Products and Solutions for Indian Railways

THINVENT TECHNOLOGIES PVT. LTD. | AN ISO 9001:2008 COMPANY

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About Us

Founded in 2007 by a group of technocrats.

Providing IT solutions to large enterprises by creating a unique set of proprietary technologies that enable service delivery.

Focusing on customer delight by delivering the highest quality products and solutions.
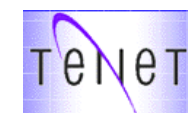
Dedicated team of well trained and experienced engineers for software development and testing.

Founding Team and their Background

Saurabh Jain, B. Tech. M. Tech. IIT Madras 2003

S B Sarin, B. Tech. M. Tech. IIT Madras 2003

Sadhna Jain, DoEACC B Level 2002
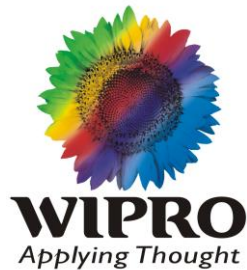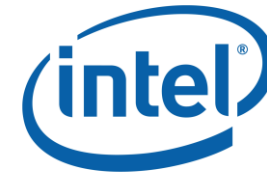
Our Customers

and many more…

Our R&D Team

First rate team consisting entirely of Engineering graduates.
Team has a breadth of experience in different domains and technologies.
Four members with international post graduate degrees.

Our Partner Network

Technology Partners

Certifications and Awards

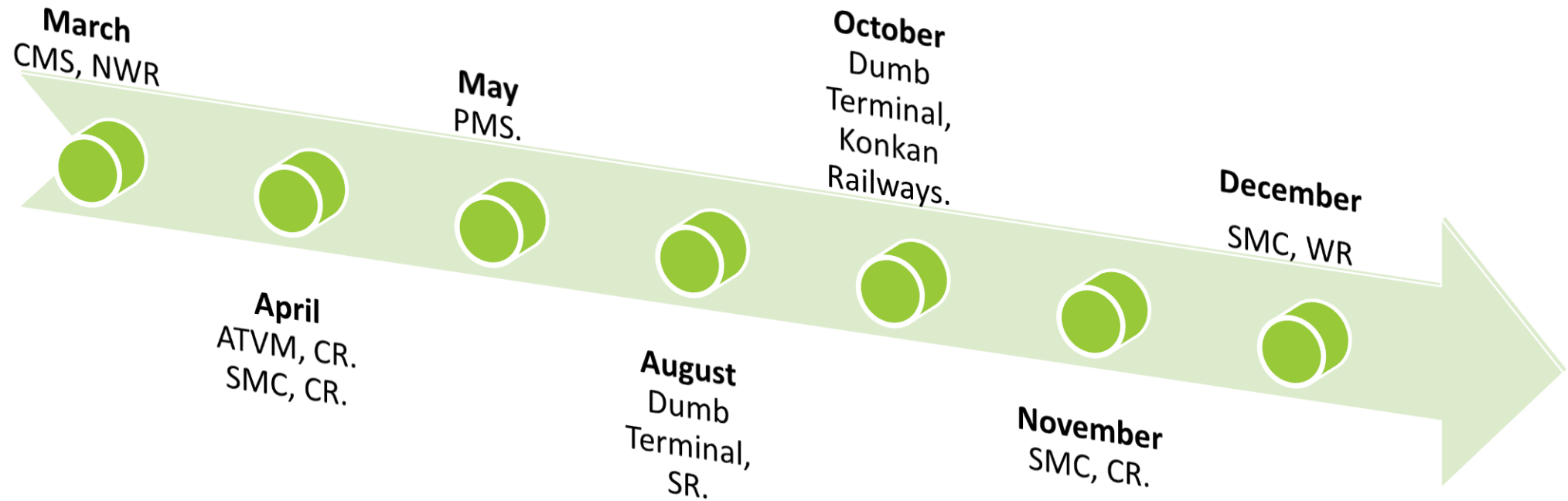# Our Journey with the Indian Railways

2008
CMS Phase I.
CMS Phase II.
CMS Biometrics and Breath Analyser.

2009
UTS Thin Client.

2010
Cash ATVM.
CMS Phase III.

2011
CMS Server Monitoring.
ATVM, WR.

2012
ATVM, SR.

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On the Fast Track in 2013!

March
CMS, NWR

April
ATVM, CR.
SMC, CR.

May
PMS.

August
Dumb
Terminal,
SR.

October
Dumb
Terminal,
Konkan
Railways.

November
SMC, CR.

December
SMC, WR
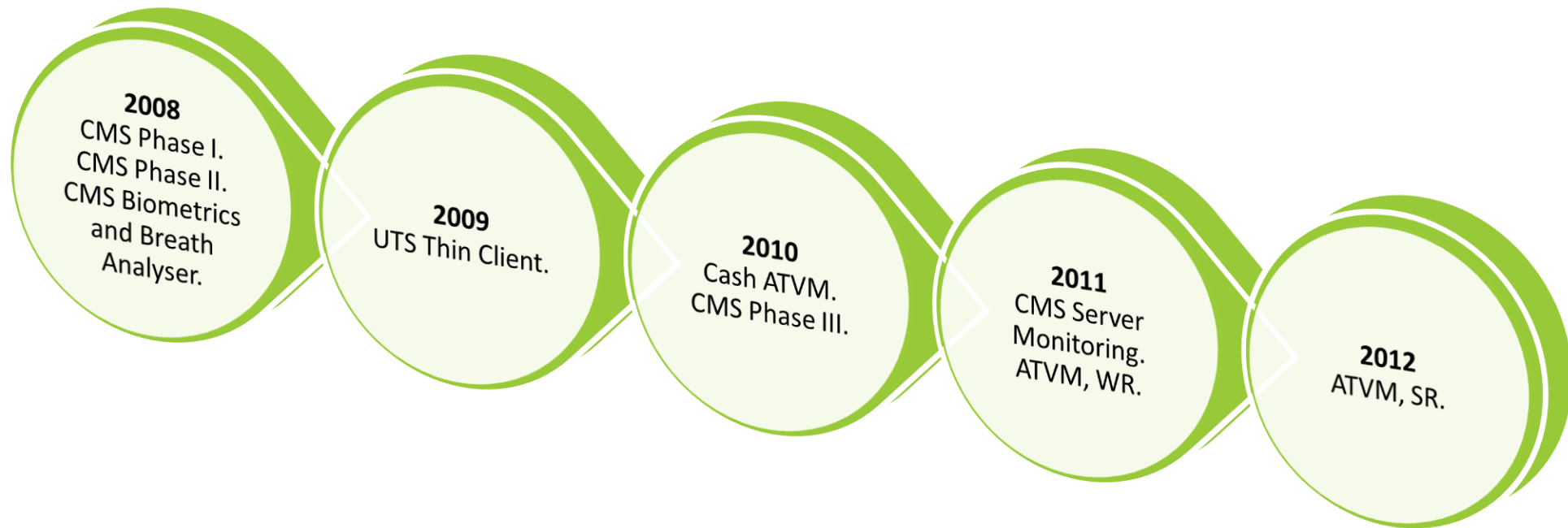
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Why is Thinvent the Preferred Software Vendor of Indian Railways?

Thinvent specialises in Embedded Linux firmware.

Only company with complete range of firmware across all Indian Railways IT projects – UTS, PRS, ATVM, CMS, PMS, NTES and SLAM.
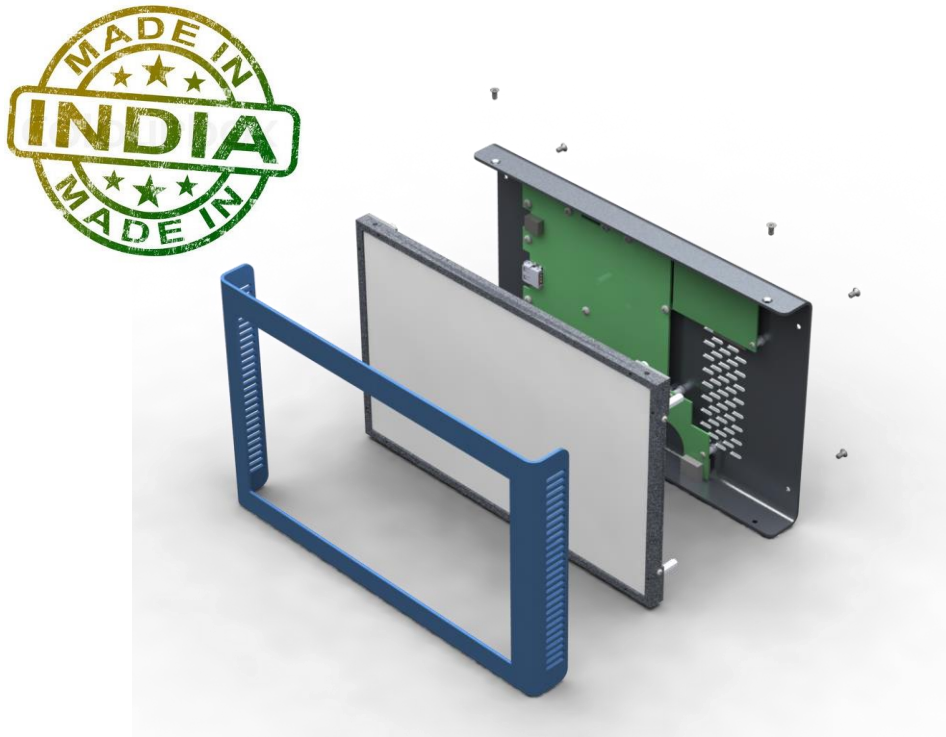
Smallest footprint. Fastest performance.

Latest Linux kernel and libraries.

Factory reset facility standard in all firmware.

Web based remote management and monitoring.

How does Thinvent make the best Hardware?

Only thin client manufacturer with in-house hardware and mechanical design facilities.

All our products are manufactured and tested in-house.

Every unit tested at 50^oC for 72 hours before despatch.

Built to withstand Indian heat, dust and power.

Solid steel design built to last for 10+ years! No plastics used in Railways product line.

Product Range: UTS Thin Client

Thinvent has developed a special Thin Client for the operation of offline CRIS UTS application. It supports:

1. CRIS UTS application running in both offline and online mode.

2. Server based UTS and PRS application running in terminal emulation mode.

Product is 100% compliant with CRIS specifications.

Blazing fast performance: 2.5x the processing speed, 2x the storage capacity of competition!

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Product Range: Dumb Terminal

Available as both All-in-one and Standalone.

Compatible with UTS, PRS, NTES, FOIS, etc.

Supports ticketing, charting, reporting, enquiry.

Drop-in replacement for old dumb terminals.

Special Railways keyboard as per DEC layout.

Future safe – supports switch connectivity.

Tested 100% compatible with all Railways printers and terminal servers.

Built-in clock, calendar and calculator.

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Product Range: ATVM and SMC

Turnkey solution for smart card based ticketing.

Built for 24x7x365 operation in hostile environment of open platform.

Thinvent is the **undisputed leader** in ATVM solutions for Indian Railways.

Successfully running across CR, WR and SR.

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Some of our Successful Railways Orders

CMS Phase I Firmware Licenses, CRIS	CMS Phase II Firmware Licenses, CRIS	Biometric and Breath Analyser Software for CMS, CRIS	UTS Thin Client Firmware License, CRIS	Development of Cash based ATVM, CRIS	CMS Phase III Firmware Licenses, CRIS
Deployment of Server Monitoring System for CMS, CRIS	ATVM Thin Clients, WR	ATVM Thin Clients, SR	SMC Thin Clients, CR	ATVM Thin Clients, CR	CMS Thin Clients, NWR
	PMS Firmware Licenses, CRIS	Dumb Terminals, SR	Dumb Terminals, Konkan Railways	SMC Thin Clients, WR	

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Case Study: Crew Management

Customer: CRIS.

Challenge: Develop a centralised system for 24x7 management of 100,000+ drivers and guards.

Location: 500+ remote locations across India.

User Base: 2,000+ kiosks and desktops.

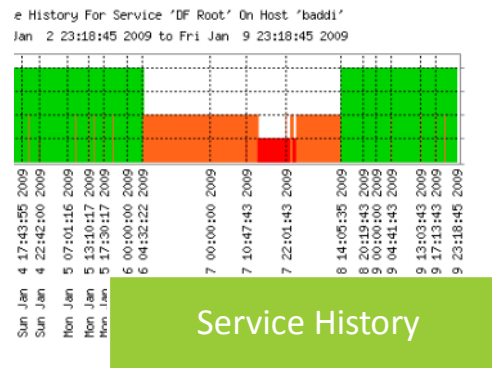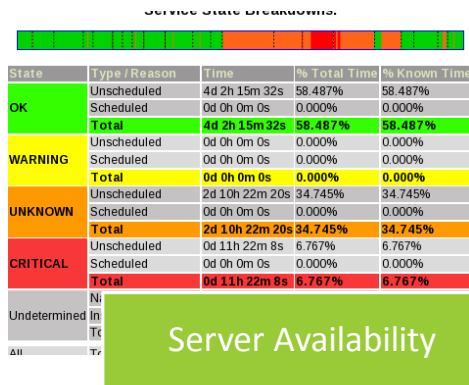Salient Features:

Biometrics for attendance and login.

Breath analyser for alcohol testing.

Touchscreen interface for easy operation.

Easy to use interface was developed since Railways staff was not computer literate.

Case Study: Server Monitoring

Server Availability

Service History

Resource Utilisation

Network Topology Maps

Customer: Indian Railways.

Challenge: Provide Monitoring System for mission critical servers in the CRIS datacentre.
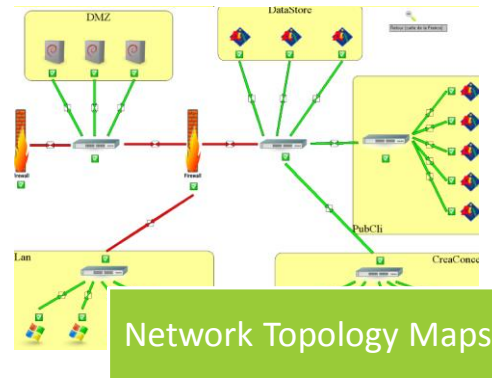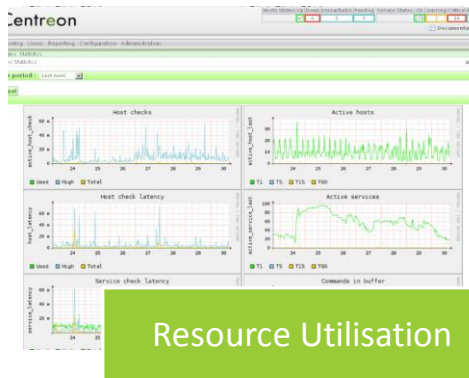
Complexity: Diverse range of servers – Windows Server, RedHat, WebSphere, IBM DB2, IBM AIX, Cisco switches.

Salient Features:

Web based software built on Linux + CGI-bin.

Continuous monitoring of all critical resources, with threshold and availability based alerting.

Alert despatch through email, SMS and web.

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Case Study: Dumb Terminal

Customer: Indian Railways

Problem: Develop a replacement for Railways' ageing fleet of dumb terminals.

- Built with latest technology: Available for next 10 years.

- Drop-in replacement: 100% compatible with existing legacy product.

- Reliable: Runs 24x7x365 handling the most mission critical application – train ticket sale.

- Stable: Handles peak load every morning during *tatkal* booking.

- Fast: Product prints tickets faster than any other terminal.

Successful: Thinvent has successfully developed the new product by leveraging its expertise in embedded systems. The system is performing very well and handling all kinds of Railways transactions with ease and reliability.

Get in touch

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THANK YOU

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