Exadata & Oracle Secure Backup (OSB)
Working Together for Azkar

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Employees: +3,000

Facilities: 91

Vehicles: 2,500

12,000,000 shipments / year

1,500,000 transactions / day

400 MM €

24 h company

Pick-up today → Delivery tomorrow
Exadata back-up enviroment

- Fast Recovery Area
  - Flashback logs
  - Control file
  - Autobackups
  - Archived logs

- Oracle Secure Backup
  - Administrative / Media Server

- Sun Fire x4270M2
  - InfiniBand
  - QDR
  - Network

- Brocade 300 8Gb Switch

- StorageTek SL500
  - 4 LTO-5 drives

- (7) Sun Fire x4170
  - Sun Solaris (3 physical / 13 cont)
  - SAP Oracle Linux (4)
  - Oracle DB + Applications

Data Guard

Exadata back-up environment
Exadata back-up strategy

- **Fast Recovery Area:**
  - Flashback logs
  - RTO = 10 m
  - RPO = “0”

- **Daily Full back-up (to tape) and archived logs to DB in ASM Exadata**
  - 2 days in archived logs
  - RTO = 2 h
  - RPO = 10 m

- **Daily Full back-up and archived logs to Axiom via NFS1**
  - 7 days archived logs
  - RTO = 2 h
  - RPO = 10 m

For the rest of DB
### Example

**PROBID:**
- HP Data Protector = 7h
- Back-up to disk = 5h
- OSB Back-up to tape = 1h 46m

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<th>DB</th>
<th>Size (GB)</th>
<th>Time</th>
<th>GB / sec</th>
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