Concepts for Dynamic Wiring of Components

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In our days Software-Systems are highly dynamic and composed out of Components from different vendors offering Services to other Components. These Software-Systems are long-lasting and may need to be upgraded or downgraded due to new arrival of Components respectively Component failures at run-time. Therefore the Wiring of Component should be changeable at runtime and must NOT be hard coded at development time of a system. Integrating Systems from Components should be a (semi)-automatic process enabling a Dynamic (Re-)Configuration of the System. However this Dynamic (Re-)Configuration imposes questions regarding the correctness of the resulting system. The talk will sketch some concepts, how to deal with this issue.