As the technology evolution continues to accelerate, increasingly more processing power is packed into rack-dense computing devices. This makes the challenge of data centre cooling more complex and critical. To help deal with this, Dell Professional Services (DPS) provides Data Centre Environment Solutions – services that include the assessment of an existing data centre, as well as the review of a new data centre, to determine if the appropriate cooling and power infrastructure has been allocated to support rack-dense computing.

Dell Data Centre Environment Solutions are designed to help customers adopt rack-dense solutions and maximise efficiencies by optimising the utilisation of the data centre environment. These advisory services are applicable across Dell's portfolio of enterprise products, as well as in a heterogeneous data centre environment. These solutions reflect Dell's world-class experience and involvement with some of the largest enterprise deployments for mission-critical environments.

- **Wide range of environments** – a data centre environment assessment can be conducted for data centres of varying sizes. Standard fixed scope offerings are applicable to data centres up to 1000 metres square
- **Easier implementation** – an assessment provides the basis for faster, easier implementation and integration of rack-dense computing
- **Reduced financial/operational risk** – Dell's services help protect mission critical investments by providing recommendations for the optimisation of a data centre environment
- **Comprehensive, objective assessment** – an assessment evaluates existing and future data centre plans for cooling and power in a detailed report that includes findings and recommendations
- **Solution deployment** – deployment of new infrastructure within the data centre to meet the requirements of rack dense computing
- **Appropriately designed UPS configuration** – a UPS needs assessment establishes the availability needs of business applications being processed by IT equipment, so that the appropriate topology is employed to ensure 24x7 availability, if required
- **Reduced risk of overheating failure** – unused rack space causes air re-circulation, which can result in equipment overheating, as well as significantly increased electricity costs and discomfort for data centre personnel
- **Dense server optimisation** – Rack dense computing interjects a new level of complexity into the data centre. In this era of computing, greater attention needs to be applied to power and thermal allocation. Dell's data centre assessment service provides recommendations for the appropriate data centre environment for optimal rack-dense server operation.
Dell Professional Services make recommendations for an optimised data centre environment through fixed price packages and services that have been tailored to your requirements. These include:

**HVAC/Cooling Analysis**
- Document HVAC systems
- Measure and analyse the existing data centre environment
- Determine row arrangement for hot aisle / cold aisle suitability
- Recommendations for chilled air based on requirements

**Power Analysis**
- Document power systems and equipment
- Measure and analyse existing power delivery to the target deployment area
- UPS type, location, size/VA voltage, existing load

**Remediation report**
- Summary of current state
- Recommendation for environment changes
- Identify anomalies in the data centre that impair optimal performance
- Go/No go assessment for technology deployment

Dell will work closely with your team to provide the most suitable recommendations for your data centre environment. Drawing on years of experience, Dell Professional Services consultants utilise proven methodology and project management expertise to provide timely, efficient and effective assessments. The consultants work with you to gain an understanding of your business objectives and IT strategies, then design plans that are flexible enough to adapt to current environments and structured to deliver desired results.

Dell Professional Services combines affordability with an in-depth understanding and expertise in implementing standards-based systems. Dell complements these strengths by providing a single point of accountability that makes it easy to obtain the service and results you need.

Following an assessment, Dell provides a summary analysis of the data centre environment, together with recommendations for tile placement, rack row configurations, server and storage allocation within the racks, cooling capacity as well as power allocation.

For further information, please contact your Dell Account Manager.

**Dell Services 360° approach**
Dell Professional Services are part of Dell's $4billion worldwide services business, which applies a 360° approach to lifecycle support to achieve scalable enterprise computing. Dell Professional Services are integrated with the other solutions in the Dell Services portfolio, which helps customers at every stage of the lifecycle from initial infrastructure consulting, through application testing to desktop value recovery and recycling.

For further information, please contact your Dell Account Manager.

Visit [www.euro.dell.com/services](http://www.euro.dell.com/services) for more information.