

Open Net BSS/OSS System Hardware and Third-party Software Description

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Introduction

The document describes hardware and third-party software for BSS/OSS solution. It is based on several assumptions, which are stated below in the descriptions of the components of the system.

General assumptions and exemptions

It is assumed that the hardware will be located at two geographically distinct locations and the distance between these locations is approximately 7-8 kilometers. A decision to further increase the distance will not influence the architecture.

It is assumed that both Primary and Disaster Recovery data centers already exist and have sufficient power and cooling capacity to host Open Net hardware.

These documents shall be provided by the proposer as part of the system deployment documentation.

Server hardware

Server hardware shall consist of 2 servers of commodity x86 architecture. Each of these servers will be running production workloads either in Primary or Disaster Recovery locations.

Servers with production workloads will be distributed between primary and disaster recovery sites. At each site, one server will be shared for BSS and OSS parts.

Storage

For resiliency and scalability, the proposed hardware shall contain two pieces of external shared data storage equipment, one located at Primary and another – at Disaster Recovery site. Servers are directly attached to the storage located at the same site.

It is assumed that the solution contains a relational database management system (RDBMS) that will host most of the data and will generate a large part of I/O activity. It is also assumed that contractor shall set-up data replication between the Primary and Disaster recovery instances of RDBMS. Also, the RDBMS system shall be an open-source system such as MySQL and Postgres SQL.

Networking

There is no networking hardware specified.

It is assumed that the existing connectivity between Primary and Disaster Recovery site will be used

3rd party software

Proposed 3rd party software list shall contain:

1. Virtualization environment (VMWare)

2. Guest operating systems (RedHat Enterprise Linux)

Third party software that will come with the actual BSS/OSS solution is expected to be specified by the proposer.

Solution high-level diagram

