

SDN implementation plan in China Science and Technology Network

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Scientific activities generate huge data and need to transfer them to some places to research. Traditional networking infrastructure has a defined architecture and can not satisfy such real-time and high-quality transferring requirements.

China Science and Technology Network(CSTNet) was constructed in order to meet the needs of the research institutes under the Chinese Academy of Sciences and even the whole scientific and technological community in China. CSTNet has planned to construct a new-generation infrastructure using some new technology such as SDN, NFV and etc.

CSTNet has started to build a new NOC running system to achieve real-time measurements, monitoring and management of the network flows. The new NOC running system can provide an user interface to enable user to submit networking requirements dynamic and self-adaptive, some network configure task can become effective on time no need to connect to console board.

Dynamic network management will accelerate the integrating of cloud computing and cloud storage facilities because of faster data transfer command delivering and implementing to service research in the fields of astronomy, biology, high-energy physics, etc.

Desired length

15

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