



•rayNET

 RayVentory®
is part of RayManageSoft i



RayManageSoft® i

10.5

Data Sheet

RMS *infinity*

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Data Sheet
for release 10.5 *infinity*

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Table of Contents

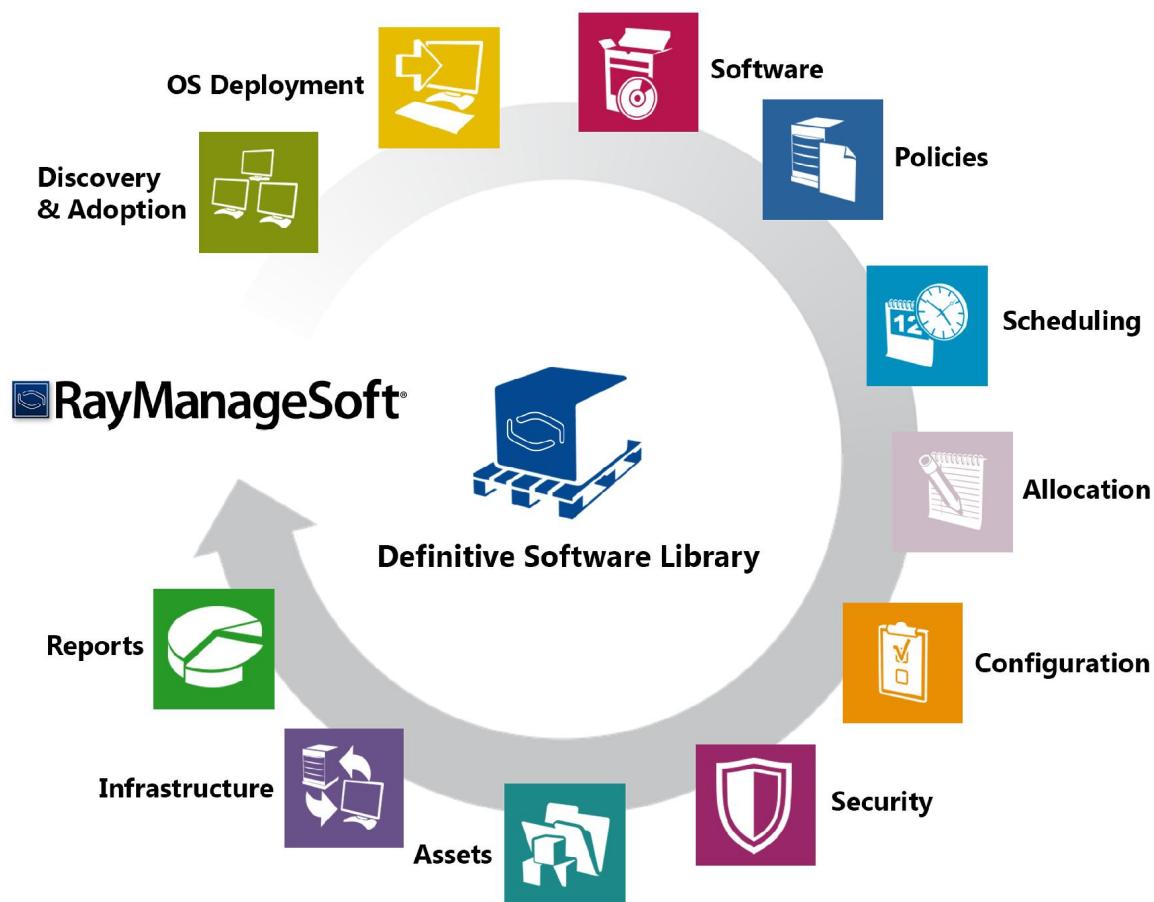
| | |
|--|----|
| Introduction | 4 |
| Administration Server Dashboard | 5 |
| General Features | 7 |
| RayVventory | 9 |
| Deployment Manager | 13 |
| Security Manager | 16 |
| OS Deployment Manager | 18 |
| Links | 20 |

Introduction

RayManageSoft *infinity* is a software deployment solution that supports IT staff to effectively manage the IT environment throughout the entire application lifecycle.

With the help of RMS*i* it is possible to:

1. Collect relevant information for subsequent IT processes (e.g. IT asset or license management).
2. Rapidly deploy new devices, application, and patches.
3. Migrate or replace existing devices.



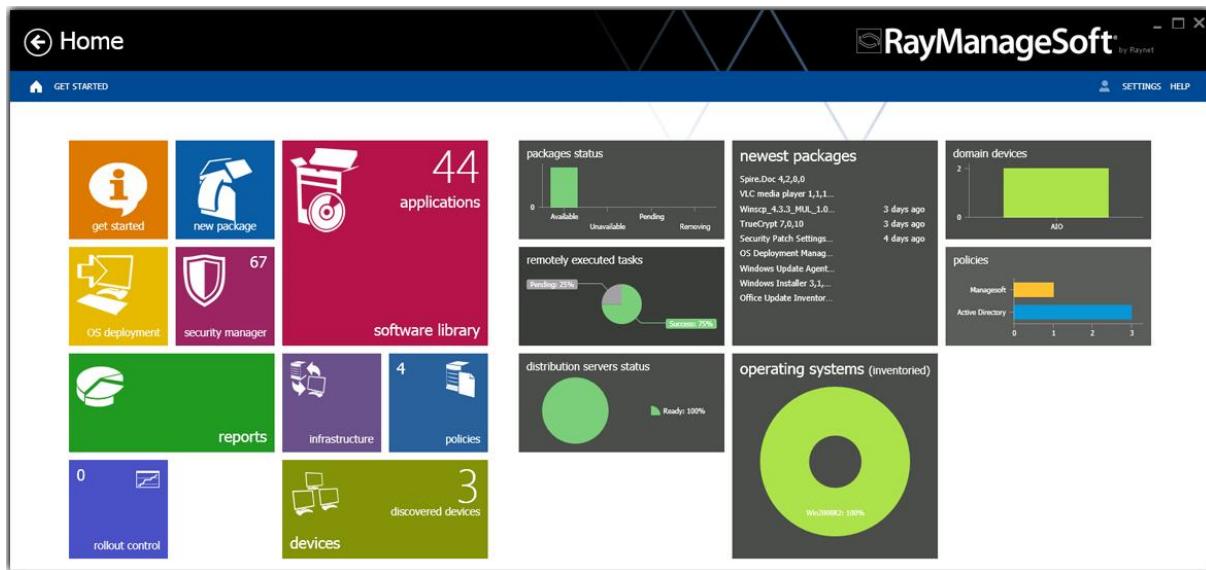
All features are combined in a simple and user-friendly graphical user interface including an efficient and smart reporting engine to manage devices running Windows, Mac, Linux, and Unix operating systems as well as virtual environments.

RayManageSoft *infinity* can be integrated into RayFlow and is also part of RaySuite.



Administration Server Dashboard

The Administration Server Dashboard of RayManageSoft *infinity* provides its user direct access to both dynamically updated key figures and quick links to underlying content. Based on the modern windows metro design and a whole set of unified presentation elements, it does support users with an elaborate, responsive, and comfortable interface.



Selecting a tile on the Dashboard leads to the overview page of the according key feature that consists of a central list or of tree view elements accompanied by feature specific standard action controls. The console is structured in an innovative way and is separated in a fix navigation panel, the main dialog and the functional area that facilitates the work and prohibits getting lost in the tool.

Software Library

GET STARTED

- Dashboard
- Get started
- Devices
- Infrastructure
- Policies
- Rollout control
- Tasks
- Software**
 - Bundles
 - Scheduling
 - Security
 - OS Deployment
- Reports
- Settings

software library

NEW PROJECT... IMPORT ANALYZE

refresh choose columns print export...

| Name | Version | State | Type |
|--|-------------|-----------|---------|
| Packages | | | Folder |
| Adobe | | | Folder |
| ManageSoft | | | Folder |
| Citrix Callout | | | Folder |
| ManageSoft for distribution servers | | | Folder |
| ManageSoft for managed devices | | | Folder |
| 10.1.0 | | | Folder |
| Rev1.0 | | | Folder |
| Managed Device Adoption | 10.10.970.0 | Packaging | Project |
| ManageSoft for AIX Managed Devices | | | Folder |
| ManageSoft for HP-UX Managed Devices | | | Folder |
| ManageSoft for Linux (390) Managed Devices | | | Folder |
| ManageSoft for Linux (x86_64) Managed Devices | 10.0.0 | Received | Project |
| ManageSoft for Mac OS X Managed Device | | | Folder |
| ManageSoft for managed devices | | | Folder |
| ManageSoft for Solaris (sparc) Managed Devices | | | Folder |
| ManageSoft for Solaris (x86) Managed Devices | | | Folder |

SELECTED PACKAGE
Managed Device Adopti...

Manufacturer: Raynet GmbH
Reboot: No
Comments: Adoption package including ManageSoft for managed devices for all available platforms.
Packaging
State:

DISTRIBUTE MORE

dependencies (8) policies transforms
distribution (1) installed on

This package is distributed to the following distribution servers:

| Name |
|-----------|
| Available |

General Features



RayManageSoft consists of four primary components: RayVventory to collect inventory information, Deployment Manager to install updates and remove application, Security Manager to deploy Microsoft and 3rd party vendor patches and hotfixes, and OS Deployment to install new devices or migrate existing devices to a new operating system.

This chapter describes the general features of RMSi.

| Features | Description | Benefits |
|-------------------------------------|---|---|
| Administration Server | <p>The administration server is the centric component of the RayManageSoft infrastructure. It acts, for example, as the data endpoint that holds the database, the definitive software library, and can be used as the initiator of the network discovery and remote trigger of the OS inventory collection (zero touch inventory).</p> <p>The administration server consists of three components that can be each installed on a separate server or combined on a single server:</p> <ul style="list-style-type: none"> • Core (main component) • Report (based on the Internet Information Server) • Date (based on the Microsoft SQL database server) | |
| Distribution Server | The distribution server is an optional component of RayManageSoft that acts as an intermediate endpoint (like a proxy) for package distribution and data collection in distributed networks. | |
| Managed Device | The managed device is installed on the target device and is a mandatory component for the deployment of software and the operating system, and it is an optional component for collecting inventory information. | Effective device management, as the system only has to be configured once and is monitored afterwards (set and forget). |
| Comprehensive Set of Reports | Starting from asset overviews and system wide status reports which enable users to drill down to high-resolution levels with regard to application usage, task execution results, and | High and always up-to-date transparency of the entire IT infrastructure. |

| Features | Description | Benefits |
|--------------------------------------|---|---|
| | inventory gathered from specific managed devices, reports can display information for all domains. RMSi utilizes SQL Server Reporting Services as well as its own legacy reporting framework. | |
| Highly Customizable Dashboard | Build from XML-based tiles, the dashboard provides access to both, dynamically updated key figures and quick links to the underlying content. | Reduced operational costs, as the problems of the infrastructure can be highlighted and solved immediately. |
| Intuitive User Interface | The user interface displays data within lists (easily sorted, filtered, grouped, printed, and exported) and tree views (clear drill down of filtered and sorted data). | Reduced training efforts. |
| Wizard Driven Actions | Advanced system operations are broken down by wizards into a series of easily manageable step by step instruction. | Improved operational quality as human mistakes will be avoided. |
| Multi-Platform Support | A wide range of Windows, Mac OS, Linux, etc., operating systems is supported by RMSi. | Allows the management of multi-platform environments with a single tool. |

**Note:**

With the introduction of version 10.5, the previous standalone application RayVventory becomes a component of RayManageSoft.

RayVventory



RayVventory provides a complete set of tools and features for operating system (OS) inventory to gather hardware and software information as well as Oracle database and VMware vSphere/ESX inventory management. The product includes six main components for:

1. Device discovery
2. Execution of inventories for operation systems
3. Execution of inventories for network devices
4. Execution of inventories of Oracle databases
5. Execution of inventories of virtual infrastructures
6. Triggering inventory collection on the client side with an easy to use self-service interface

| Features | Description | Benefits |
|---------------------------|---|---|
| RayVventory Portal | RayVventory Portal is the user entry point, which allows an administrator to define one or several projects with specific end user configurations. The end user would access such a project through a custom URL and download a project package used to perform the actual inventory. The Portal may be installed on the same OSE instance as the RayVventory Server. | Effective mechanism to scan devices that are not permanently connected to the network. Sample Business scenario: Integration of the portal into the customer's intranet. |
| Network Discovery | The first phase after implementing RayVventory Server could be discovering or importing the devices that currently exist on a network. The following methods, interfaces, and technologies are supported: <ul style="list-style-type: none"> • Import computer accounts from the Corporate Active Directory (multiple AD's are supported) • Import of sites and subnets via import file (.csv) • Direct scan of the entire network or defined subnets using these methods (can be combined): <ul style="list-style-type: none"> ◦ Windows Browser Service (WINS, NetBios protocol) | High and always up-to-date transparency of the entire IT infrastructure. A sample business scenario would be the comparing and improving the CMDB based on the discovery/inventory data. |

| Features | Description | Benefits |
|----------------------------|--|--|
| | <ul style="list-style-type: none"> ○ DHCP discovery (queries DHCP servers) ○ Ping Sweep (TCP/IP port scan) ○ SNMP queries ○ AMT (Intel Active Management Technology) ○ Database server scan (combining port scan and WMI queries) | |
| Inventory Methods | <p>RayVventory supports different inventory methods to achieve an efficient and secure scanning of the IT environment.</p> <p>Agent-based</p> <p>Inventory agent is a client-server application which may be installed on a device. This application includes a server-managed schedule (when to perform which step) and components which allows to perform the inventory and updates of the agent itself, as well as, inventory plugins and the collection of usage information.</p> <p>Zero touch (Agent-less)</p> <p>Every project defined in the RayVventory portal supports "zero-touch-inventory" (ZTI), because the executables do not need to be deployed or installed on any device, just executed "as is". Every inventory module is available as a ZTI solution.</p> <p>Remote execution</p> <p>The GUI of RayVventory Server includes Remote Execution capabilities to execute discovery, inventory, and other tasks.</p> | <p>Reduced operational costs as there is always an appropriate method to overcome the typical challenges within the discovery/inventory process.</p> |
| OS Inventory Module | <p>Hardware</p> <p>This component collects hardware details via WMI on Windows or WBEM on compatible Unix operating systems.</p> <p>This collection includes (but is not limited) to details about hardware chassis (manufacturer, serial number), CPU (model of CPU, clock speed, amount of installed CPUs, cores, threads, sockets), storage details, etc.</p> | <p>High and always up-to-date transparency of the entire IT infrastructure</p> <p>Sample Business scenario: Out-of-the-box functionality to collect license relevant information for nearly any vendor</p> |

| Features | Description | Benefits |
|----------|--|----------|
| | <p>Software</p> <p>The OS Inventory Module includes the following software inventory collecting native operating system package information:</p> <ul style="list-style-type: none"> • Windows: Add/Remove Program information (ARP) and Windows Installer (MSI) • Linux: RPM (Red Hat Package Manager) used by a wide range of Linux distributions • Mac OS: osx, pkg, mpkg • Solaris: SMC and others • All platforms: ISO 19770-2:2009 Software ID tags • File header information (optional) like name, size, manufacturer, product, version, path, size, etc. <p>Network devices</p> <p>The inventory for network devices allows users to collect any available SNMP information for network devices like routers, switch, printer, etc.</p> <p>Microsoft SQL server</p> <p>Microsoft SQL inventory module is a built-in plugin for the OS inventory module and collects details about installed Microsoft SQL Server components, which include version and edition of installed components and details about installed instances. The details are collected via WMI interface.</p> <p>Microsoft Hyper-V Inventory</p> <p>Hyper-V inventory module is a built-in plugin for the OS inventory module and collects details about local Hyper-V instance. Such detail includes which virtual machine runs on which host, details about assigned virtual resources (RAM, amount of CPUs), and whether the host is a part of a failover cluster. The details are collected via WMI interface.</p> <p>Custom</p> <p>The inventory module can run custom</p> | |



| Features | Description | Benefits |
|---|--|---|
| | inventory scripts to collect additional hardware and/or software information. | |
| Oracle Database Inventory Module | <p>The Oracle inventory module collects information that is primarily relevant for a license management solution like the installed and license relevant database options and management packs.</p> <p>The Oracle module can be executed on any platform supporting Java Runtime Environment (JRE). It opens a local or a remote connection to an Oracle database, connects to the database with provided credentials and collects the Oracle information.</p> | Get transparency of your Oracle environment to prevent compliance risks and to achieve savings. |
| vSphere Inventory Module | <p>The vSphere module collects information that including, for example, which virtual machine runs on which host, details about assigned virtual resources (e.g. RAM, amount of CPUs), and whether the host is part of a failover cluster.</p> <p>The details are collected via VMware connection.</p> | |

Deployment Manager



The Deployment Manager is the component of RayManageSoft that transforms desktops, notebooks, and servers into self-managing smart devices that continuously align with enterprise IT policies.

The core component for software deployment provides a permanently monitored package allocation and installation process which is based on hard- and software inventory data. Therefore, RayManageSoft is, by design, a highly suitable data source for system wide IT Asset Management. Deployment Manager is oriented toward customer specific package design and ordering system requirements, and it enables the definition and maintenance of the desired states for managed devices.

| Features | Description | Benefits |
|--|---|--|
| Package Editor | The Package Editor provides a packaging tool for basic packages. Basic package means, that no snapshot functionality is required as the installation activities are known (e.g. files and registry keys that have to be copied, modified, or removed). | Prevent high packaging costs for basic applications. |
| Active Directory and native ManageSoft Policies | RMSi contains structured policies used to manage applications (assign, update and remove) for users/machines throughout the entire Lifecycle process. | Effective device management, as the allocation or removal of applications only has to be configured once and is monitored afterwards (set and forget). |
| Intelligent Rollout Control | <p>The intelligent rollout control can be used for installs, uninstalls, and upgrades and thereby eases the deployment control to a quick and simple task, enabling the projection of comprehensive deployment waves while maintaining full and complete control via positive and negative thresholds.</p> <p>A rollout can be stopped at any time by sending an emergency stop message to the clients. Users can receive status emails, which are triggered by various rollout events.</p> | Reduced operational costs due to a high degree of automation. |
| Application Reboot Control | The application reboot control can be either cumulative or immediate, allowing for a seamless continuation from one installation to another (resuming from the last package that was successfully installed from the last run policy), reducing the amount of managed device interference by speeding up policy processing. | Preventing unexpected and unplanned reboots to ensure end user productivity. |

| Features | Description | Benefits |
|-------------------------------------|---|--|
| Package Bundling | Package bundling allows several related packages to be combined to provide an intelligent distribution method. A successful bundle deployment state can be specified as having all bundled packages successfully installed or only certain packages by setting an ignore status on packages that do not necessarily need to be successfully installed in relation to the overall deployment process. | Reduced operational costs due to an effective management of applications. |
| Clean Machine Removal Wizard | The removal wizard provides reinstallation and deinstallation sequence management to the software deployment process. | |
| Managed Device Selector | The managed device selector informs end-users about upcoming maintenance activities, manages optional software supplies, and provides installation procedures with help and guidance if required. | |
| License Counting | License counting provides a quick and easy method to track the number of licenses (on a user, device, processor, or core basis) on a managed device for a particular software package that has been deployed by RMSi. Information such as publisher, type, authorized quantity, and number of licenses currently in use is displayed. Custom properties can also be added to licenses via the Custom Property Editor. | License management alternative for SME and well-structured companies |
| Software Recognition | An optional software recognition functionality in combination with DNA is available to enable the recognition and counting of software which is not managed with RMSi. | Ensures that all software licenses, even those of unmanaged software, are counted. |
| Messaging System | The messaging system gathers information regarding the status of managed devices (lost & found), their policy compliance state, as well as client health (via a heartbeat service monitored schedule running on the client). | |
| Message Wizard for Devices | The message wizard for devices allows "Set emergency state" and "Set normal state" messages to be sent from the Administration Server to the managed device, causing the device to either stop the ongoing installation or uninstallation of the packages, or to resume the normal service again. | |

**Note:**

Please note, that the set of snap-ins RayManageSoft displays within your systems console tree depends on the individual combination of license features. Contact your local Raynet representative or write an email to sales@raynet.de.

Security Manager



The Security Manager is an additional component for the basic RayManageSoft system.

The Security Manager protects organizations by automatically monitoring the authoritative sources of patch data for Windows® devices. It provides alerts for new patches and streamlines the process of deploying operating system and office oriented patches to devices across the enterprise.

| Features | Description | Benefits |
|----------------------------------|---|---|
| Flexible Workflows | Flexible workflows allow patch deployment to the entire enterprise, specific organizational units, or individual users and computers. | Reduced operational costs due to an effective management of software patches. |
| Process Automation | The process automation reduces reaction times while keeping a full overview on system activity with advanced logging functions. | Reduced operational costs due to a high degree of automation. |
| Native Security Analyzer | The native security analyzer analyzes the compliance state of Windows devices based on the Windows Update Agent. | |
| Enhanced Patch Management | <p>Microsoft Security Advisories</p> <p>Provision of Microsoft Security Advisories that are a supplement of the Microsoft Security Bulletins. These advisories address security changes that may not require a security bulletin but that may still affect customers' overall security.</p> <p>Third Party Patches</p> <p>Provision of Non-Microsoft Patches for products of vendors like Adobe and Oracle.</p> <p>Further details are described in the extension of the Maintenance Plan document for RMS.</p> | |
| Patch Packages | Patch packages can be added to the package bundle feature of the Deployment Manager. | |
| Superseded Patch | Information about superseded patches is supplied for a better understanding of the | |

| Features | Description | Benefits |
|-------------------------|---|---|
| Information | current patch state decided by the vendor. | |
| Clean Policy | A functionality to clean the selected policy is provided. This feature is relevant for security packages in the existing environment that have been superseded by newly packed patches of recently released bulletins. | |
| Bulletin Cleanup | The Removal Wizard allows for the removal of security patches that belong to a bulletin. A user can either choose to remove software from the library, from all distribution servers(recommended), and/or from all policies. | |
| SPM Automation | SPM automation allows users to automate the regular operational tasks of Security Patch Management (e.g. update Database, Pack, Download, Distribute, and Add to policy). Furthermore, there is a credential manager to support multi-domain environments when SPM is integrated in the productive Active Directory. | Reduced operational costs due to a high degree of automation. |

OS Deployment Manager



The OS Deployment Manager (OSDM) is an additional component for the basic RayManageSoft system.

OSDM automates the process of deploying and installing Microsoft operating systems on devices throughout the IT estate, even with limited connectivity or IT support. Therefore, it does ease the migration from one OS version to another and is an essential tool for a successful rollout project.

Once a computer has undergone the managed operating system rollout process, it is set up with essential prerequisites such as drivers and basic software packages. With OS Deployment Manager, each newly setup computer is easily adopted into Application Lifecycle Management by the Deployment Manager and the Security Manager.

| Features | Description | Benefits |
|---------------------------------------|---|---|
| Automated Detection of Drivers | The automated detection of drivers uses information from the .inf file of a driver to import the driver (and any corresponding files) into the driver library. During the import, the OS Deployment Manager verifies the information to be imported to avoid adding redundant drivers to the library. | Reduced operational costs due to an effective management of drivers |
| Automatic Post-Image Rollouts | The automatic post image rollouts provide a seamless machine build that is compliant with corporate standards by automatically distributing drivers and software packages once the imaging process has been completed. | |
| Hardware Profiles | The hardware profiles contain a number of drivers related to a specific machine type. This allows drivers to be mapped to relevant machines. | Reduced operational costs due to an effective management of drivers |
| Make and Model | Make and model allows drivers to be associated with their manufacturer's entities. Single drivers, as well as hardware profiles, can be assigned. This is another method of mapping drivers to specific machines. | |
| Answer File Wizard | The answer file wizard provides a step-by-step method to create answer files for unattended OS installations. | |
| PXE Boot Control | The PXE Boot Control allows PXE booting for machines that are managed by Active Directory to be disabled/enabled. | |



| Features | Description | Benefits |
|------------------------|--|----------|
| Update Database | The Update Database function allows Active Directory computer objects to be imported into the RMSi database. | |

Links

Further information pertaining to hardware and software prerequisites, compatibility, and more can be found in the *RayManageSoft infinity Release Notes*.

Visit www.raymanagesoft.com for further information on RayManageSoft, and take a look at the additional resources available at the Knowledge Base: <http://knowledgebase.raymanagesoft.com>.

Raynet is looking forward to receiving your feedback from your RayManageSoft experience. Please contact your Raynet service partner or write an e-mail to support@raynet.de to add your ideas or requirements to the RayManageSoft development roadmap!



RayManageSoft / RayVventory is part of the RaySuite

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