

THE TOTAL COST OF DOWNTIME IN INDUSTRIAL AUTOMATION

What you don't know about your availability risk may kill the efficiencies in your operations

Cost of Downtime

\$20B

IS THE TOTAL COST OF UNSCHEDULED DOWNTIME ACROSS PROCESS INDUSTRIES OR ALMOST

5%

OF OUTPUT VALUE

Unplanned downtime is a major source of significant extra costs, a productivity killer and destroyer of efficiencies.

10x

Unplanned outages result in 10 times the cost of scheduled downtime

5-10%

Increased costs (labor and other direct costs, delayed delivery and unfulfilled orders)

\$30k-\$50k/h

Typical cost in many industrial settings

\$250k+ /h

Top average cost per hour of downtime (Aberdeen Group)

2-5%

Lost production in petro-chemicals*

*Statistics from: Maintaining Virtual System Uptime in Today's Transforming IT Infrastructure, Aberdeen Group, Feb. 2016

\$10k/h

In a natural gas compression station

HOW MUCH DOES DOWNTIME COST YOUR OPERATIONS?



Assess your risk level: www.stratus.com/cost-of-downtime-calculator

Number of hours of operation at risk

15

HOURS+ / YR

3.6

DOWNTIME INCIDENTS PER YEAR

3-4 HRS

IS THE AVERAGE DOWNTIME PER INCIDENT

The difference in cost of unplanned downtime between 99% and 99.99(9)% availability is huge!

99% availability equals 87.7 hours of unscheduled downtime per year

\$874k

downtime cost at \$10k/h

\$4.4m

downtime cost at \$50k/h

99%

AVAILABILITY



99.95% availability equals 4.4h per year

\$44k

downtime cost at \$1k/h

\$218k

downtime cost at \$50k/h

99.95%

AVAILABILITY



99.999% availability equals 0.09h per year

\$0.9k

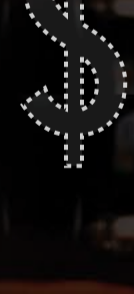
downtime cost at \$10k/h

\$4.4k

downtime cost at \$50k/h

99.999%

AVAILABILITY



How the cost of unplanned downtime adds up

Cost of unplanned downtime is big \$\$\$ and a big risk. It will negatively impact your bottom line ... and it's avoidable.



DIRECT COSTS OF INTERRUPTION

- Inability to deliver on customer orders and expectations
- Idle labor and overtime labor
- Production spoilage / waste
- Equipment damage and production-line repair
- Cost of restoring operations
- Cost of clean-up and disposal



OTHER COSTS OF DOWNTIME

- Negative publicity; damaged reputation
- Data loss
- Environmental harm
- Worker safety incidents
- Worker safety incidents
- Lost Customers
- Law Suits
- Overtime
- Spoilage

HOW MUCH UNPLANNED DOWNTIME IS ACCEPTABLE IN YOUR ENVIRONMENT?



Check now at www.stratus.com/mfg

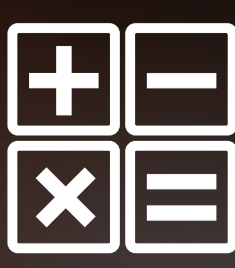
IMPLEMENTATION OF FAULT-TOLERANT APPLICATION AVAILABILITY MINIMIZES DOWNTIME AND DATA LOSS

Fault-tolerant systems engineered with redundant components specifically designed to prevent unplanned downtime are the better choice.



Stratus' solutions enable rapid deployment of always-on infrastructures, from enterprise servers to clouds, without any changes to your applications. Our products – software and platforms – combined with our people and services enable us to prevent downtime before it occurs and ensure uninterrupted 24 x 7 x 365 performance of essential business operations.

PREVENT DOWNTIME WITH THE RIGHT MODERN TECHNOLOGY



Assess your risk level: www.stratus.com/cost-of-downtime-calculator