



**Service:** Data Protector Implementation

**Industry:** Transport

**Company:** Railways PSU

**CASE STUDY**

# Reviving the IT Infrastructure

*With a robust IT infrastructure and new backup solution in place, the customer, a subsidiary of Indian Railways, can now focus better on its operations and on developing new technologies*

The customer is a subsidiary of Indian Railways. It has been a front runner in the research and development of new technologies and concepts. The IT infrastructure of the company was established in the mid-90s and is distributed across three major areas. These are its Central Office, Regional Offices and Hubs. All stations across these regions report to their respective hubs.

As the IT infrastructure was very old, the organization wanted to go for a complete IT overhaul. They required a new, robust infrastructure, with an architecture that could offer several levels of redundancy and in-built event monitoring systems.

## Challenges

### Old IT infrastructure

The IT infrastructure of the customer was very old and was near End of Support from OEMs. It was unable to handle the production pressure, and needed a complete overhaul.

### No backup solution

Not having a backup solution in place was a big challenge for the customer. This meant that the huge amount of user data was always at risk.

### Relying on manual backup processes

In the absence of any backup solution, the customer relied heavily on manual backup processes through tools like ontape, onbar and tar.

### Risk of revenue loss

There was a constant threat to data, which could lead to possible loss of revenue. Taking manual backups also meant revenue loss on account of time and manpower wastage.

## Solution

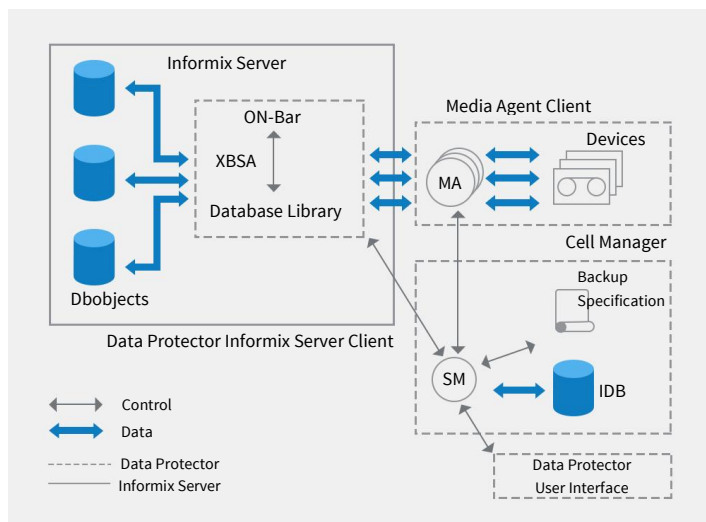
The new IT infrastructure is based on industry standard components. The best proven technology was used to ensure optimum power consumption, and fulfil the rack space and cooling requirements. The infrastructure is scalable enough to take care of future increases in the user load, even beyond the deployed capacity.

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*“With the new solution, backups are always available, so the possibility of data loss is now reduced to zero. This, in turn, ensures that there is no revenue loss either”*

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The backup solution chosen was HP Data Protector 6.11. This backup software automates several tasks for the client. Progression installed Data Protector 6.11 Cell Manager at the client's Central Office (CO), Regional Offices (RO) and Hubs. Using a mix of both onsite and remote implementation skills, the implementation was completed in the year 2011.



Data Protector integration with Informix for online backup

<b>SM</b>	Data protector session manager: backup session manager during backup and restore session manager during restore.
<b>ON-Bar</b>	On-bar executes backup and restore requests from data protector and from the Informix server command line.
<b>XBSA</b>	X/open backup services application programmer's interface, through which on-bar and data protector exchange control and data.
<b>Database Library</b>	A set of data protector executable that enable data transfer between an Informix instance and data protector.
<b>MA</b>	Data protector general media agent.
<b>Backup Specification</b>	A list of objects to be backed up, backup devices, and options to be used.
<b>IDB</b>	The data protector internal database.

## Benefits

Progression implemented the project in the year 2011. The new IT infrastructure has solved most of the challenges that the customer was facing. The real benefits of the project will be observed over a period of time.

### **Scheduled online backup**

Scheduled online backup means that full backups can be taken at a time when there would be least impact on production servers. Also, the backup window is minimized to prevent any impact on production.

### **Adequate scalability provisions**

The solution is scalable, and will be able to handle any increase in the user load, beyond the deployed capacity.

### **Pre-defined backup retention policy**

The pre-defined retention policy of two tier backup ensures availability of the backup at the time it is needed.

### **Backup jobs related alerts**

These alerts inform users about the status of backup jobs-about their success and failure, or about the need for intervention.

### **No data loss**

The new solution means that backups are always available, so the possibility of data loss is now reduced to zero. This, in turn, would ensure that there is no revenue loss either.

### **Automated media creation**

Automated media creation for offsite storage means savings on time and manpower, which translates into higher revenues.

## Why Progression

Progression Infonet has a proud history of successful project implementations. For complex projects, like in the case of the customer, it is one of only two companies in India with the skills needed to carry out a successful implementation.

Based on its prowess at execution, Progression has, for a long time, been an implementation partner with HP and with several other technology giants. It believes in identifying technologies for the future, and then investing in and nurturing the skill sets required for those technologies. Having certified Data Protector experts set the company apart demonstrate the potential business benefits of this deployment.

## About Progression

Ever since its inception in 1995, Progression has been at the forefront of technology delivering outstanding IT infrastructure services to create significant business value for its customers. Today, Progression is a leading IT infrastructure service provider and Managed Cloud company. Progression delivers a comprehensive range of cloud offerings, remote management services, and managed hosting and DR services to its valued customers across the world.

With team strength of 125 and growing, Progression has engineers trained and certified in designing, architecting, selling, servicing and optimizing computing infrastructure based on products from market leaders such as VMware, HP, Oracle and Microsoft. Progression is widely recognized for its passion to stay abreast of the latest technology innovations and breakthroughs. It has been a leader in Server virtualization/consolidation solutions, and builds Private Clouds and offers Public Cloud computing services for business critical applications.

Progression is ISO 27001:2013 certified and adheres to ITIL v3 standards in service delivery. The company has been recognized for its commitment to deliver the right solutions to customers through awards instituted by CRN, SME Channels, ITPV, VMware, and Hewlett Packard.

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