

## Emerald's Primavera In-A-Box Frequently Asked Questions

Emerald's In-A-Box solutions are the world's fastest most reliable method of deploying Oracle Primavera solutions on the market today. A combination of hardware and software engineered to work together along with Emerald services backed by over 20 years of knowledge and experience across multiple industries. Emerald streamlines processes, increases adoption and increases overall user satisfaction when running capital projects or turnarounds. We've tested all Primavera application modules successfully and have been blown away by the results. When stability, risk mitigation and performance are critical factors, Primavera-In-A-Box is the proven winner time and time again.

### **Q: What versions of Oracle Primavera applications are supported?**

**A:** Unifier 9.x and above, Contract Management 13.1.x and above, PPM 9.x and above Instantis EnterpriseTrack 9.x and above.

### **Q: What version of the P6-Loader does Primavera In-A-Box support?**

**A:** P6-Loader 3.x and above.

### **Q: What is the rack space requirement?**

**A:** Emerald's Primavera In-A-Box is a 6U rackmount system with two servers and one storage shelf. There is an option for an additional storage shelf bringing it up to 10U. The two servers each contain two 18-core Intel Xeon Processors E5-2699 v3 and 256 GB of memory (expandable up to 768 GB) for a total of 72 processor cores and up to 1.5 TB of memory per appliance.

### **Q: What are the networking components?**

**A:** The two servers in the system are connected via redundant InfiniBand 40G interconnect for cluster communication, and two bonded 10GBase-T (copper) external networking interfaces. An optional 10GbE SFP+ fiber external connection is available.

### **Q: What is the storage capacity?**

**A:** Emerald's Primavera In-A-Box base configuration contains 64 TB of raw SAS storage, offering 32 TB double-mirrored or 21.3 TB triple-mirrored of resilient usable database storage. There are also four 200 GB solid state drives for high performance processing of database redo logs and four 400 GB solid state drives for frequently accessed data. If additional storage is required any Oracle ZFS appliance can be included and has been tested with all Primavera applications.

### **Q: Can I purchase different hardware configurations?**

**A:** Yes. We've put 20+ years of knowledge working with Oracle Primavera into one box. Emerald has tested the Primavera configurations on the Oracle Database Appliance, the Exadata and the Private Cloud Appliance.

### **Q: Can I expand the storage capacity outside of Emerald's Primavera In-A-Box?**

**A:** Yes. NFS external storage is supported for both read and write operations from the appliance to the storage.

### **Q: What high availability hardware features are included?**

**A:** The box is engineered with no single point of failure. The box contains redundant components including servers, networking, storage, power and cooling, and many swappable components.

**Q: What Disaster Recovery features are available?**

**A:** The Box is engineered with no single point of failure. With the use of Oracle Active Data Guard with 2 appliances or Emerald’s Cloud as the DR site, Emerald is able to provide a real-time failover feature if required.

**Q: What Primavera workloads are suitable for the Primavera In-A-Box?**

**A:** Any Primavera application including web deployed apps.

**Q: What Oracle database options are required for high availability?**

**A:** Oracle Real Application or Oracle Real Application Clusters One Node for Active-Active or Active-Passive

**Q: What virtualization software comes standard with the Primavera In-A-Box?**

**A:** Oracle VM server

**Q: How many Primavera application databases can run on the Primavera In-A-Box?**

**A:** Installation and configuration of databases is extremely simple: We have tested and certified as many as 30 databases which would support Production, Quality Assurance and Developments of all Primavera applications.

**Q: How is Emerald’s Primavera In-A-Box patched?**

**A:** Emerald uses Oracle’s Appliance Manager software to automate patching the entire stack including the database, operating system, and firmware in a simple process.

**Q: What Oracle database licenses are required for Emerald’s Primavera In-A-Box?**

**A:** Customers can purchase database licenses using a capacity-on-demand licensing model. Therefore, customers are only required to license processor cores that they plan to use and can be controlled on this platform unlike VMWare. If these licenses are already owned by the client then they can be re-assigned to the Primavera In-A-Box with your CSI identification number at time of purchase.

**Q: What is capacity-on-demand database licensing?**

**A:** Start with a current usage footprint and increase when demand increases. Clients can purchase database and option licenses starting from a minimum of 2 up to the Oracle Database maximum of 72 processor cores.

**Q: Can I reuse database licenses that I already own for the Oracle Database Appliance?**

**A:** Yes. Provided that the existing Oracle databases licenses are current.

**Q: Does Emerald’s Primavera In-A-Box support database and VM snapshots?**

**A:** Emerald’s Primavera In-A-Box supports database and VM snapshots with Oracle’s Appliance Manager 12.1.2.

**FOR MORE INFO**

Contact your Emerald Associates sales representative directly or call 1.877.316.6005.

For more information please visit our website at [www.emerald-associates.com](http://www.emerald-associates.com)

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