Title: *Tool for NDL*

Author: *Elena Myazina*

Department: *Department of Software Engineering*

Supervisor: *Doc. Ing. Karel Richta, CSc.* Supervisor's

Supervisor's e-mail address: richta@ksi.ms.mff.cuni.cz

Abstrakt: —Current research networks allow end users to build their own application-specific connections (lightpaths) and Optical Private Networks (OPNs). This requires a clear communication between the requesting application and the network. The Network Description Language (NDL) is a vocabulary designed to describe optical networks based on the Resource Description Framework (RDF). These descriptions aid applications in querying the capabilities of the network and allow them to clearly express requests to the network.

This work deals with the analysis of the current draft language NDL systems and optical components. He compares its potential and shortcomings of the proposal seeks. It also proposes a graphical representation corresponding to that language, which implements the graphical tool. The developed tool will allow the subsequent dialogs (voice) applications. Key words: NDL, RDF, optical mapping technology.