



hp OpenView storage
data protector:
shifting the focus to
recovery

hp world #347

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challenges of
business continuity

introducing ...
data protector

proven functionality

for more information

trends



- continued focus on cost-effectiveness (shrinking budgets)
- consolidation of I.T. functions driving central I.T. to act as a service provider to their business units
- since September 11, business continuity has taken center of attention
- storage capacity keeps growing
- more applications becoming 24x365 mission-critical.
- downtime increasingly unacceptable

challenges



focus on recovery

- "my environment is always-on"
- "I'm worried about recovery times"
- "storage keeps growing, but my recovery speeds haven't improved. How do I protect the business from a lengthy outage?"
- "I need a recent image to recover to - I can't afford lengthy recovery from logs"

hp OpenView storage
data protector



hp storage software

delivering
new levels of recovery

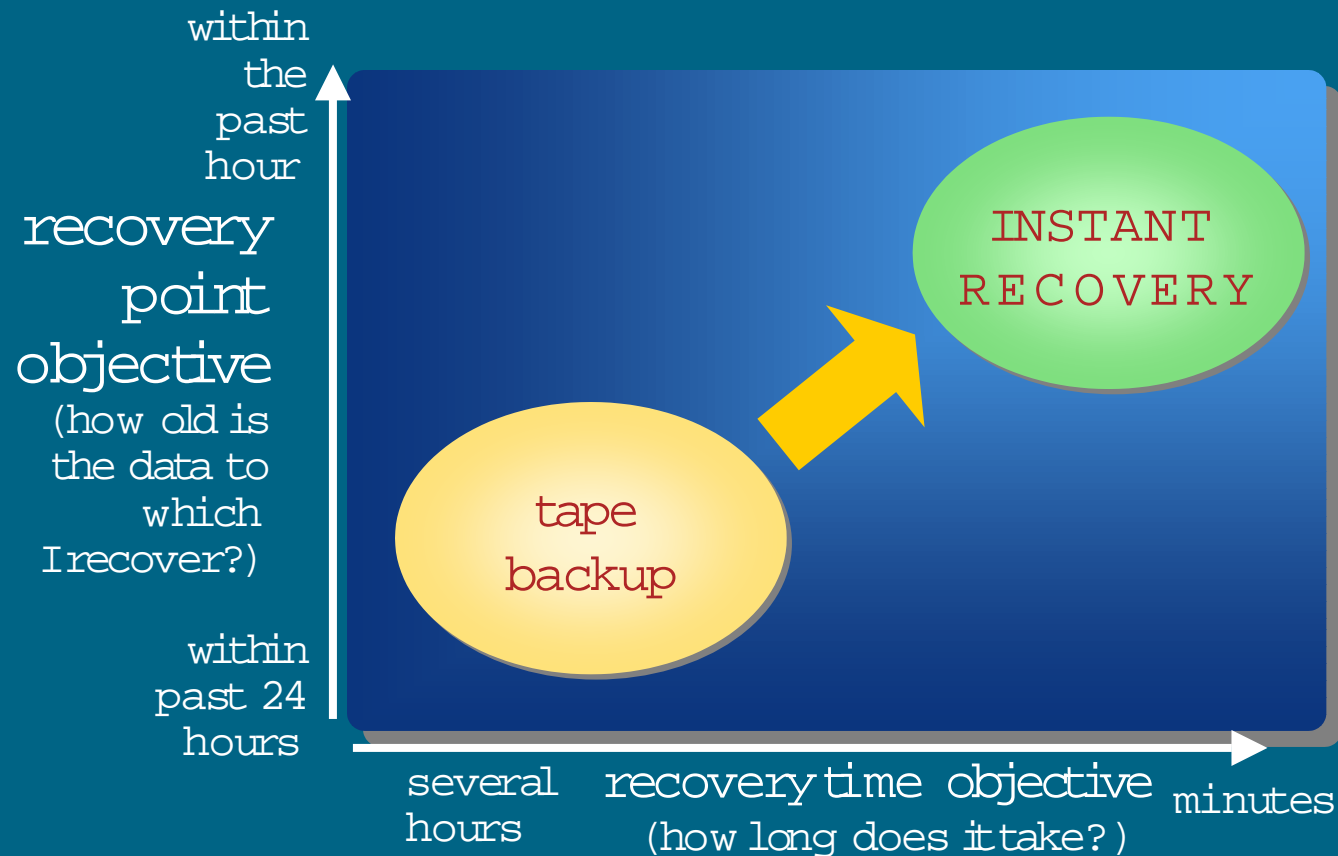
with a service-driven
management approach

measuring recovery performance:

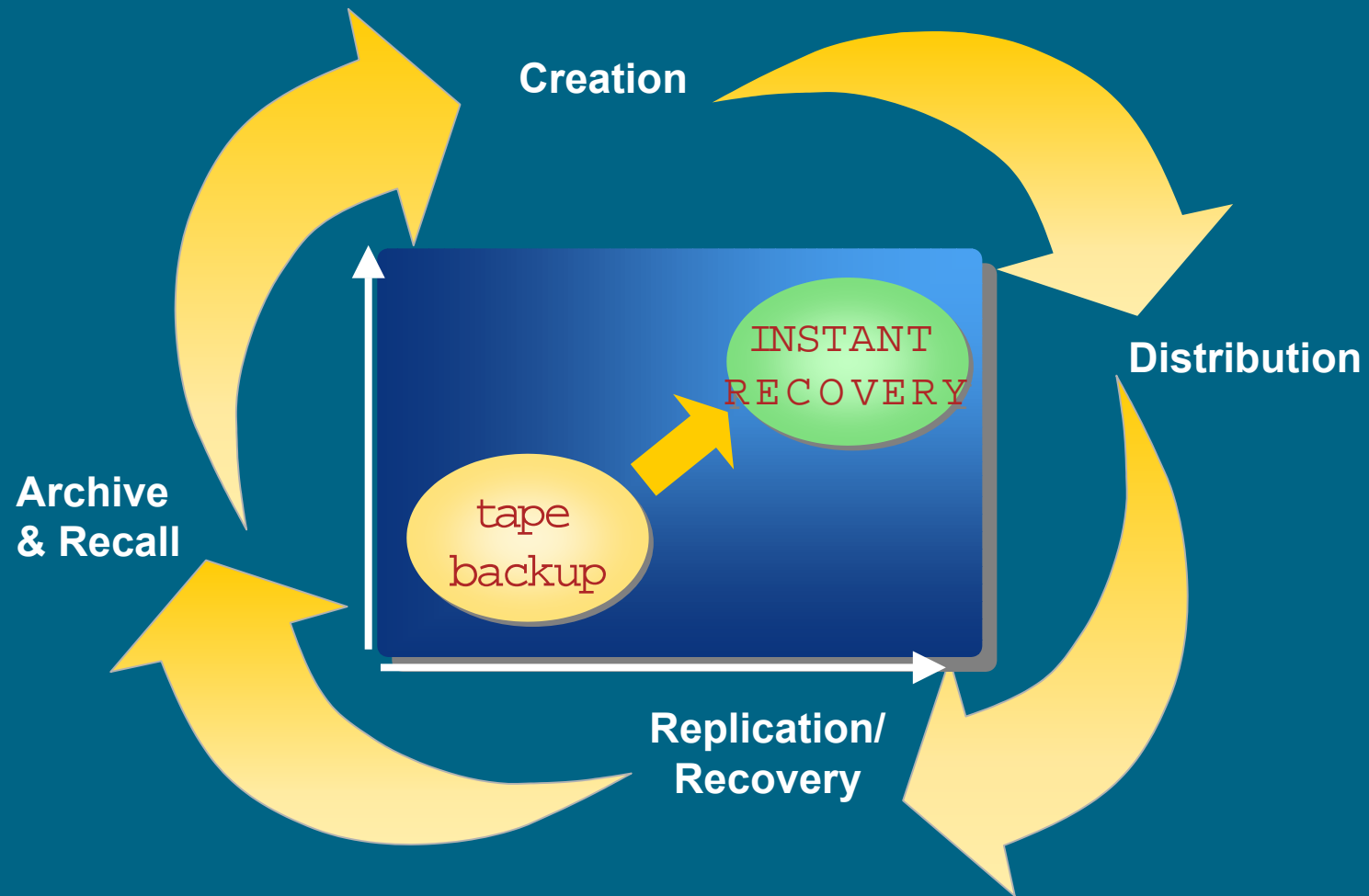
- ❖ Recovery Time
(how long does recovery take?)
- ❖ Recovery Point
(how old is the data to which I recover?)



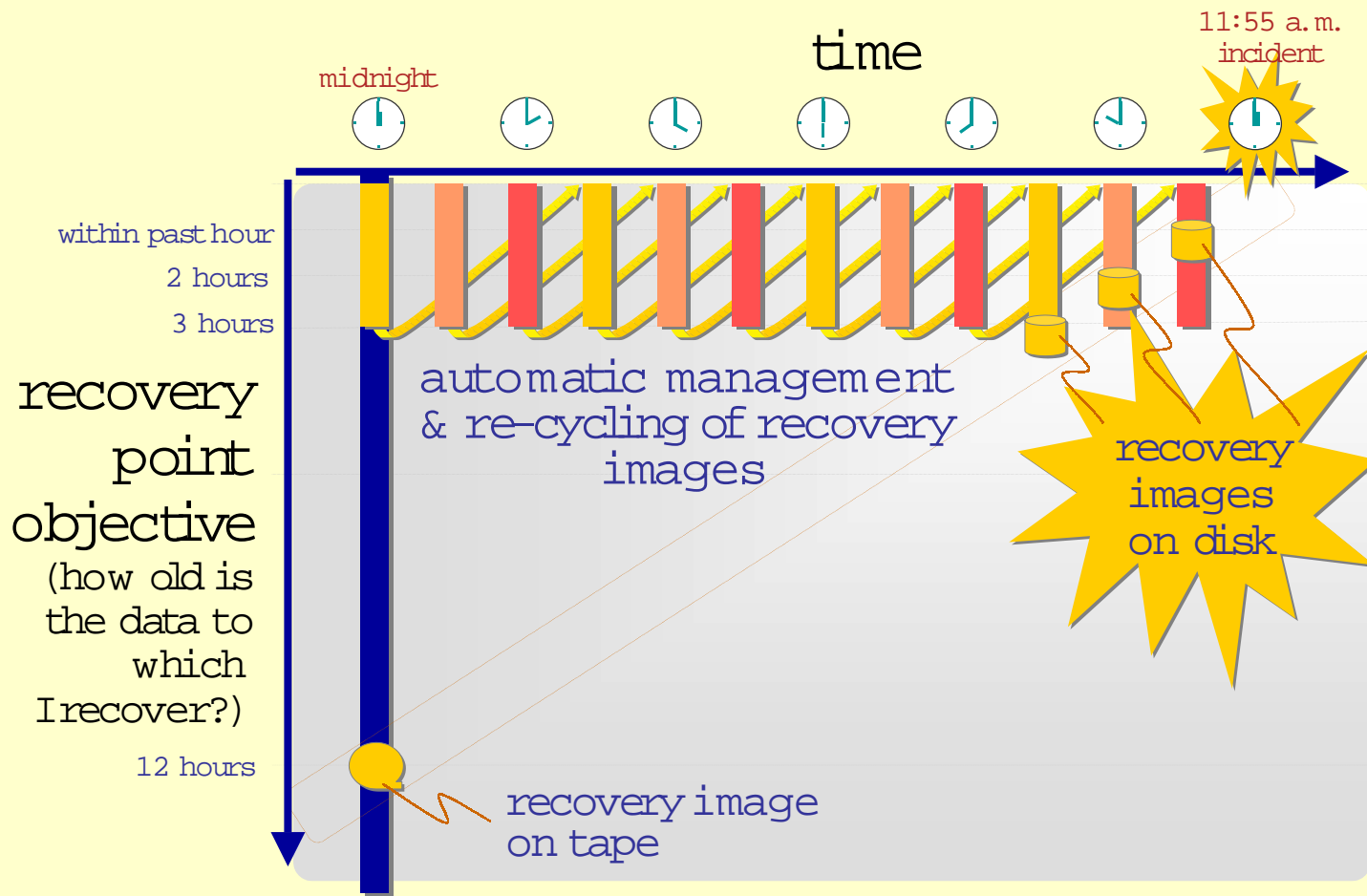
hp is shifting the focus from backup to recovery



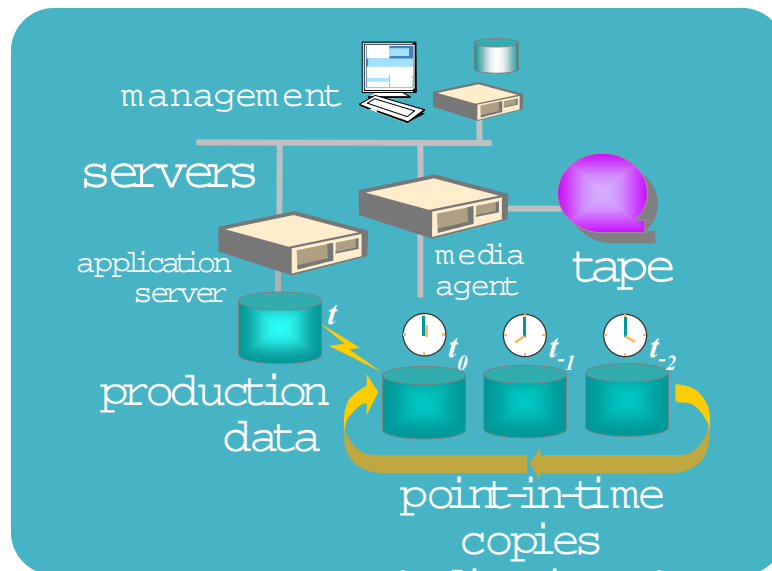
focus on recovery – the first step in the evolution to life cycle data management



data protector manages the full life cycle for
both disk and tape recovery images



Instant Recovery
enables recovery of
large data structures
in minutes, not hours.



In essence,
Instant Recovery
substitutes re-
synchronization of
disk copies for bulk
data movements from
tape

Justification:

- If data structures are large (e.g. tape recovery exceeds one hour), and
- cost of downtime is high, then

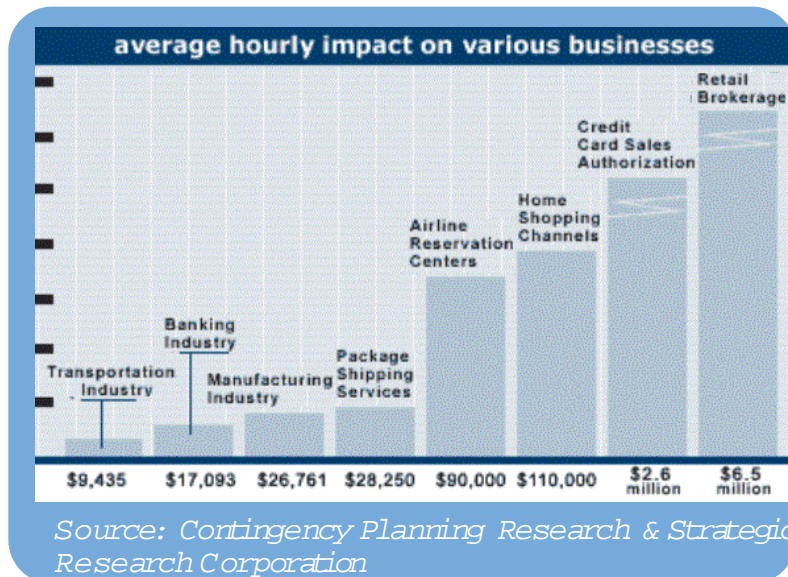
⇒ Instant Recovery and the necessary storage may be a well-justified investment.

Instant Recovery

key questions:

What is the business cost per hour of downtime for this system/application?

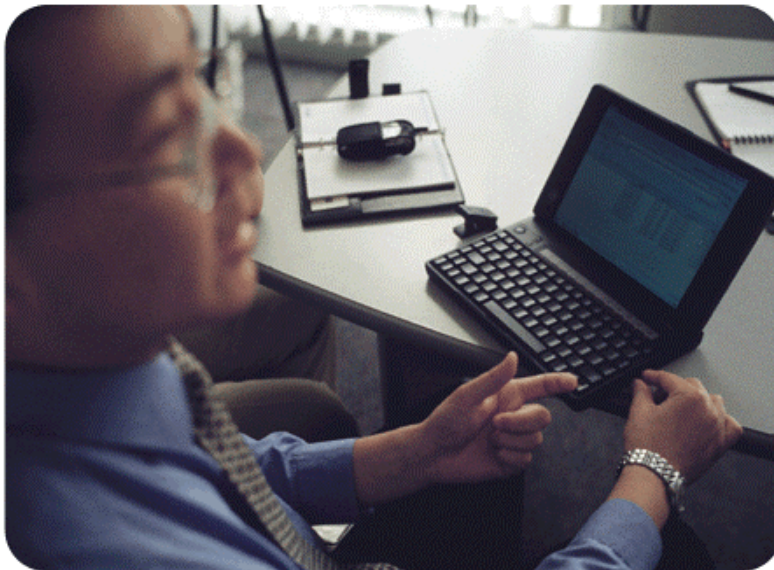
Examples shown at lower left



In the event of a fault, how long would it take to recover this information from tape?

"Terabyte per hour" tape recovery is industry benchmark. Roll-forward from logs takes more time.

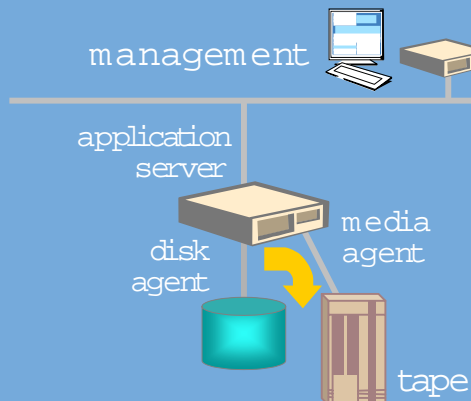
business value of instant recovery



- reduced direct cost of downtime
- increased service levels – achieved by eliminating risk of lengthy downtime
- operational efficiencies – cost savings achieved by consolidating previously-separate servers, applications – enabled by eliminating the need to plan for lengthy downtime
example: Exchange server consolidation

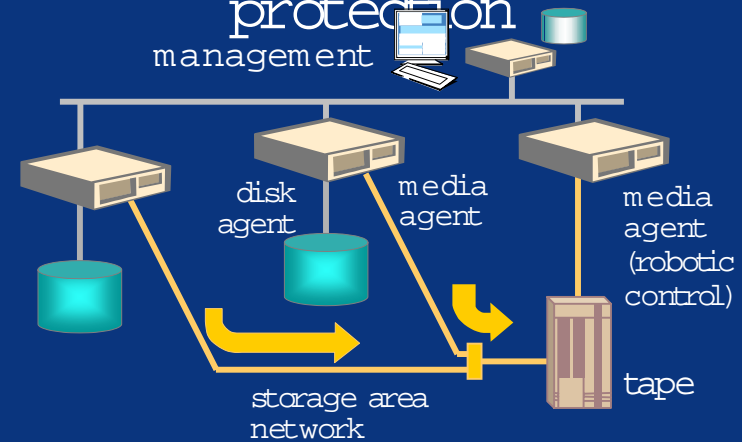
data protector – a range of protection alternatives

direct-attached protection

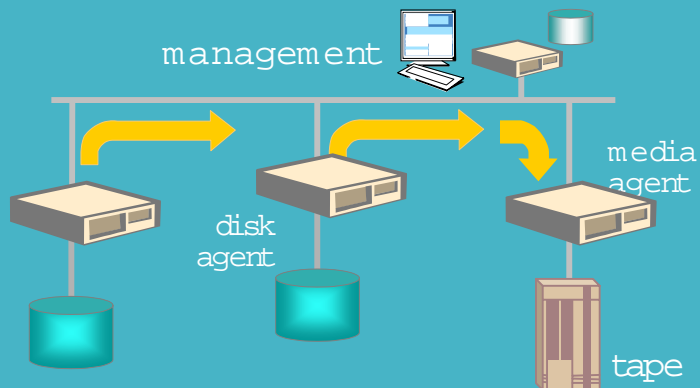


SAN (LAN-free)

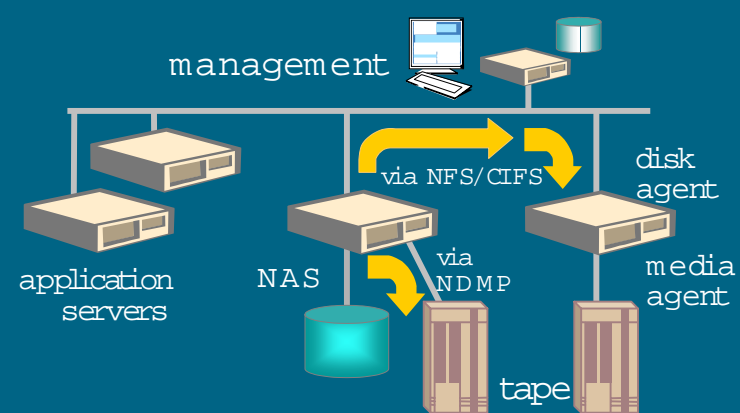
protection



network-based protection

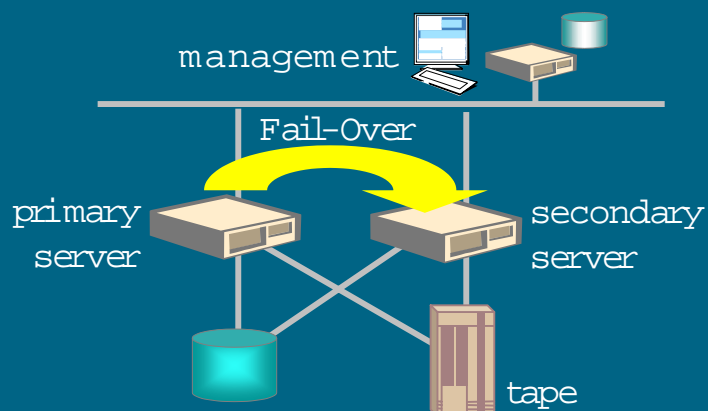


NAS (NDMP) protection

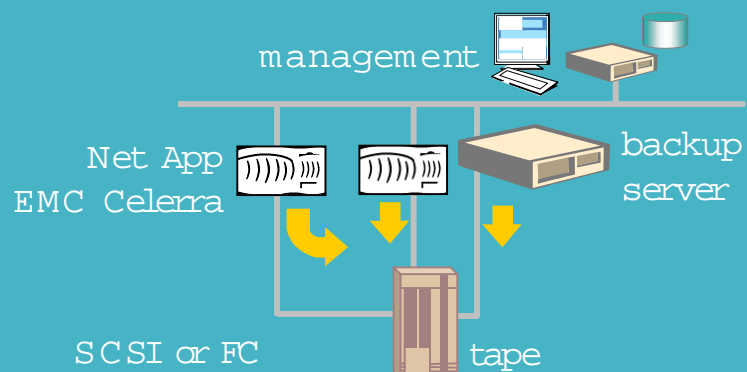


data protector supports a range of configurations

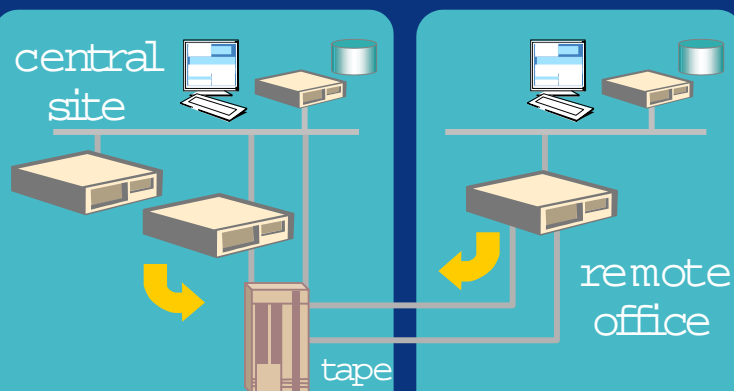
clustered environments



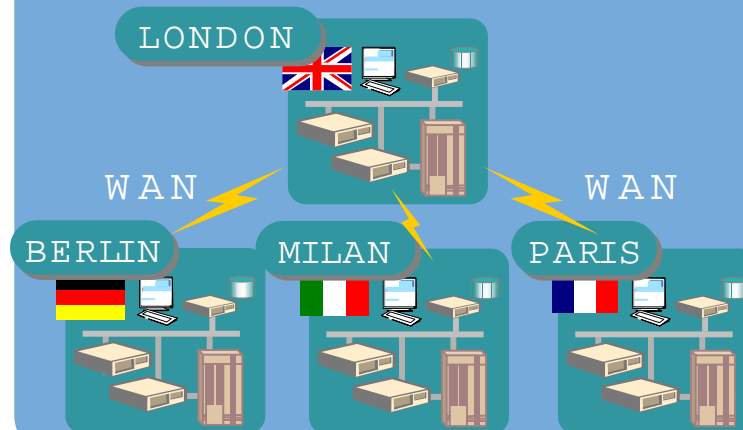
N D M P environments



library sharing

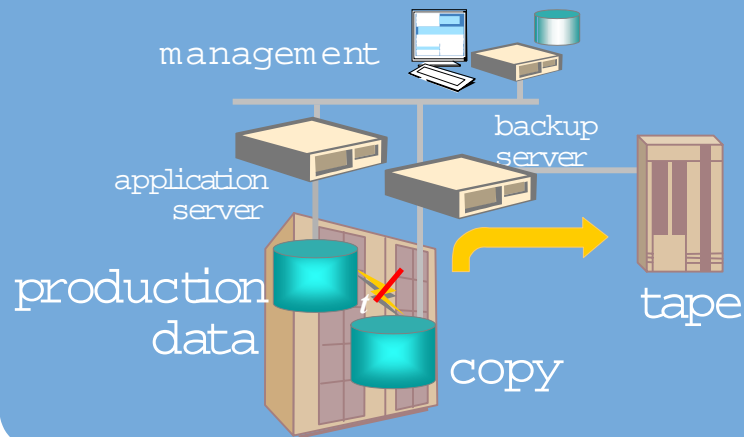


manager-of-managers

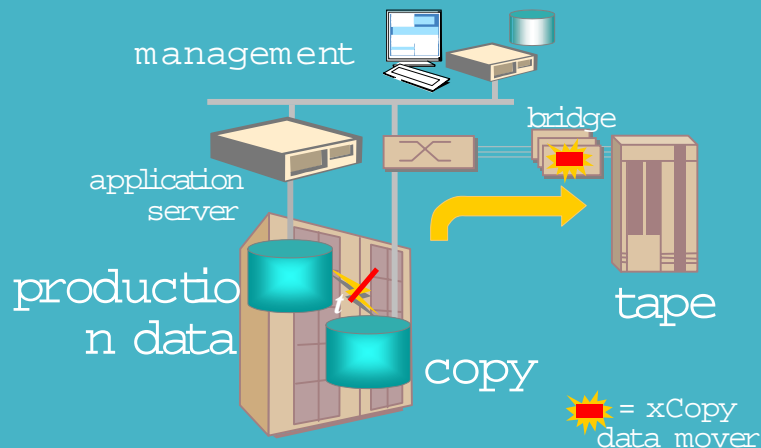


data protector offers high-availability protection

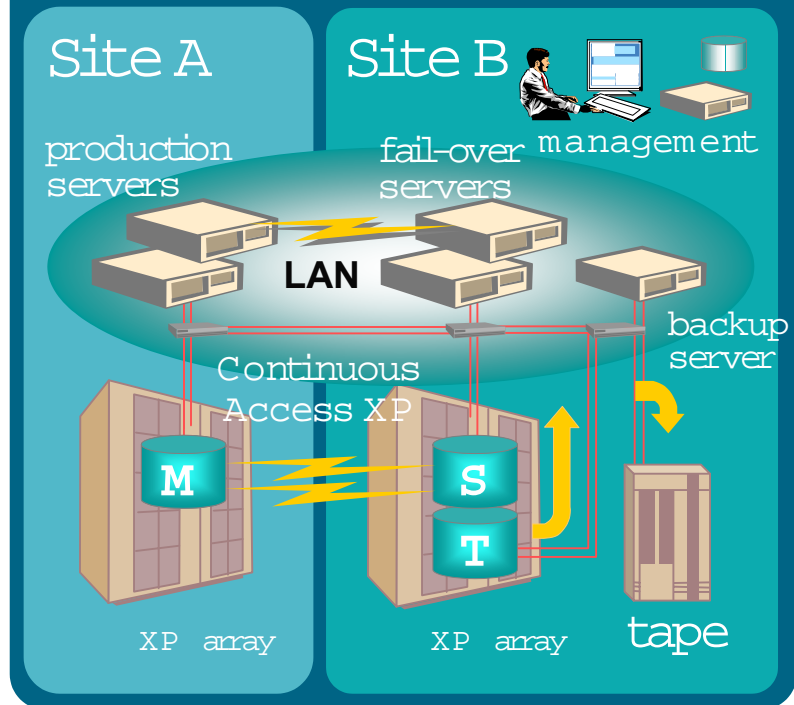
zero-downtime backup



direct (server-less) backup



disaster-tolerant configurations

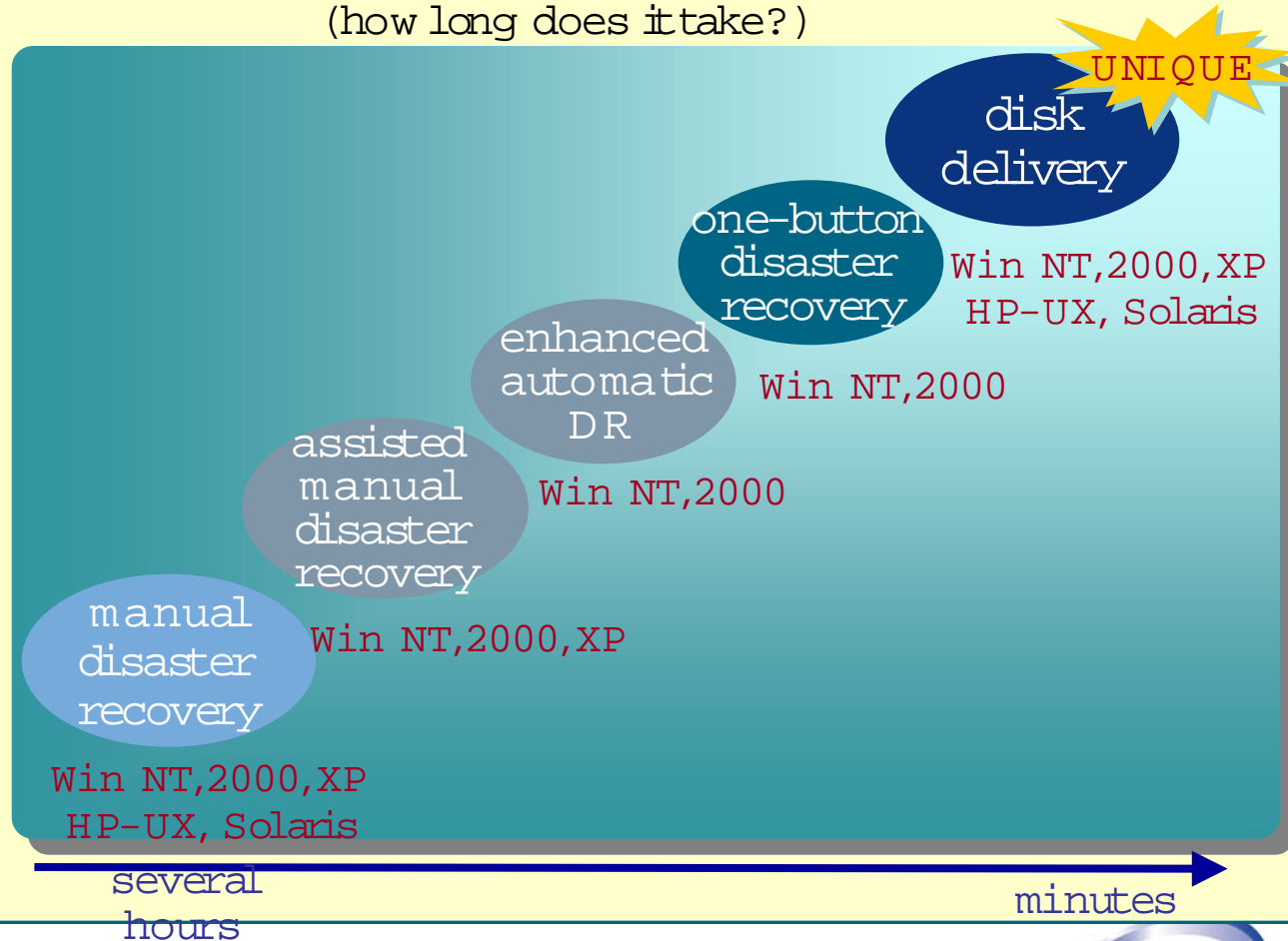


selected data protector high availability features are available for :

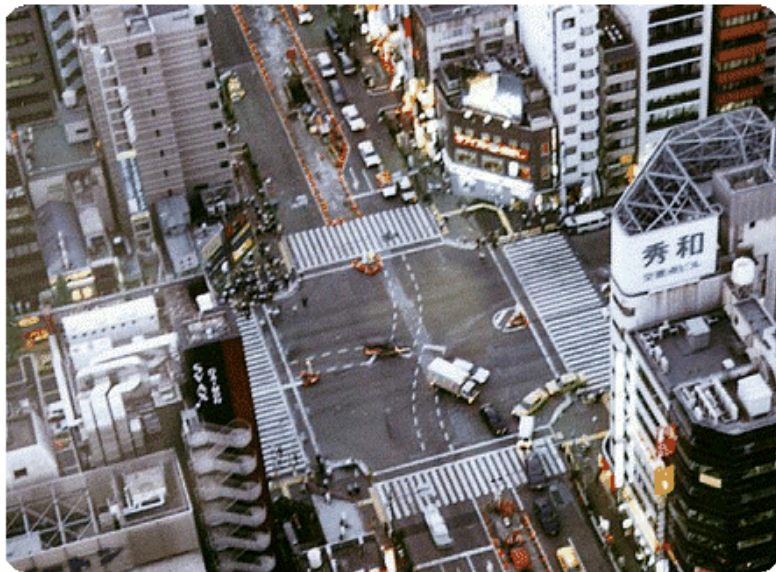
- HP XP arrays, HP VA arrays,
- EMC Symmetrix, HDS Lightning

data protector provides a full range of system disaster recovery options

recovery time objective
(how long does it take?)



Instant Recovery
changes the way
you think about
data protection



multiple levels of protection
enable tailoring service
levels to business needs.

UNIQUE

the only enterprise data
protection software today to
seamlessly integrate tape
as well as disk-based
recovery in a single tool, a
single interface

when a crisis happens, no
one wants to deal with
multiple tools

How do we manage multiple levels of protection?



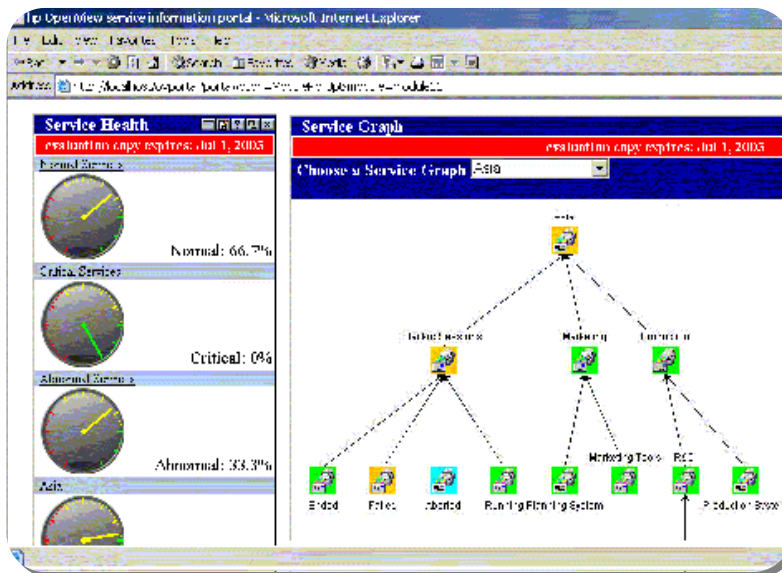
In a future storage utility, data protection is assumed – quality of recovery becomes the issue.

utility-oriented management will be required to manage multiple levels of service without increasing complexity. Focus on:

- The service we're delivering
- The metrics we achieve

Fortunately, OpenView has built a strong foundation ...

managing
data protection
as part of a
storage utility service



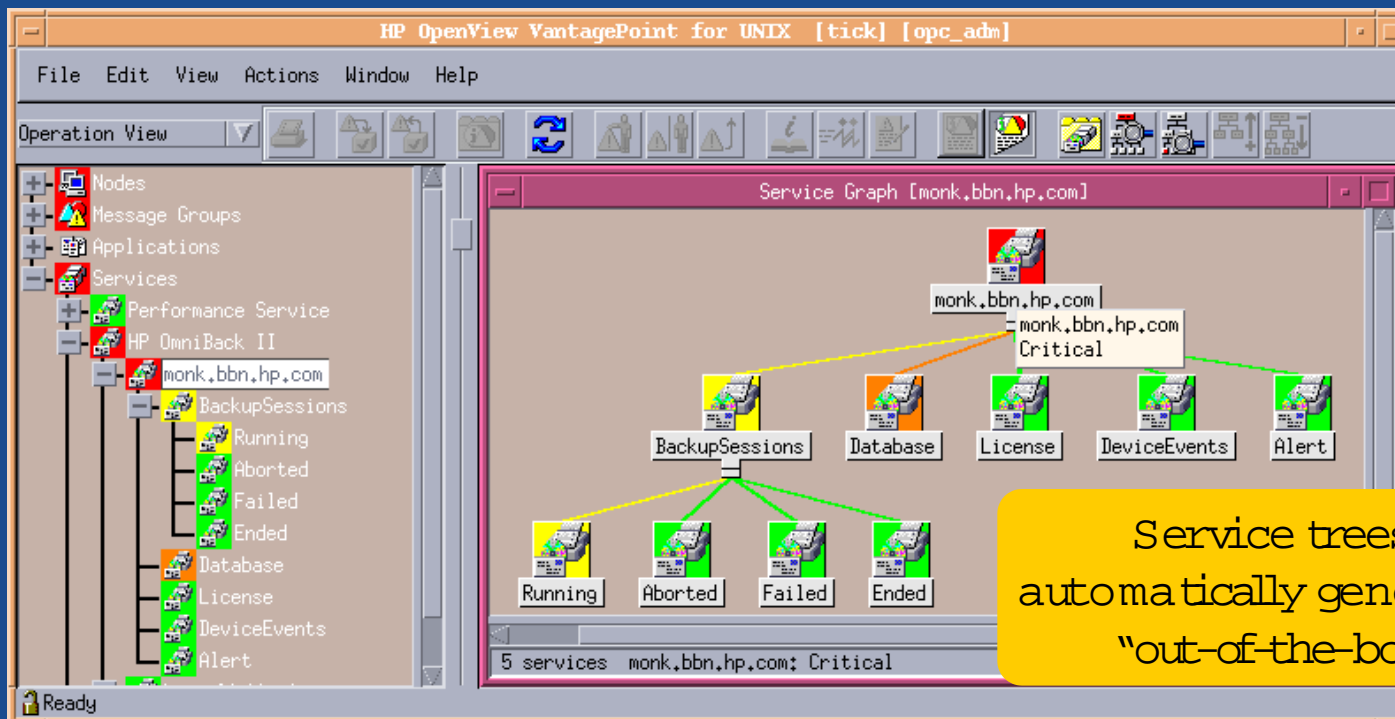
hp's vision:
storage is a utility service

breakthroughs in
productivity occur when
administrators focus on
managing the business
service, not individual
tasks or technologies

- business-oriented service views
- data protection service integrated into the application service (Oracle SAP Exchange)
- integrated helpdesk

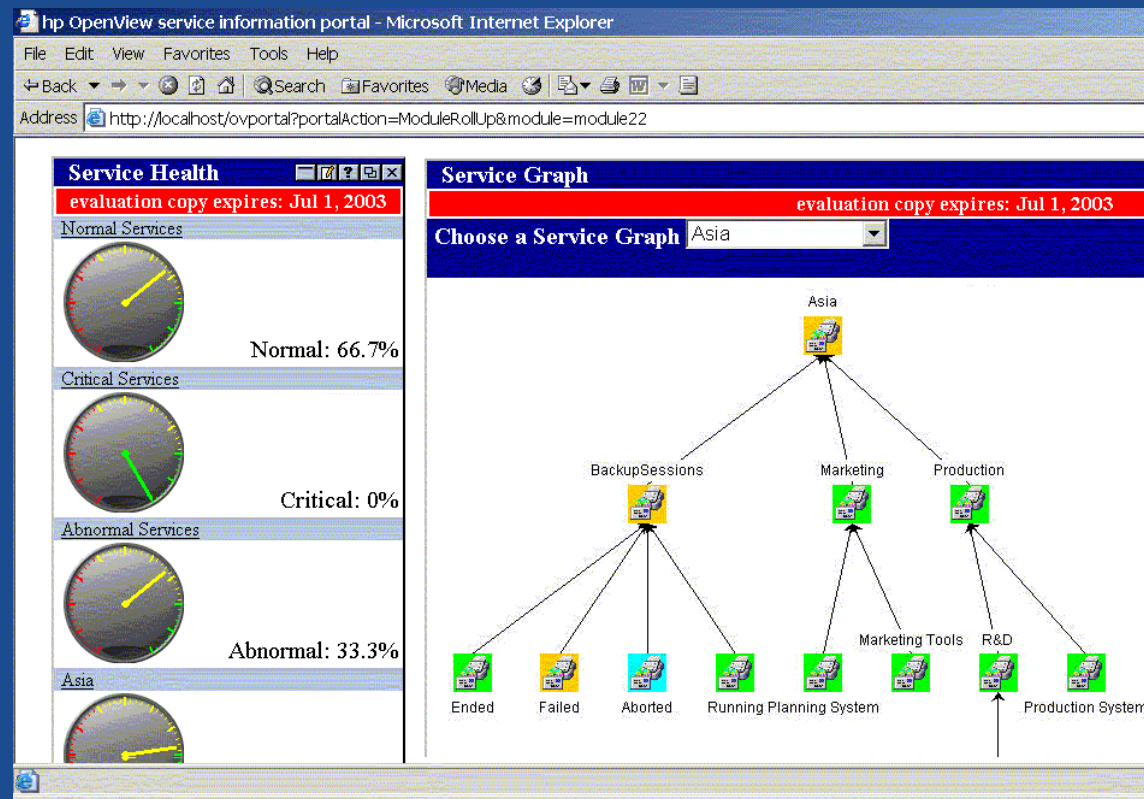
and utility h

data protection related to business services



- data protection service is modeled "out of the box"
- customization permits modeling service for individual clients
- Impact can be assessed; incidents prioritized & diagnosed quickly
- tracking and monitoring are automatic

users monitor storage utility via storage portal



- Freely-customizable portal permits monitoring storage utility; data protection parameters, statistics; enables drill-down.
- User-specific views enable clients to monitor their own

hp OpenView storage
data protector



hp storage software

delivering
new levels of recovery

with a service-driven
management approach

data protector
is the successor to
omniback II



Data Protector builds upon
the capabilities of
HP OpenView Omniback II,
for tape management,
backup, and disaster
recovery, and is fully
compatible with existing
Omniback tapes, scripts,
procedures

existing Omniback II
customers with support
contracts can upgrade to
the new product at
no charge.

for more
information



Data Protector

hp storage software

<http://www.openview.hp.com>

or contact:

your OpenView or storage
software specialist

questions – hp world

Please Visit:

hp OpenView storage data protector Booth

- Demonstrations of the product
- Discuss your specific data protection needs

Please attend:
other data protector presentations
here at the conference

