

# GENESYS

GENERIC Embedded SYSTEM Platform  
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## WORKPACKAGE 2 CONSUMER APPLICATIONS



### STARTING POINT

The success of GENESYS depends on understanding the commonalities and conflicts between application domains in order to avoid unintentional limitations in the applicability of the proposed architecture template.

This workpackage is concerned with the application domains of mobile devices and consumer electronics.

### APPROACH

As the domain is extremely wide and its future products and solutions will differ from today's devices, we:

- ✎ focus on open systems, smart spaces, and ambient intelligence
- ✎ take an end-user centric approach in requirements analysis
- ✎ define only critical high-level domain specific services that have to be taken into account when defining the core services of the GENESYS platform

### BENEFITS

- ✎ Insights on needs of future systems and systems-of-systems in the converging domains of mobile communication, consumer electronics, and ambient intelligence
- ✎ Knowledge on how to use the GENESYS services and architectural style in this domain
- ✎ Better acceptance of GENESYS results in this domain, as actual concerns and needs are addressed
- ✎ Understanding the possibilities and limitations of the GENESYS architecture

### OBJECTIVES

This workpackage is set to capture and analyze the high level architecture requirements of consumer applications (mobile and digital convergence), define the associated domain specific services and assess the preliminary architecture description.

To ensure that the GENESYS architecture is applicable for consumer electronics and mobile devices, we:

- ✎ capture and analyze high-level requirements for embedded systems in these converging industries
- ✎ define the associated domain specific services
- ✎ assess the proposed architectural solutions

### CURRENT STATUS

- ✎ The architectural requirements have been collected, enriched with use cases, and analyzed together with state-of-the-art or envisioned architectures.
- ✎ Domain specific platform services have been defined and, if applicable, linked to proposed core services in the GENESYS architecture template.
- ✎ The assessment of the preliminary architecture template is in progress.

### WP CONTEXT

In the project context the role of this workpackage is to ensure the cross-domain nature and wide applicability of the specified reference architecture template.

This workpackage interacts with the technical workpackages WP3, WP4, WP5 and WP6 by providing requirements and evaluating the proposed solutions.

### WORKPACKAGE PARTNERS

✎ Nokia Research Center

✎ Embedded Systems Institute  
✎ Fraunhofer IGD  
✎ NXP Semiconductor