

## Recommendation

### **ITU-T Y.4510 (03/2025)**

SERIES Y: Global information infrastructure, Internet protocol aspects, next-generation networks, Internet of Things and smart cities

Internet of things and smart cities and communities – Frameworks, architectures and protocols

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## **Functional architecture of smart power bank rental service framework**

## ITU-T Y-SERIES RECOMMENDATIONS

### Global information infrastructure, Internet protocol aspects, next-generation networks, Internet of Things and smart cities

|                                                         |                      |
|---------------------------------------------------------|----------------------|
| GLOBAL INFORMATION INFRASTRUCTURE                       | Y.100-Y.999          |
| INTERNET PROTOCOL ASPECTS                               | Y.1000-Y.1999        |
| NEXT GENERATION NETWORKS                                | Y.2000-Y.2999        |
| FUTURE NETWORKS                                         | Y.3000-Y.3499        |
| CLOUD COMPUTING                                         | Y.3500-Y.3599        |
| BIG DATA                                                | Y.3600-Y.3799        |
| QUANTUM KEY DISTRIBUTION NETWORKS                       | Y.3800-Y.3999        |
| INTERNET OF THINGS AND SMART CITIES AND COMMUNITIES     | Y.4000-Y.4999        |
| General                                                 | Y.4000-Y.4049        |
| Definitions and terminologies                           | Y.4050-Y.4099        |
| Requirements and use cases                              | Y.4100-Y.4249        |
| Infrastructure, connectivity and networks               | Y.4250-Y.4399        |
| <b>Frameworks, architectures and protocols</b>          | <b>Y.4400-Y.4549</b> |
| Services, applications, computation and data processing | Y.4550-Y.4699        |
| Management, control and performance                     | Y.4700-Y.4799        |
| Identification and security                             | Y.4800-Y.4899        |
| Evaluation and assessment                               | Y.4900-Y.4999        |

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## Recommendation ITU-T Y.4510

### Functional architecture of smart power bank rental service framework

#### Summary

Recommendation ITU-T Y.4510 introduces the smart power bank rental (SPBR) service and specifies its functional requirements and functional architecture framework to provide guidance for device manufacturers and service providers when developing SPBR equipment and services.

With the adoption of Internet of things (IoT) technology, a smart power bank rental (SPBR) service can satisfy the on-the-go charging needs for people, improve service efficiency, and provide real-time service monitoring and management for service providers.

Relevant products of an SPBR service have emerged and developed on a certain scale in several countries and regions. Lack of standards might cause deviating capabilities and uneven performance of the service, which can lead to inconsistent service experience and limit vendors' ability to meet rising demands across the globe, thus affecting the market acceptance of this service.

#### History \*

| Edition | Recommendation | Approval   | Study Group | Unique ID          |
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#### Keywords

Architecture, smart power bank rental.

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## Table of Contents

|   |                                                                                                  | Page |
|---|--------------------------------------------------------------------------------------------------|------|
| 1 | Scope .....                                                                                      | 1    |
| 2 | References.....                                                                                  | 1    |
| 3 | Definitions .....                                                                                | 1    |
|   | 3.1 Terms defined elsewhere .....                                                                | 1    |
|   | 3.2 Terms defined in this Recommendation.....                                                    | 1    |
| 4 | Abbreviations and acronyms .....                                                                 | 2    |
| 5 | Conventions .....                                                                                | 2    |
| 6 | Introduction of SPBR service .....                                                               | 2    |
| 7 | Functional requirements .....                                                                    | 3    |
|   | 7.1 Application layer .....                                                                      | 3    |
|   | 7.2 Service support and application support layer.....                                           | 4    |
|   | 7.3 Device layer.....                                                                            | 4    |
| 8 | Functional architecture of SPBR service framework .....                                          | 5    |
|   | 8.1 Application layer .....                                                                      | 5    |
|   | 8.2 Service support and application support layer.....                                           | 6    |
|   | 8.3 Device layer.....                                                                            | 6    |
|   | Appendix I – An implementation and deployment example of a smart power bank rental service ..... | 8    |
|   | I.1 SPBR device rental.....                                                                      | 8    |
|   | I.2 SPBR device return .....                                                                     | 9    |
|   | Bibliography.....                                                                                | 10   |

