The R Service Bus

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R is a unique computational and visualization engine that can be useful to power data-driven decision making in about any analytics problem. The complexity of many integration tasks, though, requires dedicated tools. The R Service Bus is a Swiss army knife that allows you to plug R into your processes independently of the technology used by other software applications involved in the workflow. It has been in development for over two years and released under open source license to the R community in April 2011.

In this presentation we will provide an overview of the architecture of the R Service Bus and show how the architectural decisions guarantee reliability, flexibility, high availability and scalability of R-based analytics applications. Next we will demonstrate how applications can connect to RSB using RESTful and SOAP-based web services, e-mail protocols, messaging protocols (JMS, STOMP) etc. and which different payloads can be used to unleash the power of R.