

# VIRTUALIZATION – DIGITAL EDGE APPROACH

Today, even with virtualization being readily provisioned and established within company environments, an uncertainty still lingers, having IT professionals question the correct way in which to take their company into the new frontier. Some consider full implementations while others like the idea of a partial architecture; then there are companies that look to go full throttle into a virtualization environment, while others prefer a gradual change. But which is the right solution for your company and how do you know what is the best vendor to use, the right configurations to deploy? These problems arise because virtualization is so complex, with multiple vendors, licensing models, and hardware manufacturers; making these decisions can be a long drawn out process you do not want to do on your own; especially if you are at a company with limited resources and experience in the deployment of these types of environmental changes. In these cases, being able to achieve the best ROI could be one of the hardest tasks you encounter.

This is why people look to us.

At Digital Edge, we have defined a systematic approach to virtualization, ensuring the best ROI, the fastest implementation and a structured knowledge transfer to our clients' employees.

- Processing and Capacity Assessments
- Density Analysis and Virtualization Qualifications
- Architecture, licensing and hardware selections
- Implementation
- Migration
- Documentation and ownership transfer

*Our methodology covers the whole delivery cycle, ensuring the best return on investment & the most suitable system architecture for your company.*

## How We Work-

### Stage 1: Processing & Capacity Assessment

The Process: Before making the decision to implement a virtualized architecture, the need for an analysis of your current processing patterns is required. During this processing and capacity assessment stage, all processing statistics are collected over a period of time, using our own internal proprietary tool set. The statistics gathered from all the systems concentrate on the following areas:

CPU utilization patterns      Memory utilization patterns      I/O requirements      Storage capacity requirements

The Outcome: After this stage, we highlight and granularly explain with our Capacity Assessment and Consolidation Document what information was collected, why each particular parameter was and is important for the following stage (Density Analysis), and provide virtualization reasoning's and ROI outcomes.

### Stage 2: Density Analysis & Virtualization Qualification

The Process: During this stage the statistics from the capacity assessment will be taken through a series of qualifying and disqualifying questions to make sure virtualization is a suitable replacement for a conventional architecture. There are situations in when virtualization is not the right architecture or brings very low ROI. Our engineers analyze processing density and existing hardware, possibility of increasing processing density on existing hardware, requirements to purchase new hardware and planning for future growth.

The Outcome: After this type of breakdown is administered, we build a Technological reasoning for Virtualization document, explaining why or why not selecting a virtualization platform is a good technological decision for future operations. We also will be providing a Projected Financial Reasoning document for executive review.

### Stage 3: Architecture, Licensing and Hardware Selection

The Process: During this step we work on the architecture selection. The architecting process would identify the best suitable:

- |                                  |                                    |
|----------------------------------|------------------------------------|
| - Storage architecture           | - High availability considerations |
| - Licensing model for hypervisor | - Cost of implementation           |
| - Clustering requirements        | - Cost of operation                |

Cost analysis includes initial purchasing, implementation, power requirements, cooling requirements, and the monthly recurring cost of operating.

The Outcome: A Virtualization Solution Blue Print document of the proposed technological solution including architectural maps, hardware and software requirements, and configuration definition. In addition a Migration Process document will be generated defining the way to migrate your current operation to the new platform. We also will provide an Estimated Initial and Operational Cost and Expected ROI document to be presented to executives for an evaluation of the virtualization initiatives. The final document is the Project plan and schedule, which defines the implementation stages, deadlines, milestones and deliverables.

