

# Vendita Master Automation Sequencer

*Automate Systems Operations to Save Time & Money While Reducing Errors.*

More than ever, enterprises depend on IT to deliver a competitive edge. The growing complexity and size of database environments strains the resources of most IT organizations, reducing agility and innovation. In fact, many IT managers report their database and system administration teams are overwhelmed with low-level tasks, including performing upgrades, fixes and patches; maintaining uptime and availability; and creating and maintaining copies of databases.

To address these concerns, many IT departments will automate routine tasks to free up assets. Most sys admins and DBAs possess skills at automating with scripts, yet lack the time to scale these abilities across an entire enterprise. Therefore, the capacity to expand into new ventures requires a technology to alleviate this burden. Vendita Master Automation Sequencer (MAS) is the platform designed to put this goal within reach.

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## Highlights:

- Vendita MAS is an automation engine for systems-level tasks, including maintenance, patches & upgrades.
- MAS excels at provisioning, featuring capabilities for provisioning from bare-metal to a fully operational DB server.
- MAS Solutions Pacs deliver pre-built automation sequences for DBAs & Systems Administrators.
- MAS currently has the capability to automate tasks on nearly any system component for Oracle Database on IBM POWER®, including network & storage switches.
- MAS requires no shell programming skills & features a lightweight footprint with no client-side agent to install.

## Getting Started with MAS Is Easy

Designed with easy adoption in mind, MAS does not require IT to implement complex infrastructures or tackle steep learning curves – elements that new technologies often demand.

- With no client-side agent required, MAS can be installed on a single server. A MAS server is scalable to the complexity of the environment, allowing modest servers to be used where an environment does not contain many systems to install, monitor or control.
- In future version of MAS, programming skills will not be required to create and utilize MAS automations.
- Future MAS features will include an iOS application, providing a simple-to-use interface to design custom and running automations.
- In addition, the current MAS Solutions Pacs, future versions will offer pre-defined, ready-to-use automations for major Oracle and Open Source database platforms.



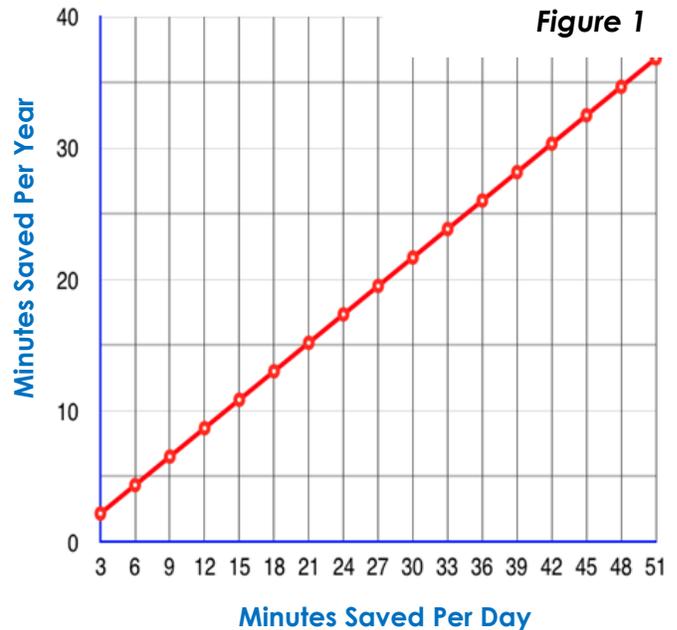
## Vendita Solution Brief

### Why Automate?

Automating a single task to be performed one time is not worth the effort. For tasks performed routinely - once or many times daily - though, automation proves highly beneficial. If a DBA can shave three minutes off the time it takes to perform a routine task, this saves 15 minutes weekly, and one hour per month. The figure to the right shows how many days that automation of just one task can save each year.

**The graph shows that saving 30 minutes per day can result in an extra 22 days of productivity per year. On a team of 5 DBAs, this would be 110 days - nearly one half year of productivity.**

## Master Automation Sequencer (MAS)



### MAS Solutions Pacs

MAS Solutions Pacs make the benefits of automation immediate. Collections of prebuilt automation sequences, MAS Solutions Pacs provide automations for a wide variety of tasks and job functions. Each Solutions Pac includes access to a Wiki that catalogs Solutions Pac features and usage.

This brief showcases some of MAS' current and future Solutions Pacs.

### IBM POWER® & Oracle DB Pac

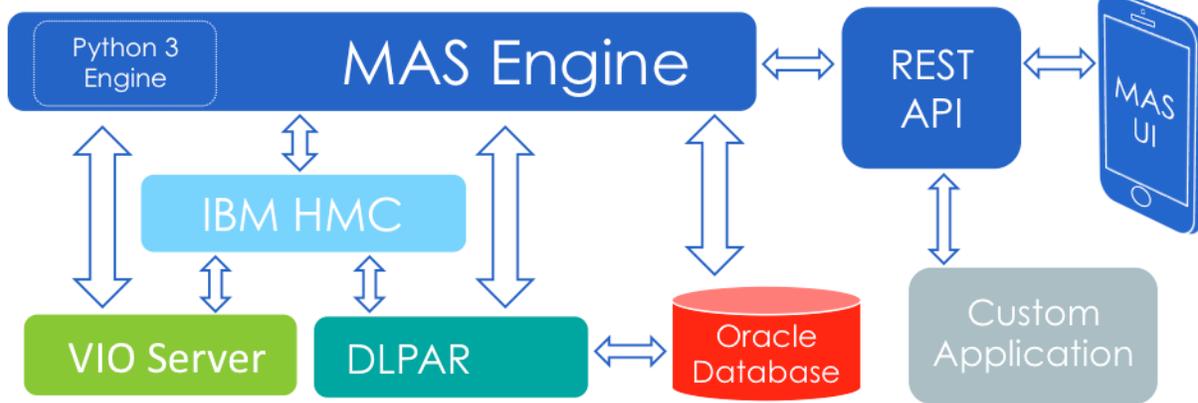
Many organizations use the IBM POWER® platform to run Oracle Database for reliability and performance reasons. MAS enables automation for every tier of the IBM POWER® platform, including:

- DLPAR creation & management, with future versions including patches.
- Support for AIX® DLPARS, & in the future, RHEL DLPARS.
- Future version of this MAS Solutions Pac will include management for SAS & FC-connected storage.

The IBM POWER® & Oracle DB Pac enables the creation of a multi-DLPAR server, allowing a bare-metal server to be fully provisioned, including OS and Oracle software installation. This Pac also features storage management and integration with Oracle ASM file system that provides a holistic view of storage at all levels.

**(See Figure 2 On Page 3)**

Figure 2



### Baseline Command Pac —

Future versions of MAS will allow users to create their own automations, in addition to using those pre-built into the sequencer. The Baseline Command Pac is a set of large Unix and Linux command-line operations that facilitates this capability and can be used to create new automation sequences.

The Baseline Command Pac will feature the ability to connect to databases and run stored procedures. With this feature, DBAs can easily develop automations to perform routine tasks, like refreshing materialized views, rebuilding optimizer statistics on tables, validating the row count of a logical standby, etc.

Sys Admins can use the Baseline Command Pac to develop automations for tasks, including file system monitoring and maintenance, performance metric collection and server patching.

### POWER® Linux/EnterpriseDB Pac

Future version of MAS can install Red Hat Enterprise Linux (RHEL) on an IBM POWER®

processor-based DLPAR. MAS will include a sequence to install EnterpriseDB - an Oracle-compatible database based on PostgreSQL – and management sequences for RHEL and EnterpriseDB to simplify the solution adoption.

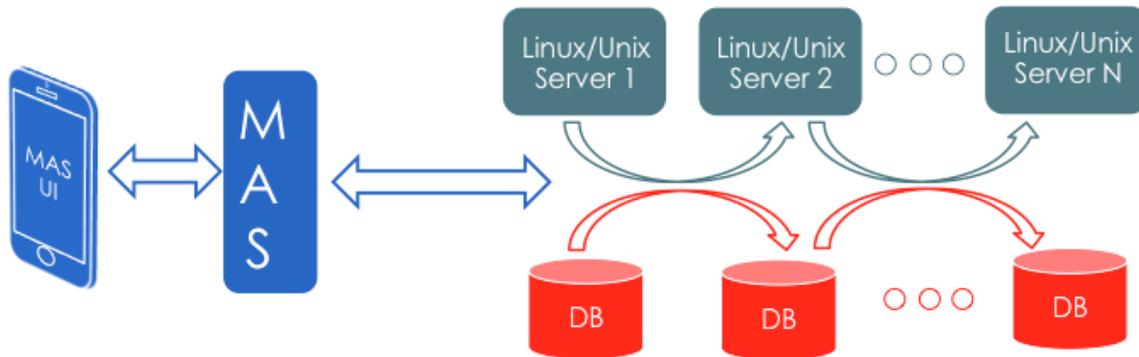
### Security & Compliance Pac

Automation scripts developed by DBAs and Sys Admins often include authentication information, like usernames and passwords or RSA keys – an insecure practice. The future MAS Security & Compliance Pac will store all authentication data in encrypted form, requiring users to authenticate prior to running any MAS operations.

- HMC-based operations
- PowerVC

The Pac will feature security roles, allowing admins to run all sequences, and maintenance users to only run status and reporting sequences. MAS will maintain a detailed history of all activities, facilitating easy auditing and monitoring, available through both APIs and database reporting views and allowing easy inclusion in security and compliance audit reports.

Figure 3



### Scalability/Distributed Computing

MAS will be able to give users the ability to manage large numbers of systems by providing group capability. Users can create groups of target servers or databases, then run the same automation against all group members. MAS will also feature scheduling capability to allow any action to be run at a future time.

### DevOps & Rest API

DevOps is a paradigm that allows software development teams to instantiate and tear-down their own server and database environments without involvement from Sys Admins or DBAs. DevOps collapses time-to-market for software products and projects, and democratizes systems and database administration. Near-future versions of MAS will enable DevOps, featuring an intuitive UI based on Apple iOS, allowing users to easily create and execute automation sequences.

A REST API will be available with MAS to allow interaction with custom-developed software. These sequences can be initiated from any programming platform that supports REST API, including Java, Python and Visual BASIC. Oracle PL/SQL is capable of invoking REST API methods, a feature that allows a world of possibilities with automation sequences being executed from the database level.

### FURTHER INFORMATION

For additional information regarding Vendita Master Automation Sequencer (MAS) or any of the concepts covered in this briefing, please contact Vendita:

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