

# Sparkle's Cloud Innovation Services in the Greek Market

SPARKLE | IP&DATA

SPARKLE CLOUD & DATA CENTER

SPARKLE | CORPORATE

SPARKLE | MOBILE

SPARKLE VOICE



#### **Sparkle Overview**

- A LEADING GLOBAL OPERATOR with an unparalleled experience and know-how in a multiplicity of
  diverse markets, Sparkle, with its IP&Data, Cloud & Data Center, Corporate, Mobile and Voice
  Platforms, actively takes part in the development of worldwide communications, providing the best
  global connectivity solution to Fixed and Mobile Carriers, ISPs, OTTs, Media & Content Players,
  Application Service Providers and Multinational Corporations, before they know they need it
- Wholly owned subsidiary of TIM Group created in 2003 with the objective of developing the international wholesale and the retail multinational corporate businesses, as well as of supporting TIM Group business units for the provisioning of International Service

#### **Company Data**

Headcount

753

**Countries of presence** 

37

Network coverage

#PoPs 122

PoPs via partners

> 1,000

#### Key figures

**Voice Traffic** 

14.5 Bn minutes

Revenues

1.4 Bn €



### **Sparkle Service Proposition**

Complete set of IP, Data, Cloud & Data Center, Mobile and Voice solutions for Fixed and Mobile Operators, ISPs, OTTs, Media & Content Players, Application Service Providers and Multinational Corporations (MNCs)



Complete range of solutions designed to access any content on the Internet with secure global international IP connectivity, high-performance international bandwidth and IP MPLS services

#### SPARKLE CLOUD & DATA CENTER

Suite of highly flexible and scalable top class integrated IaaS, PaaS and SaaS that meet the ever growing need of cost efficient and top security IT solutions, available in several Data Centers worldwide, with key assets presence in Italy, Greece and Turkey



Complete portfolio of services ranging from entry-level solutions for small and medium enterprises, to business continuity solutions, with the highest level of service performance

#### SPARKLE | MOBILE PLATFORM

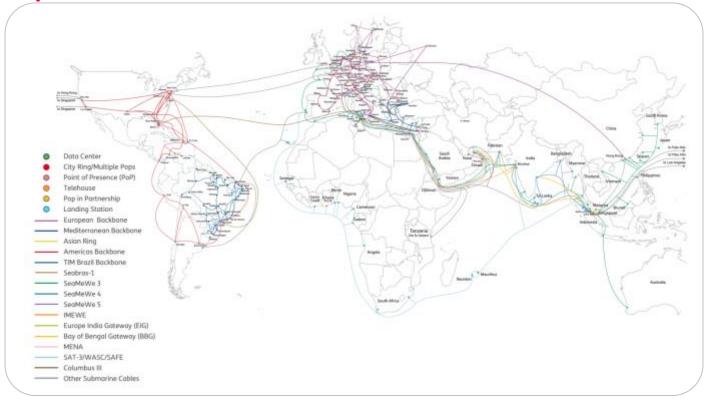
Distinctive portfolio of services to support the operations of new entrants and established mobile operators. The services aim to quickly increase international mobile service coverage and usage, thus generating new revenue streams for mobile operators while minimizing costs for service set up and management



Voice Solutions offer worldwide voice capabilities to Carriers, Service Providers, and Mobile Operators combining network reliability, competitive pricing and excellent routing solutions



### Sparkle Global Network



#### **GLOBAL CAPABILITIES**

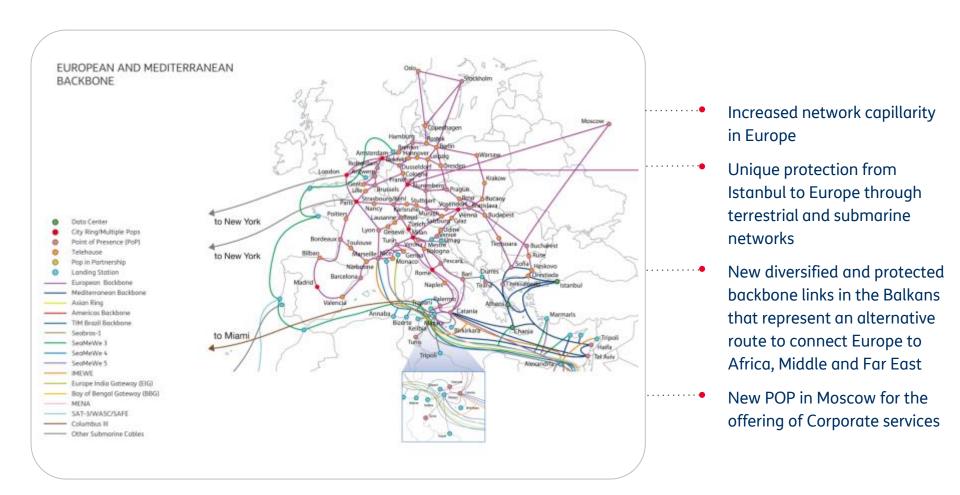
- ▶ 74 cities in 37 countries
- ▶ 122 PoPs
- >1,000 PoPs through partners
- ▶ 45,000 km/fibre PEB
- ▶ 36,000 km LAN
- ▶ 10,800 km MED
- ▶ 14,000 km/fibre Italian network
- over 450,000 km submarine cables

Data as of December 2016

- Full IP Global Network
- · Unique protected fiber path in Europe and global meshed architecture providing full resilience
- Unique footprint in Middle East and South East Asia through a state-of-the-art regional proprietary fiber optic backbone in the Mediterranean Basin, SeaMeWe-3, SeaMeWe-4, SeaMeWe-5, IMEWE and bilateral cable Systems
- New POPs in Kuala Lumpur, Tehran, Moscow, Puerto Rico
- Increased network capillarity in Europe
- New proprietary redundant backbone links from North to South America and investment in the new cable Seabras-1 connecting New York and Sao Paulo
- Capacity across the Atlantic and the Pacific

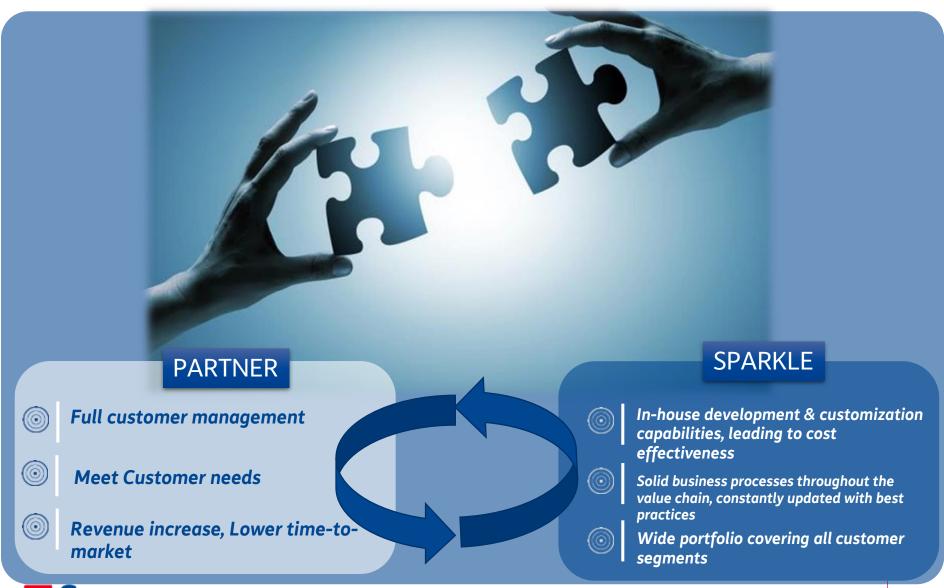


## Focus on Key Regional Backbones: Europe & Mediterranean





## **Cooperation & Partnership**



#### **Cloud & Data Center Solutions**

#### **Data Center**

6 DC Hubs Worldwide Located

Colocation

Best Technology in the Market

**Power** 

Everything you need to be connected

Cabling

360° Data Center Support Colo Professional Services

A modern DC born to offer Telco and MNC's services



Int'l Global Network Inside

#### Cloud

laaS

Scalable and Flexible

Security

"Best of Breed" Strong Authentication Service

Self-Management white

label marketplace and

Online Marketplace

DraaS

Advanced SaaS High business agility and

continuity

**Cloud Storage** 

Secure, Robust and Scalable

An innovative and wide service portfolio

...and a unique Set of Cloud/Data Centers and Network Infrastructure

Colo and Hosting capabilities, completely integrated with Sparkle's network services worldwide

Regional Data Centers in Italy, Greece and Turkey that leverage on Sparkle's unique protected terrestrial and submarine network to Europe



## **TI Sparkle Services in Greece**

IP + Capacity Services







**Cloud Services** 

#### **Data Center Services**









TI Sparkle Greece S.A.

### **Greece Network and DCs**









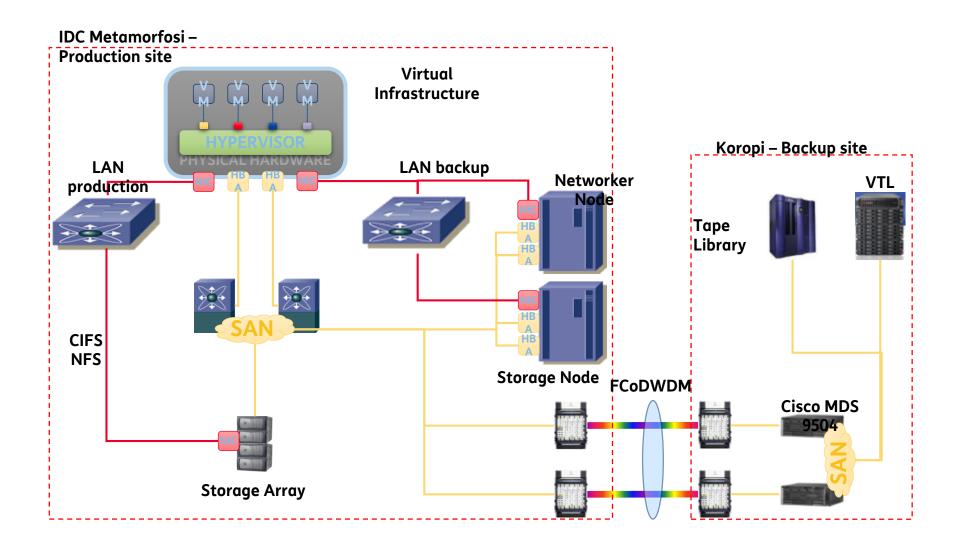








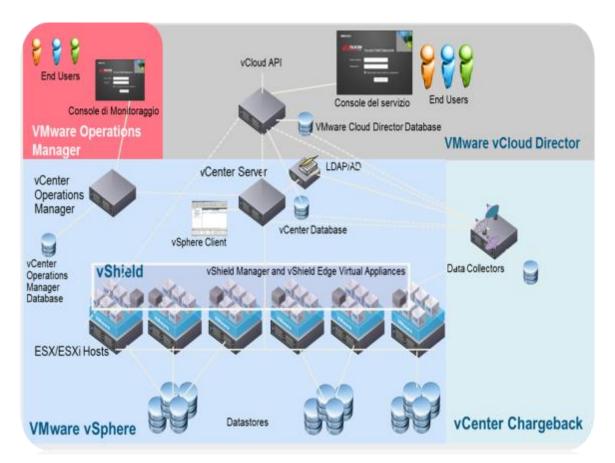
#### Cloud Infrastructure – State of the art architecture





### IaaS Solutions - Self Data Center (SDC)

• SDC service is based on VMware vCloud Director and other components of VMware Cloud Infrastructure Management (vSphere, vCloud Director, vShield, vCenter Chargeback e vCenter Operation, on-going deployment NSX-V).





Sparkle Self Data
Center delivers cloud
computing for existing
datacenters by
pooling virtual
infrastructure
resources and
delivering them to
users as catalogbased services.



#### **NEW Solutions!**

# SAP HANA

- ✓ Infrastructure Services for SAP HANA are deployed in TI Sparkle DCs with Collaboration with a SAP Certified hardware vendor such as IBM.
- SAP HANA Infrastructure is provided via a monthly subscription.
- Customers bring their onpremise SAP HANA licenses which will be deployed on their SAP HANA Infrastructure Services. It automatically provides the provisioning of SAP HANA software.



- Sparkle was awarded for provisioning
   Infrastructure as a service for the Research and Education community in 30 countries connected to GÉANT
- ✓ SPARKLE GREECE: Albania, Bulgaria, Cyprus, Greece, FYROM
  - Compute: Sparkle GR Self Data Center
  - Connectivity: Sparkle's global backbone
  - Managed services
  - Service Desk
  - Brokerage services: Reporting, Billing, Accounting
  - SSO proxy (SAML2) and eduGain federation



#### **NEW Solutions!**

## POWERED BY **Zerto**

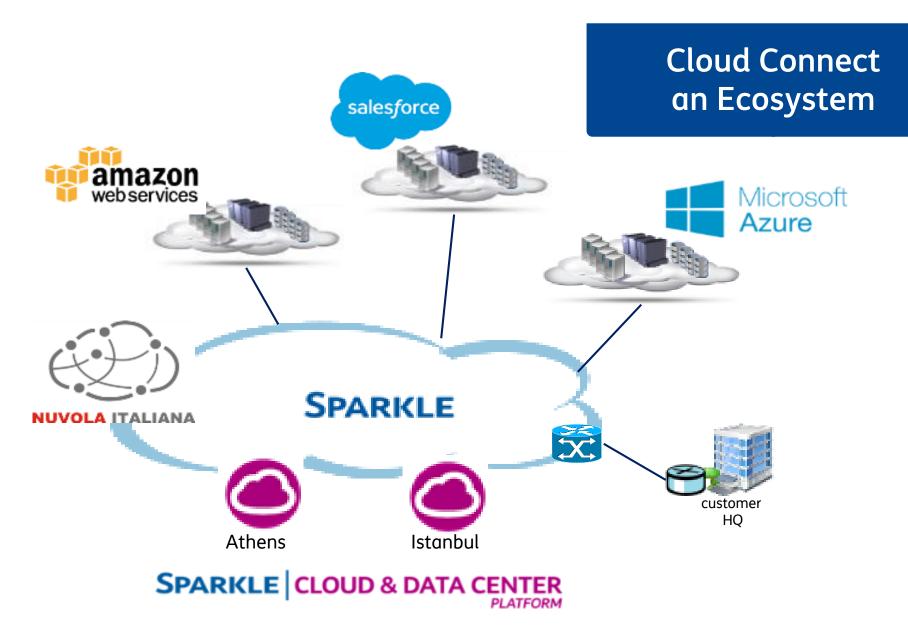
## DRaaS

- ✓ Better Odds of Success by eliminating the need of strong DR competencies and focusing on core business
- ✓ Server and Storage
  Motion
- ✓ Reduced Recovery Time
- ✓ Cost Reduction
- ✓ Ease of Management
- ✓ Remarkably Effective
- ✓ Scalability
- ✓ Application environment Recovery
- ✓ Granularity (VM-level protection)
- ✓ Hardware-agnostic



- ✓ Sparkle reseller of Greek
  Internet Exchange (GR-IX).
  Exchange traffic and
  interconnect with all internet
  players in Greece.
- ✓ Buy GR-IX ports directly in the three Data Centers (Metamorphosis, Koropi, Chania).
  - New Option: GRIX port + Connectivity from your premises to Sparkle's DCs
    - ✓ Protected
    - ✓ Guaranteed
    - ✓ One-Stop shop







#### Cloud Connect - THE OFFER



#### WHAT IT IS

- **Cloud Connect** extends Customer's network into the cloud capabilities of the most important Cloud Providers using a dedicated private connection.
- With Cloud Connect the Customer can establish private connectivity to multi-player cloud services, such as Microsoft and AWS

#### **NEEDS TO SATISFY**

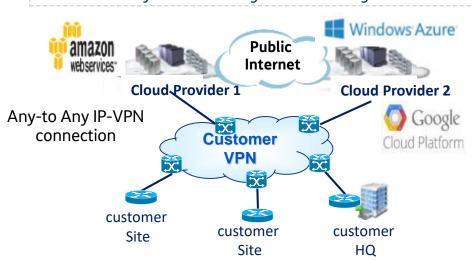
Cloud Connect offers more reliability, higher speed, lower latencies, and higher security than typical connections over the Internet, providing a more consistent network experience than Internet-based connections.

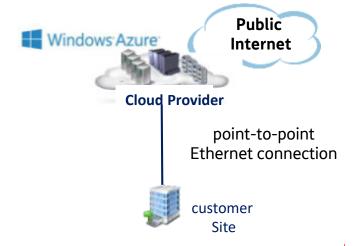
#### WHO NEEDS CLOUD CONNECT?

- Domestic Carriers who want to extend their reachability/offer to the main Cloud Providers
- Corporates who would like to enjoy a direct connection with their cloud installations

#### **HOW**

- Connectivity can be based on IP VPN or a point-to-point Ethernet link
- Connectivity can be managed or unmanaged







## **Cloud Connect - Cloud providers and destinations**

**Cloud Connect** is based on direct interconnections (50Mb – 1G) with Cloud Providers (CP) in the most important areas throughout the world.



Cloud Providers	Cloud Region	Status
amazon webservices™	EU West 1 (Ireland)	Ready
	EU Central (Frankfurt)	Ready
	US East1 (Ashburn)	Ready
	AP Southeast (Singapore)	On request
Microsoft Azure	West Europe (Amsterdam)	Ready
	East US (Ashburn)	Ready
	Southeast Asia (Singapore)	On request
salesforce	Frankfurt	On request
Google Cloud Platform	London, Frankfurt, Amsterdam	On request
SOFTLAYER	Amsterdam, Ashburn, Singapore	On request



#### **Cloud Connect - Benefits**

Cloud Connect offers important benefits in terms of performances and geographic reach:

- Opportunity to reach, quickly and easily, the Cloud Providers already interconnected
- Reliability, guaranteed bandwidth, low latencies, and high security
- Customer retains full control of its negotiations with Cloud Provider
- Bandwidth scalability
- Certainty of project economics (flat rate)





## Thank You

