## ANNEX 8 - Published IEC Standards in SyC AAL

	SyCAAL publications generated on					
	Reference	Editi on	Date	Title	Description	
1	IEC TS 63134:2020+AMD 1:2022 CSV	Editio n 1.1	2022-12-01	Active Assisted Living (AAL) use cases	IEC TS 63134:2020+AMD1:2022 identifies AAL scenarios and use cases based on real-world applications and requirements. The use cases provide a practical context for considerations of interoperability and standards based on user experience. Use cases provide a context for utilizing existing standards and identifying further standardization work. User requirements have also been identified. This document also highlights potential areas for standardization in the AAL environment to ensure safety, security, privacy, ease of operation, performance and interoperability. Lastly, this document is a contribution to the IEC use case management repository, the purpose of which is to collect, administer, maintain, and analyse use cases.	
2	IEC TS 63134:2020	Editio n 1.0	2020- 04-09	Active assisted living (AAL) use cases	IEC TS 63134:2020 identifies AAL scenarios and use cases based on real-world applications and requirements. The use cases provide a practical context for considerations of interoperability and standards based on user experience. Use cases provide a context for utilizing existing standards and identifying further standardization work. User requirements have also been identified. This document also highlights potential areas for standardization in the AAL environment to ensure safety, security, privacy, ease of operation, performance and interoperability. Lastly, this document is a contribution to the IEC use case management repository, the purpose of which is to collect, administer, maintain, and analyse use cases.	
3	IEC TS 63134:2020/AMD1: 2022	Editio n 1.0	2022- 12-01	Amendment 1 - Active Assisted Living (AAL) use cases	Adopted as (IS/IEC TS 63134:2020)	
4	IEC SRD 63219:2022	Editio n 1.0	2022- 02-24	Active assisted living (AAL) system development guidance for AAL service providers	IEC SRD 63219:2022 provides guidance for AAL service providers to design, procure, implement, and maintain AAL systems throughout their service life. The objective is to ensure that AAL systems are designed, configured, and installed to meet the needs of the AAL user and the	

					requirements from applicable industry standards and global regulations. Ultimately, however, users of this document are responsible for checking the applicable laws and regulations. This document is intended for use by persons and organizations acting within an AAL service organization such as employees, contractors, and consultants and those working with external AAL technology vendors, as appropriate. This document provides guidance on ensuring that AAL systems meet the needs of the AAL service user, in terms of safety, security, privacy, usability, accessibility, performance and interoperability. This document provides guidance to supplement the AAL service organization's established policies and procedures.
5	HEC SRD 63234- 1:2020	Editio n 1.0	2020-02-19	Economic evaluation of active assisted living services - Part 1: Framework	IEC SRD 63234-1:2020 provides a descriptive framework and template for the economic evaluation of the implementation of technology-supported home healthcare or wellness services, or AAL services that support communications, transportation, etc. as defined in a series of AAL use cases. The financial analysis is completed from the point of view of the healthcare services funder, aged care services funder, or similar governmental or non-governmental organization (e.g. the government in a statesponsored system or possibly a health management/health insurance company in a privately funded system, a private or governmental organization financing delivery of home support or specialized transportation services). This document is structured to provide a means of capturing data for a Reference Scenario (typically the current means of providing care, often known as 'usual care', to the target patient population) to compare against an Alternate Scenario (the service or technology intervention) for an economic comparison. Standard economic measures can be estimated (using an electronic spreadsheet or other analysis tool) such as Return on Investment (ROI), Net Present Value (NPV), and Payback Period of the investment. This document is applicable to all potential AAL services and AAL systems that may be developed or the development and manufacture of any of the underlying components (whether hardware or software).

6	IEC SRD 63234- 2:2020	Editio n 1.0	2020-02-19	Economic evaluation of active assisted living services - Part 2: Example of use - Monitoring patients with chronic diseases	IEC SRD 63234-1:2020 provides a descriptive framework and template for the economic evaluation of the implementation of technology-supported home healthcare, wellness or AAL services. IEC SRD 63234-2:2020 provides an example of the use of the framework, specifically analysis and economic evaluation of the implementation of technology-supported, remote, in-home monitoring of patients (AAL care recipients) with chronic diseases. This analysis is completed from the point of view of the healthcare system/services funder (e.g. the government in a state-sponsored healthcare system or possibly a health management/health insurance company in a privately funded system). This document is structured like IEC SRD 63234-1:2020, to provide a means of capturing data for the Reference Scenario (the current means of providing care, also known as 'usual care', to the target population of members of the population with one or more chronic diseases living at home), compared against an Alternate Scenario (the deployment of an AAL service which provides remote patient monitoring). Standard economic measures have been estimated (using an electronic spreadsheet) including Return on Investment (ROI), Net Present Value (NPV), and Payback Period of the
7	IEC 63240-1:2020	Editio n 1.0	2020- 11-18	Active assisted living (AAL) reference architecture and architecture model - Part 1: Reference architecture	investment.  IEC 63240-1:2020 specifies the AAL reference architecture. This document defines concepts and introduces terminology. It provides generic rules for designers of AAL systems and services with the aim to facilitate systems design and enable interoperability between components. This document identifies safety, security, privacy, and other requirements for AAL systems such as usability, accessibility, and trustworthiness (reliability, resilience).  Assigned to Shri N. Kishor Narang for
8	IEC 63240-2:2020	Editio n 1.0	2020- 11-18		review  IEC 63240-2:2020 specifies the AAL architecture model. This document defines concepts and introduces terminology. IEC 63240-1 provides generic rules for designers of AAL systems and services with the aim to facilitate systems design and enable interoperability between

					components. This document provides a framework to analyse use cases on a common view and terminology, which is a foundation for communication to discuss the interoperability of the components of the AAL system. This document allows for the mapping of defined AAL use cases and supports the identification of interoperability issues and gap analysis of the standards. This document also identifies safety, security, privacy, and other requirements for AAL systems such as usability, accessibility, and trustworthiness (reliability, resilience).  Assigned to Shri N. Kishor Narang for review
9	IEC SRD 63314:2024	Editio n 1.0	2024- 09-03	Active assisted living (AAL) guidance for education and training of persons working in the field of AAL	
10	IEC SRD 63416:2023	Editio n 1.0	2023- 09-15	Ethical considerations of artificial intelligence (AI) when applied in the active assisted living (AAL) context	Assigned to Shri N. Kishor Narang and Dr. Charudatta Jhadav for review
11	<u>IEC SRD</u> 63426:2024	Editio n 1.0	2024- 06-28	Reference standards portfolio (RSP) on interoperability and connectivity for active assisted living (AAL) in the connected home environment (CHE)	
12	IEC SRD 63473:2024	Editio n 1.0	2024- 04-17	Active assisted living (AAL) use case standards inventory and mapping	

9	IEC SRD 63416:2023	Edition 1.0	2023- 09-15	Ethical considerations of artificial intelligence (AI) when applied in the active assisted living (AAL) context	IEC SRD 63416:2023 describes ethical considerations that are relevant when developing AAL systems and AAL services. This document covers AAL-specific issues related to AI that supplement those ethical considerations already addressed in other AI documents. Examples include the WHO and OECD principles of AI and those of the High-Level Expert Group on Artificial Intelligence set up by the European Commission. This document analyses whether these frameworks for the governance of AI are sufficient to meet the requirements of the AAL environment and in particular to meet the needs of AAL care recipients. The objective of the ethical assessment is to create concrete and clear ethical guidelines that can be used as checklists in AAL service and system platform design, development and implementation.  Assigned to Shri N. Kishor Narang and Shri Dr. Charudatta Jadhav → Recommended for adoption
10	IEC SRD 63473:2024	Edition 1.0	2024- 04-17	Active assisted living (AAL) use case standards inventory and mapping	IEC SRD 63473:2024 is to describe the process of building an inventory of international standards based on use cases, mapping these international standards to individual use cases, and providing a visual representation in the IEC mapping platform. This document identifies the main categories of international standards applicable to AAL systems and applies these international standards to AAL components and the complete AAL system. Although there are national and regional standards that can address parts of AAL systems, this document will focus only on standards developed at the international level (e.g., IEC, ISO, ITU-T).