

Best practices: Battery test Standards per region

Overview and Introduction

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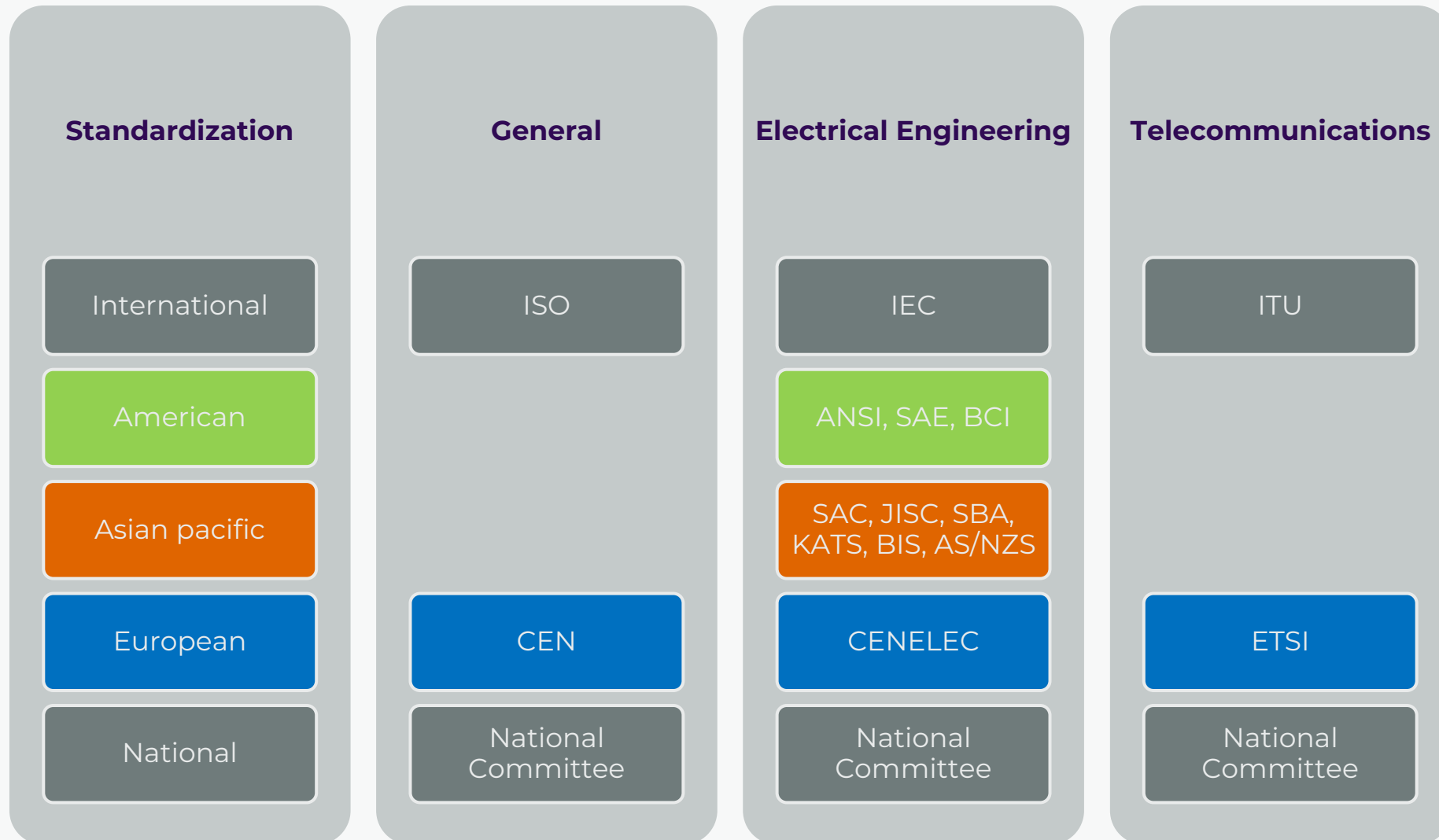
Manager Requirements Analysis

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Levels of standardisation



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International



IEC 60095 Family of standards for Lead-acid starter batteries

Defining global minimum requirements for traditional starter Batteries

Basis for regional or local implementations in many countries

e.g. Australia (AS 60095.1), New Zealand (AS/NZS 60095.1), China (GB/T IEC 60095-1), South Korea (KS IEC 60095-1), Russia (GOST R IEC 60095-1), Egypt (EOS IEC 60095-1), Saudi Arabia (SASO IEC 60095-1)

IEC 60095-1 - General requirements and methods of test

IEC 60095-2 - Dimensions of batteries and dimensions and marking of terminals

IEC 60095-4 - Dimensions of batteries for heavy vehicles

IEC 60095-6 - Batteries for micro-cycle applications

IEC 60095-7 - General requirements and methods of test for motorcycle batteries

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North America



Independent system of SAE (Society of Automotive Engineers) and BCI (Battery Council International) documents for Lead-acid starter batteries

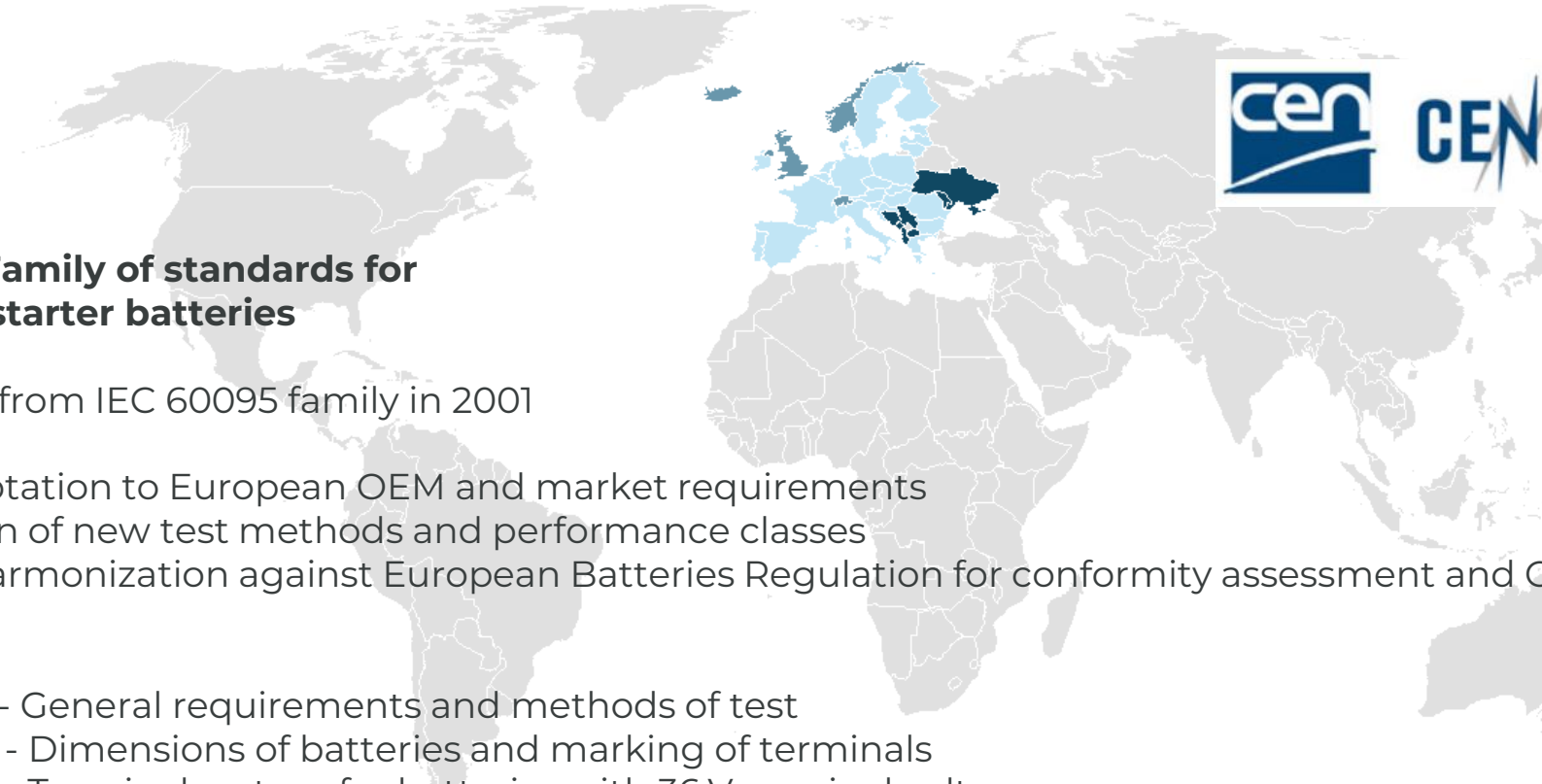
Main document SAE J537 – Storage Batteries

Additional documents for individual test procedures

BCI Group Size System

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Europe



EN 50342 Family of standards for Lead-acid starter batteries

Separation from IEC 60095 family in 2001

Faster adaptation to European OEM and market requirements

Introduction of new test methods and performance classes

Ongoing harmonization against European Batteries Regulation for conformity assessment and CE marking

EN 50342-1 - General requirements and methods of test

EN 50342-2 - Dimensions of batteries and marking of terminals

EN 50342-3 - Terminal system for batteries with 36 V nominal voltage

EN 50342-4 - Dimensions of batteries for heavy vehicles

EN 50342-5 - Mechanical properties of battery housings and handles

EN 50342-6 - Batteries for micro-cycle applications

EN 50342-7 - General requirements and methods of tests for motorcycle batteries

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Asia pacific



Regional and national documents for Lead-acid starter batteries

Primarily following IEC 60095 as its standard Basis for regional or local implementations in many countries

Additional OE influence

SAC GB/T 5008.1 - Technical Conditions and Methods of Test

JSA JIS D 5301 - Lead-Acid Starter Batteries

JSA JIS D 5302 - Lead-Acid Batteries for Motorcycles

SBA S 0101 - Lead-Acid Batteries for Vehicles with Idling-Stop Systems

AS60095.1 - General requirements and methods of test