OSAS (Open Service Architecture for Sensors) is an event-based programming system for sensor networks designed by the System Architecture and Networking group in TU/e.

In our current system the sensor nodes are equipped with a run-time system that is capable of accepting and executing a machine independent virtual machine code. Although this is flexible it is not optimal. Instead of compiling an OSAS program to virtual machine code, a complete binary might be generated that is optimized towards executing precisely this program. In this project we investigate the possibilities (which were explained already in an existing master thesis, by Amar Kalloe) and implement one. The project includes an analysis of the possible gains; in particular it includes a comparison and cost estimation of the various alternatives.