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Title: A.1 justification for draft new Recommendation ITU-T Y.AAL-ProIoT
“Requirements and framework for AI-enabled proactive IoT services for active
assisted living (AAL)”, Q8/20 meeting (Geneva, 12-21 May 2026)

Contact: Yong Jick Lee
Rapporteur Q8/20

E-mail: ylee@caict.re.kr

Abstract: This document contains A.1 justification for draft new Recommendation ITU-T Y.AAL-ProIoT “Requirements and framework for AI-enabled proactive IoT services for active assisted living (AAL).”

Please see below.

A.1 justification for proposed draft new ITU-T Y.AAL-ProIoT "Requirements and framework for AI-enabled proactive IoT services for active assisted living (AAL)"

Question:	8/20	Proposed new ITU-T Recommendation	Geneva, 12-21 May 2026
Reference and title:	ITU-T Y.AAL-ProIoT "Requirements and framework for AI-enabled proactive IoT services for active assisted living (AAL)"		
Base text:	TD1430	Timing:	Q2-2028
Editor(s):	Kyoungjae Sun, ETRI, kjsun@etri.re.kr Sung Hei Kim, ETRI, shkim@etri.re.kr	Approval process:	AAP
<p>Scope (defines the intent or object of the Recommendation and the aspects covered, thereby indicating the limits of its applicability):</p> <p>This draft Recommendation specifies the requirements and framework for AI-enabled proactive IoT service in active assisted living (AAL), covering daily living environments including home and proximate care settings. It addresses service-level aspects of proactive coordination among heterogeneous IoT devices, supported by AI-driven context analysis and decision-making. Based on this coordination, it enables continuous and adaptive AAL service delivery without requiring explicit user intervention. Service requirements are derived based on the functional characteristics of AAL users and their associated care needs, providing the basis for defining the framework and use cases.</p> <p>The scope of this Recommendation includes:</p> <ul style="list-style-type: none"> – Requirements for AI-enabled proactive IoT service in active assisted living – Framework for AI-enabled proactive IoT service in active assisted living – Use cases for AI-enabled proactive IoT service in active assisted living <p>This draft Recommendation does not specify detailed AI algorithms and implementation methods, nor security aspects.</p>			
<p>Summary (provides a brief overview of the purpose and contents of the Recommendation, thus permitting readers to judge its usefulness for their work):</p> <p>Active assisted living (AAL) services have been increasingly recognized as an important approach to supporting individuals with varying levels of functional independence in maintaining independent and high-quality living. As IoT technologies and recent advances in artificial intelligence (AI) are increasingly applied to AAL service domains, there is a growing need to support coordinated and proactive service execution across heterogeneous IoT devices based on AI-driven reasoning.</p> <p>This draft Recommendation specifies requirements and a framework for AI-enabled proactive IoT service in active assisted living (AAL), covering daily living environments including home and proximate care settings. It describes an approach in which multiple IoT devices autonomously coordinate their functions based on AI-driven context analysis and decision-making, enabling proactive, context-aware, and continuous AAL service delivery without requiring explicit user intervention. Service requirements are derived based on the functional characteristics of AAL users and their associated care needs, particularly targeting individuals who require support with instrumental activities of daily living (IADLs), as well as health monitoring and coordination with healthcare-related services. By supporting coordinated device interaction, dynamic service orchestration, and continuous adaptation to user context, the proposed framework contributes to enhancing service accessibility, inclusion, and effectiveness, while improving user well-being.</p>			
<p>Relations to ITU-T Recommendations or to other standards (approved or under development):</p> <p>ITU-T Y.4511, IEC 63240-1</p>			
<p>Liaisons with other study groups or with other standards bodies:</p> <p>IEC SyC AAL, Q1/21, IRG-AVA, JCA-AHF, ASTAP EG AU</p>			
<p>Supporting members that are committing to contributing actively to the work item:</p> <p>Korea (Rep. of), ETRI, Daejeon University, China Unicom</p>			

