

Today there exist a wide variety of ecological problems and tasks, whose solutions require the distributed system, dedicated to collecting a multitude of data in real-time in geographically spanned area. The typical task of this kind would be monitoring of the atmospheric conditions in urban areas, monitoring the water properties and pollution rates in river basins etc. And the typical solution involve central processing unit (usually, a corporate or institution-based server) with all the communications hardware necessary plus the distributed grid of mostly identical field units, each of which will periodically send its collected data to the central server for processing and storage.

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