

ITU-T

TELECOMMUNICATION
STANDARDIZATION SECTOR
OF ITU

Series L

Supplement 7
(12/2014)

SERIES L: CONSTRUCTION, INSTALLATION AND
PROTECTION OF CABLES AND OTHER ELEMENTS OF
OUTSIDE PLANT

ITU-T L.1300 – Supplement on rationale for minimum data set for evaluating energy efficiency and for controlling data centre equipment in view of power saving

ITU-T L-series Recommendations – Supplement 7

Supplement 7 to ITU-T L-series Recommendations

ITU-T L.1300 – Supplement on rationale for minimum data set for evaluating energy efficiency and for controlling data centre equipment in view of power saving

Summary

Supplement 7 to ITU-T L-series Recommendations describes the rationale for a minimum data set for evaluating energy efficiency and for controlling data centre equipment with a view to power saving based on Recommendation ITU-T L.1300. More precisely, this Supplement reports the data set necessary for: evaluation of energy efficiency and coordinated control to save power in data centres. Finally, it provides a summary of the minimum data set and gap analysis with other standards.

History

Edition	Recommendation	Approval	Study Group	Unique ID*
1.0	ITU-T L Suppl. 7	2014-12-19	5	11.1002/1000/12435



Keywords

Best practice, data centre, energy efficient, information and communication technology and climate change (ICT & CC).

* To access the Recommendation, type the URL <http://handle.itu.int/> in the address field of your web browser, followed by the Recommendation's unique ID. For example, <http://handle.itu.int/11.1002/1000/11830-en>.

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Supplement 7 to ITU-T L-series Recommendations

ITU-T L.1300 – Supplement on rationale for minimum data set for evaluating energy efficiency and for controlling data centre equipment in view of power saving

1 Scope

This Supplement describes the rationale for a minimum data set for evaluating energy efficiency and for controlling data centre equipment with a view to power saving based on [b-ITU-T L.1300]. The scope of this Supplement includes:

- an introduction of the rationale for a minimum data set for evaluating energy efficiency and for controlling data centre equipment;
- the data set necessary for evaluation of energy efficiency in data centres;
- the data set necessary for coordinated control to save power in data centres; and
- a summary of the minimum data set and gap analysis with other standards.

2 Definitions

This Supplement uses the following terms:

2.1 dynamic data: Data that should be obtained from data centre equipment periodically.

2.2 static data: Data that should be treated statically.

3 Abbreviations and acronyms

This Supplement uses the following abbreviations and acronyms:

COP	Coefficient Of Performance
CRAC	Computer Room Air Conditioner
CRAH	Computer Room Air Handler
DCiE	Data Centre infrastructure Efficiency
DPPE	Data centre Performance Per Energy
ECMA	European Computer Manufactures Association
GEC	Green Energy Coefficient
HVAC	Heating, Ventilation and Air Conditioning
ICT	Information and Communication Technology
ITEE	IT equipment Energy Efficiency
ITEU	IT Equipment Utilization
KVM	Keyboard, Video monitor, and Mouse
MIB	Management Information Base
PDU	Power Distribution Unit
PUE	Power Usage Effectiveness
RDU	Rack Distribution Unit
UPS	Uninterruptible Power Supply



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