

## Migrating and Protecting IBM i Servers Environments

Government agencies and their systems play a vital role in serving citizens, enabling successful and efficient operations and defending the nation. Yet, when striving to achieve national goals, agencies must follow mandates stemming from the Federal Information Technology Acquisition Reform Act (FITARA) to keep acquisition plans streamlined, employ best practices and reduce waste. To meet these directives agencies must perform data center consolidations and migrations in the most efficient manner possible. Additionally, they must keep systems and data available – always. Products and services from Vision Solutions help to ensure this critical level of availability.

### Migrations with Near-Zero Downtime

Whether performing a hardware refresh, consolidating servers in your data center, or moving to the cloud, migrations are necessary to keep your servers efficient and productive. MIMIX<sup>®</sup> Move<sup>™</sup> helps government and military organizations, who may be particularly challenged because of heterogeneous IT environments, migrate with minimal risk and downtime.

#### Migrate without disruption

Using traditional offload/reload techniques, downtime can last for several hours, or even a few days. But migrations with Vision Solutions occur with near-zero downtime. In fact, with MIMIX Move, users are often unaware that a migration is even happening.

#### Short cutovers that you control

After a copy of your server is made, the servers are kept in sync in real time. When the new server is verified as complete and accurate, cutover in your data center or to the cloud is done, when convenient, with minimal downtime.

*“We cut our downtime to a fraction of what it would have otherwise been, and eliminated some staff scheduling problems. We would have had to cover a 20-hour migration with two shifts of*

*technicians, which would have been difficult. Being able to run the two systems in parallel also eliminated unwelcome surprises at cutover time.”*  
– Florencio, Senior System Engineer

### Secure High Availability (HA)

Many government agencies depend on Power Systems running IBM i, one of the most reliable platforms on the market. Yet reliable doesn't equal available. Even if the hardware and software never fail, scheduled maintenance, natural disasters and other events can force a server offline. But with MIMIX<sup>®</sup> Availability<sup>™</sup> or iTERA<sup>®</sup> Availability<sup>™</sup>, server downtime doesn't have to result in operational downtime. Either solution replicates all IBM i data, applications or complete servers in real time. The initial copy process and ongoing change replication occur in the background, leaving operations unaffected.

#### Always be operational

Because the secondary server is always fully up-to-date and ready-to-run, operations can continue with almost no downtime even if the primary server becomes unavailable, regardless of the downtime cause.

*“The biggest benefit of MIMIX is that if there is a problem, we can be up and running again within five minutes.”*  
– George G., Project Manager

### Rapid, Easy Disaster Recovery (DR)

Some government agencies cannot tolerate data loss, but can accept a brief period of downtime after an outage. MIMIX<sup>®</sup> DR<sup>™</sup> provides an easy, cost-effective way to protect data on tier 2 servers from loss, and restore operations much more quickly than recoveries from tape backups or snapshots.

#### Protect all data

Unlike nightly tape backups that can leave up to 24 hours' worth – or more, if the previous backup tape is unreadable – of vital government data unprotected, MIMIX DR securely replicates all data changes in real time to a recovery server or partition residing on-site, off-site or in a cloud, using any storage or operating system version. By doing so, it protects data right up to a point of failure.

#### Recover quickly and reliably

MIMIX DR's checklist-driven manual failover processes help to reduce both downtime and human error. In addition, robust scheduled audits ensure that the recovery server is always an accurate replica of the production server. And virtual failover functionality allows agencies to verify recovery readiness without affecting ongoing government operations.

*The first time we switched from production to backup with MIMIX, the switch time was seven minutes. It's gone down since then. Now, a switch takes us about two minutes."*

*– Tim G., IT System Developer*

## Seamless Data Sharing

Government agencies and departments typically have to share considerable data – often across widely differing hardware, operating systems and databases. Rather than manually re-entering it or periodically extracting, transporting and reloading data, data sharing should be seamless and automatic.

### Don't wait for replication

Double-Take® Share™ automatically creates initial replicas and then replicates data changes between differing hardware, operating systems and database management systems in near-real time. It assures reliable replication by validating that data was successfully applied to the target database, and its replication engine automatically recovers from network/system outages to provide fault/crash tolerance.

### One solution for disparate systems

Double-Take Share reconciles any differences in the technologies and database schemas on either side of the replication. No matter how you mix and match common operating systems such as IBM i, Windows, Linux, UNIX and AIX and common databases such as, IBM DB2 for i, IBM DB2 for LUW, IBM Informix, Oracle, Teradata and Sybase, Double-Take Share makes real time data sharing seamless and automatic.

### Save time, money, and resources

Minimize the manual labor involved and lower staff costs. Double-Take Share reduces human error risks and ensures that critical data is always available where it's needed.

*"Double-Take Share gives us many advantages, allowing us to make mission critical decisions quickly with shared, real time data when we need to."*

*– Xavier, IT Manager*

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NASA SEWP V  
NITAAC CIO-CS  
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DHS FirstSource II  
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- 611420 – 611420 Computer Training

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