Why 62368-1?
- Early learning and preparation – The introduction of the new options for CB certification associated with IEC 62368-1 and UL/CUL certification to CSA/UL 62368-1 gives you the opportunity to learn about the new 62368-1 Standard, and the Hazard-Based Safety Engineering (HBSE) concepts upon which it is based, in order to prepare for the challenges of its ultimate full implementation.
- Flexibility – Early adoption may also give you the opportunity to take advantage of the increased flexibility offered by the new standard, particularly the emphasis on safety design in the early product development phase and performance-oriented compliance options.
- Expertise – UL has played a leading role in the development of the new standard in both management roles on IEC TC108 and a member of various national committees throughout Asia, Europe and North America involved in its development, giving us unequalled in-depth knowledge and experience of its concepts and application.
- Education – We have already been educating the industry on the new standard for over two years since the IEC version was first published – and we will continue to be the knowledge leader for the standard as it evolves.
- Ongoing support – As an active participant on IEC TC 108, the Technical Committee responsible for the development and ongoing maintenance of the standard, UL is perfectly placed to guide manufacturers through the process of compliance with the new standard as it becomes mandatory.

Why UL?
- UL’s involvement in the development of regional, national, and CB standards, and its active leadership in the technical committees, gives UL an unequalled understanding of the requirements of new and changing standards.
- UL is an active participant on the Technical Committee responsible for the development of the International Standard, UL’s involvement in the standard-setting process ensures that it will be ready to guide manufacturers through the process of compliance with the new standard as it becomes mandatory.
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About UL
UL is a global safety science company, with more than 150 years of proven industry expertise. By driving industry consensus, UL helps remove barriers to progress and inspire the future of safety and sustainability worldwide. Our technical standards and knowledge services – to meet the expanding needs of industries and the global economy – for more information on UL’s family of companies and network of laboratory, testing and certification facilities, go to UL.com.
Hazard-based Standards Development

The new approach, based on Hazard-Based Safety Engineering (HBSE), has the added benefit of better facilitating the introduction of new & innovative methods of construction and technology without first requiring amendment of the relevant standards to accommodate it.

As the new standard represents a significant departure from traditional standards, it has initially been introduced as a voluntary alternative to the existing standards IEC 60950 and IEC 60950-1.

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In additive, the milestone of formal publication in February 2012 of the Standard in the United States and Canada as a 1st national standard, formally CSA C22.2 No.62368-1:2012, means as an alternative to the UL & CSA 60950 and 60950-1 based standards, manufacturers now can choose 62368-1 based UL and cUL certification where a 60065 or 60950-1 based standard was required in the past.

When IEC 62368-1, Ed 2.0 is published (2013 target), it is anticipated that the Standard will be adopted in Europe as EN 62368-1, Ed 2.0 and a harmonized North American version also will be proposed and adopted, as CSA/UL 62368-1, Ed 2.0.

At that time it is expected that a formal transition period, with Effective Dates and Dates of Withdrawal (DOW) of the Legacy Standards based on 60950 and 60950-1 will be established in North America, Europe and other regions/countries that begin to adopt a 62368-1 based standard.

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## Hazard-based Standards Development

IEC 62368-1 Ed 1.0 – Audio/Video, Information and Communication Technology Equipment – Safety Requirements – has been an IEC standard since early 2010.

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When IEC 62368-1 Ed 2.0 is published (2013 target), it is anticipated that the Standard will be adopted in Europe as EN 62368-1 Ed 2.0 and a harmonized North American version also will be promoted and adopted, as CSA/UL 62368-1, Ed 2.0.

At that time it is expected that a formal transition period, with Effectives Dates and Dates of Withdrawal (DOW) of the legacy standards in North America, Europe and other regions/countries that begin to adopt a Hazard-based standard.

## Likely Transition Scenario...

### Traditional Prescriptive Standards

- **For Audio, Video and Similar Electronic Apparatus:**
  - IEC 60601
  - CSA/UL 60601
  - EN 60601

- **For Information Technology Equipment:**
  - IEC 60950-1
  - CSA/UL 60950-1
  - EN 60950-1

### Hazard-based Standards Development

- **For Audio/Video, Information and Communication Technology Equipment:**
  - IEC 62368-1
  - CSA/UL 62368-1
  - EN 62368-1

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When IEC 62368-1 Ed 2.0 is published (2013 target), it is anticipated that the Standard will be adopted in Europe as EN 62368-1 Ed 2.0 and a harmonized North American version also will be proposed and adopted, as CSA/UL 62368-1, Ed 2.0.

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## Products covered

The new standards cover a wide range of high-tech products, including:

- **Computer & networking products:** servers, PCs, routers, notebook/laptop computers and their power supplies.
- **Consumer electronics:** amplifiers, home theater systems, digital cameras and personal music players.
- **Displays and display units:** monitors, TVs and digital projectors.
- **Telecommunication products:** network infrastructure equipment, cordless and mobile phones, and similar communication devices, including battery powered devices.
- **Office appliances:** copiers and document shredders.
- **Musical Instruments**
- **Similar varieties of audio/video, information & communication technology equipment:** devices used in homes, schools, data processing centers, commercial, and professional environments.

## Getting prepared

Industry-wide adoption of the hazard-based standard IEC 62368-1 means that training and education for high-tech manufacturers and product designers will be an important component in both preparing to use and adhering to the new standards. The implementation of the new standard will be phased-in, and UL’s goals is to help manufacturers both prepare for the Standard and introduce their products to global markets in the shortest manner.

With comprehensive training available in various forms, UL is a single point of contact for resources related to the new standard and its test methods, Hazard-Based Safety Engineering (HBSE).

UL’s educational resources include:

- **Regular Standard Updates**
  - Sign up for our “High-Tech Direct” e-newsletter (send a request to high-tech@ul.com)
  - On-Demand webinars
  - White papers, technical briefs, and summary documents
  - Products
- **Regional Face-to-Face Events**
  - Forums and roundtables
  - Check ul.com/hbse often in order to get the latest update.
In the ever-changing world of digital technology, safety standards for high-tech products are constantly being updated or developed to reflect the changes. In the next five years, the predominant approach to safety engineering will be significantly shifted from prescriptive rules to a new hazard-based concept, with more performance-based options. As this transition progresses, manufacturers need to keep an eye on the ongoing development of both the current standards (60065 & 60950) and IEC & UL/CSA 62368-1, the alternative to those traditional safety standards. UL has been actively involved in the development of the new standard, and can therefore be your most reliable guide to the latest changes. With informed choices, manufacturers can make their own decisions and follow their own pace on the road toward hazard-based safety standards.

Traditional Prescriptive Standards

For Audio, Video and Similar Electronic Apparatus:
- IEC 60065
- CSA/UL 60065
- EN 60065

For Information Technology Equipment:
- IEC 60950-1
- CSA/UL 60950-1
- EN 60950-1

Prescriptive Standards Hazard-based Standards

For Audio/Video, Information and Communication Technology Equipment:
- IEC 62368-1
- CSA/UL 62368-1
- EN 62368-1

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Likely Transition Scenario...

Today 2018/2014 2018 & beyond

60065 60950
62368-1
60065 60950
62368-1
63968-1
62368-1
63968-1
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- Ongoing support – As an active participant on IEC TC108, the Technical Committee responsible for the development and ongoing maintenance of the standard, UL is perfectly placed to guide manufacturers through the process of compliance with the new standard as it becomes mandatory.

For more information on UL’s IEC 62368-1 services and the latest standard development, please contact your local UL sales team or visit www.ul.com/hbse. You may also connect with us on social media.

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- Flexibility – Early adoption may also give you the opportunity to take advantage of the increased flexibility offered by the new standard, particularly the emphasis on safety design in the early product development phase and performance-oriented compliance options.

- Experience of its concepts and application.

- The opportunity to learn about the new standard: IEC 62368-1 gives you the opportunity to take advantage of the new options for CB certification associated with IEC 62368-1, the Technical Committee involved in its development, giving us unequalled in-depth knowledge and experience of its concepts and application.

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Why UL?
- Expertise – UL is a premier global safety science company with more than 100 years of proven history. For more than 100 years, UL has contributed to the development of safety standards and the improvement of product safety. Today, UL is recognized for its technical expertise in the areas of scientific research and development, test facilities and test services, and has evolved to become the leader for the standard as it evolves.

- Education – UL is a member of various national committees involved in the development of the new standard in both management roles on IEC TC108. By being a leader on the committee, UL has acquired equal knowledge and experience of the standard's concepts and application.

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ul.com/hbse

AMERICAS

ARABIAN

- Argentina
  - Buenos Aires
  - Cordoba

- Brazil
  - Brazil

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  - Canada

- Chile
  - Chile

- Colombia
  - Bogota
  - Medellin

- Costa Rica
  - San Jose

- Dominican Republic
  - Santo Domingo

- Ecuador
  - Quito

- El Salvador
  - San Salvador

- Guatemala
  - Guatemala City

- Honduras
  - Tegucigalpa

- Mexico
  - Mexico City

- Nicaragua
  - Managua

- Panama
  - Panama City

- Peru
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