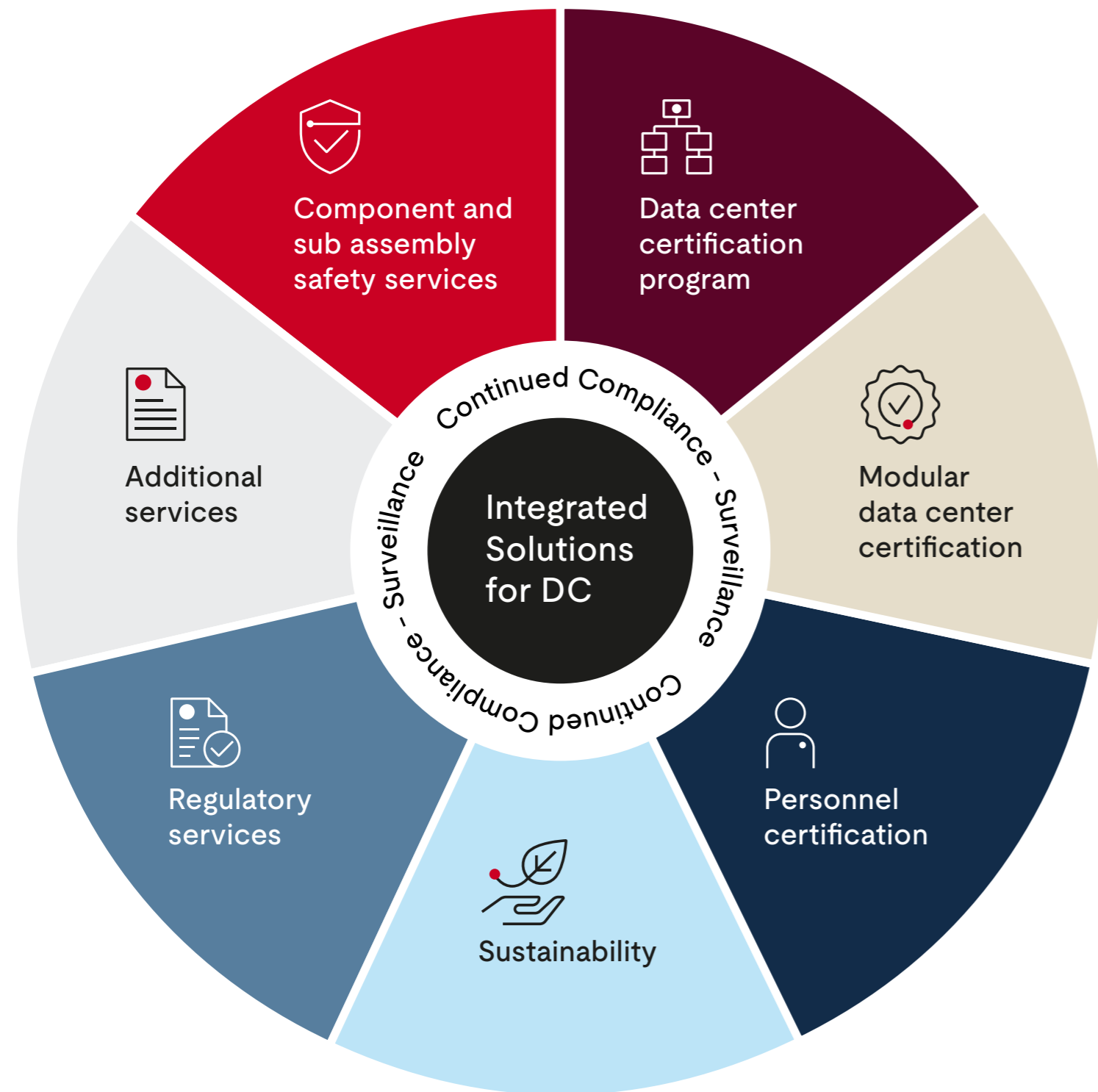


# Integrated Data Center Services

## Continued compliance – surveillance



### Component and sub assembly safety services

- IT racks and IT installed equipment (servers, PDU)
  - UL 62368-1, Audio/Video, Information and Communication Technology Equipment - Part 1: Safety Requirements
  - UL 2416, Audio/Video, Information and Communication Technology Equipment Cabinet, Enclosure and Rack Systems
- HVAC systems
  - UL 484, Standard for Room Air Conditioners
  - UL 1995, Heating and Cooling Equipment
  - IEC 60335-2-40
- Immersion cooling systems
  - UL 2416
  - UL 62368-1
- Power panelboard and switchboard
  - UL 67, Standard for Panelboards
  - UL 891, Standard for Switchboards
  - IEC 61439
- Battery/UPS
  - UL 1778, Uninterruptible Power Systems
  - UL 1973, ANSI/CAN/UL Batteries for Use in Stationary and Motive Auxiliary Power Applications
  - UL 9540, Energy Storage Systems and Equipment
  - IEC 62040-3
- Fire detection and suppression systems
  - UL 864, Standard for Control Units and Accessories for Fire Alarm Systems
  - UL 521, Standard for Heat Detectors for Fire Protective Signaling Systems
  - UL 268, Standard for Smoke Detectors for Fire Alarm Signaling Systems
  - UL 464, Audible Signaling Devices for Fire Alarm and Signaling Systems, Including Accessories; or UL 1480, Speakers for Fire Alarm and Signaling Systems, Including Accessories
  - UL 1971, Standard for Signaling Devices for the Hearing Impaired
  - UL 38, Standard for Manual Signaling Boxes for Fire Alarm Systems
  - UL 2075, Standard for Gas and Vapor Detectors and Sensors
  - EN 54-2 Control and Indicating Equipment
  - EN 54-3 Fire Alarm Devices – Sounders
  - EN 54-5 Heat Detectors – Point Detectors
  - EN 54-7 Smoke Detectors – Point Detectors
  - EN 54-11 Manual Call Points
  - EN 54-20 Aspirating Smoke Detectors
  - EN 54-23 Visual Alarm Devices
  - NFPA 75 – Standard for the Fire Protection of Information Technology Equipment
  - ANSI/UL 154, CAN/ULC-S503, Carbon-Dioxide Fire Extinguishers; or ANSI/UL 2129, CAN/ULC-S566, Halocarbon Clean Agent Fire Extinguishers
  - NFPA 12 Carbon Dioxide Extinguishing Systems
  - UL 2166, Halocarbon Clean Agent Extinguishing System Units
  - UL 2127, Inert Gas Clean Agent Extinguishing System Units

### Data center certification program

- UL 3223, Outline of Investigation for Data Center Certification – Comprehensive facility-based certification requirements to increase end-user transparency, provider accountability and proper data center documentation in areas of mechanical, electrical, HVAC, telecom, commissioning, security and fire detection and suppression

### Modular data center certification

- UL 2755, Outline of Investigation for Modular Data Centers – Compliance path towards meeting requirements under Article 646 of NFPA 70 National Electric Code®

### Personnel certification

- Data Centers Integrator Qualification (DCIQ) Program – Qualification for IT equipment installers and their companies have a capability to ensure proper installation methods are practiced through qualification and meeting regularly scheduled audits

### Sustainability

- Energy Star® certification
- Healthy Buildings/SPIRE – smart building performance
- Zero waste – UL 2799, Environmental Claim Validation Procedure for Zero Waste to Landfill
- Product sustainability – ROHS, REACH, California Prop 65
- Renewable energy – equipment and reporting/accountability

### Regulatory services

- Code review and gap assessment to electrical, building and fire code requirements
- Field engineering services – UL Solutions Field Evaluation program

### Additional services

- Market access services/Global Compliance Management (GCM)