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(57) **ABSTRACT**

The described technology provides a service risk discovery system for recommending, for a cloud based service sharing the service group hierarchy, a predetermined number of top risk observations based on the ranking of the one or more of the risk observations. The system generates the ranking by joining a plurality of risk objects of one or more of the group of cloud based services based on a service identification field of the plurality of risk objects to generate a service group risk vector, the service group risk vector including a plurality of risk observations for the group of cloud based services.