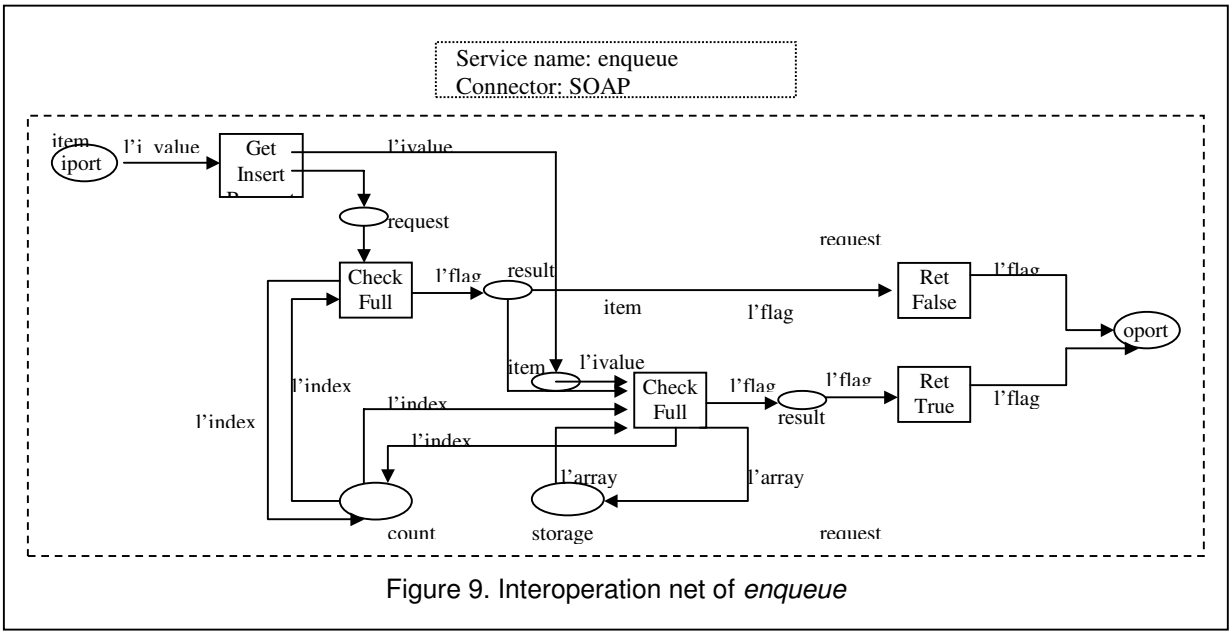

Figure 9. Interoperation net of *enqueue*

approach helps enhance the reliability of web services-oriented applications. Furthermore, it supports the object-oriented paradigm and component-based concepts. Specification formalism in WS-Net is object-oriented, executable, expressive, comprehensive, and yet easy to use. Thus a wide body of theories available for Petri nets is available for analyzing a system design.

However, manually transferring the WSDL specifications into the WS-Net specifications is not a trivial job. That is why currently we have only built some simple experiments, e.g. the example described in the paper. In order for our WS-Net to monitor and verify real-life applications, the translation from WSDL into WS-Net must be automated.

Our future work includes establishing an automation engine that translates web services written in WSDL into WS-Net, and building WS-Net models over real-life applications.

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