A Service-Domain Based Approach
to Computing Ambient Services

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Abstract. Ambient services are related to the surrounding physical environment of the user, are locally useful and can be considered a form of location-based service. Ubiquitous short-range wireless networks provide a natural infrastructure for such services. Such services, by definition, have geographical boundaries or areas of relevance and usefulness. We call these areas service-domains. We discuss the stereotypical case of a user being in multiple service-domains at the same time, and how the set of suitable ambient services for the user can be computed using service-domains. We also describe our proof-of-concept prototype and its evaluation.