Service Provider Application Form

Company Organisation Details:

Name: Prozeta

Company headquarters: Prague, Czech Republic

Webpage: www.prozeta.eu

Contact person (name, affiliation, email):

Bill Eldridge, Business Development Director

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Service Provider category (tick one or more):

_x_   Connectivity Provider

_x_   Infrastructure-as-a-Service Provider (IaaS)

_x_   Platform-as-a-Service Provider (PaaS)

_x_   Software-as-a-Service Provider (SaaS)

_x_   Integrator

___   Consultant

___   Broker

Company's Objective:

Summarise your company's objectives to participate in Helix Nebula.

With 2 ½ decades of IT & hardware experience, Prozeta seeks to extend its internally developed ecosystem solutions around Virtual Data Centers into a wider community setting, where benefits of cost, scalability and approach can be more appreciated.

Aside from more general cloud IaaS and PaaS services and tuned network connectivity, it is expected that the Helix Nebula community dealing with imaging, data sets, videos and cloud images can benefit from our video-focused activities.

State-of-art in the provision of cloud computing services:

Position your company's services with respect to the currently most advanced use of cloud computing.

Prozeta provides end-to-end expertise in Virtual Data Centers, Openstack cloud systems, bandwidth connectivity and SDN-based network solutions as both service provider and hardware reseller. Prozeta is a Cisco Cloud & Managed Services partner, Arista reseller for CEE & CIS countries focused on cloud and SDN capabilities (including line of next-gen router/switches) along with Intel, HPE and Supermicro hardware and a variety of security services to apply (UTM, scrubbing, antiDDoS…).

Expected Impact and Benefits:

By using the services provided by your company, what impact will the result have on the scientific field? What benefit will it bring to the scientific community and the European Research Area?

Prozeta's 2 major targets for Helix-Nebula community services include buildup of lower-cost, high performance cloud services for regional researchers and orgs in Central/Eastern Europe (along with providing expertise for transitioning to new cloud models from containers to SDN to microservices and lightweight provisioning), as well as helping join east-to-west research partnerships through optimized links providing a more flexible & lower-latency/higher-performance option for connectivity and shared cloud services.

Existing or potential partnership:

Which partner(s) of company, and in particular SME, would enjoy access to Helix Nebula through its participation?

While too early to name names, Prozeta has partners involved in IoT clouds, international CDN services, massive gaming and mixed reality paradigms, and next-generation analytics.

Additionally, we're partnered with a number of global hardware vendors, infrastructure providers and telcos/MVNOs who can potentially provide in-region capabilities that help extend the Helix-Nebula to unexploited areas.

Technical Characteristics:

Describe the computing characteristics of your cloud computing services:

Infrastructure to provide based on foreseen demand. Currently developing high density compute model to satisfy higher needs at lower cost, as well as expanding IP Transit PoPs to better handle remote data centers.

Characteristic	Description
CPU cores available	In progress
CPU RAM available (GB)	In progress
Minimum Server configuration	In progress
Maximum Server Configuration	In progress
Provisioning time for VM	Seconds to spin up
Image Upload Access	Yes
Hypervisor(s)	KVM primarily
Storage available (TB)	No fixed limit - based on agreement, fixed & fluctuating demand
IPv6	Yes
Public network traffic capacity	10's to 100's Gbps
Private network traffic capacity	10's to 100's Gbps
Operating environments supported (operating system and version, libraries etc.)	Docker images, cloud instances, standard Linux & Windows
External provisioning API	Yes (own provisioning system)
Peering agreements	Telecom Italia Sparkle, Turk Telecom, CZ NIX, private…
Computing centre locations (current, future)	Prague, Bratislava/Vienna, Dubai – Frankfurt, Amsterdam, London coming
PaaS Services available	Yes (own proprietary, service deployment, managing & monitoring, devOps, et al)
SaaS Services available	Own cloud-based OTT/IPTV video platform & service suiting small Do-it-Yourself content providers & distribution activity
Cloud on-boarding service available	Assistance migrating services
Other comments	

Current status of maturity:

Indicate if the cloud computing services are under development or already being used in a different environment.

Openstack-based Virtual Data Center currently serving largest Czech publisher and largest Jobs/HR portal

Proposer Resources:

Indicate the level of resources (manpower and funds) your company is willing to contribute towards the cost of implementing services for the flagship use cases until end of 2016.

Primary assistance will be in helping architect Openstack capabilities with appropriate resources for Helix-Nebula use cases, including onboarding and acquainting new Central European users and assisting with turning legacy infrastructure needs into cloud and virtual data center requirements.

Proposer Motivation:

Explain which aspects (such as scalability of resources, portability between service suppliers, use of standardized interfaces etc.) you consider to be the most important to investigate during the pilot phase.

Main validation points are latency, bandwidth, storage system tuning and SDN capabilities for network infrastructure, leveraging Prozeta's experience in network hardware and system tuning (especially the popular Ceph storage system) using Prozeta's deployment and monitoring solution.

Additional QuickMedia video platform (OTT/IPTV) & service potentially provides Helix-Nebula community with an easy way to manage and share assets, providing live / recorded video presentations for streaming conferences, video results in say physics or aerospace or medical sectors, and other material best provided in a controlled manner on known servers/data centers, including possible use of rights management.

Proposer Long-term Objectives:

Assuming your service is successfully being used during the pilot phase, what would be the long-term objectives of your company?

Prozeta sees participation in the Helix-Nebula cloud as a way of extending its presence into the larger Eurozone and growing its solutions into the larger players, especially non-profit R&D focused orgs who can benefit from innovative approaches and have more freedom to test and deploy newly developed alternatives than strictly for-profit firms.

We see our approach with the OTT video platform validating a 5 year effort in making video more available for smaller corporate and public sector self-publishing than the heavier last-generation broadcast-focused systems.