

TANGO Control Systems at ELI-NP

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The overview of the control systems at ELI-NP is presented and the status of development of each TANGO based control system is detailed. One of the major equipment within the ELI-NP facility – the High-Power Laser System – will be delivered by Thales with its own Supervision system using TANGO as a middle-layer. The key points of the "Monitoring and Control Systems for experimental areas" technical design report are also presented. This report lists the main experimental area requirements in terms of slow controls, and proposes a hardware and a software architecture models that shall guide the implementation of the control systems for experiments at ELI-NP. The future plan of TANGO development at ELI-NP are also addressed. They will concern mainly the integration of diverse devices (laser diagnostics, target motorized assemblies, delay generators, etc.) that will be part of the ELI-NP laser experimental areas and the implementation of solutions for interfacing the different TANGO control systems.