capabilities and lack of drill down approach. They lack next-generation technologies (3D visualizations etc.) to present and access technical information



DATA VOLUME

Aircraft manufacturers manage more than 3 million pages of certification data. 10% of this content is revised annually

TRENDS



MULTI CHANNEL

Technicians/Inspection Officers now require access to critical information on their laptops, tablets and smartphones.



NEW TECHNOLOGIES

Advanced technologies like 3D modelling, color coded warnings and cautions, voice recognition are leveraged in technical publications.



INTERACTIVE ELECTRONIC TECHNICAL PUBLICATIONS (IETPS)

Class IV and V IETPS, with guided and non-linear navigation, rich multimedia graphics are gaining foothold in the Aerospace and Defense field.



TRAINING

Computer Assisted document tutorial systems, embedded video training and real time feedback mechanisms are gaining traction to improve usability and evaluation.

SOLUTION OVERVIEW

DOCUMENT MANAGEMENT



**CONTENT
DIGITALIZATION**



**CERTIFICATION
INDEXING**



ANALYTICS



**CONTENT
MODULES**



**CLOUD BASED
STORAGE**



**ENCRYPTIONS AND
DATA SECURITY**



**MULTIPLE
SPECIFICATIONS
SUPPORT**

SOLUTION OVERVIEW

INTERACTIVE ELECTRONIC TECHNICAL PUBLICATIONS (IETPS)



INVALID DOCUMENT
NOTIFICATION



LOAD ON
DEMAND



INTERACTIVE
SCHEMATICS



RESPONSIVE
DESIGN



AUTOMATED
PUBLISHING & DELIVERY

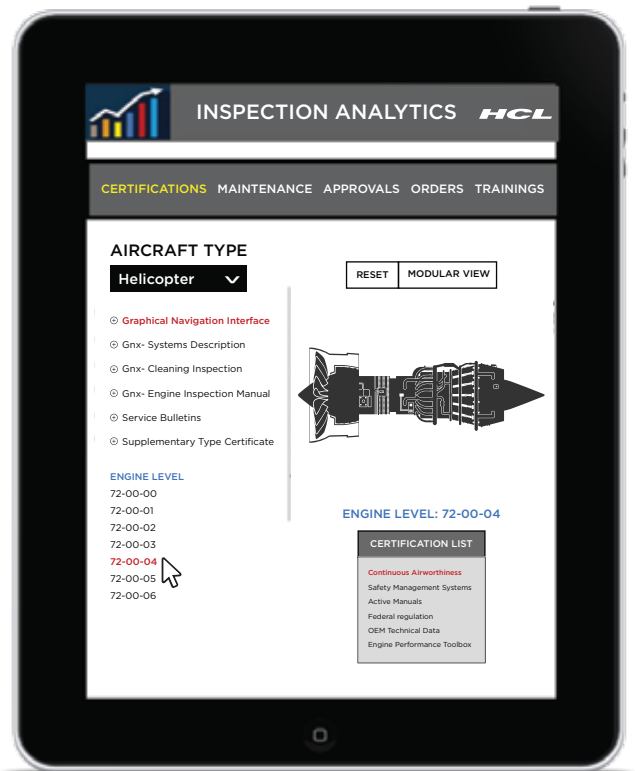


PARTS ORDER
CREATION



EMBEDDED
TRAINING

SOLUTION



FEATURES AND BENEFITS



REDUCED TIME TO
SEARCH AND FIND
REQUIRED
DOCUMENTS



IMPROVED
EFFICIENCY FOR
TECHNICIANS AND
INSPECTION
OFFICERS



EASY TO REVISE
AND UPDATE
CONTENT



ELIMINATION OF ERRORS
SUCH AS VERSION
CONTROL, EXPIRED
CERTIFICATIONS



3D GRAPHICS WITH
1 TOUCH DRILL DOWN
APPROACH



USER FRIENDLY, NON
LINEAR, INTELLIGENT
NAVIGATION



FAA Form 8130,
MILSPEC, S1000D, ATA
ISPEC 2200
SPECIFICATION
SUPPORTED



REAL TIME
FILTERING
OF INFORMATION

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