



Modern networking infrastructure, a key to digital transformation

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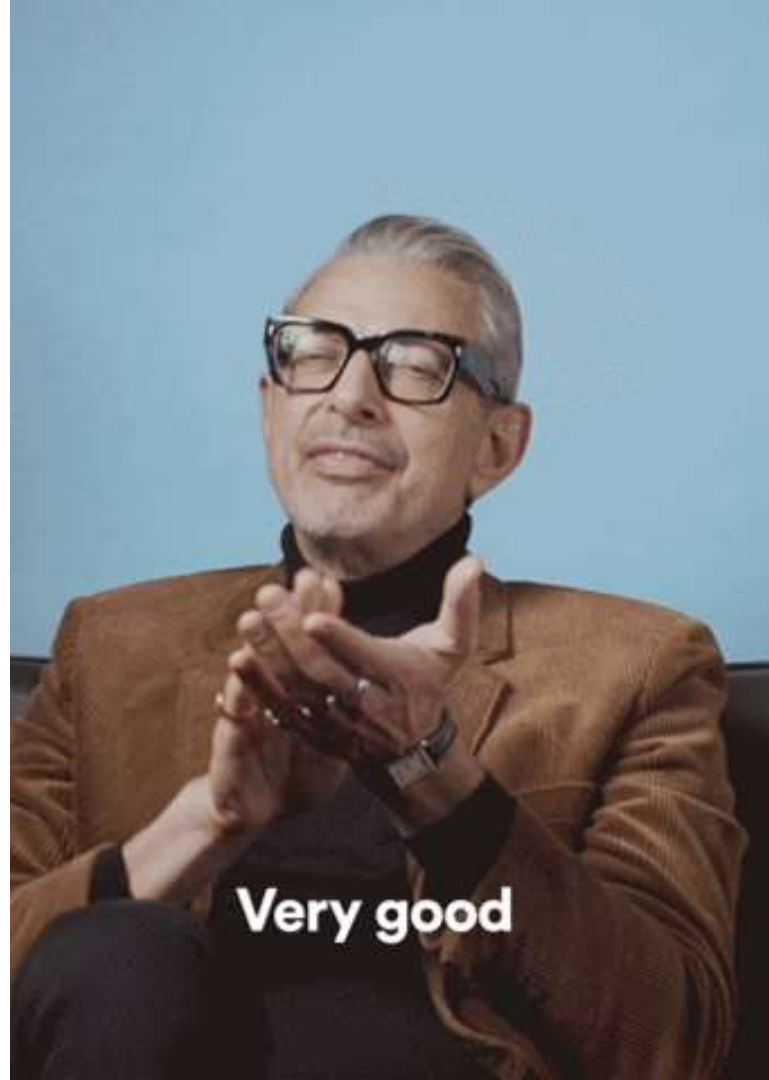
What is digital transformation?

Why Digital Transformation?

- **Increase revenue**
- **Lower costs**
- **Efficiency**

What is needed for success?

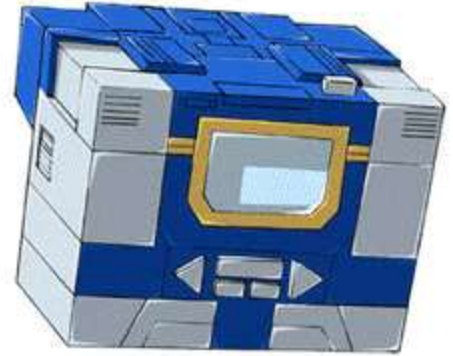
- Superior products
- The lowest prices
- The best people





What is really needed for success?

- Recognize change in the business landscape.
- Respond quickly and adapt faster than competitors can.



LEAD

How do I keep up?

- Digitization is changing the landscape in every industry.
- **Embrace** these changes
- Requires **Dynamic IT** Foundation
- Networks significantly more **important**
- Networks has become more **complex**
- For Digital transformation you must **evolve** your network

My Network

In the past, most business leaders didn't give the **network** a second thought. It was considered a tactical resource that **provided little strategic value**.

Today, for most companies, the network is the business.
Almost all of the enabling technologies of **digital transformation** are **network centric**.

Examples

- The **Internet of Things** is now a reality, and businesses are **connecting billions of devices** to their networks to gather **massive amounts of data** that can be used to discover **key insights into customers**.
- The **cloud** is an important **network-centric technology** that is allowing businesses to operate in new ways.
- Another digital enabler that relies on the network is **mobility**.

Network plays a **MAJOR** role in customer experience and productivity

**Modernizing the network
holds the keys to digital success.**

Legacy Networks Holds You Back

Network operations are **slow** -

Senior engineers are required to make even **simple changes**

There is a **lack of automation** -

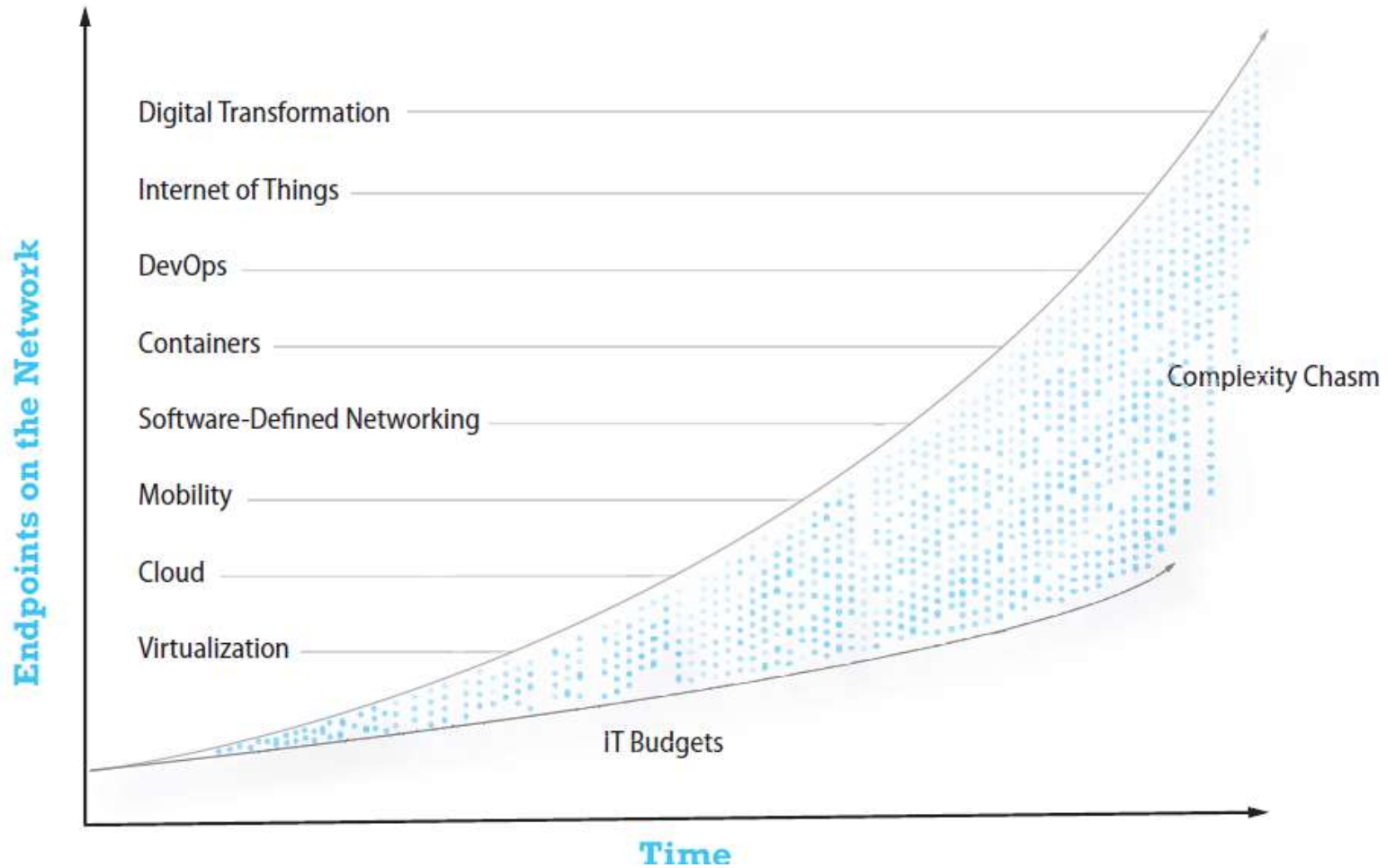
Operational costs dominate total cost of ownership

Proprietary protocols limits flexibility

Businesses are **unable to discover insights** from their data -

Security is not intrinsic to the network

Exhibit 3: The Network Complexity Chasm Is Widening



Software-defined networks

Tried to address the issues by:

- enable a higher level of agility,
- tasks automation,

BUT

the decision must still be made by a senior network engineer on:

- What , when and Where to change



**What would
be better?**

Autonomous networks





ACE VENTURA



NATIONAL
GEOGRAPHIC
CHANNEL



Autonomous Networks

- Use machine learning and artificial intelligence
- Analyze the massive amounts of data being generated across the network
- Continually ensure optimal operations and the highest level of security.



Core components of an autonomous network

- Open ecosystem
- End to end automation
- Insight and analytics
- Software-driven infrastructure

Autonomous Networks

Encompasses the whole network including

- the campus,
- branch offices,
- the data center,
- the WAN and
- the IoT edge

The **end-to-end** nature of an autonomous network is **critical to its ability to gather data** across the network so **business policy** can be **enforced** everywhere.

Benefits of Autonomous Networks

Businesses that embrace an autonomous network will realize the following benefits

- **Faster** provisioning of new services
- Operational **cost savings**
- Better network **security**
- Increased network **reliability**
- Optimized application **performance**
- **Predictive** management

What to look for in a provider?

- **Open solution**
- End-to-end **automation**
- **Analytics and insights**
- End-to-end **network**
- Single **management console**
- **Future-proofed** solution with investment protection
- Intrinsic **security**
- **AI and ML** infused

The building blocks of
DIGITAL TRANSFORMATION

IoT, cloud, mobility and big data

are all network centric

