



## Delivering excellence in electronics

### We promise:

- Quality
- Competitive pricing
- Strong electronic expertise
- Delivery on time, every time

### We provide:

- Contract electronics manufacturing
- **3 year workmanship warranty as standard**
- Any volume
- 200 + worldwide component suppliers
- All major QA approvals



Founded in 1989 and based in Manchester UK, ACL is an award winning manufacturer of complete electrical and electronic products, printed circuit boards and sub-assemblies.

Centrally located with good communication links - 10-15 mins to Manchester Airport, mainline rail, M6/M62.

Free tooling and setup when you switch to us.

Competitive pricing, even when measured against overseas manufacture.





## ACL has been delivering excellence in electronics for 33 years

Operating from purpose-built 15,000 sq ft premises, we are a multi-million pound turnover enterprise that has enjoyed consistent growth due to our commitment to customer care and quality of service.

Our primary focus is on materials planning, quality control, and on-time deliveries.

Our bespoke, internally written MRP, QA and documentation management software provides total control of all processes from procurement through to production and delivery.

Peace of mind is assured by our robust insurance cover and our business continuity plan.

Our commitment to quality is demonstrated by our extensive range of audited quality approvals.

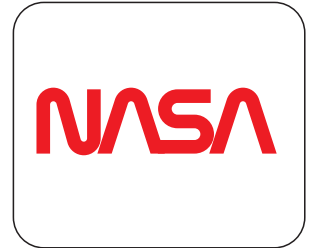
Our software is directly linked to all major suppliers; live pricing, obsolescence data, availability and lead-times.

See more





Automotive • Aerospace • Telecoms  
Financial • Medical • Telematics  
Rail • Oil & Gas • Sub-Sea & Marine • Safety Critical  
*and more...*





## Our Team

ACL has 30+ employees, of which 85% are multi-skilled and flexible production staff.

Three Directors oversee operations and are client facing.

We are committed to ongoing training. Our in-house IPC qualified trainers ensure each team member is IPC certified, multi-skilled and fully up-to-date with the latest industry standards and developments.

Our company's ethos of efficiency, transparency and excellence is embedded throughout the organisation.

Our overriding aim is to build and nurture long-term, stable partnerships with all our clients.

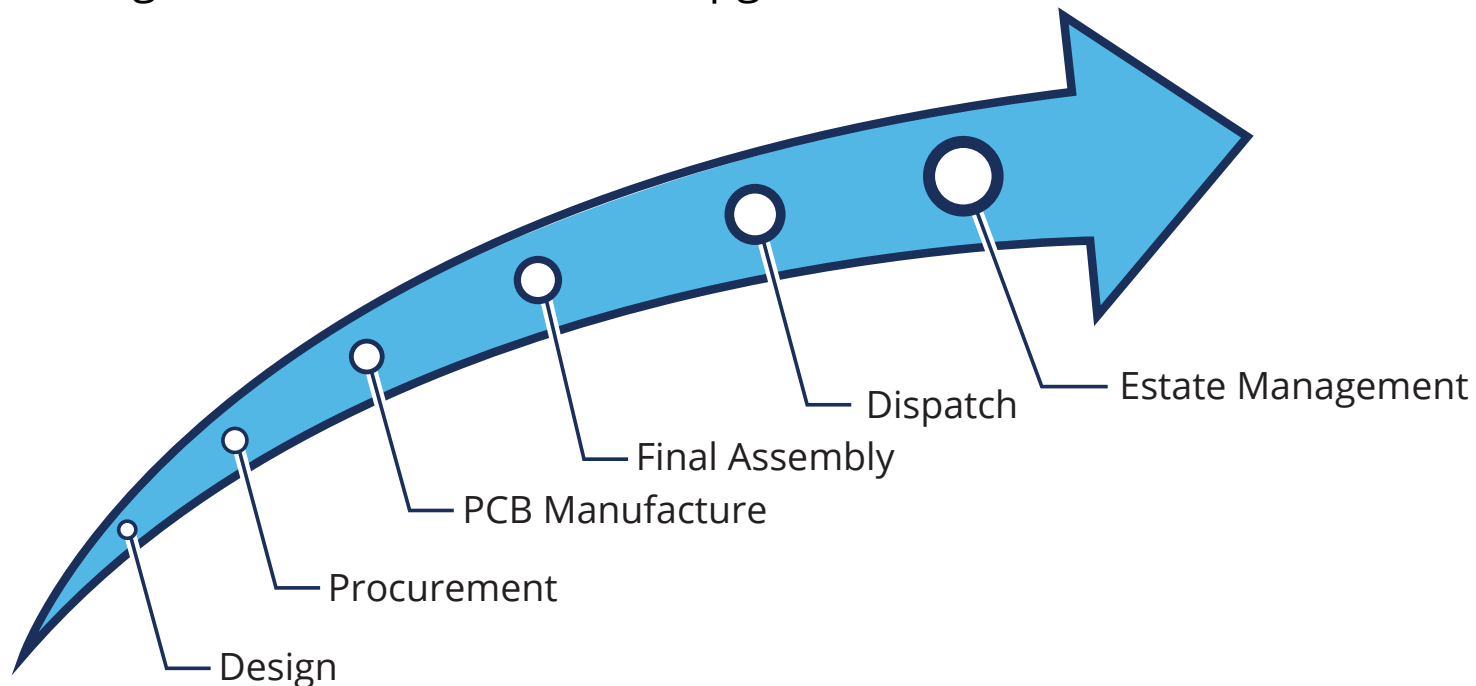


## Value Chain

ACL's full end-to-end service covers all aspects of product manufacture; design, electronic sub-assemblies, PCBA, box build, product testing, distribution on behalf of clients and after-sales estate management.

We support all industries from Space to Subsea, along with Safety Critical Products for all industries.

Our extensive after-sales service encompasses repair, re-work and refurbishment of any product, including firmware and hardware upgrades.





# Quality Approvals

ISO9001:2015 Registered

ATEX 2014/34/EU Quality Notification - Product for use in Hazardous Areas

IPC-A-610 Class 3 - Workmanship Standard (Acceptability of Electronic Assemblies. Certified in house trainers)

Thattham TQA - Motor Insurance Research Centre

UL Listed - Products compliant to the American Underwriter Laboratories Standard

FM - US Approval for products in Hazardous Areas

FDA Registered - Quality Management Standards for Medical Devices

CSA - Products compliant to the Canadian Standards Agency

Oracle Java Certified Programmers

We also manufacture products in accordance with the following standards:

ISO 13 485 - Quality Management Standards for Medical Devices

AS9 100 - International Aerospace Quality Standard

ISO TS 13949 - International Automotive Standard

VDA - German Automotive Standard

## Manufacture & Design Approvals

Philips Lighting - Approved Designer & Manufacturer

Osram - Approved Designer & Manufacturer

Cinterion Wireless Modules - Approved Designer & Manufacturer

Microchip - Authorised Design Partner





## What our customers say about us

- “ I remain so wonderfully impressed by the solid working relationship that has developed between our companies and how nicely proactive and responsive you all are for us. ”
- “ After moving our printer manufacture to ACL, the quality level of the finished product improved immeasurably. A very professional outfit, which will go the extra mile. ”
- “ We sought a company who could offer a full service from initial component procurement through to assembly and selected ACL. They've grown to become one of our prime suppliers, constantly striving to improve on quality of product and service. ”
- “ ACL has enabled us to significantly streamline our business and focus on our core competencies. Our sophisticated product is shipped directly from ACL to be fitted throughout Europe and on the production lines of some of the most prestigious automotive marques in the world. ”
- “ ACL are a first class supplier, a good company to deal with and all of the staff seem really interested in the product they manufacture for us. ”
- “ ACL's assemblies are magnificent and we're delighted with the quality produced in a quick period. ”

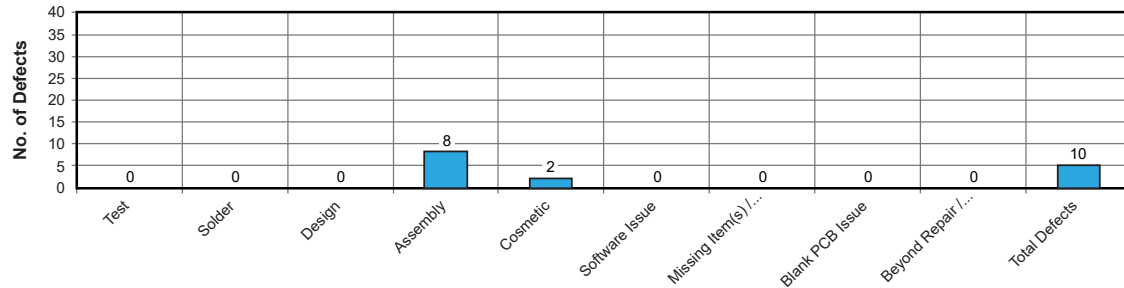
[Click here to view further testimonials](#)



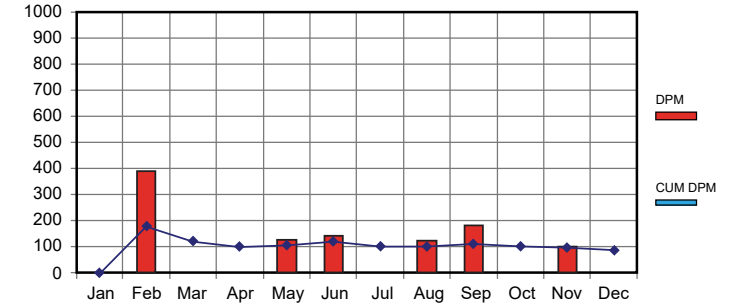


# Customer Non-Conformance Reports Calendar Year 2022

Manufacturing Defects - Pareto Analysis



Manufacturing Defects in Parts per Million



Products / PCB's Produced	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
Monthly	12522	10307	9847	7417	7739	14704	8319	8297	5630	7570	11003	7969	111324
Cumulative	12522	22829	32676	40093	47832	62536	70855	79152	84782	92352	103355	111324	111324
Manufacturing Defects	0	4	0	0	1	2	0	1	1	0	1	0	10
Cumulative Defects	0	4	4	4	5	7	7	8	9	9	10	10	10
Defects PPM	0	388	0	0	129	136	0	121	178	0	91	0	0
Cumulative Defects PPM	0	175	122	100	105	112	99	101	106	97	97	90	90

Defect Category	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
Test	0	0	0	0	0	0	0	0	0	0	0	0	0
Solder	0	0	0	0	0	0	0	0	0	0	0	0	0
Design	0	0	0	0	0	0	0	0	0	0	0	0	0
Assembly	0	0	0	0	1	2	0	1	1	0	1	0	8
Cosmetic	0	0	0	0	0	0	0	0	0	0	0	0	2
Software Issue	0	0	0	0	0	0	0	0	0	0	0	0	0
Missing Item(s) / Shortage	0	0	0	0	0	0	0	0	0	0	0	0	0
Blank PCB Issue	0	0	0	0	0	0	0	0	0	0	0	0	0
Beyond Repair / Scrapped	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Defects	0	4	0	0	1	2	0	1	1	0	1	0	10
Component Issue	0	0	0	0	0	0	0	0	0	0	0	0	0
Not ACL / No Fault Found	0	0	0	0	0	0	0	0	0	0	0	0	0

Components Placed	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
Components	411,388	283,828	426,281	240,155	471,681	346,024	383,948	353,825	382,701	421,937	582,789	250,500	4,555,007
Cumulative Components	411,388	695,166	1,121,447	1,361,602	1,833,283	2,179,307	2,563,255	2,917,080	3,299,781	3,721,718	4,304,507	4,555,007	4,555,007
Defects PPM	0.0	14.1	0.0	0.0	2.1	5.8	0.0	2.8	2.6	0.0	1.7	0.0	2.2
Cumulative Defects PPM	0.0	5.8	3.6	2.9	2.7	3.2	2.7	2.7	2.7	2.4	2.3	2.2	2.2

**2.2 Parts Per Million Defects in 2022**  
**10 defects in 4.5 Million parts placed**

(Does not include Part Only BOMs and Part only / Partial Parts del notes)

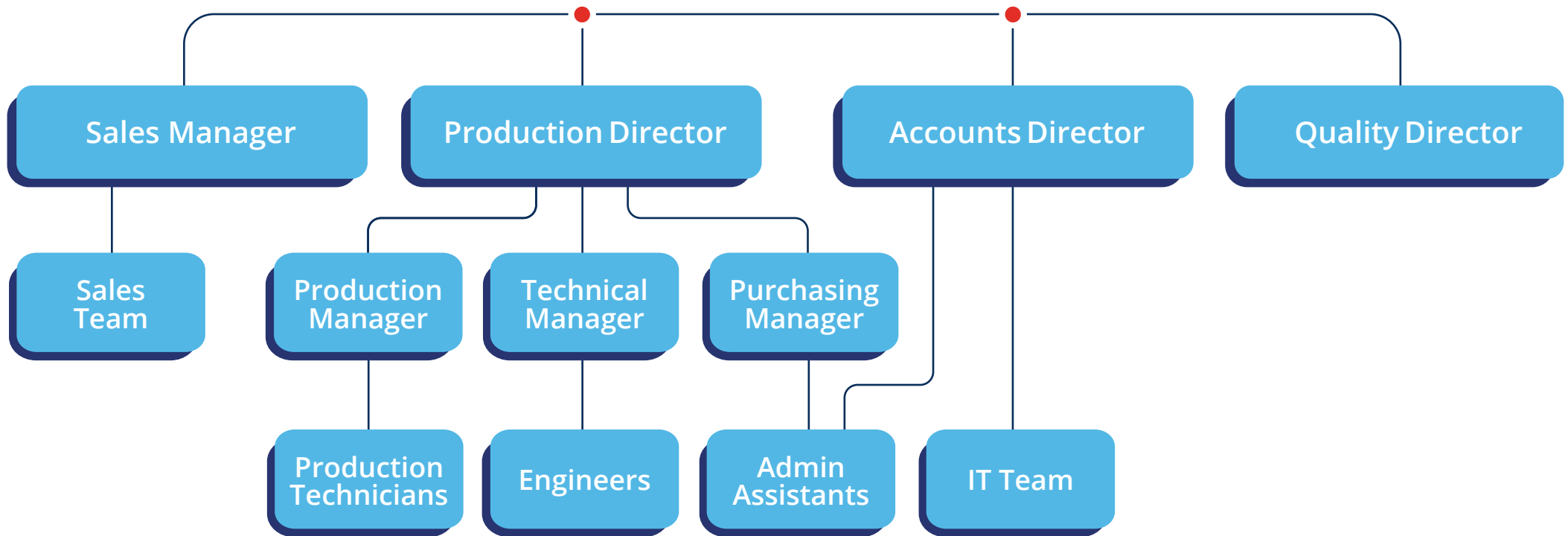


## Why ACL?

- Unequalled quality
- Reliability
- Flexibility
- Component level traceability
- Dedicated account management
- Long-term partnership focus
- Financial stability
- Quotations in days, not weeks
- UK based
- Electronic engineering expertise
- Complete value chain, including obsolescence parts management
- Worldwide supply chain means ACL can source materials where others may fail

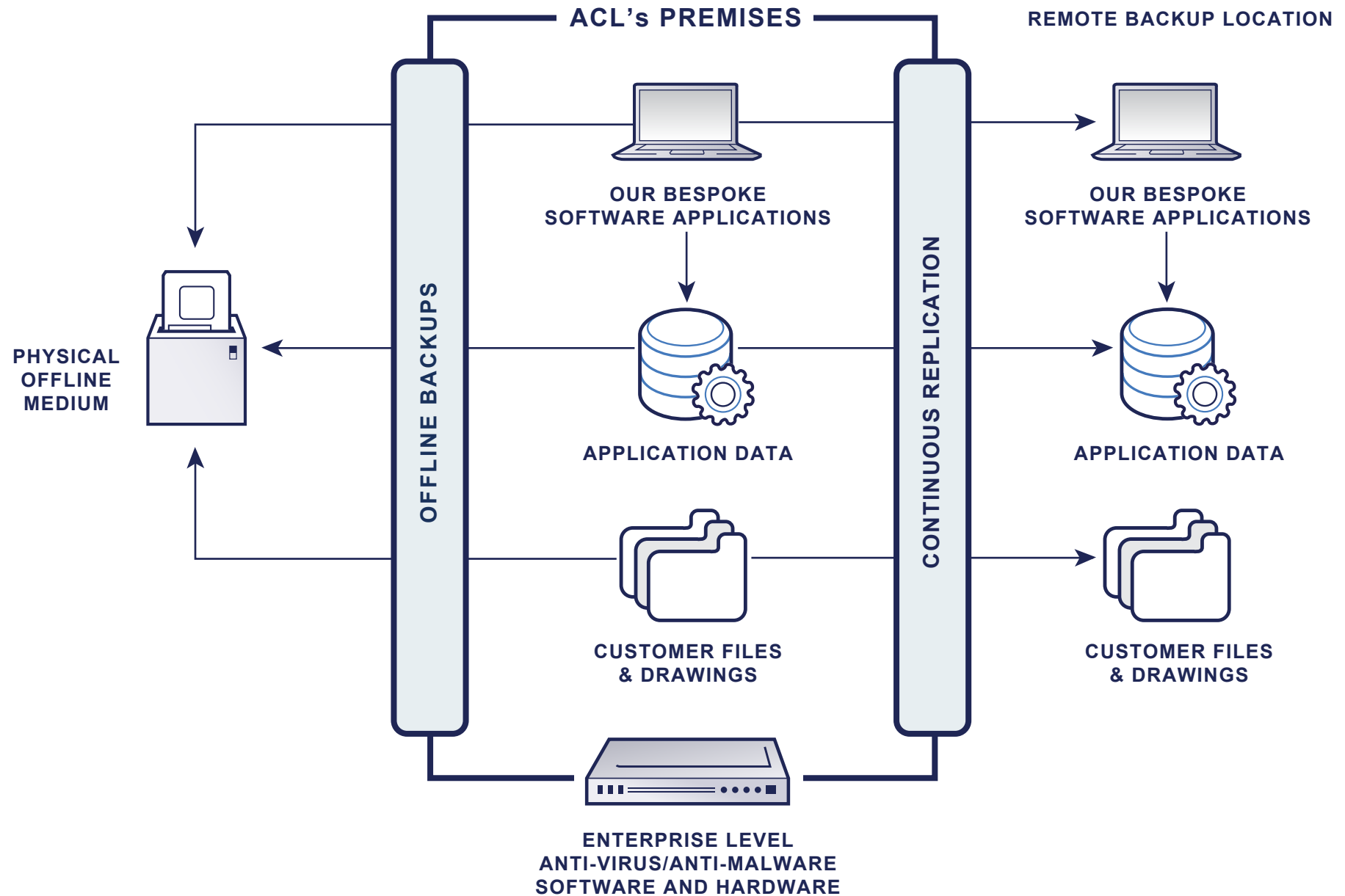


## ACL'S TEAM STRUCTURE





## DATA INTEGRITY: ACL's SYSTEMS ARCHITECTURE





## YouTube Videos



Assembly Contracts Virtual Tour



Surface Mount Technology



Electronic Product Manufacture



Antistatic packing



[www.acl.co.uk](http://www.acl.co.uk)