



# High Availability Payment Processing

## Background

Payliance is a provider of real-time payment processing services, including gift and loyalty card services. Payliance has customers in the United States, Canada, and Australia. To serve these customers, Payliance has 80 employees, with an IT staff of 25, and four offices across the United States.

In 2022, Payliance acquired Secure Payment Systems (SPS) to expand its payment processing solutions portfolio. Rick Cone, former VP of IT at SPS, and the SPS IT department, use DRBD and other open-source technologies for systems high availability.

## Business Challenge

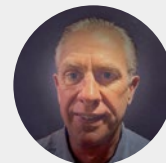
Payliance systems provide real-time payment processing and card services to its customers.

For this reason, it is critical that Payliance systems have 24x7 uptime. Not only does the nature of the service demand high availability (HA), in some cases complying with financial industry requirements makes HA essential.

## CASE STUDY



In the payments industry you must have 24x7 uptime (99.999%), providing services that have high performance for quick response times of transactions and reporting, including flexibility during maintenance windows to reduce downtime during those tasks.



**Rick Cone**

Vice President of  
Information Technology, Payliance

## CONTACT US

+1-877-4LINBIT (454-6248)  
sales@linbit.com

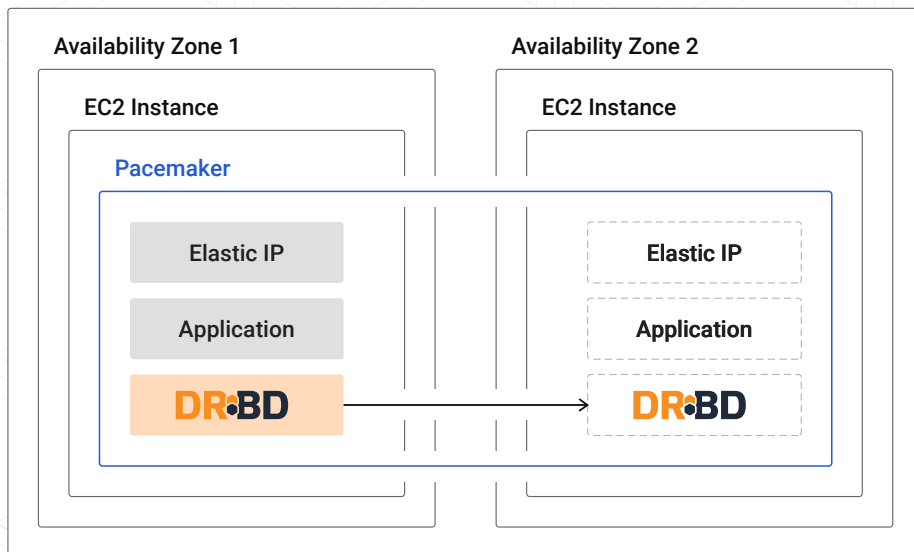
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+43-1-8178292-0

## Solution

.In 2010, after a trial evaluation period, SPS settled on a solution for high availability of services that uses DRBD®, Pacemaker, and Corosync. HA production systems worldwide have proven these open-source technologies successful over many years. This was a big reason for SPS choosing this solution, in addition to being able to run the software using common and supported Linux operating systems on commodity off-the-shelf hardware, and cloud service provider instance types, for cost savings.

### AWS Region



The diagram shows a single AWS Region with two EC2 instances, each in a different Availability Zone. Both instances run a Pacemaker stack that manages the application, an Elastic IP, and DRBD for data replication, ensuring high availability across the Availability Zones.

Payliance is also able to integrate its systems with Amazon Web Services (AWS) as a part of its disaster recovery plan. This is another reason DRBD is a trustworthy fit for the data replication part of HA: DRBD does not hold your data hostage. You have the flexibility to use LINBIT® HA or SDS software solutions on their own with your data, or integrate LINBIT solutions with other platforms using platform specific drivers or plugins. At all times, data remains accessible, portable, and recoverable, independent of LINBIT software.

- **High availability (HA)**  
solution using DRBD®, Pacemaker, and Corosync
- **Established reliability and cost-effectiveness**  
on Linux platforms
- **Integrates with AWS**  
for disaster recovery
- **Data flexibility and accessibility**

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