

Compliance and
global market access
for the appliance industry
in a smart world



Empowering Trust™

Testing and certification services

UL supports the safety, security and energy efficiency of household and commercial appliances for global market access.

With 125 years of business intelligence and a deep understanding of the regulatory landscape, we have helped thousands of manufacturers make informed decisions to optimize the safety, security, efficiency and performance of their products. In that time, we have earned worldwide recognition for the electrical and fire safety of electrical appliances.

We provide independent, comprehensive testing (with a strong focus on Europe) at more than 20 state-of-the-art laboratories for household, professional and commercial appliances of all sizes and purposes – from cooking and baking to cooling and freezing, and from washing and drying to heating and steam extraction.

Working closely with key industry stakeholders, we've helped to develop and update standards for emerging technologies worldwide. When preparing to launch your next product platform, consider UL to help meet your goals.



Get further, faster with UL

Reach global markets faster.

As a global compliance expert, we can help you streamline your testing and certification schedule and get access to European, North American and other markets, from one local testing laboratory.

Reduce time-to-market and costs.

Achieve cost and time savings by collaborating with a single service provider for multiple certifications. Our broad portfolio of services enables us to offer gas-fired and electrical safety testing, food equipment sanitation, international certification, EMC assessment and energy certifications via a single product submittal.

Get your innovations ready for connected markets.

Meet regulatory and industry requirements for wireless performance, connectivity and cybersecurity through independent testing and certification. We offer comprehensive product development support (including engineering services, prototype reviews and reliability testing) to help you bring new products to market quickly.

Get specialized training and insights.

Benefit from a wide range of online and onsite training, plus customized advisory services specifically developed for your engineers, product developers and compliance professionals.

Use one trusted contact for all your business needs.

We offer support every step of the way – including prototyping, sourcing, risk analysis, quality assurance, regulatory compliance reviews, energy efficiency testing and environmental certifications.



Certification for Europe, North America and other markets from one regional testing laboratory.



Electrical safety



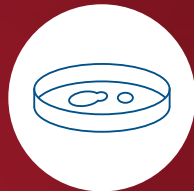
EMC/RED



Energy efficiency



Performance



Sanitation



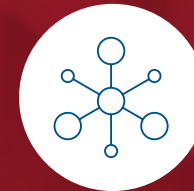
Gas safety



Cybersecurity



Connectivity



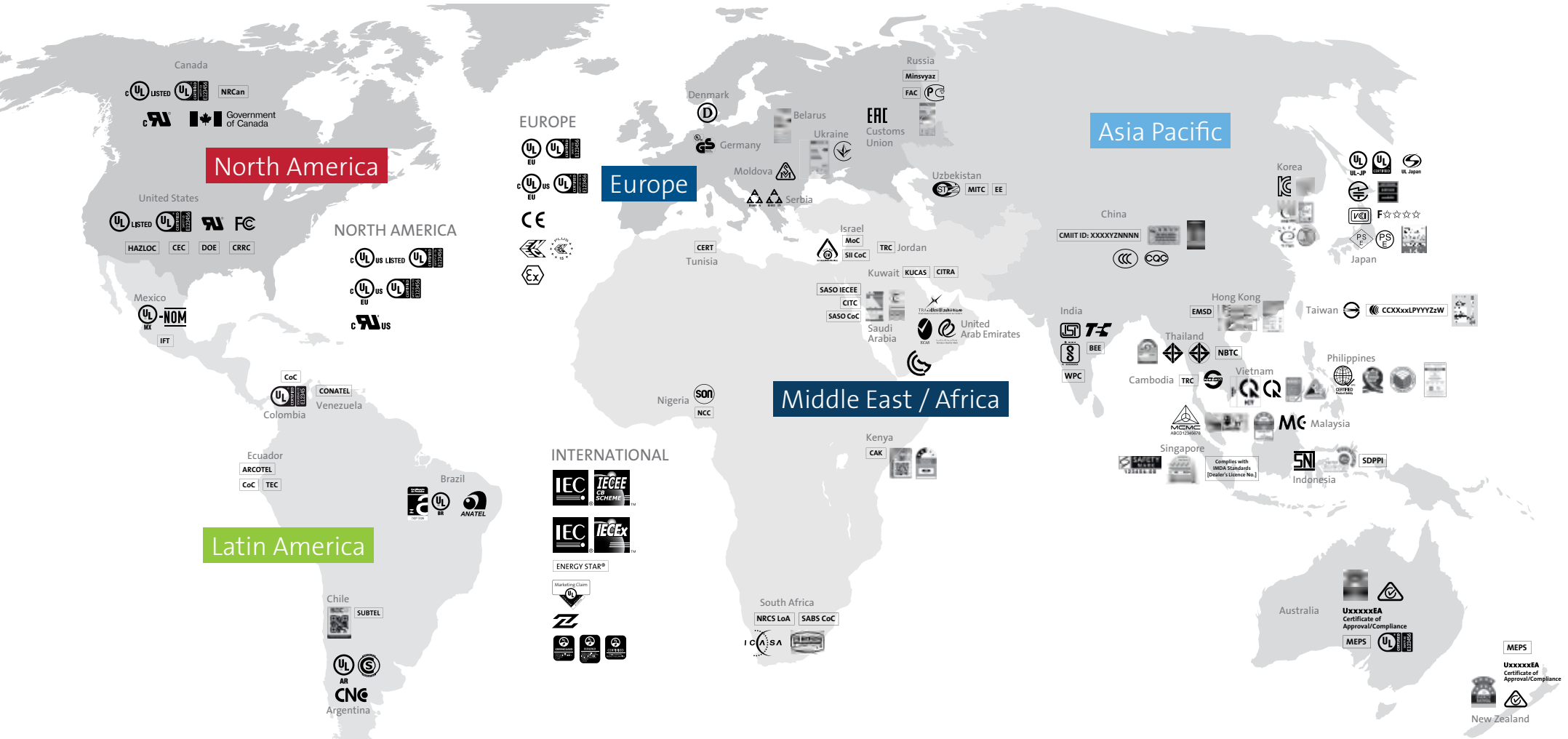
Databases



Advisory services



Supporting product launches worldwide



Access global markets faster with integrated solutions for safety and energy efficiency, EMC and wireless approvals.

- We facilitate faster global market access through well proven global programs.
- We offer bundled services (including advisory, testing and certification) for all your target markets.

Work with the No.1 issuer of CB certificates.

- We are a leading member of the IECCEB Scheme and an active driver in international committees of standards harmonization.
- We operate four National Certification Bodies (NCBs) and over 50 Certification Body Testing Laboratories (CBTLs) around the globe.
- We provide local testing services and a single access point for international certifications. Use our recognized CB Test Reports to obtain CB Certificates in CB Scheme member countries and many other non-member countries.

Getting ready for European markets



CE marking

Placing the CE marking on a product demonstrates that the product complies with all applicable EU directives and regulations. Working with an independent third party like UL can accelerate your CE marking process, reinforce and expand your laboratory's testing capacity and reliability, and ensure your products maintain compliance with ever-changing standards.

We offer flexible, customized CE marking services to help you fulfill the Declarations of Conformity (DoC) and Technical Documentation Files (TDF). As a notified body with laboratories and CE marking experts in many EEA countries, UL has the capability to test your household or commercial appliances to a variety of directives, including:

- Low Voltage Directive 2006/95/EC (LVD) – for appliances under scope of EN60335
- Gas Appliance Regulation 2016/426/EU (GAR)
- Energy Labelling – Regulation (EU) 2017/1369
- Ecodesign Requirements – Directive 2009/125/EC
- EMC Directive 2004/108/EC
- Radio Equipment Directive 2014/53/EU (RED)
- RoHS - Directive 2011/65/EU

Supporting your CE marking process

- Navigate risk assessment as required by new directives
- Identify applicable directives and harmonized standards
- Compile the Technical Documentation File (TDF) for CE marking
- Evaluate products in accordance with the applicable harmonized standards
- Provide guidance on application of directives, including the steps leading up to affixing the CE marking
- Identify whether a notified body is required for compliance
- Conduct product tests and conformity assessments
- Perform a quality system registration in cases where it is required or desired by the manufacturer
- Provide a Type Examination Certificate (TEC) service to give your CE mark additional value



UL GS Mark

The UL GS Mark is a voluntary mark. As a notified GS body, we provide proof of the examined type's compliance with the requirements of the Product Safety Act (Produktsicherheitsgesetz) both with regard to health and safety and also other legal regulations and technical specifications.

The UL GS Mark is not a comprehensive seal of quality designed to indicate the lifespan or performance of a product, but – unlike the CE marking – certifies that the product has been evaluated for safety by a neutral third party.



ENEC mark

The European Norms Electrical Certification (ENEC) is the European quality mark for electrical products that demonstrates compliance with European standards (EN). Testing takes place in an independent test laboratory recognized by ENEC. ENEC means safety in Europe, and all signatories to the ENEC mark program actively demonstrate their commitment to the highest safety standards.

As a ENEC approved testing laboratory (ENEC TLs), we help you with all the ENEC requirements, including ongoing monitoring, marketplace-based monitoring and annual factory inspection. Procedures for the ENEC mark follow an ISO Type 5 certification scheme.

Global safety services



Electrical safety

As a leading expert in safety science, UL can provide end-to-end electrical safety solutions – from testing, certification and inspection to market entry advisory for almost every global market and appliance (including operational and protective controls). Businesses, consumers and regulatory authorities around the world know and trust UL's safety certification. For North America, only UL can issue the UL Safety Mark, which is recognized and often required by many industry and retail markets. Services include:

- Testing and certification to all relevant IEC, EN, UL, CAN/ULC and some other national standards
- Global Market Access (GMA) solutions
- Advisory
- Analytics and intelligence
- Auditing
- Digital applications
- Inspections
- Learning and development
- Verification

For more information: [Services.UL.com](https://www.Services.UL.com)

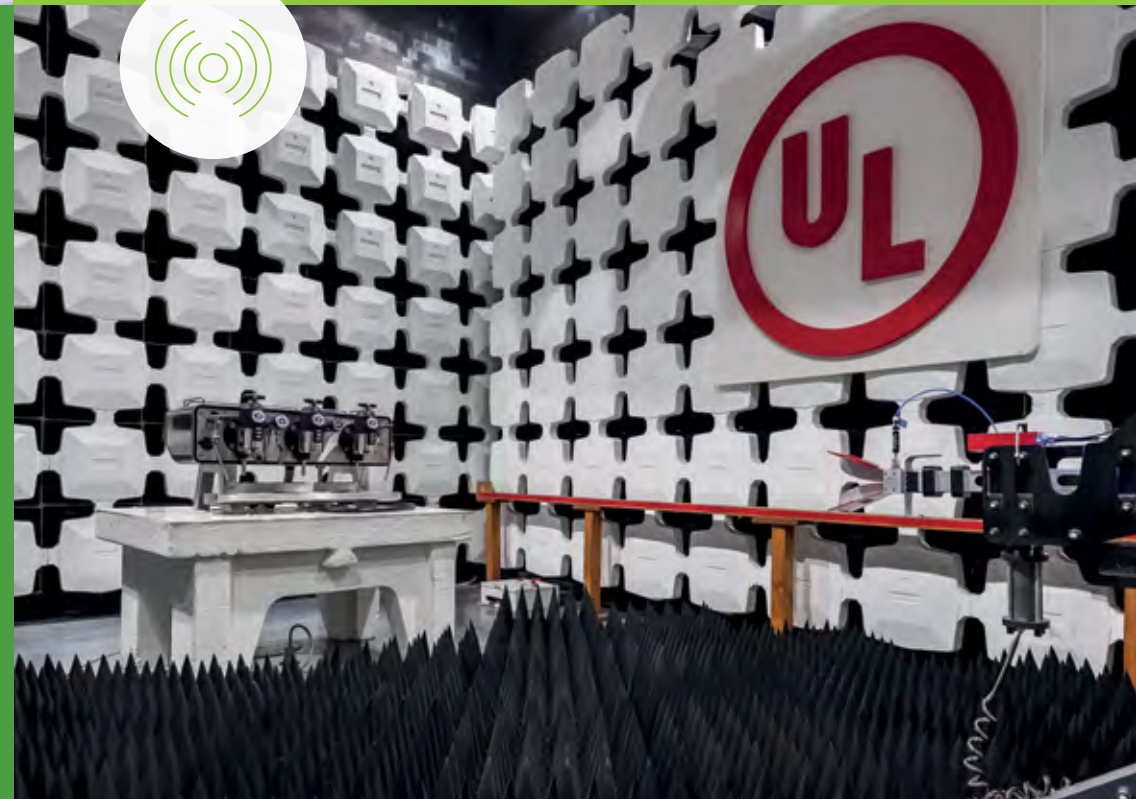
EMC/RED

Our European network of dedicated test facilities for electromagnetic compatibility (EMC) provides comprehensive and cost-effective assessments of electronically controlled appliances and other electronic devices that must comply with EMC regulations.

Our state-of-the-art facilities enable us to offer an efficient EMC testing service to meet your time-to-market requirements. We can customize the EMC testing process and documentation to your specific requirements by using automated software that improves process efficiency, analyzes results and reduces test cycles and costs.

Our EMC laboratories are accredited or recognized by numerous regulatory agencies, including:

- Notified Body for EMC (2014/30/EU) and RED (2014/53/EU) Directives for Europe
- Telecommunication Certification Body (TCB) for the U.S. FCC
- Foreign Certification Body (FCB) for Canada
- Conformity Assessment Body (CAB) – Notified Body for the European Union





Gas safety (GAR)

In 2018, the EU's Gas Appliance Directive (GAD) became the Gas Appliance Regulation (GAR). As a manufacturer or importer, you must prove and declare conformity with the GAR requirements by means of an EC-type examination certificate and a valid product monitoring contract, for each case within the framework of the technical construction file.

Our offer for gas cooking appliances includes:

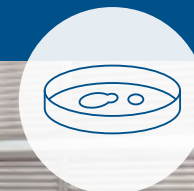
- EN 30 series of standards for household gas cooking appliances
- EN 203 series of standards for gas heated catering equipment (foodservice equipment)
- EN 298 for automatic burner control systems and gaseous or liquid fuels appliances

Sanitation services for food equipment

Commercial appliances, foodservice and catering equipment intended for the North American market must be evaluated for its sanitary design, construction and performance.

UL is an ANSI accredited certification body for many NSF standards and can support you with laboratories in Europe and in the U.S. to evaluate products like:

- Cooking and heating appliances
- Commercial refrigerators and freezers
- Dispensing freezers (ice cream and gelato machines)
- Food and beverage dispensers
- Automatic ice-making equipment
- Bulk milk dispensers
- Ware-washing equipment (dishwashers)
- Commercial powered food preparation equipment, such as mixers and grinders
- General foodservice equipment, such as tables, pans, hoods, and utensils



Safely bring your products into smart homes

Known as the Internet of Things (IoT), a new generation of network-connected products has raised consumer expectations – in terms of both a product's capability and functionality.

To remain competitive, manufacturers may need to integrate complex new technologies into their appliance designs. At the same time, they must meet both performance expectations and compliance standards and minimize potential cybersecurity risks.

Through third-party testing for connectivity and cybersecurity, your customers and consumers can be confident that your product has undergone rigorous evaluation for security flaws and performs as advertised in today's connected ecosystem.



Cybersecurity



Solutions to strengthen security by design

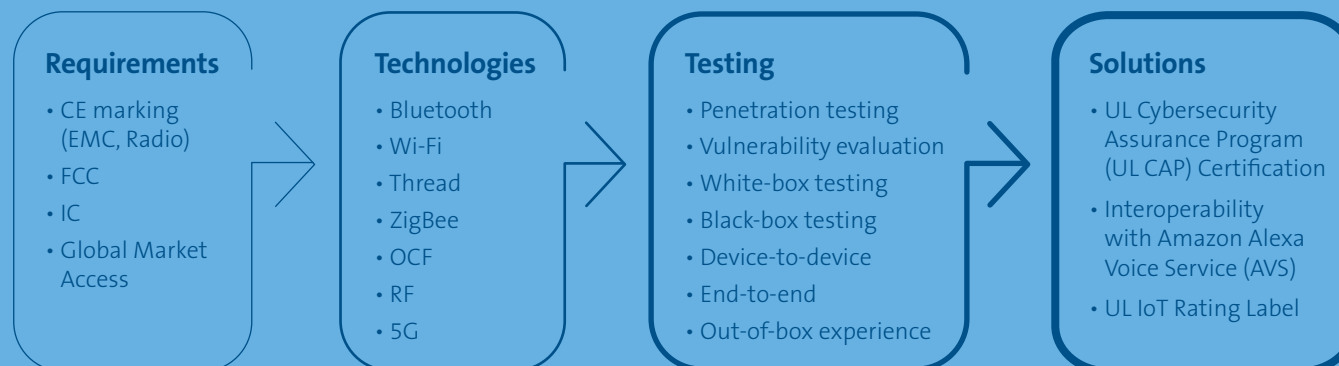
The UL Cybersecurity Assurance Program (UL CAP) uses the UL 2900-1 Standard for appliances, by applying rigorous criteria to assess software vulnerabilities and security controls. CAP also identifies known malware, minimizes exploitation and promotes greater security awareness.

We provide a full-service program to make products ready to connect securely:

- Advisory and training in security readiness for product design and when sourcing third-party components
- Evaluation and risk assessment of vendor processes for developing and maintaining appliances, HVAC and lighting products and systems
- Security testing based on IEC 62443, ANSI/CAN/UL 2900 and any applicable cybersecurity standards or customer-defined requirements
- Certification based on applicable cybersecurity standards in the appliances domain

Through CAP, manufacturers can design with security in mind – improving their competitive differentiation in the marketplace while mitigating the risk of potential cyberattacks.

Driving connectivity and cybersecurity in the IoT marketplace



Connectivity

Testing of connected and wireless technologies

UL is an accredited test laboratory for many wireless and IoT standards organizations. We can conduct individual IoT certification testing or create a test plan for all use cases in real-world situations – helping you manage the risks and complex requirements of connected technologies.

Our facilities offer comprehensive testing; certification and advisory services for software performance; connectivity of wireless products; and interoperability and usability to help ensure products connect to other devices and function in the way consumers expect.

By using UL's expertise in wireless technologies to identify problems early, you can reduce product returns, improve customer satisfaction, drive increased sales, build consumer confidence, and reinforce your brand's trusted reputation.

Testing for both interoperability and compliance can save you significant time and costs.

Energy efficiency and performance testing

Get ready for a more energy efficient global market



Improving energy efficiency, developing clean and sustainable energy and protecting the environment are important considerations that all manufacturers must take into account if they are to remain attractive to today's socially and environmentally conscious consumers.

UL is a preferred energy efficiency testing and certification partner to government authorities, industry associations, and manufacturers. With 125 years of experience serving the appliance industry, our laboratory team can help you understand the ever changing regulations, manage the growing requirements for product testing, and meet the increasingly demanding test conditions. We'll also assist you in testing and verifying product compliance – so you can make product adjustments in time.

We have the accreditations, expertise and state-of-the-art testing laboratories in Europe to help you meet all your global energy efficiency requirements, including:

- North America: ENERGY STAR®
- Africa/Middle East: SASO, Gulf Conformity Mark, Egypt
- Europe: Eco Label, UL GS Mark

Add credibility to your claims with the UL Verified Mark.

In today's highly connected, transparent marketplace, verification of marketing claims plays a crucial role in the decision-making process of buyers and consumers. We help manufacturers get an advantage over the competition by bringing credibility to sellers' claims. Our science-based, customized process verifies the accuracy of marketing claims related to the performance, functionality or features of products, facilities, processes and systems.

Verify.UL.com

Meet industry and consumer expectations through performance testing



Our performance testing services offer a complete portfolio of functional and engineering evaluations of materials, components and finished products. Our testing processes are designed to provide detailed performance data and actionable business intelligence.

Our engineering team's extensive experience also allows us to tailor our testing services to your needs, test to your internal protocols, or develop individual test programs for verifying specific requirements.

All tests are performed under controlled temperature, humidity, air circulation and water supply conditions – managed by a recording system that ensures that all standard parameters are met. We also regularly take part in round-robin tests, aimed to harmonize the methodology of different laboratories.



Advisory services



Gain true insights to make your product development faster and more efficient

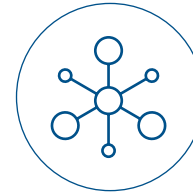
In today's global economy, organizations can gain a true competitive advantage by accelerating product development; effectively managing safety, compliance and regulatory risks, and accessing new markets.

Our advisory services deliver end-to-end solutions that empower customers to identify new opportunities, fully leverage their core competencies and achieve their business objectives.

Whether it's technical assistance to troubleshoot product performance issues, or guidance on emerging industry standards, customers leverage UL's expertise for the knowledge and resources in order to:

- Reduce development time and increase speed to market
- Mitigate compliance challenges
- Improve product safety and quality
- Deliver safer products to global markets with fewer resources
- Reduce costs and anticipate risk of rework
- Increase supply chain transparency and sustainability.

Databases



My.UL.com

Your UL project management platform

myUL™ is a secure source for UL project files, product information, documents and services needed to make informed, data-driven decisions. With myUL™ you can:

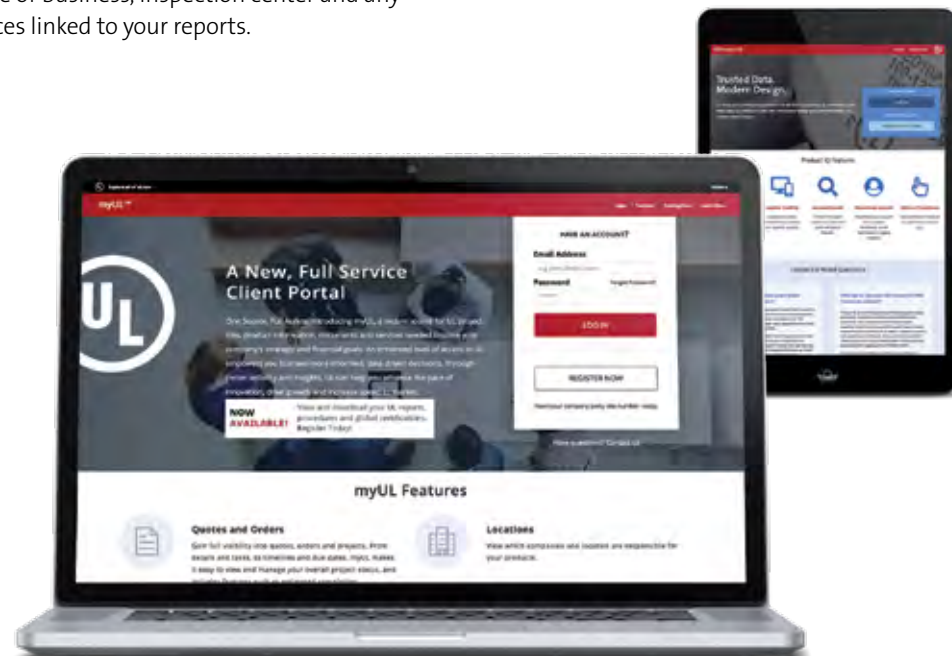
- Gain full visibility into quotes, orders and projects.
- See when UL received product samples and when they have been returned, picked up, destroyed or archived.
- View UL reports, procedures and global certifications.
- Identify the companies responsible for your products.
- View the date, factory representative, type of product inspected, type of business, inspection center and any variation notices linked to your reports.

ProductiQ.UL.com

Promote or locate UL certified products

UL Product iQ™ certifications platform (formerly the UL Online Certifications Directory) contains UL Listed, Classified or Recognized products and components.

This state-of-the-art search engine creates premium value for users by helping them both to identify safer, more compliant products and to promote their UL certified products to potential buyers. Product iQ™ is considered an invaluable resource by thousands of regulatory authorities, building owners and insurance companies.



EU sales enquiry: **EUSalesSupport.HALC@ul.com**

EU customer service: **AppliancesLighting.EU@ul.com**

[UL.com/Appliances](https://www.ul.com/Appliances)

