



Global Services

Markvision Enterprise 2.4 Database Access

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740 West New Circle Road
Lexington, Kentucky 40550
www.lexmark.com

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Document Overview

This white paper focuses on the database structure of Markvision Enterprise (MVE). The intent of this document is to enable users to understand the tables, fields, and relationships within the database so they can create custom queries and reports.

Version: 1.7

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1 Overview

Markvision Enterprise (MVE) allows you to gather various types of data about your discovered devices and their settings. Some of this data includes:

- Identification of information such as IP address, model name, and manufacturer device capabilities such as color, copy, and speed
- Options installed on devices, such as hard drives and paper trays, supply statistics and capacities
- Device discovery and audit statistics, configurations, and keywords assigned to devices

MVE stores this information in three databases.

- FRAMEWORK – The primary database where most of the device data is stored
- MONITOR – A smaller database where task statistics are stored
- QUARTZ – A database used by MVE's third-party scheduler (Quartz) to store scheduling information (not covered in this document)
- This document lists and explains most of the tables in the FRAMEWORK and MONITOR databases and describes the fields, each table contains. The document also describes how the tables and fields are related so that users can construct custom queries and generate custom reports.

Note: *The tables and columns in the database are subject to change from one release to the next. See the Release Notes section for details on these changes.*

2 Supported Databases

MVE supports the following databases:

Firebird (distributed with MVE) Microsoft SQL Server

Consult the MVE User's Guide or Release Notes for supported versions.

2.1 Database Differences

The following table maps the Firebird data types used in MVE to their corresponding data types in the Microsoft SQL Server MVE database.

Firebird Data Types	SQL Server Data Types
BIGINT	Bigint
VARCHAR(x)	varchar(x)
TIMESTAMP	Datetime
INTEGER	Int
SMALLINT	Bit
BLOB SUB_TYPE 0	varbinary(1024)

3 FRAMEWORK Tables and Field Descriptions

FRAMEWORK is the primary MVE database where most of the device data is stored. The tables and descriptions of each field are listed in the following table categories.

Note: The data types used in the “Data Type” columns of these tables relate to a Firebird database.

Refer to the Database Differences section of this document to see how these correspond to Microsoft SQL Server data types.

3.1 Printer

The following tables deal with the logical representation of a physical printer.

3.1.1 CONFIG_ITEM

This table represents the ITIL Configuration Item portion of the printer. It has the “state” and TIMESTAMPs of when the CI was created, initially managed, last discovered, etc. This does not represent any physical portion of a printer; it is simply an abstract representation of the device.

Field Name	Data Type	Description
CI_ID	BIGINT	Primary key
CI_STATE	VARCHAR(255)	The current state of the CI: NEW, MANAGED, MISSING, FOUND, CHANGED, UNMANAGED, RETIRED
CREATION_DATE	TIMESTAMP	When the CI first entered the system
INITIAL_MANAGEMENT_DATE	TIMESTAMP	When the CI first entered the MANAGED state (or sub-state)
LAST_AUDIT_DATE	TIMESTAMP	The last time an audit was attempted on the CI (may not have been successful)
PRINTER_ID	BIGINT	The foreign key to NETWORK_PRINTER.PRINTER_ID
LAST_DISCOVERY_DATE	TIMESTAMP	The last time a discovery was attempted on the CI (may not have been successful)
LAST_SUCCESSFUL_AUDIT_DATE	TIMESTAMP	The last time an audit was successful on the CI
LAST_SUCCESSFUL_DISCOVERY_DATE	TIMESTAMP	The last time a discovery was successful on the CI

3.1.2 NETWORK_ADAPTER

This table represents the physical printer's network adapter (also known as the print server).

Field Name	Data Type	Description
ADAPTER_TYPE	VARCHAR(31)	For now, always INA (Internal Network Adapter)
ADAPTER_ID	BIGINT	Primary key
FIRMWARE_REVISION	VARCHAR(255)	Current network firmware revision
MANUFACTURER	VARCHAR(255)	N/A
MODEL_NAME	VARCHAR(255)	N/A
SERIAL_NUMBER	VARCHAR(50)	N/A
SYSTEM_NAME	VARCHAR(255)	N/A
RETRIES	INTEGER	Number of times to retry a particular communication attempt
SNMP_READ_COMMUNITY_NAME	VARCHAR(255)	SNMP Community Name for reading
SNMP_WRITE_COMMUNITY_NAME	VARCHAR(255)	SNMP Community Name for writing
TIMEOUT	BIGINT	Number of milliseconds to wait for a response from this printer for a particular communication attempt
CONTACT_LOCATION	VARCHAR(255)	N/A
CONTACT_NAME	VARCHAR(255)	N/A
DOMAIN_NAME_SUFFIX	VARCHAR(191)	The domain name suffix associated with this network adapter (i.e. foo.lexmark.com). Combine with HOSTNAME to get the Fully Qualified Domain Name (FQDN)
HOSTNAME	VARCHAR(63)	The hostname associated with this network adapter; MVE can be configured to retrieve this from DNS or from the network adapter itself. Combine with DOMAIN_NAME_SUFFIX to get the Fully Qualified Domain Name (FQDN)
IP_ADDRESS	VARCHAR(15)	The string representation of this network adapter's IP address; deprecated
IP_ADDRESS_INT	INTEGER	The integer representation of this network adapter's IP address
IP_ADDRESS_SUBNET	INTEGER	The integer representation of the subnet on which this network adapter resides

Field Name	Data Type	Description
MAC_CANONICAL	VARCHAR(12)	The network adapter's MAC address, in canonical format
PORTS	INTEGER	The number of ports this network adapter supports; for now, always 1
RAND_MAC	SMALLINT	Flag indicating whether MAC_CANONICAL's current value was randomly generated. This will be true for a printer that has been imported or manually added and not yet discovered/audited.
CREDENTIAL_REQUIRED	SMALLINT	Flag indicating whether a credential is necessary in order to communicate with the associated printer
CREDENTIAL_PASSWORD	BLOB SUB_TYPE 0	Credential's encrypted password, if set
CREDENTIAL_PIN	BLOB SUB_TYPE 0	Credential's encrypted PIN, if set
CREDENTIAL_REALM	VARCHAR(64)	Credential's realm, if set
CREDENTIAL_USERNAME	VARCHAR(15)	Credential's username, if set
PORT_CONFIG_LST_TCP_OPEN	SMALLINT	Flag indicating whether this port on the associated printer is open
PORT_CONFIG_LST_UDP_OPEN	SMALLINT	Flag indicating whether this port on the associated printer is open
PORT_CONFIG_MDNS_OPEN	SMALLINT	Flag indicating whether this port on the associated printer is open
PORT_CONFIG_NPA_TCP_OPEN	SMALLINT	Flag indicating whether this port on the associated printer is open
PORT_CONFIG_NPA_UDP_OPEN	SMALLINT	Flag indicating whether this port on the associated printer is open
PORT_CONFIG_RAW_PRINT_OPEN	SMALLINT	Flag indicating whether this port on the associated printer is open
PORT_CONFIG_SNMP_OPEN	SMALLINT	Flag indicating whether this port on the associated printer is open
PORT_CONFIG_XML_TCP_OPEN	SMALLINT	Flag indicating whether this port on the associated printer is open

Field Name	Data Type	Description
PORT_CONFIG_XML_TCP_OPEN	SMALLINT	Flag indicating whether this port on the associated printer is open
SECURE_COMMUNICATION_STATE	VARCHAR(255)	One of: UNSECURED, MISSING_CREDENTIALS, or SECURED
USER_PASSWORD	Blob sub_type 0	Username portion of the credentials
SNMP_USERNAME	Vchar(32)	Password portion of the credentials

3.1.3 NETWORK_PRINTER

This table represents the actual printer portion of the physical printer.

Field Name	Data Type	Description
PRINTER_ID	BIGINT	Primary key
FIRMWARE_REVISION	Varchar(255)	Firmware version
MANUFACTURER	VARCHAR(255)	Company that actually made the printer; may differ from DISPLAY_MANUFACTURER
MODEL_NAME	VARCHAR(255)	Model name of this printer
SERIAL_NUMBER	VARCHAR(50)	Serial number of this printer
SYSTEM_NAME	Varchar(255)	Used to identify the device
AIO_CODE_LEVEL	VARCHAR(255)	Current All-In-One firmware revision
BASE_CODE_LEVEL	VARCHAR(255)	Current Base firmware revision
COPIER_OPTION_NAME	Varchar(255)	Name of the scanner used for legacy devices
COLOR	VARCHAR(255)	The type of color used by this model, for example, "CMYK Color"
COPY	SMALLINT	Flag indicating whether this printer supports copying
DUPLEX	SMALLINT	Flag indicating whether this printer supports duplexing
ESF	SMALLINT	Flag indicating whether this printer supports eSF applications
MARKING_TECHNOLOGY	VARCHAR(255)	Type of marking technology used by this printer (i.e. Electrophotographic)
MEMORY	BIGINT	Amount of memory, in bytes

Field Name	Data Type	Description
PROFILE	SMALLINT	Flag indicating whether this printer supports profiles
RECEIVE_FAX	SMALLINT	Flag indicating whether this printer supports receiving faxes
SCAN_TO_EMAIL	SMALLINT	Flag indicating whether this printer supports scan-to-email
SCAN_TO_FAX	SMALLINT	Flag indicating whether this printer supports scan-to-fax
SCAN_TO_NETWORK	SMALLINT	Flag indicating whether this printer supports scan-to-network
SPEED	VARCHAR(255)	Sheets per minute
DISPLAY_MANUFACTURER	VARCHAR(255)	The name that appears on the outside of the printer (i.e. MANUFACTURER could be "LEXMARK" but DISPLAY_MANUFACTURER could be "Dell")
ENGINE_CODE_LEVEL	VARCHAR(255)	Current Engine firmware revision
FAMILY_ID	INTEGER	NPA Family ID
FAX_CODE_LEVEL	VARCHAR(255)	Current Fax firmware revision
FONT_CODE_LEVEL	VARCHAR(255)	Current Font firmware revision
INITIAL_DISCOVERY_TIMESTAMP	TIMESTAMP	When this printer was first discovered
KERNEL_CODE_LEVEL	VARCHAR(255)	Current Kernel firmware revision
LIFETIME_PAGE_COUNT	BIGINT	Lifetime page count
LOADER_CODE_LEVEL	VARCHAR(255)	Current Loader firmware revision
MAINTENANCE_COUNTER	BIGINT	Maintenance counter
ADAPTER_PORT	INTEGER	The port on which this printer is connected to its associated network adapter; for now, will always be 1
NETWORK_CODE_LEVEL	VARCHAR(255)	Current Network firmware revision
NETWORK_DRIVER_CODE_LEVEL	VARCHAR(255)	Current Driver firmware revision
PANEL_CODE_LEVEL	VARCHAR(255)	Current Panel firmware revision
PRINTER_FIRMWARE_CODE_LEVEL	VARCHAR(255)	Current Printer firmware revision
PROPERTY_TAG	VARCHAR(255)	Asset/Brass/Property Tag
SCANNER_CODE_LEVEL	VARCHAR(255)	Current Scanner firmware revision
ADAPTER_ID	BIGINT	Foreign key to NETWORK_ADAPTER.ADAPTER_ID

Field Name	Data Type	Description
RAND_SN	SMALLINT	Flag indicating whether SERIAL_NUMBER's current value was randomly generated. This will be true for a printer that has been imported or manually added and not yet discovered/audited.
DEV_STATUS_REG_COUNTER	INTEGER	A count of the number of device status registrations
SCANNER_SERIAL_NUMBER	VARCHAR(12)	For modular MFPs, the serial number of the scan unit
DISK_ENCRYPTION	VARCHAR(8)	Frequency for which disk encryption is enabled
DISK_WIPING	VARCHAR(8)	Frequency for which disk wiping is enabled

3.1.4 PRINTER_CURRENT_STATUS

This table represents status conditions that exist on printers at the point of time, when data was collected. There will be a row in this table for each status condition on a given printer, all pointing to the same PRINTER_ID.

Field Name	Data Type	Description
STATUS_ID	BIGINT	Primary key
STATUS_MESSAGE	VARCHAR(255)	The text for this status. For example, "Tray 1 Low"
STATUS_SEVERITY	VARCHAR(255)	The severity of this status. For example, "Warning".
STATUS_TYPE	VARCHAR(255)	The type of this status. For example, "Printer" or "Supply".
PRINTER_ID	BIGINT	Foreign key to NETWORK_PRINTER.PRINTER_ID

3.1.5 PRINTER_ESF_APPS

This table represents eSF applications installed on printers. There will be a row in this table for each eSF application, currently installed on a given printer, all pointing to the same PRINTER_ID.

Field Name	Data Type	Description
APPLICATION_ID	BIGINT	Primary key
NAME	VARCHAR(255)	Application name
STATE	VARCHAR(255)	Current state
VERSION	VARCHAR(255)	Current version

Field Name	Data Type	Description
PRINTER_ID	BIGINT	Foreign key to NETWORK_PRINTER.PRINTER_ID

3.1.6 PRINTER_INPUT_OPTIONS

This table represents input options installed on printers. There will be a row in this table for each input option currently installed on a given printer, all pointing to the same PRINTER_ID.

Field Name	Data Type	Description
INPUT_OPTION_ID	BIGINT	Primary key
NAME	VARCHAR(255)	Name of the input option (i.e. Multi-purpose Tray)
PRINTER_ID	BIGINT	Foreign key to NETWORK_PRINTER.PRINTER_ID

3.1.7 PRINTER_INPUT_TRAYS

This table represents input trays associated with an input option. There will be a row in this table for each input tray associated with a given printer, all pointing to the same INPUT_OPTION_ID.

Field Name	Data Type	Description
INPUT_OPTION_ID	BIGINT	Foreign key to PRINTER_INPUT_OPTIONS.INPUT_OPTION_ID
CAPACITY	BIGINT	The maximum number of sheets this tray can hold
FEED_TYPE	VARCHAR(255)	Manual vs. Auto
FORM_SIZE	VARCHAR(255)	Current form size (i.e. Letter)
FORM_TYPE	VARCHAR(255)	Current form type (i.e. Plain Paper)
TYPE	VARCHAR(255)	For example, Multi-purpose Feeder

3.1.8 PRINTER_OPTIONS

This table represents options installed on printers. There will be a row in this table for each option currently installed on a given printer, all pointing to the same PRINTER_ID. Typically, this will be a storage device.

Field Name	Data Type	Description
OPTION_ID	BIGINT	Primary key
FREESPACE	BIGINT	Amount of space remaining
NAME	VARCHAR(255)	For example, DISK, FLASH, Random Access Memory, etc.

Field Name	Data Type	Description
SIZE_	BIGINT	Total amount of space
PRINTER_ID	BIGINT	Foreign key to NETWORK_PRINTER.PRINTER_ID

3.1.9 PRINTER_OUTPUT_BINS

This table represents output bins associated with an output option. There will be a row in this table for each output bin associated with a given printer, all pointing to the same OUTPUT_OPTION_ID.

Field Name	Data Type	Description
OUTPUT_OPTION_ID	BIGINT	Foreign key to PRINTER_OUTPUT_OPTIONS.OUTPUT_OPTION_ID
BINDING	SMALLINT	Flag indicating whether this bin supports binding
BURSTING	SMALLINT	Flag indicating whether this bin supports bursting
CAPACITY	BIGINT	The maximum number of sheets this bin can hold
COLLATION	SMALLINT	Flag indicating whether this bin supports collation
FACE_DOWN	SMALLINT	Flag indicating whether this bin supports face down
FACE_UP	SMALLINT	Flag indicating whether this bin supports face up
LEVEL_SENSING	SMALLINT	Flag indicating whether this bin supports level sensing
PUNCHING	SMALLINT	Flag indicating whether this bin supports hole punching
SECURITY	SMALLINT	Flag indicating whether this bin supports security
SEPARATION	SMALLINT	Flag indicating whether this bin supports separation
STITICHING	SMALLINT	Flag indicating whether this bin supports stitching
TYPE	VARCHAR(255)	For example, Standard Bin, Bin 5, etc.

3.1.10 PRINTER_OUTPUT_OPTIONS

This table represents output options installed on printers. There will be a row in this table for each output option currently installed on a given printer, all pointing to the same PRINTER_ID.

Field Name	Data Type	Description
OUTPUT_OPTION_ID	BIGINT	Primary key
NAME	VARCHAR(255)	Name of the option (i.e. Integrated Hopper, Mailbox, Finisher, etc.)
PRINTER_ID	BIGINT	Foreign key to NETWORK_PRINTER.PRINTER_ID

3.1.11 PRINTER_STATISTICS

This table contains information gathered from a printer's "Meters & Counters" data. Each row represents data for an individual printer. Depending on the model of printer with which the record is associated, not all columns will apply.

Field	Type	Description
STATISTICS_ID	BIGINT	Primary key
COVG_LAST_JOB_BLACK	BIGINT	Black toner coverage of the last job
COVG_LIFETIME_BLACK	BIGINT	Black toner coverage of lifetime jobs
CART_PAGES_PRINT_BLACK	BIGINT	Count of the pages printed that used this black toner cartridge
BLACK_TONER_LEVEL	VARCHAR(255)	Current supply level of the black toner cartridge
PHOTO_COND_LEVEL_K	VARCHAR(255)	Current supply level of the photo conductor (K)
BLANK_SAFE_SIDE_COPY	BIGINT	Count of the blank safe sides from a Copy
BLANK_SAFE_SIDE_FAX	BIGINT	Count of the blank safe sides from a Fax
BLANK_SAFE_SIDE_PRINT	BIGINT	Count of the blank safe sides from a Print
PAPER_CHANGE	BIGINT	Count of paper change events
COVER_OPEN	BIGINT	Count of cover open events
COVG_LAST_JOB_CYAN	BIGINT	Cyan toner coverage of the last job.
COVG_LIFETIME_CYAN	BIGINT	Cyan toner coverage of lifetime jobs
CART_PAGES_PRINT_CYAN	BIGINT	Count of the pages printed which used this cyan toner cartridge
CYAN_TONER_LEVEL	VARCHAR(255)	Current supply level of the cyan toner cartridge

Field	Type	Description
CYAN_TONER_STATUS	VARCHAR(255)	Supply status for the cyan cartridge (i.e. Intermediate)
YELLOW_TONER_STATUS	VARCHAR(255)	Supply status for the yellow cartridge (i.e. Intermediate)
MAGENTA_TONER_STATUS	VARCHAR(255)	Supply status for the magenta cartridge (i.e. Intermediate)
BLACK_TONER_STATUS	VARCHAR(255)	Supply status for the black cartridge (i.e. Intermediate)
PHOTO_COND_LEVEL_C	VARCHAR(255)	Current supply level of the photo conductor (Cyan).
DEVICE_INSTALL_DATE	TIMESTAMP	TIMESTAMP of when the printer was first installed
FUSER_CURRENT_LEVEL	VARCHAR(255)	Current supply level of the fuser
IMG_SAFE_SIDE_COPY	BIGINT	Imaged Printed Sides – Copy
IMG_SAFE_SIDE_FAX	BIGINT	Imaged Printed Sides – Fax
IMG_SAFE_SIDE_PRINT	BIGINT	Imaged Printed Sides – Print
LAST_FAX_JOB_DATE	TIMESTAMP	TIMESTAMP of the last fax job
LAST_PRINTED_JOB_DATE	TIMESTAMP	TIMESTAMP of the last print job
LAST_SCAN_JOB_DATE	TIMESTAMP	TIMESTAMP of the last scan job
COVG_LAST_JOB_MAGENTA	BIGINT	Magenta toner coverage of the last job
COVG_LIFETIME_MAGENTA	BIGINT	Magenta toner coverage of lifetime jobs
CART_PAGES_PRINT_MAGENTA	BIGINT	Count of the pages printed which used this magenta toner cartridge
MAGENTA_TONER_LEVEL	VARCHAR(255)	Current supply level of the magenta toner cartridge
PHOTO_COND_LEVEL_M	VARCHAR(255)	Current supply level of the photo conductor (Magenta)
MAINT_KIT_LEVEL	VARCHAR(255)	Current supply level of the maintenance kit
MEDIA_SIZE_TYPE_MONO_SIDE_SAFE	BIGINT	Mono printed sides (safe)
MEDIA_SIZE_TYPE_COLOR_SIDE_SAFE	BIGINT	Color printed sides (safe)
SUPPLY_EVENTS	BIGINT	Count of “other” supply events
PAPER_JAMS	BIGINT	Count of paper jam events
PAPER_LOAD	BIGINT	Count of paper load events

Field	Type	Description
PRINT_SHEET_USE_PICKED	BIGINT	Printed sheets (picked)
PRINT_SIDE_USE_PICKED	BIGINT	Printed sides (picked)
POR	BIGINT	Count of power-ons
PRINT_AND_HOLD_JOB	BIGINT	Count of print-and-hold jobs
SAFE_SHT_COPY	BIGINT	Printed sheets (safe) – Copy
SAFE_SHT_FAX	BIGINT	Printed sheets (safe) – Fax
SAFE_SHT_PRINT	BIGINT	Printed sheets (safe) – Print
SCAN_PAPER_JAMS	BIGINT	Count of scanner jams
PRINTED_FROM_PRINT_AND_HOLD	BIGINT	Count of printed print-and-hold jobs
PRINTED_FROM_USB	BIGINT	Count of prints from USB
TRANS_BELT_LEVEL	VARCHAR(255)	Current supply level of the transfer belt
USB_DIRECT_JOB	BIGINT	Count of USB insertions
WASTE_TONER_LEVEL	VARCHAR(255)	Current supply level of the waste toner box
COVG_LAST_JOB_YELLOW	BIGINT	Yellow toner coverage of the last job
COVG_LIFETIME_YELLOW	BIGINT	Yellow toner coverage of lifetime jobs
CART_PAGES_PRINT_YELLOW	BIGINT	Count of the pages printed which used this yellow toner cartridge
YELLOW_TONER_LEVEL	VARCHAR(255)	Current supply level of the yellow toner cartridge
PHOTO_COND_LEVEL_Y	VARCHAR(255)	Current level of the photo conductor (Yellow)
IMG_SAFE_SIDE_PRINT_MONO	BIGINT	Imaged Mono Printed Sides (safe) – Print
IMG_SAFE_SIDE_PRINT_COLOR	BIGINT	Imaged Color Printed Sides (safe) – Print
IMG_SAFE_SIDE_COPY_MONO	BIGINT	Imaged Mono Printed Sides (safe) – Copy
IMG_SAFE_SIDE_COPY_COLOR	BIGINT	Imaged Color Printed Sides (safe) – Copy
IMG_SAFE_SIDE_FAX_MONO	BIGINT	Imaged Mono Printed Sides (safe) – Fax
IMG_SAFE_SIDE_FAX_COLOR	BIGINT	Imaged Color Printed Sides (safe) – Fax
FAX_JOB_RECV	BIGINT	Received fax jobs

Field	Type	Description
FAX_JOB_SENT	BIGINT	Sent fax jobs
FAX_PAGE_RECV	BIGINT	Received fax pages
FAX_PAGE_SENT	BIGINT	Sent fax pages
SCAN_COPY	BIGINT	Scans from Copy
SCAN_FAX	BIGINT	Scans from Fax
SCAN_LOCAL	BIGINT	Scan local
SCAN_NET	BIGINT	Scan to network
SCAN_FLAT	BIGINT	Scans from the flatbed
SCAN_ADF_SIMPLEX	BIGINT	Scans from the ADF (simplex)
SCAN_ADF_DUPLEX	BIGINT	Scans from the ADF (duplex)
SCAN_USB_DIRECT	BIGINT	Scans directly to USB
USB_DIRECT_INSERT	BIGINT	Count of USB insertions
CART_INST_DATE_CYAN	TIMESTAMP	TIMESTAMP of when this cyan cartridge was installed
CART_INST_DATE_YELLOW	TIMESTAMP	TIMESTAMP of when this yellow cartridge was installed
CART_INST_DATE_MAGENTA	TIMESTAMP	TIMESTAMP of when this magenta cartridge was installed
CART_INST_DATE_BLACK	TIMESTAMP	TIMESTAMP of when this black cartridge was installed
PRINTER_ID	BIGINT	Foreign key back to NETWORK_PRINTER.PRINTER_ID

3.1.12 PRINTER_SUPPLIES

This table represents supplies in printers. There will be a row in this table for each supply in a given printer, all pointing to the same PRINTER_ID. Depending on the TYPE, not all columns will apply.

Field Name	Data Type	Description
SUPPLY_ID	BIGINT	Primary key
CAPACITY	BIGINT	Maximum sheet capacity of the supply
COLOR	VARCHAR(255)	For example, Black, Cyan, etc. Can be NULL
NAME	VARCHAR(255)	For example, Black Toner, Fuser, Waste Bottle
SMART_CARTRIDGE_PREBATE	SMALLINT	Flag indicating whether this supply is a smart cartridge prebate
SMART_CARTRIDGE_REFILLED	SMALLINT	Flag indicating whether this supply is a smart cartridge refill
SMART_CARTRIDGE_SERIAL_NUMBER	VARCHAR(255)	Smart Cartridge serial number
TYPE	VARCHAR(255)	For example, Toner, Transfer Belt, Fuser, Container, Image Unit, etc.
PRINTER_ID	BIGINT	Foreign key to NETWORK_PRINTER.PRINTER_ID
PERCENT_FULL	BIGINT	Calculated percent of the supply remaining.

3.2 Communication Protocols and Security

The following tables deal with MVE's keywords.

3.2.1 ASSIGNED_KEYWORDS

This table states the keyword(s) assigned to their respective CIs/printers.

Field Name	Data Type	Description
KEYWORD_ID	BIGINT	Composite primary key; foreign key to KEYWORD.KEYWORD_ID
CI_ID	BIGINT	Composite primary key; foreign key to CONFIGURATION_ITEM.CI_ID

3.2.2 KEYWORD

This table lists all the keywords defined in the system.

Field Name	Data Type	Description
KEYWORD_ID	BIGINT	Primary key
KEYWORD_VALUE	VARCHAR(255)	The keyword name
CATEGORY_ID	BIGINT	Foreign key to KEYWORD_CATEGORY.CATEGORY_ID

3.2.3 KEYWORD_CATEGORY

This table lists all the categories defined in the system. It is used for grouping keywords together.

Field Name	Data Type	Description
CATEGORY_ID	BIGINT	Primary key
CATEGORY_VALUE	VARCHAR(255)	The category name

3.3 Configurations

The following tables deal with MVE's configurations.

3.3.1 CONFIGURATION

Defines configuration at the highest level, including the name, model, and whether it can be assigned.

Field Name	Data Type	Description
CONFIGURATION_ID	BIGINT	Primary key
SUPPORTED_MODEL	Varchar(255)	Model name of the printer this Configuration supports
CONFIGURATION_NAME	VARCHAR(255)	Configuration name
ASSIGNABLE	SMALLINT	Flag indicating whether the configuration is currently assignable.

3.3.2 CONFIGURATION_COMPONENT

This table represents one component of a configuration.

Field Name	Data Type	Description
CONFIGURATION_COMPONENT_ID	BIGINT	Primary key
COMPONENT_TYPE	VARCHAR(255)	One of: DEVICE_SETTINGS, SECURITY_CAESAR1, ESF, FIRMWARE
CREDENTIAL_PASSWORD	BLOB SUB_TYPE 0	Credential's encrypted password, if set
CREDENTIAL_PIN	BLOB SUB_TYPE 0	Credential's encrypted PIN, if set
CREDENTIAL_REALM	VARCHAR(255)	Credential's realm, if set
CREDENTIAL_USERNAME	VARCHAR(255)	Credential's username, if set
CONFIGURATION_ID	BIGINT	The foreign key to CONFIGURATION.CONFIGURATION_ID
COMPONENT_NAME	VARCHAR(255)	Component name
SUPPORTED_MODEL	VARCHAR(255)	Model name of the printer this Configuration Component supports
LICENSE_TYPE	VARCHAR(255)	One of: PRODUCTION, TRIAL, FACTORY
FLASH_TRANSFER_METHOD		One of: FTP, SOCKET, WEB_SERVICE
LOGIN_METHOD		
MERGE_DATA_PATH		File location of a variable settings file.

Field Name	Data Type	Description
FLASH_FILE_SHA1	VARCHAR(255)	The SHA1 hash of the flash file for a firmware component.

3.3.3 ASSIGNED_CONFIGURATIONS

This table tells which configurations are assigned to which CIs/printers.

Field Name	Data Type	Description
CI_ID	BIGINT	Composite primary key; foreign key back to CONFIGURATION_ITEM.CI_ID
CONFIGURATION_ID	BIGINT	Composite primary key; foreign key back to CONFIGURATION.CONFIGURATION_ID
COMPLIANCE_STATE	VARCHAR(255)	Current conformance state for this configuration
LAST_COMPLIANCE_CHECK	TIMESTAMP	When the last compliance check was run

3.3.4 FAILED_COMPONENT and FAILED_COMPONENT_SETTINGS

This table maintains any settings that are out of conformance so that this information can be communicated to clients.

Field Name	Data Type	Description
FAILED_SETTINGS_ID	BIGINT	Primary key
CI_ID	BIGINT	Foreign key back to ASSIGNED_CONFIGURATIONS.CI_ID
CONFIGURATION_ID	BIGINT	Foreign key back to ASSIGNED_CONFIGURATIONS.CONFIGURATION_ID
SETTING_ID	BIGINT	Foreign key back to CONFIGURATION_SETTINGS.SETTING_ID

3.3.5 FLASHFILE

This table deals with storing information retrieved from a flash file's header.

Field Name	Data Type	Description
ID	BIGINT	Primary key
FILENAME	VARCHAR(256)	The file name/location within MVE's repository
SHA1	VARCHAR(255)	The SHA1 hash of the flash file

Field Name	Data Type	Description
DISPLAY_NAME	VARCHAR(255)	A version identifier of the flash file.
DATE_IMPORTED	TIMESTAMP	Date the flash file was imported

3.3.6 CERTIFICATES

This table represents information about the MVE CA Certificate library resources.

Field Name	Data Type	Description
CERTIFICATE_ID	BIGINT	Primary key
NAME	VARCHAR(255)	The user friendly name of a CA Certificate
PEM_CERTIFICATE	BLOB	The PEM representation of a CA Certificate
DATE_IMPORTED	TIMESTAMP	The date the CA Certificate was imported into MVE
PEM_CERTIFICATE_SHA2	VARCHAR (64)	SHA2 hash of this CA Certificate

3.3.7 COMPONENT_SETTINGS

This table represents settings contained within a given configuration component. There will be a row in this table for each setting associated with the configuration component, all pointing to the same CONFIGURATION_COMPONENT.CONFIGURATION_COMPONENT_ID. The values are encrypted and not available outside of MVE.

3.4 Discovery Profiles

The following tables are used to track MVE's discovery profiles.

3.4.1 DISCOVERY_PROFILE

This table represents the heart of MVE's discovery profile.

Field Name	Data Type	Description
ID	BIGINT	Primary key
NAME	VARCHAR(255)	User-supplied name for the profile
RETRIES	INTEGER	Number of times to retry a particular communication attempt with a printer
SNMP_READ_COMMUNITY_NAME	VARCHAR(255)	SNMP Community Name to use when reading
SNMP_WRITE_COMMUNITY_NAME	VARCHAR(255)	SNMP Community Name to use when writing

Field Name	Data Type	Description
TIMEOUT	BIGINT	Number of milliseconds to wait for a particular communication attempt with a printer to succeed
INCLUDE_NON_LEXMARK	SMALLINT	Flag indicating whether non-Lexmark printers should be searched during discovery
INCLUDE_IN_SECURE_MODE	SMALLINT	Flag indicating whether restricted printers should be searched for during discovery
SNMP_USERNAME	VARCHAR(32)	Username for SNMP communication
SNMP_PASSWORD	VARCHAR(32)	Password for SNMP communication
SNMP_MIN_AUTHENTICATION_LEVEL	VARCHAR(255)	Minimum authentication level for SNMP
SNMP_AUTHENTICATION_HASH	VARCHAR(50)	Hash used for SNMP authentication
SNMP_PRIVACY_ALGORITHM	VARCHAR(50)	Algorithm used for SNMP privacy

3.4.2 DISCOVERY_PROFILE_CI

This table contains the CI-specific pieces of the discovery profile.

Field Name	Data Type	Description
CI_DP_ID	BIGINT	Primary key; foreign key back to DISCOVERY_PROFILE.ID
AUTOMANAGE	SMALLINT	Flag indicating whether CIs discovered using this profile should be automatically managed

3.4.3 EXCLUDE_PROFILE_ITEM

This table represents the “exclude” list for a profile. Each excluded item will be a row in this table.

Field Name	Data Type	Description
DISCOVERY_PROFILE_ID	BIGINT	Composite primary key; foreign key back to DISCOVERY_PROFILE.ID
VALUE_	VARCHAR(255)	Composite primary key. This defines what to exclude.

3.4.4 INCLUDE_PROFILE_ITEM

This table represents the “include” list for a profile. Each included item will be a row in this table.

Field Name	Data Type	Description
DISCOVERY_PROFILE_ID	BIGINT	Composite primary key; foreign key back to DISCOVERY_PROFILE.ID
VALUE_	VARCHAR(255)	Composite primary key. This defines what to include.

3.5 ESF

3.5.1 ESF_APPLICATION

This table contains all the eSF applications available in the MVE library.

Field	Type	Description
ESF_APP_ID	BIGINT	Primary key
ESF_DP_ID	BIGINT	Foreign key back to ESF_DEPLOYABLE_PACKAGE.ESF_DP_ID
APP_ID	VARCHAR(255)	
VERSION	VARCHAR(255)	ESF Application version
DESCRIPTION_URI	VARCHAR(255)	URI to description of ESF Application
FLS_URI	VARCHAR(255)	URI to Flash file

3.5.2 ESF_APPS_TO_EXCLUDE

This table contains one row for each application to exclude from the solutions component of a configuration.

Field	Type	Description
ESF_COMPONENT_ID	BIGINT	The foreign key to CONFIGURATION_COMPONENT.CONFIGURATION_COMPONENT_ID
APP_ID	VARCHAR(255)	The foreign key to ESF_APPLICATION.ESF_APP_ID

3.5.3 ESF_COMP_DEPLOYABLE_PACKAGE

This table contains one row for each deployable package in use by an MVE configuration.

Field	Type	Description
ESF_COMPONENT_ID	BIGINT	The foreign key to CONFIGURATION_COMPONENT.CONFIGURATION_COMPONENT_ID
ESF_DP_ID	VARCHAR(255)	The foreign key to ESF_DEPLOYABLE_PACKAGE.ESF_DP_ID

3.5.4 ESF_DEPLOYABLE PACKAGE

This table represents all the deployable packages that have been uploaded to the MVE library.

Field	Type	Description
ESF_DP_ID	BIGINT	Primary key
NAME	VARCHAR(255)	Name of the deployable package
PART_NUMBER	VARCHAR(255)	Part number of the deployable package
PART_REVISION	VARCHAR(255)	Part revision of the deployable package
LICENSE_REQUIRED	SMALLINT	Flag indicating whether a license is required for the deployable package
URI	VARCHAR(255)	URI of the deployable package
DATE_IMPORTED	TIMESTAMP	Date the deployable package was imported
VERSION	VARCHAR(255)	Version of the deployable package
ESF_APPLICATION_LOCALE		
ESF_DEPLOYABLE_PACKAGE_LOCALE		

3.5.5 ESF_DP_SUPPORTED MODELS

This table contains one row for each model supported by a deployable package in the MVE library.

Field	Type	Description
ESF_DP_ID	BIGINT	Foreign key back to ESF_DEPLOYABLE_PACKAGE.ESF_DP_ID
SUPPORTED_MODEL	VARCHAR(255)	Model name of printer supported by the deployable package

3.5.6 ESF_LICENSE

This table represents the licenses for eSF applications available in the MVE library.

Field	Type	Description
ESF_LICENSE_ID	BIGINT	Primary key
PRINTER_SERIAL	VARCHAR(255)	Serial number of the printer the license is tied to
PART_NUMBER	VARCHAR(255)	Part number of the package the license is tied to
PART_REVISION	VARCHAR(255)	Part revision of the package the license is tied to
LICENSE_TYPE	VARCHAR(255)	One of TRIAL, PRODUCTION

Field	Type	Description
FILE_NAME	VARCHAR(255)	Filename of the license binary
DEPLOYED	SMALLINT	Flag indicating whether the license has been deployed or not

3.6 Authentication and Authorization

The following tables are used by MVE's user authentication and authorization mechanism.

3.6.1 MASTER_ROLE

This table contains all the roles supported by MVE.

Field Name	Data Type	Description
ID	BIGINT	Primary key
ROLE_NAME	VARCHAR(255)	Name of the role

3.6.2 USERS

This table holds all of MVE's internal user accounts.

Field Name	Data Type	Description
ID	BIGINT	Primary key
USER_NAME	VARCHAR(15)	User-supplied username
USER_PASS	VARCHAR(1024)	User-supplied password
ENABLED	SMALLINT	Flag indicating whether this account is currently enabled
NAME	VARCHAR(255)	User-supplied full name
LAST_LOGIN	TIMESTAMP	When the last login was attempted
LOGIN_ATTEMPT	BIGINT	Current number of attempts made at a successful login

3.6.3 USER_ROLE

This table holds the association of users to roles.

Field Name	Data Type	Description
ID	BIGINT	Primary key
USER_NAME	VARCHAR(15)	Foreign key back to USERS.USER_NAME

Field Name	Data Type	Description
ROLE_NAME	VARCHAR(30)	Foreign key back to MASTER_ROLE.ROLE_NAME

3.7 Security Settings

The following tables deal with information related to security settings in a configuration. As the Security Configuration information is encrypted for data safety, unavailable outside of MVE and not useful in the scope of this document, the details of these tables will be omitted.

SEC_ACCESS_CONTROL

SEC_AUTH_GROUP

SEC_BUILDING_BLOCK

SEC_BUILDING_BLOCK_SETTINGS

SEC_COMPONENT_MISC_SETTINGS

SEC_INTERNAL_ACCOUNT

SEC_INTERNAL_ACCOUNT_GROUPS

SEC_INTERNAL_ACCOUNT_SETTINGS

SEC_SECURITY_TEMPLATE

SEC_SECURITY_TEMPLATE_BBS

SEC_SECURITY_TEMPLATE_GROUPS

CAESAR2_LOCAL_ACCOUNTS

CAESAR2_MISC_SETTINGS

CAESAR2_KRB_SETUP

CAESAR2_COMP_LOCAL_ACCTS

CAESAR2_LOCAL_ACCOUNT_GROUPS

CAESAR2_GROUPS

CAESAR2_COMP_GROUPS

CAESAR2_GROUP_PERMISSIONS

CAESAR2_KRB_SETUP_PERMISSIONS

CAESAR2_COMP_PUBLIC_PERMS

CAESAR2_LDAP_SETUPS

CAESAR2_COMP_LDAP_SETUPS

CAESAR2_LDAP_SEARCH_OBJECTS

CAESAR2_LDAP_SETUP_GROUPS

CAESAR2_LDAP_SERVER_INFO

CAESAR2_LDAP_DEVICE_CREDS

CAESAR2_SOLUTION_ACCTS

CAESAR2_LDAP_ADDRESS_BOOKS

CAESAR2_LDAP_SEARCH_ATTRS

CAESAR2_COMP_SOLN_ACCTS

3.8 Event Manager

The following tables deal with information related to creating and managing events.

3.8.1 ALERT

This table contains all of the alerts MVE supports.

Field Name	Data Type	Description
ID	BIGINT	Primary key
NAME	VARCHAR(255)	The textual name of the alert. For example "Supply Alert"
SEVERITY	VARCHAR(255)	For example, "ERROR"
CATEGORY	VARCHAR(255)	For example, "SUPPLIES"

3.8.2 ASSIGNED_EVENTS

This table links Events with their assigned Configuration Items.

Field Name	Data Type	Description
CI_ID	BIGINT	Composite primary key; refers to CONFIG_ITEM.CI_ID
EVENT_ID	BIGINT	Composite primary key; refers to EVENT.EVENT_ID
EVENT_REGISTRATION_STATE	VARCHAR(255)	One of: REGISTERED or NOT_REGISTERED

3.8.3 DESTINATION

This table represents a Destination within the Event Manager module.

Field Name	Data Type	Description
ID	BIGINT	Primary key
DESTINATION_TYPE	VARCHAR(31)	The type, currently either email or shell/command. Depending on the type, not all columns will apply.
NAME	VARCHAR(255)	User-supplied name of the destination
EMAIL_BODY	VARCHAR(255)	Email body text
EMAIL_CC	VARCHAR(255)	Email CC list
EMAIL_FROM	VARCHAR(255)	Email From text

Field Name	Data Type	Description
EMAIL_SUBJECT	VARCHAR(255)	Email Subject text
EMAIL_TO	VARCHAR(255)	Email To text
COMMAND_PATH	VARCHAR(255)	Full path to command to execute
COMMAND_PARAMS	VARCHAR(255)	Any parameters to send to the command

3.8.4 EVENT

This table contains user-created events, which consist of a name, a description and a collection of alerts to include.

Field Name	Data Type	Description
NAME	VARCHAR(255)	User-supplied name of the event
DESCRIPTION	VARCHAR(255)	User-supplied description of the event
EVENT_ID	BIGINT	Primary key
TRIGGER_DESTINATIONS	VARCHAR(255)	One of: on_active_onlyl or on_active_and_clear
GRACE_PERIOD_ENABLED	SMALLINT	Flag indicating whether grace period is enabled
GRACE_PERIOD_MINUTES	INTEGER	Number of minutes for the grace period

3.8.5 EVENT_ALERTS

This table links an Event to the collection of alerts it includes.

Field Name	Data Type	Description
EVENT_ID	BIGINT	Composite primary key; refers to EVENT.EVENT_ID
ALERT_ID	BIGINT	Composite primary key; refers to ALERT.ALERT_ID

3.8.6 EVENT_DESTINATIONS

This table links an Event to an associated Destination.

Field Name	Data Type	Description
EVENT_ID	BIGINT	Composite primary key; refers to EVENT.EVENT_ID
DESTINATION_ID	BIGINT	Composite primary key; refers to DESTINATION.DESTINATION_ID

3.8.7 PRINTER_EVENT_ACTIVE_CONDITIONS

This table represents the active conditions/alerts for printers with events that trigger that condition/alert. Multiple conditions would be multiple rows, all pointing to the same PRINTER_ID.

Field Name	Data Type	Description
ACTIVE_CONDITION_ID	BIGINT	Primary key
LOCATION	VARCHAR(255)	For example, "Tray 1"
MESSAGE	VARCHAR(255)	For example, "Tray Missing"
TYPE	VARCHAR(255)	For example, "Intervention Required"
CI_ID	BIGINT	Refers to CONFIG_ITEM.ID
DESTINATION_TASK_ID	VARCHAR(80)	Foreign key back to SYSTEM_LOG.TASK_ID

3.9 Miscellaneous

The following tables provide useful storage but do not fit into any of the previous table categories. They are basically "one off" tables.

3.9.1 APPLICATION_SETTINGS

This table currently holds various "user preferences."

Field Name	Data Type	Description
ID	BIGINT	Primary key
SETTING_KEY	VARCHAR(255)	Preference name
SETTING_VALUE	VARCHAR(8190)	Preference value

3.9.2 BOOKMARK

This table contains all of MVE's bookmarks. They are currently stored as BLOBs; therefore, they cannot be edited outside of MVE.

Field Name	Data Type	Description
ID	BIGINT	Primary key
DEFAULT_SEARCH	SMALLINT	Flag indicating whether this bookmark is one of the defaults that ships with MVE
NAME	VARCHAR(255)	User-supplied name of the bookmark
SEARCH_CRITERIA	BLOB SUB_TYP E 0	The binary representation of the bookmark

Field Name	Data Type	Description
DESERIALIZABLE	Smallint	

3.9.3 CHANGED_SETTINGS

This table contains information about settings that changed between the last two Audits.

Field Name	Data Type	Description
ID	BIGINT	Primary key
CI_ID	BIGINT	Refers to CONFIG_ITEM.ID
SETTING_NAME	VARCHAR(255)	The name of the setting that changed.
CHANGE_TYPE	VARCHAR(255)	One of: ADD, UPDATE, REMOVE

3.9.4 DATABASECHANGELOG

This table is used by Liquibase, a schema migration tool. It contains a list of all the statements that have been run against the database to get the schema into the current state.

3.9.5 DATABASECHANGELOGLOCK

This table is used by Liquibase, as well. It is used to make sure two machines do not attempt to modify the database at the same time.

3.9.6 SMTP_CONFIGURATION

This table contains configuration for the Simple Mail Transfer Protocol, which allows MVE users, when necessary, to send emails. Currently, there will be only one row.

Field Name	Data Type	Description
ID	BIGINT	Primary key
FROM_ADDRESS	VARCHAR(255)	The email address that sent emails should be "from."
LOGIN_ID	VARCHAR(255)	User ID for the SMTP server
LOGIN_PASSWORD	VARCHAR(255)	Password associated with the user ID for the SMTP server
LOGIN_REQ	SMALLINT	Flag indicating whether or not the SMTP server requires a login
SMTP_PORT	BIGINT	The port of the SMTP server
SMTP_SERVER	VARCHAR(255)	The hostname/IP of the SMTP server
SMTP_ENABLE	SMALLINT	Flag indicating whether SMTP is enabled or not

3.9.7 SYSTEM_LOG

This table can get very large. It contains all of the system log messages that are produced as MVE carries out its tasks.

Field Name	Data Type	Description
LOG_ID	BIGINT	Primary key
TIMESTAMP_	TIMESTAMP	Time the message was logged
TASKID	BIGINT	Task instance that generated the message
TASKNAME	VARCHAR(50)	Task that generated the message
LEVEL_	INTEGER	DEBUG, INFO, etc.
MESSAGE_	VARCHAR(8000)	The actual log message

Note: *MONITOR* is a smaller database where task statistics are stored. Currently only the *TASK_INFO* table is described in this document.

Lexmark International, Inc.

740 W. New Circle Road
Lexington, KY 40550, U.S.A
Tel: +1-859-232-2000
www.lexmark.com