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## Using JBoss to Manage WiMAX Networks

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## The need for a Strategical re-orientation

The strategical re-orientation has been

The strategical re-orientation has been mandated by customers requiring less and less stand-alone NMS, each dedicated to the management of equipment of a single manufacturer, and mostly to a single technological domain.
It was common practice that a single equipment manufacturer offered a different NMS for managing different technologies, e.g. transport fiber optics gear (Add-Drops), access fiber optics gear (DSLAM), radio access networks gear (GERAN, UTRAN), core networks gear (switches).

•The result: large operators had 50+ NMS in their Network Operations Center.

·Characteristics of such old-fashioned systems:

the main interface to access data was GUI

Architecture mainly was client-server

Development language was C++, because Java was not considered fast enough





preserve the lower layers of the server, which connect to the managed network and therefore need real-time behaviour. The innovation was the introduction, on top of the lower-layer server, of a standardized data model, in order to enable the system to support standard services for the ESB. The technological choice for such innovation was J2EE.

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Work

























## Economical Advantages

- The economical advantages are evident.
- TCO for development licences has gone to zero: this is a very big advantage for large companies with large number of developers.

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