

# Dynamic Capacity Intelligence

Empower IT to Better Manage Service Level Agreements through Automated Dynamic Capacity Optimization



## Key Benefits

- **Improve SLA management:** Enable continuous optimization of mission-critical application delivery and operations.
- **Automate continuous optimization for priority workloads:** Shift available mainframe capacity across LPAR and CPC boundaries.
- **Contain and control software costs:** Ensure that critical workloads are completed while meeting SLAs and minimizing the impact on MLC.

## Key Features

- Dynamically moves available capacity to LPARs running critical workloads.
- Automatically balances capacity in real time to fully utilize available capacity.
- Helps decrease human labor hours that are required for manual real-time capacity management.
- Provides complete transparency into capacity management.
- Recognizes the impact of mobile and container workloads when calculating new caps.

## Related Products

- **Mainframe Resource Intelligence:** Quick and easy assessments reveal hidden costs and operational gaps to optimize performance and security on your mainframe.

## Overview

The Broadcom® WatchTower Platform™ for mainframe AIOps includes Dynamic Capacity Intelligence (DCI), a core capability that provides proactive, predictable capacity management for optimizing system resources for prioritized workloads running on IBM z/OS systems. This capacity management tool helps you better manage and utilize mainframe capacity, driving down monthly license charges (MLC). Intelligent automation avoids unplanned spikes in cost and empowers IT to better manage service level agreements (SLAs) through automated, dynamic capacity optimization.

## Business Challenges

For many businesses, any breach of SLAs for priority workloads is unacceptable. The dilemma is that IT must provide the best possible service to the business, while the business must prioritize cost containment strategies. Exceeding the budget is just as unacceptable as a breach of SLAs.

Debating between violating capacity limits, increasing costs, or impacting business-critical SLAs becomes heated and sometimes leads to finger pointing. In the meantime, the customer experience suffers. The challenge becomes how to meet SLAs at the best possible price.

MLC is often the single largest monthly invoice for businesses that deploy mainframes. MLC charges are determined by a rolling four-hour average of peak capacity usage during a month (R4HA).

Both IT and business stakeholders desire a predictable and proactive way to ensure that critical workloads complete within the time limits that are specified by SLAs. At the same time, business stakeholders want a minimal impact on cost. Selecting the best possible combination of pricing options, monitoring variables, and resource management strategies can lead to significant savings.

## Solution Overview

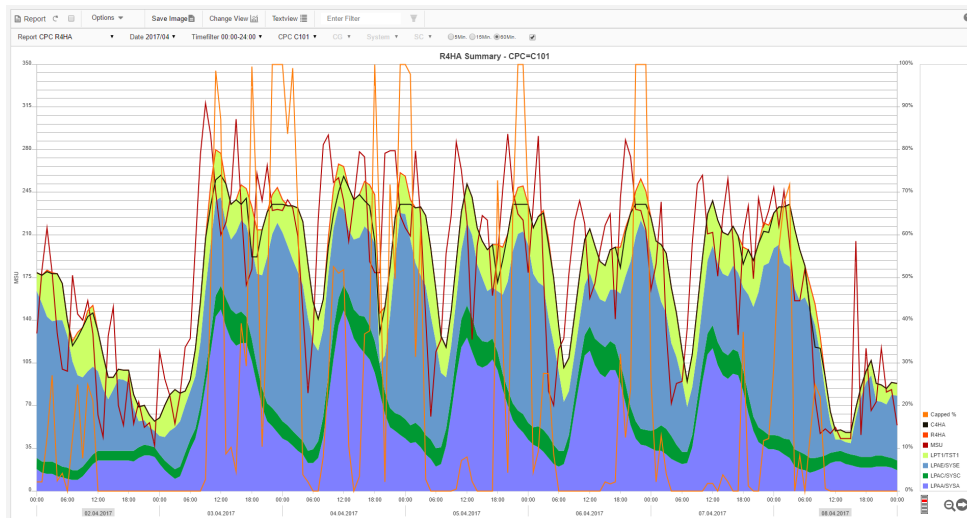
The WatchTower DCI is an easy-to-use, fully automated, intelligent capacity management solution. The solution is designed to streamline your ability to monitor and effectively manage SLAs and to improve operational efficiency. DCI helps IT to achieve rapid value by enabling priority mainframe workloads, meeting SLAs, and removing the guesswork from MLC pricing.

DCI recognizes the difference between urgent, business-critical tasks and lower-priority tasks that can be briefly postponed. The solution lowers the overall million service units (MSU) per hour during peak cost times by automating mainframe capacity balancing. Automated capacity balancing lowers MLC charges while simultaneously increasing the capacity for time-critical workloads.

## Solution Overview (cont.)

Moreover, DCI provides a single point of control to simplify and automate enterprise-wide deployment, monitoring, and reporting. The single point of control insulates staff from the underlying complexities of many aspects of their operations, including the overall spectrum of software portfolio usage and cost.

Easily view your real-time peak rolling four-hour average (R4HA), caps, and MSUs.



## Critical Differentiators

DCI is a complete solution that delivers the following critical differentiators:

- **Real capacity intelligence:** Unlike other optimization methods available today, DCI does more than simply move workloads to areas with more capacity. The solution maintains SLAs for critical workloads by continuously analyzing workload capacity use and automatically moving capacity to where and when it is needed. DCI also automatically recognizes the impact of mobile and container workloads when calculating new caps.
- **Flexibility:** DCI offers the ability to work without or within the IBM group capacity limit (GCL) for groups of LPARS and defined capacity (DC) for singular LPARs. You can prioritize MSU capacity based on workload priorities within an LPAR or across LPARs. Additionally, you can define a flexible range for MSU use and automatically allocate the minimum usage. If defined minimum usages have already been exceeded, they can be defined to become the new baseline.
- **Power:** DCI allows you to shift resources to deliver business innovation and lower software costs across mainframe operations. With DCI, you can balance the competing needs of customers, the IT organization, and the business. DCI provides the business continuity that your CTO expects, delivers the mainframe platform ROI demanded by your CFO, and improves the overall customer experience.

## Next Steps

Dynamic Capacity Intelligence is included in the *WatchTower Platform Suite*.

For more information, please visit our site at: [mainframe.broadcom.com/watchtower](http://mainframe.broadcom.com/watchtower)