

# Database as a Service at Time Warner Cable



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# About Me

- Lead Engineer, Cloud Application Services, Time Warner Cable
- 11 years at Time Warner Cable
- Over 20 Years of experience on Oracle Technologies, OEM Cloud Control 12c, Exadata, RAC, Data Guard, ASM, RMAN
- LinkedIn: <https://www.linkedin.com/pub/sridhar-ramireddy/13/151/3b7>



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# Our Company

- Time Warner Cable Inc. (NYSE: TWC) is among the largest providers of video, high-speed data and voice services in the United States, connecting 15 million customers to entertainment, information and each other. Time Warner Cable Business Class offers data, video and voice services to businesses of all sizes, cell tower backhaul services to wireless carriers and enterprise-class, cloud-enabled hosting, managed applications and services.
- Time Warner Cable serves customers in the following 29 states: Alabama, Arizona, California, Colorado, Hawaii, Idaho, Illinois, Indiana, Kansas, Kentucky, Maine, Massachusetts, Michigan, Missouri, Nebraska, New Hampshire, New Jersey, New Mexico, New York, North Carolina, Ohio, Pennsylvania, South Carolina, Tennessee, Texas, Virginia, Washington, West Virginia and Wisconsin.
- Time Warner Cable employs more than 50,000 people across the U.S.



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# Our Database Estate

- A Total of 1000+ Oracle databases, Sizes range from few GBs to few TBs
- Database versions – Oracle 10g, 11g and 12c
- OS: RHEL, Oracle Enterprise Linux, Solaris 9, 10, 11, AIX 5.x
- Hundreds of Servers (Oracle Solaris, SPARC, Oracle Linux)
- 15+ Exadata Machines; 85+ ODAs
- OEM – 10g, 11g and 12c



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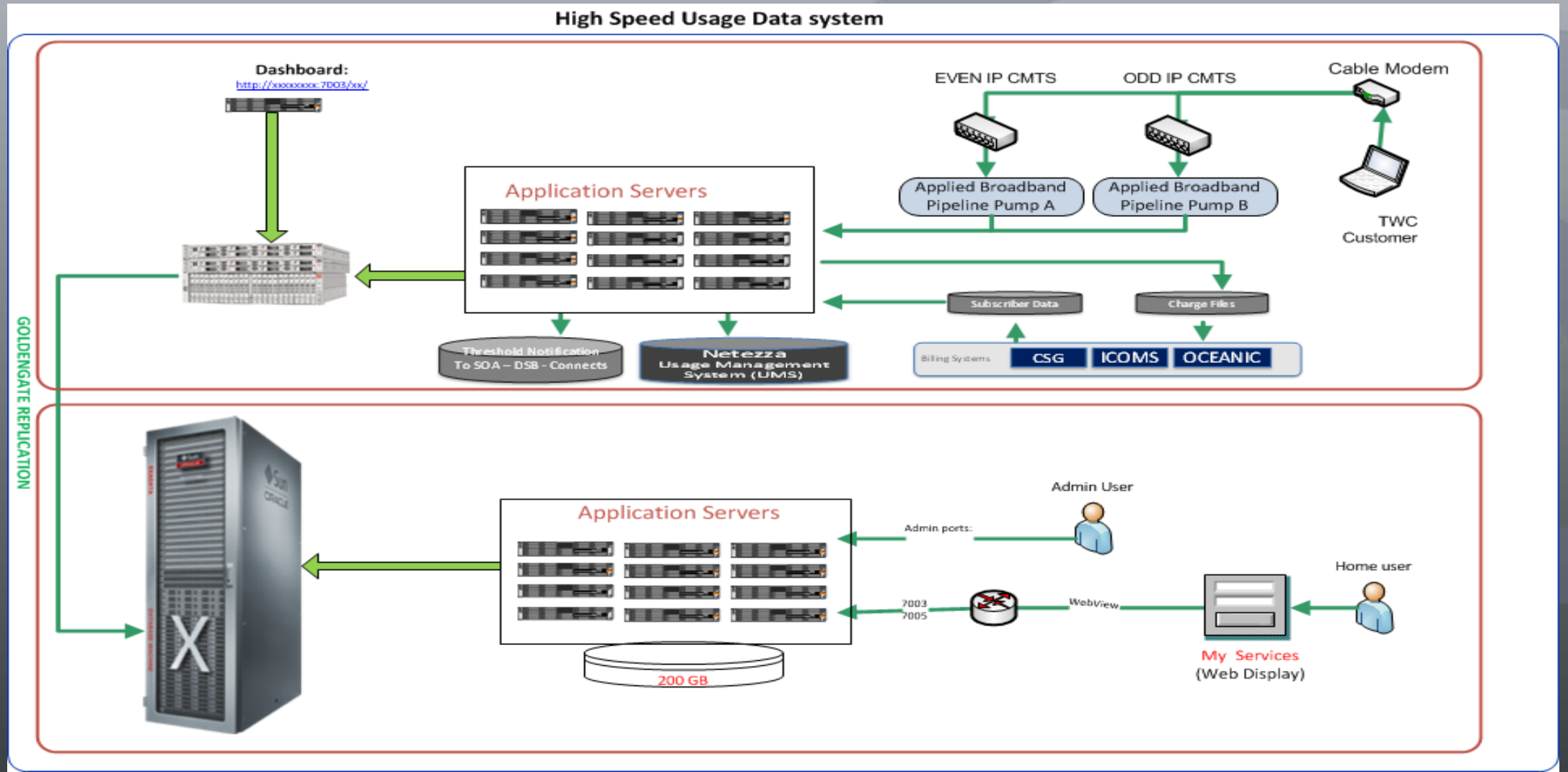
# Applications leveraging Exadata

- Enterprise Integrated Voice Response System
- Billing Systems
- High Speed Data Usage Based Pricing System
- Digital Phone Data Usage System
- Oracle Incentive Compensation

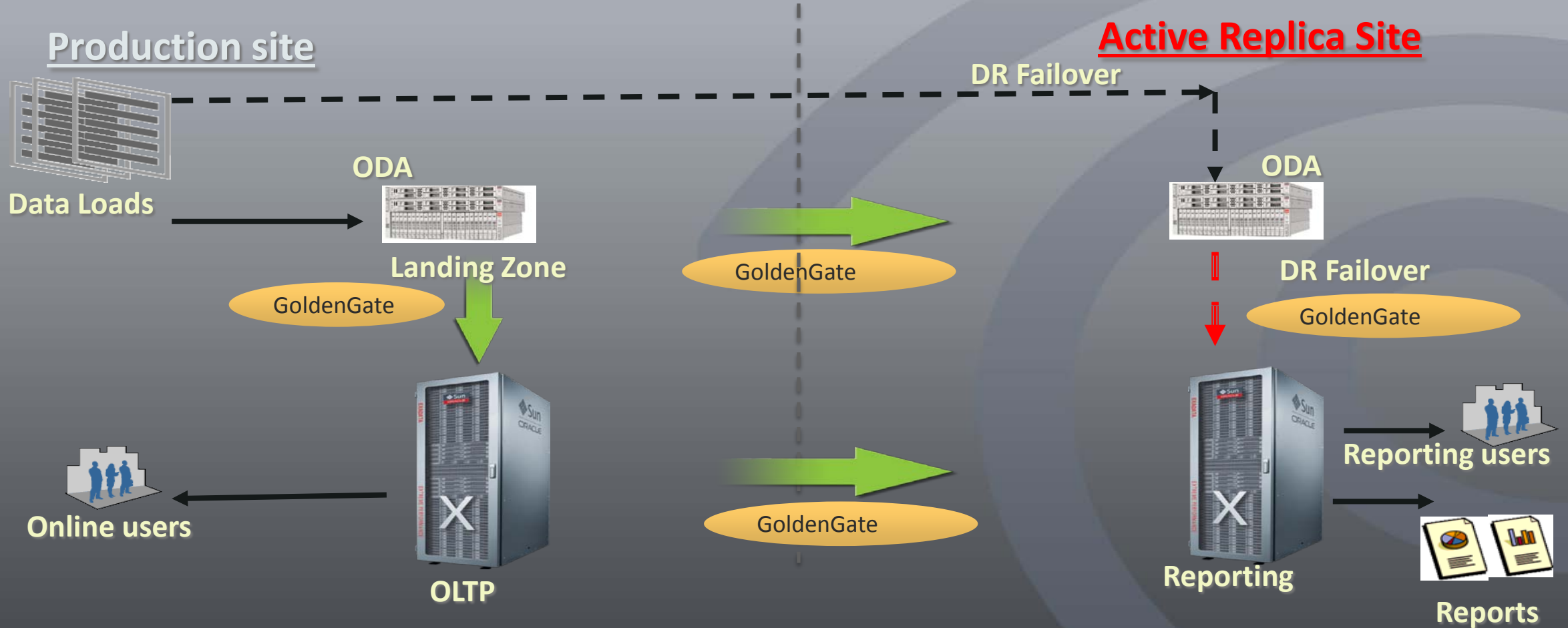


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# Typical Architecture Diagram



# Typical Architecture Diagram... Contd.



# Challenges

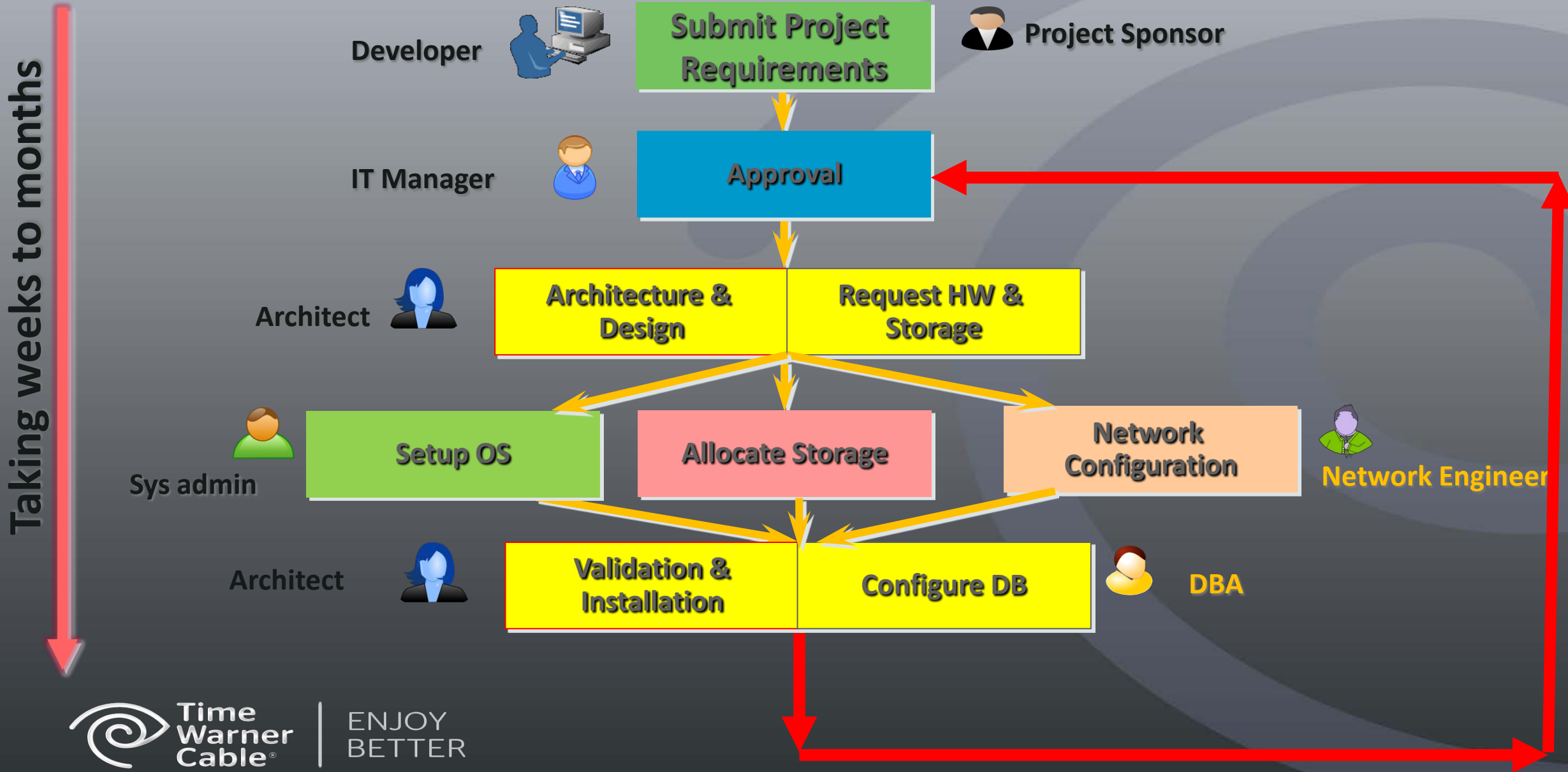
- **Agility**
  - 6+ months to deploy new applications
- **Long budgetary approval cycles**
  - Impact to time-sensitive applications
- **Provisioning**
  - Weeks to months to provision Oracle databases for testing new features/functionality, certifications, POC
- **Cloning**
  - Days to weeks to clone databases for non-PRD activities
- **Capacity**
  - Currently purchase peak capacity often leaving unused capacity



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# Current Database Provisioning process.



# Our Plan.

- Quick Provisioning
  - Oracle Exadata Cloud Service for new projects, POC and functional testing
    - Spin up environments in minutes
    - Tear down environments when not needed
    - Elasticity on demand
- Procurement
  - Revise purchasing approach for on-premise HW
  - Determine specific applications to target to cloud
- Financial
  - Transition from CAPEX to OPEX
  - Capacity on demand for lower costs



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