Matilda Discover Technical Brief

Next-Generation Asset Management

In the digital era, where technology landscapes are continuously evolving, managing IT assets with precision and strategic foresight is paramount. Matilda Discover is designed to redefine the way organizations manage their IT inventory and applications, providing a comprehensive, application-focused lens that illuminates the intricacies of assets, infrastructure, and their interdependencies.
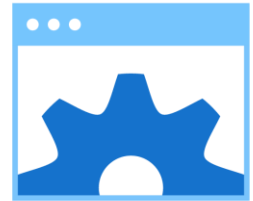
This datasheet delivers a concise overview of Matilda Discover's capabilities, its distinctive features, and its competitive edge in the marketplace. Additionally, it answers pivotal questions and offers insights on why Matilda Discover should be an essential component of your IT asset management approach.

Why Matilda Discover Over Other Tools?

An Application-Centric Advantage

Matilda Discover stands out with its application-centric approach, focusing on the relationships between IT assets, infrastructure, and the applications they support. Unlike traditional tools that prioritize infrastructure, Matilda captures comprehensive data across IaaS, Bare Metal, VMs, Containers, and PaaS applications, delivering a holistic view of IT environments.

This depth and breadth of insight enable more effective asset management, making Matilda Discover an essential choice for forward-thinking organizations.
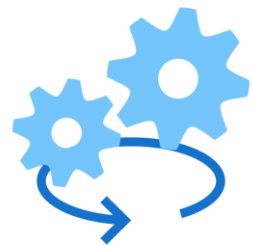
Continuous Insights in Dynamic Environments

The Case for Ongoing Discovery and Assessment

Cloud and IT environments are constantly evolving due to changing loads, new feature deployments, and increasing security and compliance demands. A one-time discovery cannot keep pace with these shifts.

Matilda Discover provides continuous, real-time updates to ensure your Configuration Management Database (CMDB) remains accurate and actionable, enabling scalable, optimized operations in ever-changing environments.

Real-time insights for dynamic application landscapes.

Matilda Discover Capabilities Overview

Matilda Discover provides a comprehensive range of functionalities essential for thorough IT asset management and assessment. Its capabilities include:

- **Automated Discovery**: Detects all supported Operating Systems, Services, Databases, and Software automatically.

- **Discovery Initiation Options**: Initiates discovery using Server Name, IP Address, Operating System, Server Location, Virtualization, CPU, RAM, & Storage Information.

- **Resource Utilization Tracking**: Monitors CPU, RAM, Storage, & Network Utilization across the discovered environment.

- **Application Insights**: Delivers crucial Application Utilization and Infrastructure Information.

- **Topology and Dependency Mapping**: Identifies Connections, Topology, and Dependency for Applications.

- **Database Editions Detailing**: Provides Database editions details crucial for RDS modeling.

- **Communication and Dependency Analysis**: Offers insights on Server-to-Server Communications & Ports, and Server to Server Dependency Topology.

- **Performance Metrics**: Includes network and disk IOPS/Throughput.

- **Application Interaction Mapping**: Details Application to Application Dependency, Application Communications & Ports.

- **Lifecycle Information**: Identifies software/hardware Type & End of Life, and Application Grouping. For instance:

    - **Type**: Identifies if the application is a database.

    - **EOL**: Provides End of Life support information for software versions.

    - **Grouping**: Suggests which applications should be moved together.

- **Cost Projection and Savings Analysis**: Projects migrated application costs or anticipated savings for target clouds.

- **Architecture Assessment**: Offers Current and Proposed architecture analysis based on the 5Rs – Rehost, Replatform, Refactor, Retire, and Retain.

- **Executive Summary Report Creation**: Generates an executive overview report summarizing the findings of the Discover Tool for all supported applications and components.

Comprehensive Reporting Outputs & Deliverables

- Upon completing the discovery and assessment, Matilda Discover delivers:

Inventory Report

> **Content:** Detailed Excel report covering Servers, Operating Systems, Memory, Storage, Network, and Port communication.

> **Purpose:** A comprehensive snapshot of physical and virtual IT assets.

Assessment Report

> **Content:** Instance- and application-level summaries, including application dependencies, grouping, TCO, and right-sizing details.

> **Purpose:** Provides actionable insights for strategic planning, cost savings, and optimization.

Executive Summary Report

> **Content:** PowerPoint summary of current and proposed states.

> **Purpose:** High-level overview for stakeholder presentations and decision-making.

Matilda Discover Capabilities

Environment Support	Note
VMWare	Supported
Solaris	Supported
Oracle	Supported (OS & DB)
Wintel	Supported
Linux	Supported
Unix	Supported

Configuration & Capacity	Note
Device configuration	Supported
Server capacity	Supported
Storage capacity	Supported
NW port utilization	Supported

Performance & Grouping	Note
Agent-based discovery	Supported (But agentless is recommended for better performance)
Standalone / Clustered grouping	Supported

Mapping & EOS Information	Note
Topology mapping based on Application traffic	Supported
EOS / EOSL capability	Supported

Integration & CMDB	Note
CMDB capability	Supported
Advantages of Matilda used for CMDB	Continuous Discovery, Application tagging, Inventory with assessments
Integration with external systems	Supported, via Excel based import feature

Reporting	Note
Level of reporting	Detailed reports for inventory, application assessments, migration strategy & complexity and more
Dashboard customization & custom report generation	Multiple reports out-of-the-box. Capability for generating customized dashboards
Report export	Supported (Formats: XLS, PDF)

Other Features	Note
Data collection period	2+ weeks
Platforms supported	Cloud, on-prem, and vCenter
Cloud-to-cloud discovery and assessment	Supported

Matilda Discover Core Services List (1/3)

Service Name	Type	Versions	Service Discovery			Service Deep Discovery		
			Windows	Linux	Unix	Windows	Linux	Unix
Apache	Web Server	2.x.x	Yes	Yes	Yes	Yes	Yes	Yes
Cognos	Analytics Server	IBM Cognos BI	No	Yes	Yes	No	No	No
Consul	Network Services		No	Yes	Yes	No	No	No
DB2	Database	9.x, 10.x, 11.x	Yes	Yes	Yes	Yes	Yes	Yes
Docker	Container		No	Yes	Yes	No	Yes	Yes
Elasticsearch	Analytics Server		No	Yes	Yes	No	Yes	Yes
IIS	Web Server		Yes	No	No	Yes	No	No
Informix	Database	12.10.FC9IE	No	Yes	Yes	No	Yes	Yes
Iplanet	Web Server		No	Yes	Yes	No	Yes	
Jboss	Application Server	2.x, 3.x, 4.x, 6.x, 6.x.xGA, 7.x, 7.x.xGA, 10.x Wildfly, jbosseap6.x.x, jbosseap7.x.x, jboss7.x.x.final	Yes	Yes	Yes	Yes	Yes	Yes
Kafka	Event Streaming		No	Yes	Yes	No	Yes	Yes
Kubernetes	Container Orchestration	1.13.x, 1.14.x, 1.17.x, 1.24.x	No	Yes	Yes	No	Yes	Yes

Core Services List (2/3)

Service Name	Type	Versions	Service Discovery			Service Deep Discovery		
			Windows	Linux	Unix	Windows	Linux	Unix
MariaDB	Database	5.x.x, 10.x.x	No	Yes	Yes	No	Yes	Yes
Mongo	Database	3.x, 3.x.x, 4.x, 4.x.x, 5.x, 5.x.	No	Yes	Yes	No	Yes	Yes
MySQL	Database	5.x, 6.x, 8.x	Yes	Yes	Yes	Yes	Yes	Yes
Nginx	Web Server	1.10.x, 1.14.x, 1.15.x, 1.16.x, 1.18.x, 1.19.x 1.20.x	Yes	Yes	Yes	Yes	Yes	Yes
Oracle	Database	10.x, 11.x, 12.x, 18.x,19.x, 2.x, 8.x, 9.x	Yes	Yes	Yes	Yes	Yes	Yes
RabbitMQ	Message Broker	3.8.x, 9.2.x	No	Yes	Yes	No	Yes	Yes
Solr	Search Platform		No	Yes	Yes	No	No	No
Springboot	Application Server	2.6.6	No	Yes	Yes	No	Yes	Yes
SQL Server	Database	2000, 2005, 2008, 2008R2, 2012, 2014, 2016, 2017, 2019.	Yes	Yes	Yes	Yes	No	No
Tomcat	Application Server	5.x, 5.x.x, 6.x, 6.x.x, 7.x, 7.x.x, 8.x, 8.x.x, 9.x, 9.x.x	Yes	Yes	Yes	Yes	Yes	Yes

Core Services List (3/3)

Service Name	Type	Versions	Service Discovery			Service Deep Discovery		
			Windows	Linux	Unix	Windows	Linux	Unix
Tomcat	Application Server	5.x, 5.x.x, 6.x, 6.x.x, 7.x, 7.x.x, 8.x, 8.x.x, 9.x, 9.x.x	Yes	Yes	Yes	Yes	Yes	Yes
Web Sphere	Application server		Yes	Yes	Yes	Yes	Yes	Yes
WebLogic	Application Server	3.x, 8.x, 10.x.x, 12.x.x, 14.x.x	Yes	Yes	Yes	Yes	Yes	Yes
Yarn	Package Manager	3.1.x.x	No	Yes	Yes	No	Yes	Yes
Redis	Database		Yes	Yes	Yes	Yes	Yes	Yes
PHP	PHP		Yes	Yes	Yes	Yes	Yes	Yes
PHP-FPM			Yes	Yes	Yes	Yes	Yes	Yes
HDFS			No	Yes	Yes	No	Yes	Yes
HBASE			No	Yes	Yes	No	Yes	Yes
IBM MQ			Yes	Yes	Yes	Yes	Yes	Yes
OOZIE			No	Yes	Yes	No	Yes	Yes
HIVE			No	Yes	Yes	No	Yes	Yes
SPARK			No	Yes	Yes	No	Yes	Yes
Zookeeper	Distributed Coordination Server	3.4.x, 3.5.x	No	Yes	Yes	No	Yes	Yes

Matilda Discover Operating Systems

Matilda Discover can scan the following operating systems.

Operating System	Platform	Versions
RHEL	Linux	4, 5, 6, 7, 8
AIX	UNIX	5.6, 7
CentOS	Linux	5, 6, 7
Debian	Linux	9, 10, 11
HP-UX	UNIX	11
OEL (Oracle Enterprise Linux)	Linux	5, 6, 7
Solaris	UNIX	10, 11
SUSE	Linux	11, 12, 15
Ubuntu	Linux	14, 16, 18, 20, 22
Amazon	Linux	Linux1, Linux2
Windows Server	Windows	2003, 2008, 2012, 2016, 2019
Rocky Linux	Linux	8
Windows Desktop/VDI	Windows	Windows 7, Windows 10