



# **Application Delivery Control**

**Delivering the right application  
to the right user at the right time**

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# Agenda

- Introduction
- Right user, right time, right application
- Possible solution(s)
- Conclusion

# Introduction

- Right application for right user at right time
- Current trends:
  - Mobility
  - BYOD
  - (Application-layer) DDOS on the rise
  - Services in the cloud
  - IPv6
  - HTTP 2.0
  - Agile development
  - SDx

# Right user

## Confidentiality

- Authentication
  - Services in the cloud
  - Different authentication mechanisms based on the different devices, different locations for the same user



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# Right time

## Availability:

- Local redundancy
- Geographical redundancy
- Cloud bursting
- DNS (Health based, DNSSEC, ...)
- Agile development



# Right application

- Availability
  - IPv4 / IPv6
  - Different TCP flavors
  - HTTP 2.0 / SPDY
  - Caching / Compression



# Right application

## ■ Integrity

- Protection against network-layer and application-layer attacks
- Where is my perimeter?



## ■ Confidentiality

- HTTP 2.0
- 2048 bit certificates



# The solution(s)





# What Telenet can offer you



## Security consultants:

- Xavier
- Marc
- Andries
- Bruno
- Dimitri
- Bart
- Jurgen
- Jochen
- Kris
- Brice
- Dominique
- Raphael
- ...



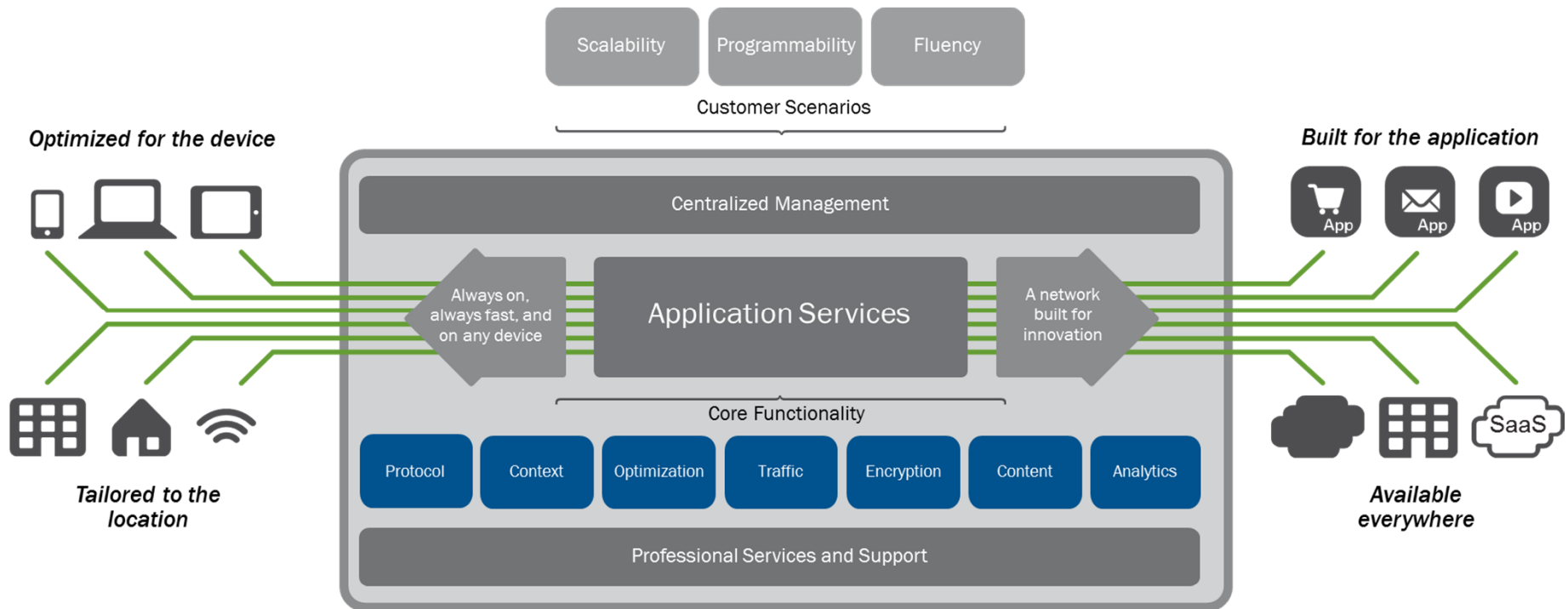
# Possible solutions

## => right application

Reverse proxy:

- IPv6/IPv4
- HTTP 2.0 / SPDY
- SSL offload
- Caching/compression
- Web application Firewall

# Right application



# Possible solutions

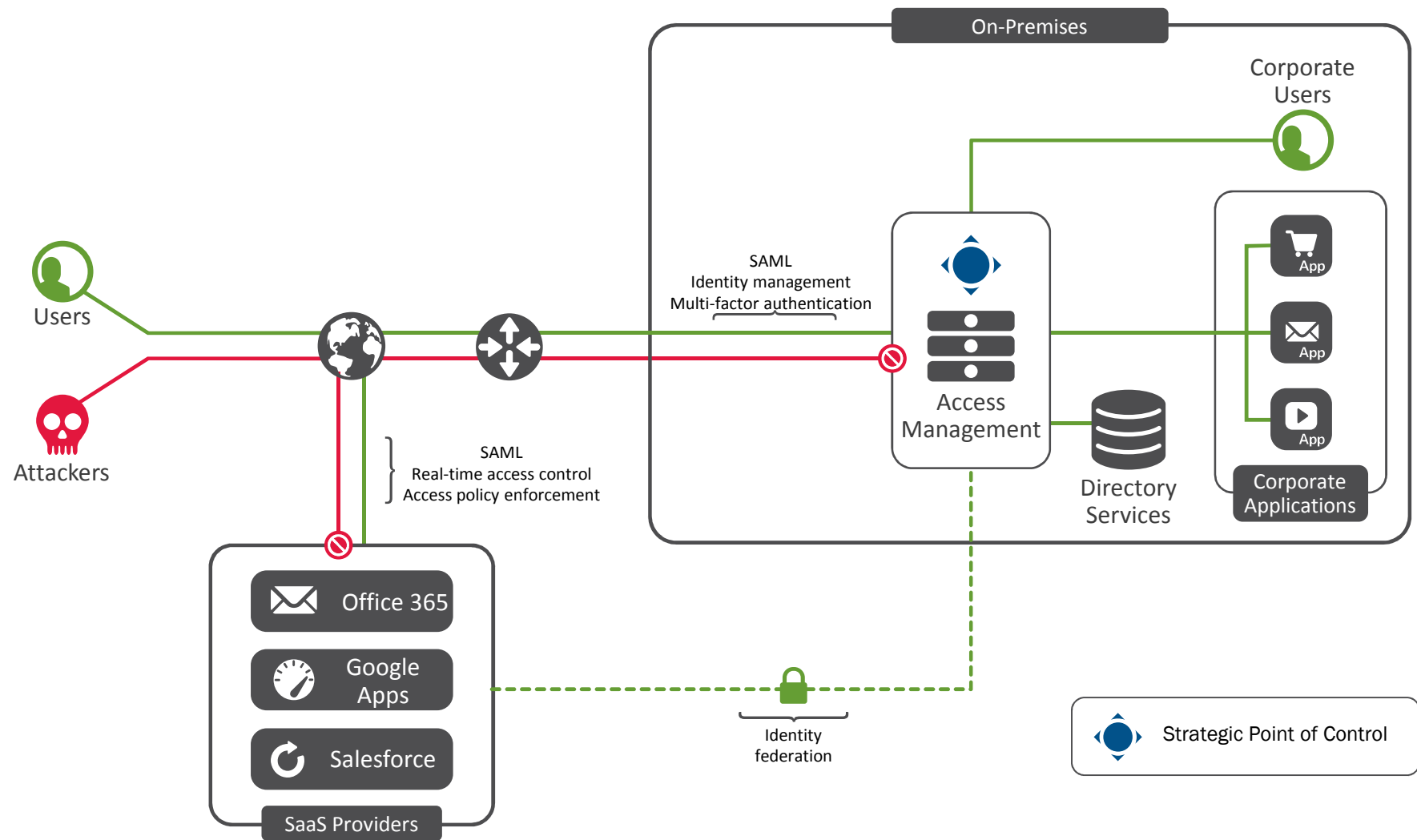
=> **right user**

## Strategic point of control

- SSO / SAML => allows integration with Office365, Google, Salesforce
- Two factor authentication
  - Tokens
  - PKI
- Allows different authentication mechanisms based on location, device, ...

**Authentication as part of the infrastructure, not only as part of the application**

# Right user

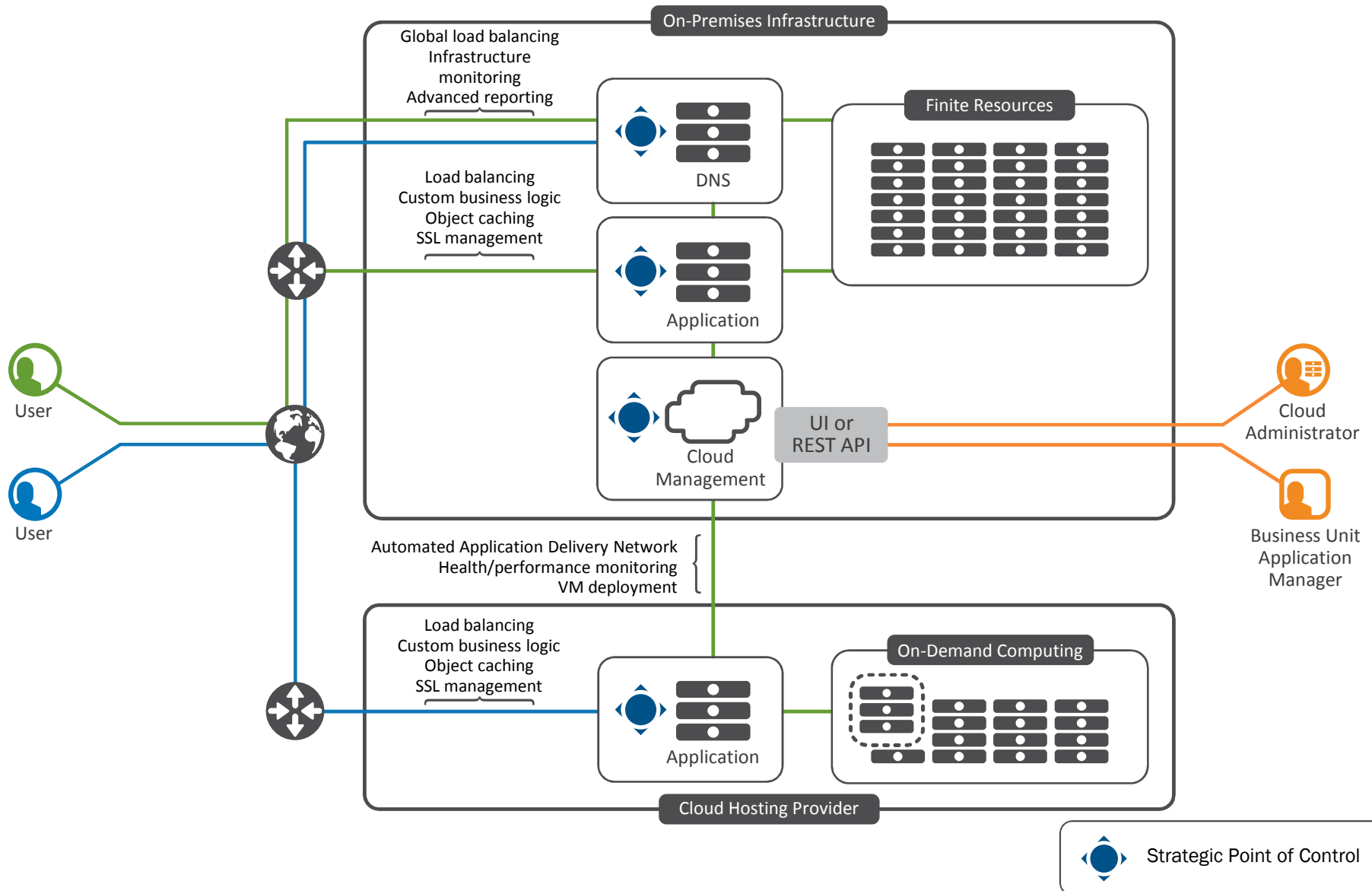


# Possible solutions

=> **right time**

- Intelligent **local** load balancing with health monitoring
- Intelligent **global** load balancing with health monitoring
- Cloud bursting
- Dynamic data center => Support for SDx
- High performance DNSSEC solution
- Agile deployment

# Right time



# More information

Presentations coming up:

- Advanced malware / DDOS
- Mobile Device management
- Security services:
  - Penetration testing
  - Vulnerability assessment



# Conclusion



**Do you want to know more?**



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