



BSI Standards Publication

## Space product assurance — Worst case analysis

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## National foreword

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The UK participation in its preparation was entrusted to Technical Committee ACE/68, Space systems and operations.

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## Space product assurance - Worst case analysis

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RaumfahrtProduktsicherung - Worst-Case-Analysis

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## European Foreword

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This document (CEN/TR 17602-30-01:2021) has been prepared by Technical Committee CEN/CLC/JTC 5 "Space", the secretariat of which is held by DIN.

It is highlighted that this technical report does not contain any requirement but only collection of data or descriptions and guidelines about how to organize and perform the work in support of EN 16602-30.

This Technical report (CEN/TR 17602-30-01:2021) originates from ECSS-Q-HB-30-01A.

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This document has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association.

This document has been developed to cover specifically space systems and has therefore precedence over any TR covering the same scope but with a wider domain of applicability (e.g.: aerospace).

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## Scope

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This handbook provides guidelines to perform the worst case analysis. It applies to all electrical and electronic equipment. This worst case analysis (WCA) method can also be applied at subsystem level to justify electrical interface specifications and design margins for equipment. It applies to all project phases where electrical interface requirements are established and circuit design is carried out.

The worst case analysis is generally carried out when designing the circuit. For selected circuitry, worst case analysis (WCA) can be used to validate a conceptual design approach.

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