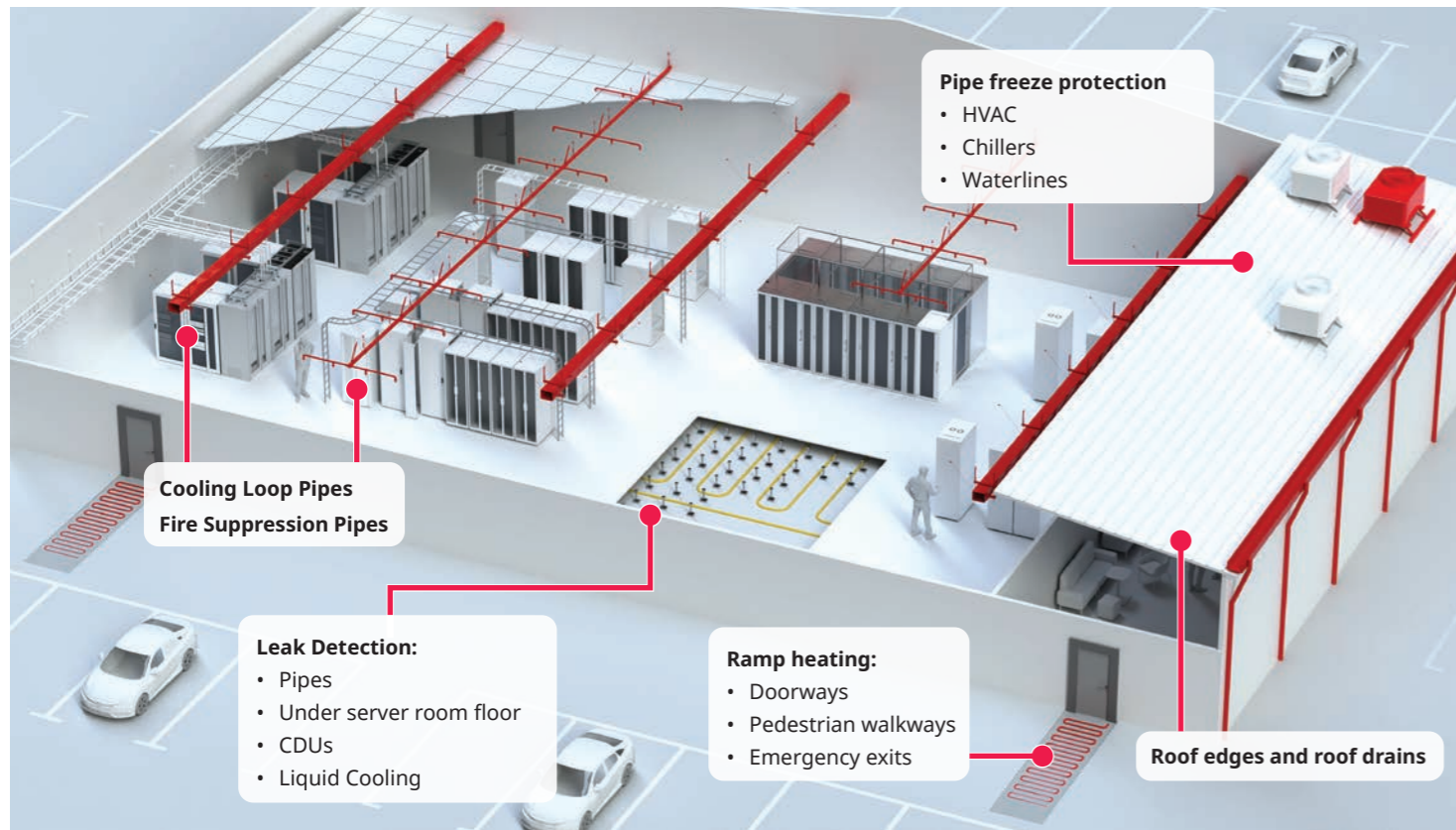


Data Center Leak Detection and Thermal Management. The invisible shield for unseen threats.



APPLICATIONS FOR DIGITAL INFRASTRUCTURE PROTECTION



Owners and Operators can maintain uptime by reducing thermal and fluid leak risk—when failure occurs in either the gray space, the facility or the white space. A full ecosystem of asset protection.

	Challenges	Solutions
	Risk Mitigation to Digital Infrastructure: It's essential to prevent freezing in HVAC, cooling loops and critical pipes.	<ul style="list-style-type: none"> Pipe freeze protection Continuous monitoring
	Safeguard Valuable Digital Infrastructure: Water and coolant leaks need to be detected and located accurately to prevent or minimize damage to servers or other IT equipment. Leaks can originate from pipes, fuel lines, roofs, HVAC equipment or other sources.	<ul style="list-style-type: none"> Leak detection Heat Trace White Space Gray Space System Assessments
	Optimizing Product Lifecycle: Our Lifecycle Services help extend the lifetime performance of your critical assets with solutions that are easy to order and execute. A team of 300+ field services personnel ensure operational efficiency and reliability.	<ul style="list-style-type: none"> Upgrades & Modernization Remote Services Adaptive Services Program
	Pipe Temperature Stability: Heat tracing maintains operational reliability and reduces emergency repair costs in regions with cold climates and icing.	<ul style="list-style-type: none"> Chiller Piping Generator Lines TES Tanks
	Snow and Ice Management: Snow and ice accumulation on roofs and gutters can cause blockages. This also makes it difficult to access for maintenance or repairs.	<ul style="list-style-type: none"> Roof de-icing Gutter de-icing

WHY CHOOSE RAYCHEM DATA CENTER SOLUTIONS



Time-Tested Quality	100+ Expert designers 15,000+ Certified installers	600,000 km (2B ft) installed = 15x around the globe
QUALITY We are the inventor of self-regulating heating technology. Our cables are designed & manufactured in USA since 1972. <ul style="list-style-type: none"> We offer complete systems 20+ year design life 10-year product warranty First low smoke zero halogen cable 	EXPERTISE We have a global network of technical experts with design, installation, optimization and operation knowledge. <ul style="list-style-type: none"> Design, calculation and modeling software 100+ expert designers 15,000+ trained installers Installed in iconic engineering landmarks 	RELIABILITY Our systems provide maximum performance with 600,000 km (2B ft) of cable installed in 100+ countries. <ul style="list-style-type: none"> Reduction of carbon footprint Reduction of energy, water, and landfill waste Lower installed cost Broad range of heating cable technologies

Highest **QUALITY** Products + **EXPERTISE** Optimal System Design & Installation = **RELIABLE** Protection, Performance & Energy Efficiency



Life Cycle Services Solutions

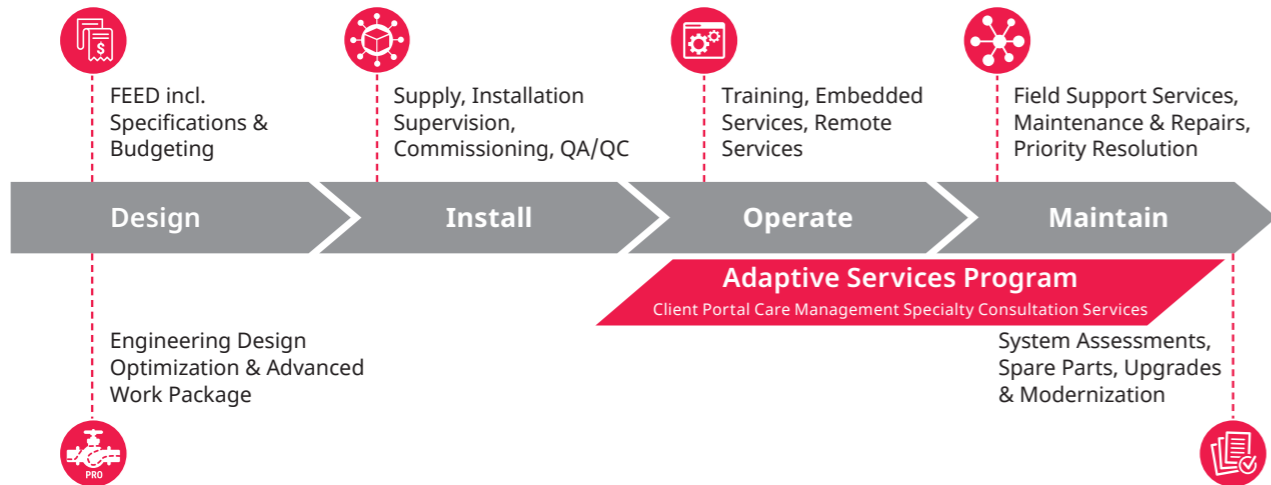
WHAT ARE LIFE CYCLE SERVICES (LCS) FOR DATA CENTERS?

Life Cycle Services begin after the system is handed over post-commissioning and focus on site Maintenance, Repairs, & Optimizations.

- Services are performed on-site or remotely by dedicated local experts.
- Services are supported with the latest digital tools for accurate & efficient recordkeeping.
- Services are standardized for ease of ordering and to ensure the scope of work is executed consistently, safely and efficiently



Scan QR code to watch the LCS video



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Raychem Tracer Pyrotenax Nuheat

Case Studies

The Shanghai World Financial Center, a mixed-use skyscraper, integrates TraceTek water leak detection systems for safety and efficiency. Chemelex' solution offers precise leak location, easy installation, and seamless building management system integration, ensuring continuous operation and protection.

	Location: Shanghai, China	Completion date: July 2008
	Applications: Raychem TraceTek Water Leak Detection System	Technology: Water Leak Detection sensing cables and monitoring solution
	Contract scope: Design system, supply components, installation by local partner	Read full case study:

The Raychem TraceTek system was installed in Asia's largest tier IV data center, featuring over 10 km of water and fuel leak detection cabling. The system's precise leak location capabilities and integration with building management systems ensure the protection of critical infrastructure and support energy-efficient operations.

	Location: Navi Mumbai, India	Completion date: 2019-2021
	Applications: Raychem TraceTek Water and Fuel Leak Detection System	Technology: Water and Fuel Leak Detection sensing cables and monitoring solution
	Contract scope: Design system, supply components, installation by local partner	Read full case study:

Raychem winter safety and leak detection systems were installed in one of North America's Tier 4 and 5 data centers to protect the data hall and server cabinets from potential leak damage and the cooling pipes on the roof from freezing. The Raychem leak detection system initiates immediate action to minimize damage and ensures that the data center's essential performance and operations continue running smoothly without disruption in the event of a leak. Raychem's XL-Trace freeze protection solutions effectively keep the chilled water systems (CHWS/R) operational throughout the year.

	Location: Tier 4 and 5 Data Centers in North America	Completion date: 2023-2024
	Applications: Leak Detection - Data Hall/Server Cabinet	Technology: Raychem XL-Trace Pipe Freeze Prevention
	Contract scope: Dedicated Project Manager & System Engineering	Read full case study:

Raychem winter safety and leak detection systems were installed in multiple data centers, part of a data center campus in the Netherlands. These systems protect critical equipment, prevent freezing, and detect leaks, ensuring reliable operation. Raychem's expert engineering services and site supervision support helped data center owners achieve optimal performance and peace of mind during installation, commissioning and operation.

	Location: Data center Campus, The Netherlands	Completion date: 2015-2020
	Applications: Raychem Pipe Freeze Protection, Gutter Heating, Leak Detection	Technology: Raychem XL-Trace and BTV Pipe Freeze Protection, GM-2X Guttermelt, TraceTek TT3000
	Contract scope: Design system, supply components, installation and commissioning by Chemelex	Product scope: 1.1 km TT3000 leak detection cable, pipe freeze protection and gutter heating on ACS-30 system