



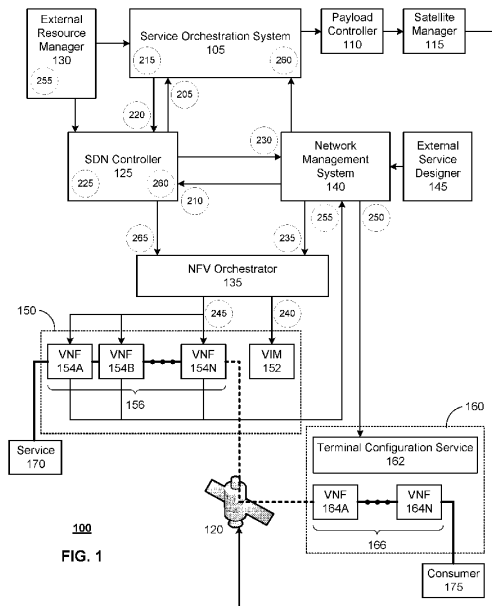
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- (71) **Applicant:** **KRATOS INTEGRAL HOLDINGS, LLC**
[US/US]; 10680 Treena Street, 6th Floor, San Diego, California 92131 (US).
- (72) **Inventors:** **BOYD, Christopher**; c/o Kratos Integral Holdings, LLC, 10680 Treena Street, 6th Floor, San Diego, California 92131 (US). **QUIGGLE, Greg**; c/o Kratos Integral Holdings, LLC, 10680 Treena Street, 6th Floor, San Diego, California 92131 (US). **KUBINA, Scott**; c/o Kratos Integral Holdings, LLC, 10680 Treena Street, 6th Floor, San Diego, California 92131 (US). **GOMEZ, Luis**; c/o Kratos Integral Holdings, LLC, 10680 Treena Street, 6th Floor, San Diego, California 92131 (US). **MONTELEONE, Richard**; c/o Kratos Integral Holdings, LLC, 10680 Treena Street, 6th Floor, San Diego, California 92131 (US). **TRYNOR,**

Mark; c/o Kratos Integral Holdings, LLC, 10680 Treena Street, 6th Floor, San Diego, California 92131 (US). **DE LA ROSA, Daniel**; c/o Kratos Integral Holdings, LLC, 10680 Treena Street, 6th Floor, San Diego, California 92131 (US). **PRITCHETT, James**; c/o Kratos Integral Holdings, LLC, 10680 Treena Street, 6th Floor, San Diego, California 92131 (US). **DAUGHTRIDGE, Stuart**; c/o Kratos Integral Holdings, LLC, 10680 Treena Street, 6th Floor, San Diego, California 92131 (US). **SANDOVAL, Frank**; c/o Kratos Integral Holdings, LLC, 10680 Treena Street, 6th Floor, San Diego, California 92131 (US).

- (74) **Agent:** **CHENG, Jonathan D.** et al.; c/o Procopio, Cory, Hargreaves & Savitch LLP, 525 B Street, Suite 2200, San Diego, California 92101 (US).

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- (54) **Title:** DYNAMIC MANAGEMENT OF SOFTWARE-DEFINED SERVICE CHAINS FOR SATELLITE COMMUNICATION



(57) **Abstract:** Conventionally, software-based services that utilize satellites are manually and painstakingly configured, provisioned, activated, and calibrated, because the complexity and variability of satellite links prevent automated and scalable service orchestration. Accordingly, systems and processes are disclosed for automated and scalable orchestration of services that utilize satellite links. In response to a service request, comprising a service definition for an end-to-end service, parameter(s) of a satellite link that satisfies the service definition may be calculated. These parameter(s) may be used to select a configuration for a satellite-network service chain, comprising a plurality of virtual network functions, from a service catalog. The satellite-network service chain may then be instantiated, within a cloud infrastructure, using the selected configuration. This process may be implemented in a software-defined network controller which dynamically manages the resources and configuration of the service chain.

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