Virtualized Self-Checkout

Transform self-checkout integration, performance, reliability and serviceability

Business and market drivers are likely leading you to cut costs and make the checkout process as frictionless and easy as possible for your customers. But keeping pace with the latest self-checkout (SCO) technology is no simple task. Moving the SCO application and operating system from the terminal hardware to a virtualized edge server addresses these challenges and changes the long-term investment economics of self-checkout. Now it's easy to roll out next-gen self-checkouts that offer choice, convenience and speed for your customers—and increased throughput, efficiency and staff optimization for you.

Traditional Self-Checkout Challenges

SCO solutions require significant investment, represent an ever-increasing proportion of store revenue flows and play a key role in the overall customer experience. Not surprising then that retailers are searching for ways to improve customer satisfaction, reduce risk and control the cost of these solutions. Virtualization of SCO terminal software provides real cost and business flexibility benefits that can help you maximize your return on investment.
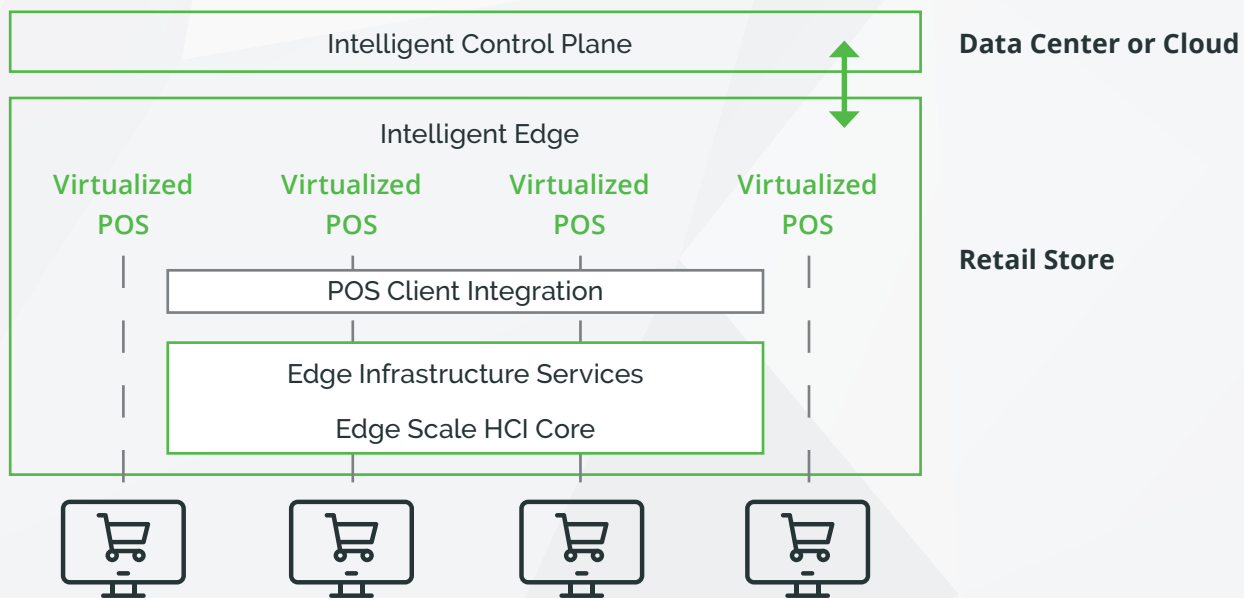
Controlling costs mean you need to achieve the maximum return on your investment in self-checkout terminals and associated peripherals. With virtualization, you can add new services without a forklift replacement of your existing solutions.

Reducing risk requires that self-checkout virtualization be implemented in a secure and PCI-DSS compliant manner, and that reliable and high-availability solutions are needed to avoid downtime.

Improving customer service requires optimizing self-checkout transaction speed, ensuring availability and providing flexibility to constantly adapt to advances in this dynamic area of technology.

Virtualized Self-Checkout

NCR Software Defined Store virtualizes the combination of SCO application software and operating system on a standard server. Virtualization removes the SCO application from the edge device—instead, a Linux operating system runs on the SCO with sufficient software to reconnect all required peripherals to the new virtualized POS application. The software interacts with the user through the screen of the SCO, presenting the application exactly as it appeared before virtualization. This maximizes the ROI from past SCO investments, reduces the IT bill of materials and minimizes staff training costs.

The solution integrates with all required peripherals such as printers, card readers and barcode scanners.

Security is paramount in SCO implementations. NCE Software Defined Store delivers a PCI-DSS compliant solution for all virtualized devices.

Key benefits

With the self-checkout application operating on a modern, local, secure and resilient infrastructure, management and maintenance becomes quicker, easier and more cost effective.

Increased return on investment

« Maximize your SCO investment by running the latest software on existing SCO hardware, eliminating end-of-support challenges

« Reduce support and maintenance costs with centralized management of all SCO terminals via a cloud management portal

« Enjoy comprehensive peripheral support, from note dispensers to scales, common to SCO solutions. With a complex array of 20 or more peripherals integrated into every SCO, this cost effective solution for support and upgrades is paramount

Increased reliability and reduced risk

« PCI-DSS compliant solution for all virtualized SCO terminals

« High availability options to further increase reliability

Enhanced customer service

« Flexible platform for adaptation to new advances in the rapidly developing world of self-checkout (barcode, RFID, Caper, Amazon Go)

NCR Software Defined Store

Software Defined Store is a key pillar of the NCR Commerce Platform, designed to enable you to manage your stores more easily and innovate quickly with less costs. NCR Software Defined Store enables the virtualization of your retail back office and front office IT resources, and offers specific virtualization solutions for point of sale (POS), tablets, kiosks, self-checkout and a variety of other retail store applications.

Contact us at NCR.com today

NCR SOFTWARE DEFINED STORE

NCR delivers market leading store infrastructure and applications at the Retail Edge, designed to help retailers worldwide evolve faster on a lower cost curve. This leadership was further enhanced by the acquisition of Zynstra in 2019, a specialist software company delivering Software Defined Edge infrastructure for retail with patented, unique IP and global scale enterprise deployments. Zynstra's IP is embedded in an Edge and Cloud microservices strategy for all retail applications and at the core of the NCR Commerce Platform.

About NCR

NCR Corporation (NYSE: NCR) is a leading enterprise technology provider that runs stores, restaurants and self-directed banking. NCR is headquartered in Atlanta, Ga., with 38,000 employees globally. NCR is a trademark of NCR Corporation in the United States and other countries.