

Semantic Service Provisioning for IEEE 802.15.4 Network in Future Full-IP Internet of Things

Mots clés :

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- **Unité de recherche** : Services répartis, Architectures, MOdélisation, Validation, Administration des Réseaux
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- **Domaine scientifique principal**: Divers

Résumé du projet de recherche (Langue 1)

The Internet of Things (IoT) refers to a worldwide network of interconnected smart objects using standardized communication protocols. Especially, recent advances in low-power radio technology and reduced TCP/IP stacks for resource-constrained devices unveils a possibility for the future IoT based on the stable and scalable IP technology much like today's Internet of computers. In such ecosystem, service provisioning will play a central role in how to support the creation of a new generation of smart and ubiquitous applications. This thesis proposes the architecture of semantic service provisioning for low-power IEEE 802.15.4 networks in the future full-IP IoT.