

NIL Hypercenter

Transformation of IT Infrastructure in New Strategic Core of Your Company

IT managers are facing a challenging task to demonstrate the commercial value of IT and its contribution to the economic recovery of companies under these harsh economic conditions. It is clear that hitherto established approaches no longer suffice and a more radical transformation is needed.

The Objectives Are Known

To support operations, boost productivity and efficiently manage the required resources. Well-known objectives that rapid technological and business changes, accumulating poorly connected solutions, a growing range of services and budgetary constraints, make increasingly harder for IT departments to meet.

The Path Is New

Virtualization technologies and private clouds with dynamic infrastructures ready for business changes at any point in time offer a new way to boost the commercial value of IT.

By introducing standardization and automation, they lay a strong foundation for a rapid, exceptionally flexible and economic introduction of new services for your users – without introducing any additional or non-standard infrastructure components in a time-consuming and complex way, facilitating utilization of the resources available to companies that can thus rapidly increase their capacities when needed.

Our Answer: NIL Hyper Center

The NIL HyperCenter architecture that companies can avail of via a comprehensive and NIL's modular design solution is a result of a new approach to the development, building and functioning of the modern IT infrastructure core – data centers.

Organizations can avail of a monitored and well thought-out shift from current static infrastructures to state-of-the-art dynamic infrastructures with a considerably greater and faster ability to adapt to business requirements and to substantially reduce business risks.

The basic guidelines of the NIL HyperCenter are **comprehensive merging and virtualization of the entire IT core infrastructure.** Merging facilitates centralization of all core IT resources into state-of-the-art data centers, whereas the virtualization of all hardware components such as servers, clients, networks and network service facilitates the separation of hardware and services. The data center thus turns into a range of joint components that you can freely apply to existing and new services upon request.

Why NIL Hypercenter?

New Services Obtained in a Simple Way

By virtualizing hardware resources, HyperCenter facilitates the creation of production environments for new services, the development of service prototypes and the drawing up of trial environments – usually all that without having to upgrade your hardware or re-applying already tested and known solutions.

Advanced Tailored Management

Centralized resources simplify a multitude of management processes and facilitate inventory management. The established infrastructure can be managed and monitored by your company in full or low-level processes can be managed by NIL. Regardless of the selected management method, your company always has a full oversight of the infrastructure's operations.

Simplified Maintenance and Comprehensive Assistance

Systems, applications and their communication flows that form part of the NIL HyperCenter architecture are implemented via a logical infrastructure in which the majority of operational interventions can be carried out without having to disrupt your business processes. You can avail of the entire range of NIL Assist assistance services that provide for an optimum and reliable functioning of your infrastructure or NIL can take over the management of your infrastructure as a whole. Throughout the entire life cycle of the infrastructure, an exceptionally fast response and rectification of defects as well as tactical and strategic assistance in all operational and development challenges are provided.

Willingness to Grow

NIL HyperCenter supports the allocation of additional capacities to a specific application process without a hardware upgrade. If such an upgrade is, however, required from time to time, additional capacities are immediately rendered available to all processes applying the infrastructure.

Standardized Security

Data center virtualization significantly facilitates the implementation of security risk reduction mechanisms. You can separate resources that were too expensive or complex to be separated before and introduce standardized security services for all application processes. Standardized security mechanisms that are easier to monitor facilitate a consistent and comprehensive provision of security.

Continuous Operations

The NIL HyperCenter architecture has been designed for critical business processes, thus providing you with a wide range of mechanisms that provide for high reliability of your infrastructure: from continuous and defect-resistant uptime to comprehensive disaster protection by duplicating the entire data center at several geographical locations.

IT DEPARTMENT NEEDS AND OBJECTIVES	TRADITIONAL IT INFRASTRUCTURES AND DATA CENTRES	NIL HYPERCENTER
EFFICIENCY	Low because of organic growth and complex nature	High because of a comprehensively virtualized infrastructure
INTRODUCTION OF NEW SERVICES	Time-consuming because new infrastructure components need to be added	Fast because tested solutions are re-applied
PERFORMANCE	Low , lack of human resources in many cases	High because of an uniform infrastructure
EXTENSIBILITY	Challenging because applications are closely integrated with the infrastructure	Simple because the applications are independent from the infrastructure
RELIABILITY	Selective , on an application-to-application basis	Standardized for all applications without any additional components
SECURITY	Non-transparent security “islands”	Standardized virtualized security services
MAINTENANCE AND MANAGEMENT	Heterogeneous tools for various resources	Standardized mechanisms of management and control

How Is Nil Hypercenter Introduced Into Your Environment?

The NIL HyperCenter architecture is introduced into your environment in a highly monitored manner that includes the drawing up of detailed plans, implementation on the basis of the prescribed guidelines and extensive testing of capacities and reliability before the architecture is actually introduced.

In relation to the needs of our clients and their business and technological environments, NIL has developed three basic NIL HyperCenter architecture versions, which can be additionally adapted to the local IT environment of a specific client or the shift from one version to another can be facilitated.

NIL HYPERCENTER FOUNDATION	NIL HYPERCENTER ENTERPRISE	NIL HYPERCENTER ENTERPRISE NONSTOP
This architecture is intended for medium-sized organizations whose main objective is to improve the flexibility of operations.	This architecture is intended for large organizations that not only require flexibility, but also greater security, reliability and manageability of their data center.	This architecture is intended for large organizations with the highest reliable functioning requirements.
This architecture includes the basic server, network and storage resource virtualization components.	This architecture includes NIL HyperCenter Foundation architecture components as well as state-of-the-art high accessibility, security and increasability components.	This architecture includes NIL HyperCenter Enterprise components as well as the components required for the continuous uptime of your infrastructure resources.

Integration Into the Existing Environment

All virtualization solutions that form part of the NIL HyperCenter architecture are linked to and included in the existing environment, facilitating a gentle shift to a more efficient functioning and preservation of your investments in the existing infrastructure.

Comparison Between NIL's Cloud Computing Services

	FLIP IT	FLEX IT	NIL HYPERCENTER
TYPICAL CLIENTS	SMEs	SMEs, internet application providers (SaaS)	SMEs, cloud computing service providers
RESOURCES ARE MONITORED BY	Public cloud (shared monitoring between the client and NIL)	Public cloud (shared monitoring between the client and NIL)	Private cloud (fully monitored by the client)
KEY CHARACTERISTICS	Easy to use, price, higher level of IT services than hitherto	High level of security, reliability, and flexibility in a public infrastructure	Minimum risk and maximum control
SERVICE SCOPE	Fully externally carried out entire IT infrastructure	External management or server application platform	IT services on the client's infrastructure managed by the client or NIL
CLOUD COMPUTING SERVICE MODEL	SaaS	IaaS and PaaS	IaaS
SERVICE LEVEL PROVISION	Basic-level service provision	Basic- to exceptionally high-level service provision	Basic- to exceptionally high-level service provision
SERVICE INFRASTRUCTURE	NIL's public cloud	NIL's public cloud	Owned or rented by the client, at the client's premises

About NIL

NIL part of Conscia is a globally recognized provider of advanced data center, network, cloud, and cybersecurity solutions, as well as services for business and industry environments, state institutions, public organizations, and telecom companies.

By enabling a more efficient, secure, and reliable way of doing business, NIL helps organizations become more successful in the digitalized world.

NIL is part of the Conscia Group.