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# CTNDCl: Identifying the Challenges Towards a distributed Nano Data Center Infrastructure

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**Document Identifier: GI 201711**

**ABSTRACT**

*Authors: Team effort*

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SPWAL LMU, November 2018, Munich, Germany

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**SPWAL Research Project:** Green Computing  
**Title:**Identifying the Challenges Towards a distributed Nano Data Center Infrastructure  
**Progress Report II**

## KEYWORDS

Green IT; Nano data center; Energy consumption; Security; Availability; Scalability; Data distribution

## ACM Reference Format:

Melanie Hauser, Diana Irmscher, Mengchu Li, Katrin Kolb, Katharina Rupp, Andreas Scholz, and Document Identifier: GI 201711. 2018. CTNDCl: Identifying the Challenges Towards a distributed Nano Data Center Infrastructure. In *Proceedings of Wissenschaftliches Arbeiten und Lehren, LMU (SPWAL LMU)*. ACM, New York, NY, USA, 3 pages. <https://doi.org/10.1145/nnnnnnnn.nnnnnnnn>

## ACHIEVEMENTS

*Authors: Team effort*

## NEXT STEPS

*Authors: Team effort*

## DEVIATION FROM PLAN

*Authors: Team effort*

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## Appendices

### Questionnaire

- (1) On the website of the LRZ it can be read that *Green IT* is important [7]. What has been achieved or improved so far?
- (2) In 2012, the LRZ was awarded the German Data Center Award for *energy and resource efficient data centers* [7]. What makes the LRZ better on *Green IT* than other data centers?
- (3) What does the LRZ offer its customers? Are there any special *Green IT* services available? Does the customer have an influence on more environmentally conscious use?
- (4) Today's use of Internet services has changed massively [1]. How has the LRZ adapted accordingly?
- (5) Why are the big data centers still so popular? What are the reasons/advantages? Are these political, economic or technical?
- (6) Are there any disadvantages with monolithic data centers?
- (7) Have you heard of an alternative solution to monolithic data centers? There are, among others, some research on nano data centers. Does the LRZ also work with these approaches? What is your opinion?
- (8) In your opinion, what are the advantages and disadvantages of nano data centers?
- (9) How does the LRZ see the data centers of the future? What could be possible? Is it realistic that monolithic data centers could be replaced by special peer-to-peer networks?
- (10) Do you think there are any difficulties or special challenges that need to be solved in order to implement nano data centers suitable for the mass or as new state of the art? What are the difficulties oder challenges in your opinion?
- (11) Do you have any idea or approach how to solve these difficulties or challenges?
- (12) Would you have an idea for other alternative systems?