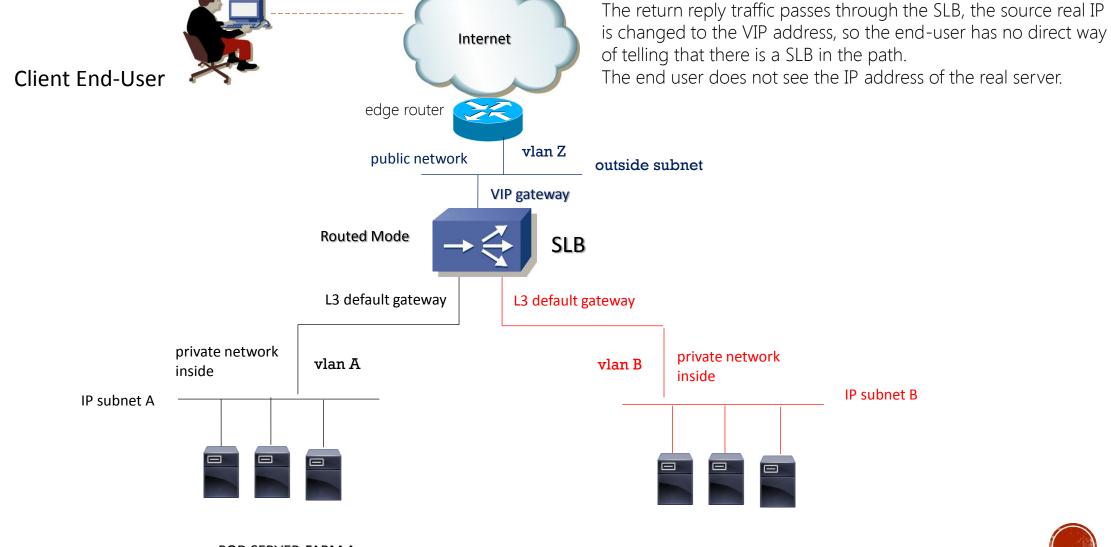
CISCO SLB AND FWSM NETWORK DESIGN

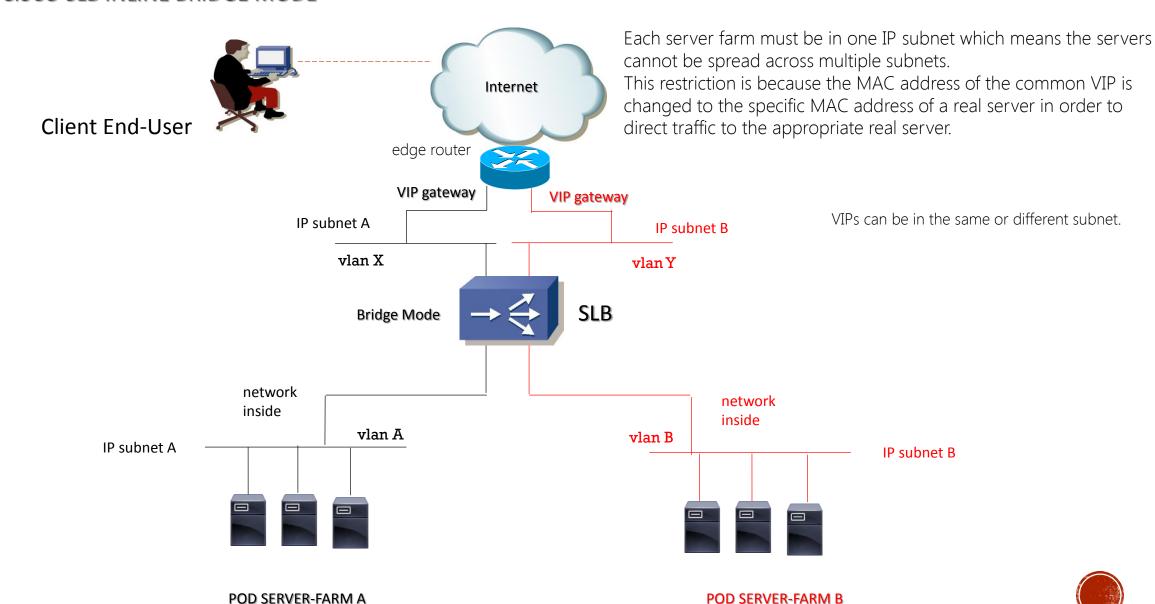
Massimiliano Sbaraglia

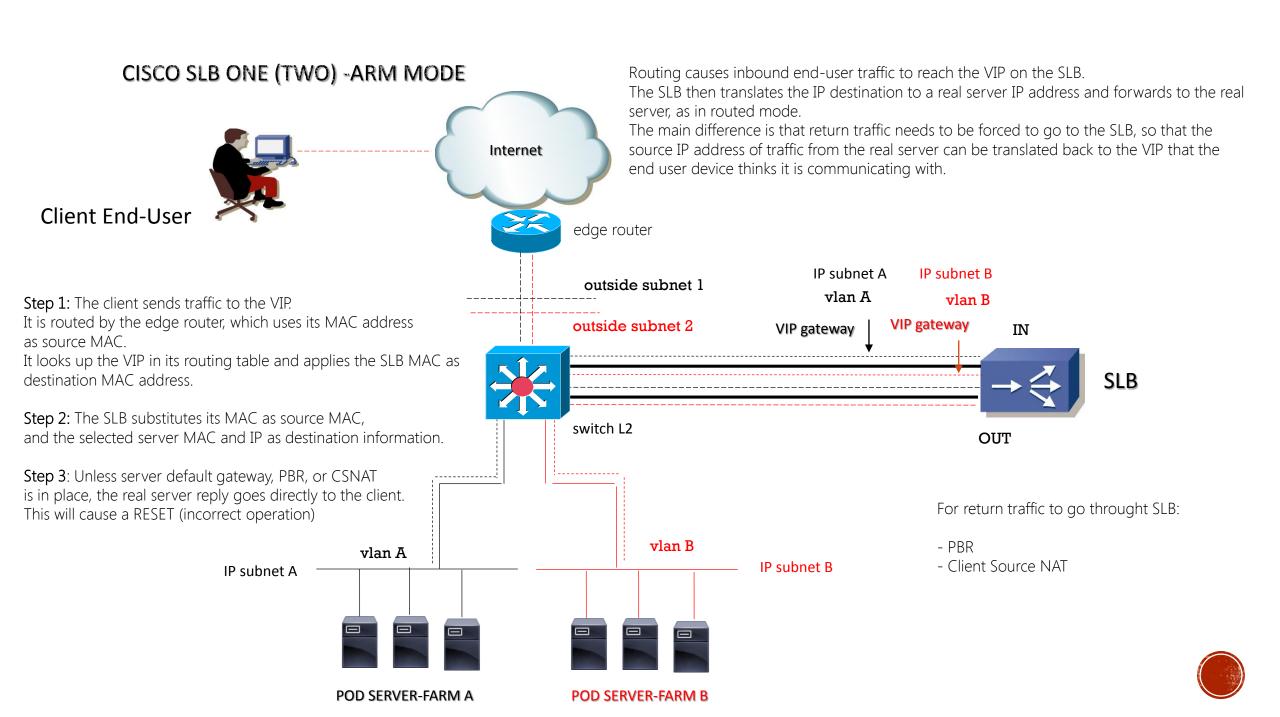


CISCO SLB ROUTED MODE



CISCO SLB INLINE BRIDGE MODE





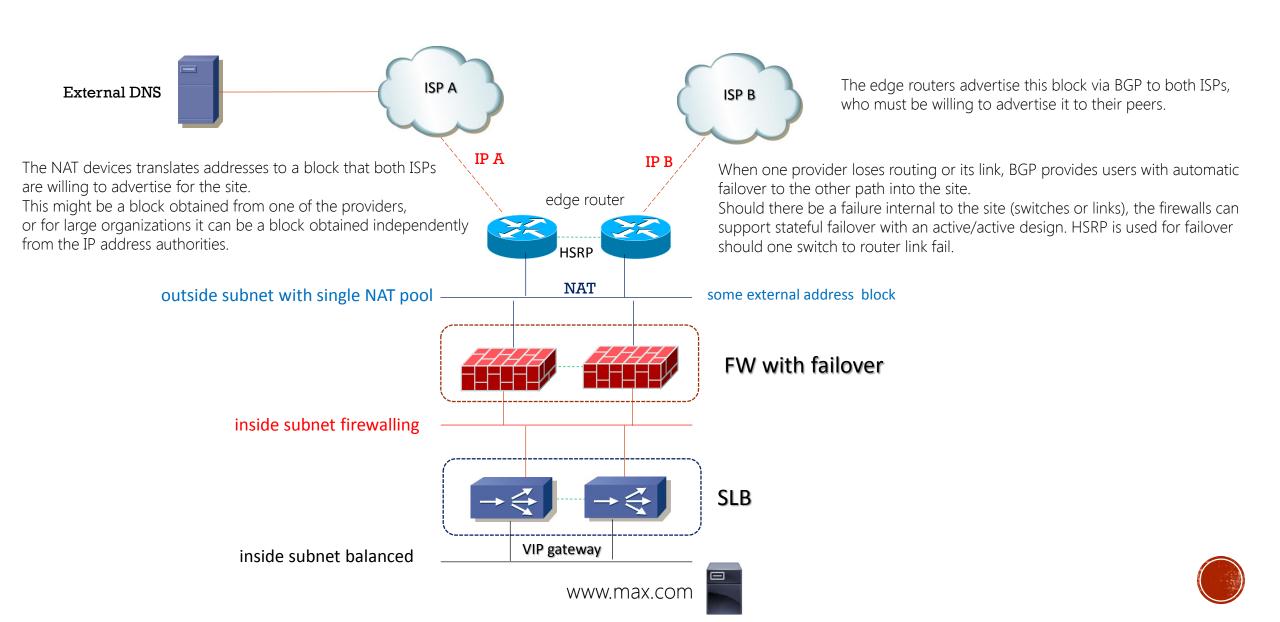
CISCO ONE FIREWALL PER ISP

resolving the domain name to addresses at the site that is down. External DNS ISP A External DNS ISP B failover between edge paths External DNS resolves the site name, www.max.com, to an is not stateful DNS resolves of VIP addresses from both ISP blocks. IP A address from either external address block IP B NAT edge path uses NAT to translate the inside address edge path uses NAT to translate the inside address edge router external address block for ISP outside subnet with NAT The main issue is that any failure on the ISP edge path means loss of session because the failover between edge paths is not stateful. FW Dual routers and connections per ISP can be used for more robust connectivity to each ISP. In this case, the non-stateful failover will only be used when connectivity inside subnet firewalling through one ISP is lost. SLB VIP gateway inside subnet balanced

www.max.com

The external DNS needs to be aware of site connectivity so that it can cease

CISCO STATEFUL FAILOVER FIREWALL WITH COMMON EXTERNAL PREFIX



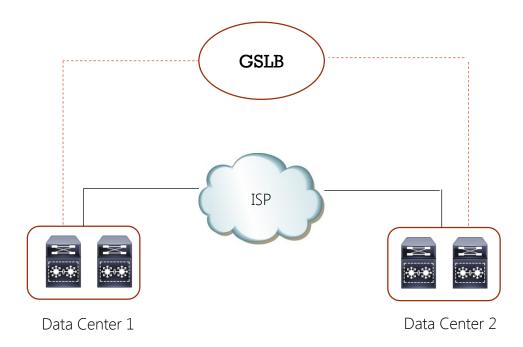
OFF-THE-AIR FAILOVER CISCO GSS GLOBAL SITE SELECTOR

To support the distributed data center design, applications need to be migrated to technology allowing active/active hot databases as opposed to active database and mirrored hot spare database.

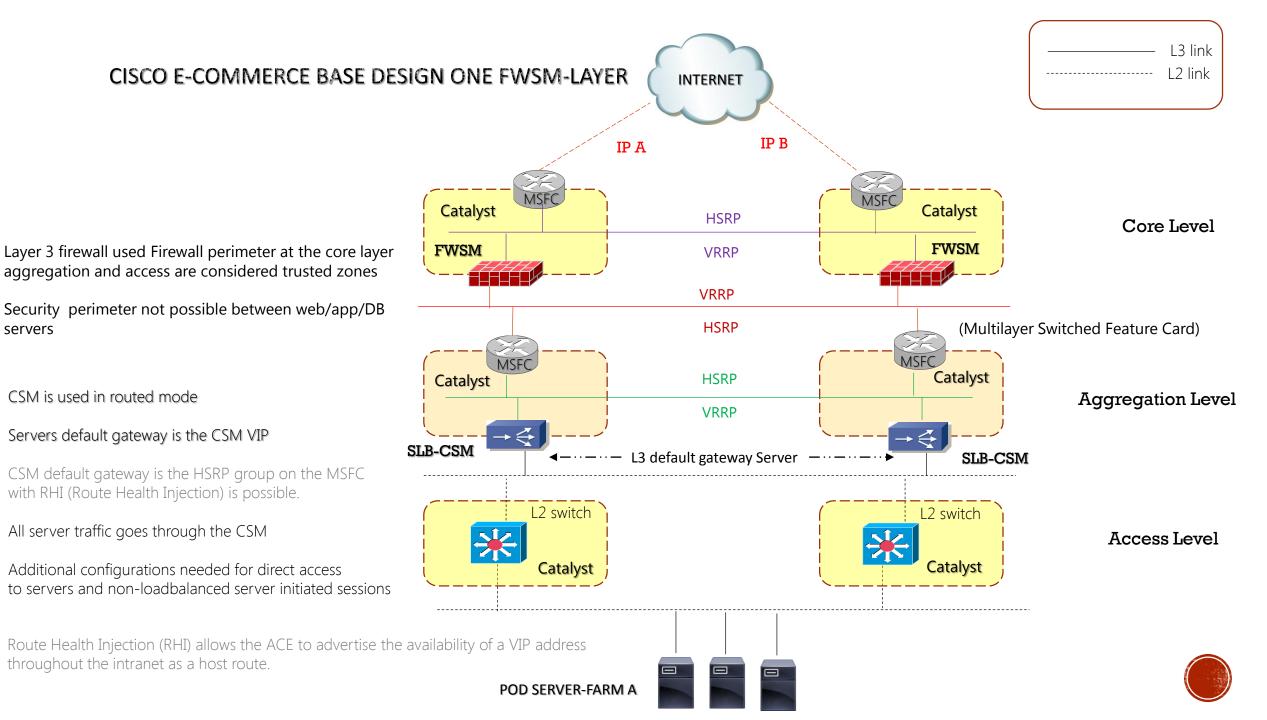
Another key element when using distributed sites is technology to detect when a site is "off the air" and should be failed over. The devices that detect the need for failover andrespond must be external to the two sites. This technology can be an external service, or can be provided by equipment at one or more Service Provider co-location facilities.

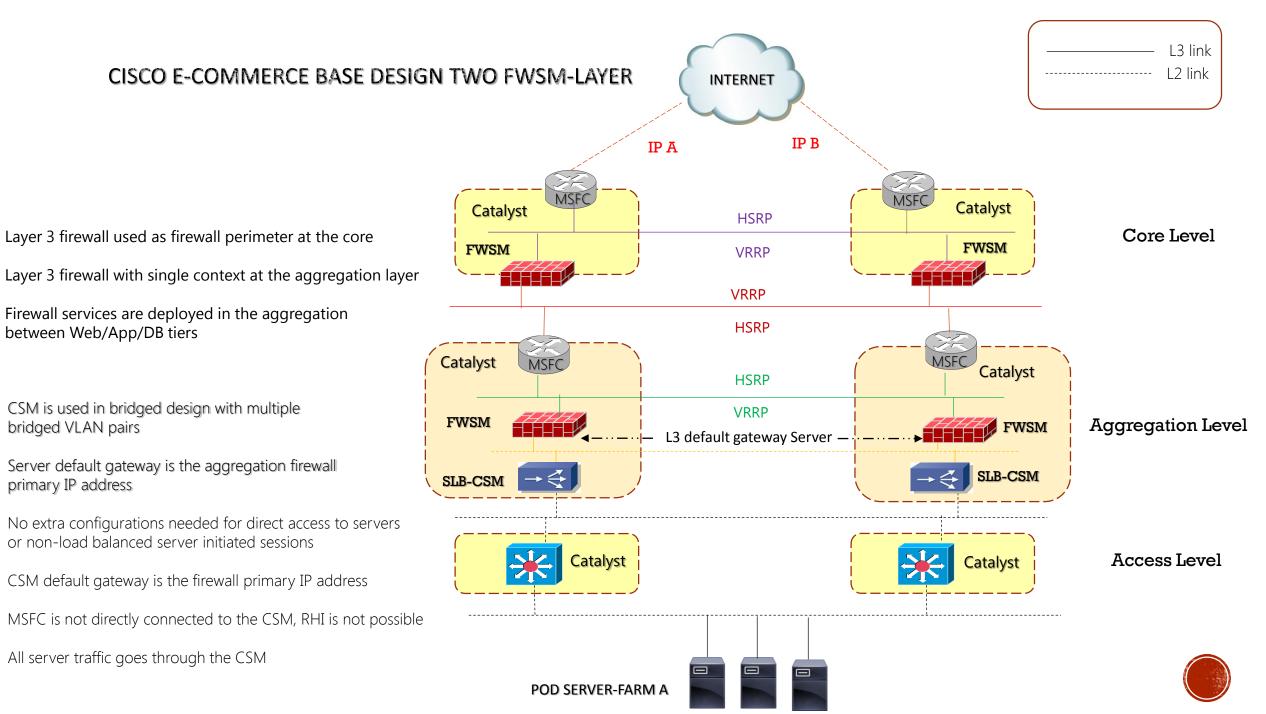
The "off the air" detection might be provided by an external service such Akamai or Ultra DNS; it might also be provided using the Cisco Global Site Selector (GSS) technology, typically within a provider colocation facility.

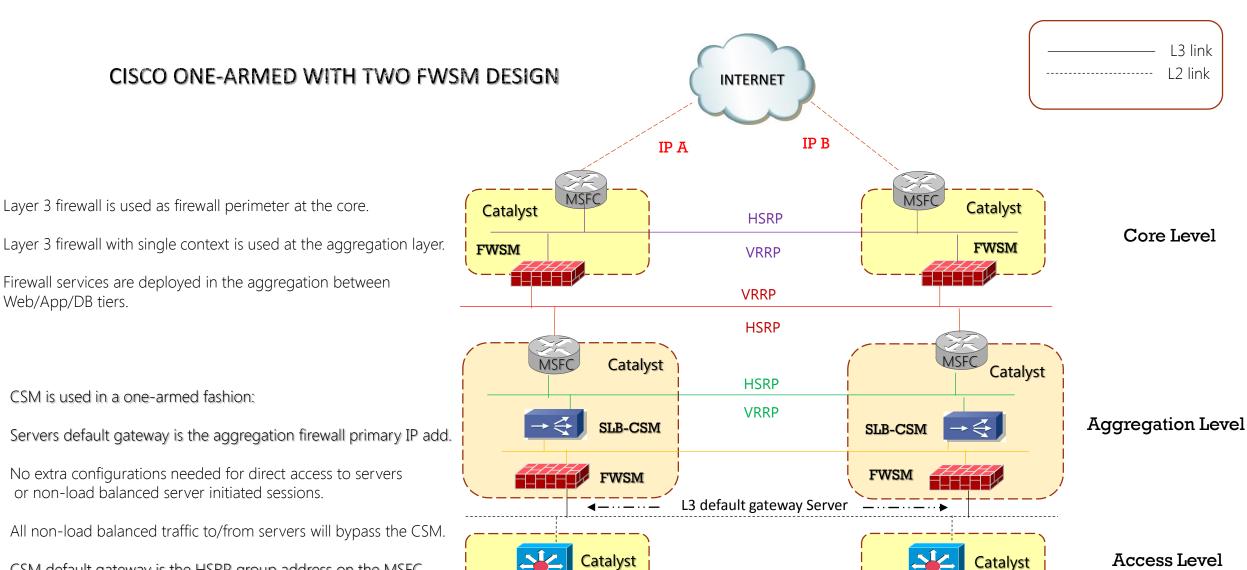
The function provided is called Global Server Load Balancing (GSLB).











POD SERVER-FARM A

CSM default gateway is the HSRP group address on the MSFC.

Since MSFC is directly connected to the CSM, RHI is possible.

