Patterns in Internet Architecture

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Abstract. The networking research community is working to design the Next Generation Internet, which will meet the needs of the twenty-first century. The Next Generation Internet has to be commerce friendly and secure. It should allow receivers to set policies for how and where they receive their information. The Next Generation Internet should be designed for mobile objects. Naming, addressing architecture, and routing have to be such that these objects can move and decide how and where they want to receive their Internet traffic with full rights of privacy of their location, if desired. Most of such capabilities turn out to be mostly a consequence of the network architecture. Therefore, it is adamant a better understanding of issues related to Internet architectures. In this talk, I will identify several architectural patterns that have emerged from the Internet evolution, from its beginning until now. Furthermore, we will discuss about lessons that could be learned from these patterns in network architecture.