

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 Over Other Products?

Q: What is the advantage of Matilda when compared to other inventory tools?

A: Matilda offers a distinct advantage by focusing on applications rather than solely on infrastructure. This application-centric approach is indispensable when it comes to managing assets and inventory that directly correlate to specific applications and their required resources. Furthermore, Matilda's capability to glean comprehensive data for Infrastructure as a Service (IaaS), Bare Metal, Virtual Machines (VMs), Containers, and even Platform as a Service (PaaS) applications solidifies its distinctiveness in the market. This in-depth and holistic view is what sets Matilda apart from other tools and makes it a preferred choice for many organizations.

Recommendation for Permanent Use of Matilda Discover

Q: Why is it recommended to use Matilda Discover as a permanent inventory tool rather than just for one-time discovery?

A: Cloud and IT environments are dynamic, undergoing changes for a multitude of reasons, such as variations in load, the introduction of new features, product deployments, evolving security and compliance needs stemming from DevOps, and many more. Additionally, there's an ever-present drive to create scalable and real-time optimized environments. These frequent and multifaceted changes cannot be effectively tracked and managed with just a one-time discovery. What's needed is a continuous, real-time discovery and assessment process. Matilda serves this purpose by constantly feeding updated and pertinent information into the Configuration Management Database (CMDB). This ensures that the CMDB remains current, offering an accurate reflection of the environment at any given time.

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
Source and target clouds supported	AWS/Azure/GCP/OCI
Cloud-to-cloud discovery and assessment	Supported

Matilda Discover Core Services List

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

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

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

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.

Matilda Discover Deliverables

Upon completion of the discovery and assessment engagement, Matilda Discover provides the following comprehensive reports, ensuring a clear and detailed understanding of the IT environment and the assessment outcomes. These deliverables are designed to provide stakeholders with a clear and actionable understanding of their IT environment, aiding in informed decision-making for cloud migration and IT asset management:

- **Inventory Report:**
 - **Content:** An Excel report containing detailed information on Servers, Operating Systems, Memory, Storage, Network, and Port communication.
 - **Purpose:** This report offers a comprehensive snapshot of the physical and virtual assets in the IT environment.
- **Assessment Report:**
 - **Content:** An Excel report with both instance-level and application-level assessment summaries. It includes details on application dependencies, application grouping, Total Cost of Ownership (TCO) cost details, and right-sizing information.
 - **Purpose:** Essential for strategic planning, this report provides insights into application relationships, potential cost savings, and optimization opportunities.
- **Executive Summary Report:**
 - **Content:** A PowerPoint presentation document that encapsulates an executive summary of the current state and the proposed target state.
 - **Purpose:** Designed for high-level overview and decision-making, this report succinctly presents the key findings and recommendations, making it ideal for presentations to stakeholders and executive teams.