MarkVision Professional 10.2 Data Export

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Abstract

This document focuses on the technical issues surrounding MarkVision Professional (MVP)'s database support. The intent of this document is to cover the structure of the data and provide details concerning the content.

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MarkVision Professional 10.2

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1. Overview

MarkVision Professional allows you to collect comprehensive data on the physical devices (Printer Inventory) and on submitted jobs to the devices (Job Statistics). The MarkVision Professional database consists of a number tables, each prefixed with the word RAW. The next prefix determines the table's function:

JA	Job Statistics
PI	Printer Inventory
DS	Device Status
DeviceStatus	Device Status
PRN	Master Printer data table
Device	Master Device data table

2. Configuring Database Driver

2.1 Supported Databases

2.1.1 Windows

- Oracle (all versions from 8i through 10g)
- SQL Server (6.5, 7.0, 2000)
- Microsoft Access (97, 2000, 2002)
- Comma-separated variable (CSV)

NOTE: The 'Oracle' database option is only available after installing the up-to-date MVP Plug-in for Oracle JDBC Driver support.

2.1.2 UNIX

- Oracle (versions 8i through 10g)
- Comma-separated variable (CSV)

NOTE: The 'Oracle' database option is only available after installing the Oracle JDBC Driver plugin.

2.2 Creating Windows System DSN

Before you can enable MarkVision Professional to collect printer inventory or Job Statistics information on windows systems, you must first configure the ODBC data source. The system ODBC settings can be accessed from the system control panel.

Example 1: $Start \rightarrow Settings \rightarrow Control Panel \rightarrow Data Sources (ODBC)$ for Windows NT 4.0 Example 2: $Start \rightarrow Settings \rightarrow Control Panel \rightarrow Administrative Tools \rightarrow Data Sources (ODBC for Windows 2000 and beyond$

Once in the ODBC settings dialog box, click on the System DSN tab. The following box should appear.

🕅 ODBC D	ata Source Administrator			
User DSN	System DSN File DSN Drivers Tracing Connection Pooling About			
<u>S</u> ystem D	ata Sources:			
Name	Driver Add			
	<u>R</u> emove			
	<u>C</u> onfigure			
An ODBC System data source stores information about how to connect to the indicated data provider. A System data source is visible to all users on this machine, including NT services.				
	OK Cancel Apply Help			

2.2.1 Microsoft Access

From the System DSN dialog box, click "Add" and the following dialog box will appear. Select Microsoft Access Driver (*.mdb) and click "Finish."

Create New Data Source	E	×
	Select a driver for which you want to set up a data source.	
	< Back. Finish Cancel	J

After clicking "Finish", the following dialog box will appear. Think of a name for your connection and type it into the "Data Source Name" (DSN) field, and then type a description for the data

source. For the example, MVP has been chosen for the name, and the description is "connection for MVP printer inventory".

ODBC Microsoft Access Setup ? 🗙				
Data Source <u>N</u> ame:	MVP	ОК		
Description:	connection for MVP printer inventory	Cancel		
Database:		<u>H</u> elp		
<u>S</u> elect	<u>Create</u> <u>Repair</u> Compact	<u>A</u> dvanced		
- System Database-				
• Non <u>e</u>				
C Da <u>t</u> abase:				
	System Database	<u>O</u> ptions>>		

After the name and description for the connection has been entered, you must specify a database in which to store the data coming from MarkVision Professional. You may either "Select" a database already created for this purpose, or choose "Create" to define a new database and location. Click on "Create" and the following dialog box will appear.

New Database		×
Database N <u>a</u> me *.mdb	Directories: c:\winnt C:\ WINNT CatRoot Config Cursors Help Java Media Msagent	OK Cancel <u>Help</u> Eormat Version 4.x Version 3.x Version 2.x
Locale	MSApps MSApps Offline Web Pages Profiles PVCSPRIV Drives:	System Database Encryption
General	C: Dongsheng OS	Network

Browse to the desired directory, and specify a name to be used for your database. Make a note of the name and location; you may need this information to configure MarkVision Professional or to design reports in MS Access later. **NOTE:** "Format" depends upon which version of Access you will be using to view the database. Version 4.x is for Access 2000 and higher, Version 3.x is for Access 97 and 95. Click "OK" and a confirmation dialog box should appear.

Click "OK" for the confirmation, and then "OK" again on the ODBC Microsoft Access Setup dialog box to return to the ODBC Data Source Administrator.

Ø	ODBC D	ata Source Administrator		
ſ	Jser DSN	System DSN File DSN Drivers Tracing Connection Pooling About		
	<u>S</u> ystem Da	ata Sources:		
	Name	Driver Add		
	MVP	Microsoft Access Driver (*.mdb)		
	An ODBC System data source stores information about how to connect to the indicated data provider. A System data source is visible to all users on this machine, including NT services.			
		OK Cancel Apply Help		

The name you specified for your connection (DSN) is now listed under System DSN. Click "OK". You are now ready to configure MarkVision Professional to start sending the data.

In MarkVision Professional, after selecting the "Access" database selection, the URL field should become enabled.

Database	Access 🔽 🕐	
URL	jdbc:odbc: <dsn></dsn>	3

In the URL field, type the name of the System DSN you created earlier. It is not necessary to specify the path to the actual database file; this was defined while creating the connection. For the example just described, enter **jdbc:odbc:MVP**. If you have enabled security features while creating the database, enter the user name and password and click on "OK."

2.2.1.1 Locating an Access Database on a Different Server

It is possible to store an Access database on a different server than the machine on which the MarkVision server resides. By default, the MarkVision server service accesses network resources using the Administrator account. You may have to alter the account used to enable the appropriate network access. To enable the MarkVision server to access the alternate location, some changes must be made to the MarkVision Server service. On the services dialog box, select the MarkVision Server service.

ier <u>v</u> ice	Status	Startup	Close
Lexmark MarkTrack Listener		Manual 🔺	
Lexmark MarkTrack Printer Inventory		Manual	Start
Lexmark MarkTrack Sender		Manual	
Machine Debug Manager	Started	Automatic	Stop
MarkVision Server	Started	Automatic	
MarkVision Web Server	Started	Automatic	Pause
Messenger	Started	Automatic	Continue
Microsoft Office Search		Disabled	
NAV Alert	Started	Manual	Sta <u>r</u> tup
NAV Auto-Protect	Started	Automatic 💌	Jajup
			H <u>W</u> Profiles
Startup Parameters:			

Access the properties of the service by either double-clicking the service in Windows NT, or clicking the properties button in Windows 2000 and beyond.

Service	×
Service: MarkVision Server	
Startup Type <u>A</u> utomatic <u>M</u> anual Disabled	OK Cancel
Log On As: © System Account © Allow Service to Interact with De	<u>H</u> elp
Ihis Account: LocalSystem Bassword: ************************************	<u></u>

Select "This Account" to log on to the new machine as a user with appropriate network access privileges and click "OK."

2.2.2 SQL Server

The method for creating a DSN under Windows for Microsoft's SQL Server is nearly identical to Access. Simply substitute "SQL Server" for the system DSN. See <u>Microsoft Access</u> for more information.

2.3 Oracle

MarkVision Server's install package no longer contains an Oracle JDBC driver by default. As a result of modified licensing agreements, Lexmark is no longer able to directly distribute Oracle JDBC (database) support. If out-of-date drivers existed on your system from a previous release of MarkVision Professional, they have been removed. If you require Oracle support, you will need to register and download the **Oracle JDBC Driver v1.2.mvp** plug-in from the following web page: http://www.markvisionprofessional.com.

After downloading and installing in the appropriate plug-in, the "Oracle" database selection will become available. In MarkVision Professional, after selecting the "Oracle" database selection, the URL field should become enabled.



In the URL field, change the "localhost" value to the hostname or IP address of the machine running your Oracle database. The URL must use the following format:

<database driver>@<database server's IP address>:<database port>:<database instance (memory area)>

For example: jdbc:oracle:thin:@157.184.46.113:1521:orcl. If you have enabled security features while creating the database, enter the user name and password and click on "OK."

2.4 CSV

Users may elect to export database information to a CSV format. In MarkVision Professional, after selecting the "CSV" database selection, the 'Directory' field should become enabled.

Database CSV	3
Directory	
	3

Due to the multi-dimensional aspect of the data being collected, multiple CSV files are generated. Each file represents a table and the primary/foreign key relationship, as described below, is how information in these files should be correlated.

Database insertions (including CSV file manipulation) are handled by a separate thread to reduce I/O impact of such insertions on the rest of the system. This thread, by default, has a 2 minute time-out, so database insertions and CSV file manipulation will not occur immediately after task completion. In other words, the printer inventory task may say complete, but the CSV files will not be modified until the database insertion timeout is breached. Modify the **queueWriter.pollingRate** parameter to change the default behavior of this thread.

3. Printer Inventory

You can use the MarkVision Server to gather and store information about the devices in your organization. You can then view the collected information (*printer inventory*) using a database tool or an application, such as MarkTrack, specifically designed to interpret and display the information. See <u>Configuring Database Driver</u> for a description of supported databases.

Use the information gathered by the printer inventory process to answer questions such as:

- How many printers do we have on our server(s) / network?
- What types of printers do we have?
- What options are installed on our printers?
- What is the lifetime page count of our printers?
- What are the addresses of our printers?

3.1 Configuring MarkVision Professional

Open the MarkVision Professional client. Select "Actions" on the toolbar and then "Printer Inventory" from the drop-down list, or "Printer Inventory" from the "All Tasks" list.

🚸 Mark¥ision Professional - localhost 👘	
MarkVision View Features Settings	Actions Help
 ↓ ♦ ▲ ■ ■ ▲ ■ ■ ▲ Quick Find → Folders → → All Devices (55) → → Printers (26) → → Print Servers (29) 	Image: Operator Panel Image: Operator Panel Lock/Unlock Image: Operator Panel Lock/Unlock <t< td=""></t<>
Folder Contents (29)	Firmware Download (Print Server) Device Discovery Job Accounting (Trend Analysis) Printer Inventory
Filter <none> Filter <none> State of the s</none></none>	MarkVision Messenger Launch

The Printer Inventory screen should be displayed.

🔄 Printer Inventory	×
Access	User Name 0 Password 0
All Printe Oracle SQL Server Quick Find Folders Quick Find Folders All Devices (55) Print Servers (29) Folder Contents Filter <\\one> Wone> Wone Wone Wone	s Selected Printers
Ok	Cancel Apply Collect Now 💡 Tips

Select the appropriate database. Follow database specific instructions in the <u>Configuring</u> <u>Database Driver</u> section.

3.2 Table and Field Descriptions

The tables and descriptions of each field are listed below. The data types listed for each field listed are specific to Oracle databases. Please reference the <u>Data Type Conversion</u> section for converting to Microsoft Access or SQL Server data types.

3.2.1 RAWPRNINV

This is the master table for Printer Inventory. It contains data such as address, protocol, capability of the device, revision level, RAM size, etc.

Field Name	Data Type	Supported MVP Release	Description	
	Note: All printers may not support some fields. For more specific information, please contact Lexmark Customer Support at http://support.lexmark.com .			
START_TIME_UTC	NUMBER(10)	MVP 7.1	Time at which this printer inventory was initiated, in seconds elapsed since 0:00:00, Jan 1, 1900, GMT.	
	VARCHAR2(255)	MVP 7.1	String identifier Granite uses to identify this device.	
VERSION	NUMBER(5)	MVP 7.1	Version of the data format used in this table.	
YEAR	NUMBER(4)	MVP 7.1	Year in which this device inventory was initiated.	
MONTH	NUMBER(2)	MVP 7.1	Month in which this device inventory was initiated. Day of the month in which	
DAY	NUMBER(2)	MVP 7.1	this device inventory was initiated.	
DAY_OF_WEEK	NUMBER(1)	MVP 7.1	Day of week on which this device inventory was initiated.	
HOURS	NUMBER(2)	MVP 7.1	Hour of the day in which this device inventory was initiated.	
MINUTES	NUMBER(2)	MVP 7.1	Minute of the hour in which this device inventory was initiated.	
SECONDS	NUMBER(2)	MVP 7.1	Seconds of the minute in which this device inventory was initiated.	
_GMT_OFFSET_IN_SECONDS	NUMBER(5)	MVP 7.1	Offset from GMT of the current time zone, in seconds. This is an integer from -43200 to 43200.	
IS_USING_DST	VARCHAR2(1)	MVP 7.1	Does the current time zone use Daylight Savings Time? Possible values = "Y" for true, "N" for false.	
DST_OFFSET_IN_SECONDS	NUMBER(4)	MVP 7.1	Offset from Standard Time of the current time zone, in seconds.	
DATA_SOURCE	VARCHAR2(32)	MVP 7.1	Where did this record come from? Possible Values: 'Granite V.x.x'	

RMIPORTNUMBER	NUMBER(10)	MVP 10.1	Marvision Sever's RMI service Port Number
SERVER_IP_ADDRESS	VARCHAR2(20)	MVP 10.1	IP Address of the host m/c on which Markvision server is running
MANUFACTURER	VARCHAR2(32)	MVP 7.1	Device manufacturer.
PANEL_IS_LOCKED	VARCHAR2(1)	MVP 7.1	Specifies if the device operator panel is currently locked from accepting button presses.
PANEL_SIZE_UNITS	VARCHAR2(16)	MVP 7.1	Currently, the value "Characters" is always returned.
PANEL_WIDTH	NUMBER(10)	MVP 7.1	Width of device's remote operator panel in characters.
PANEL_HEIGHT	NUMBER(10)	MVP 7.1	Height of device's remote operator panel in characters. Lifetime page count of
LIFETIME_PAGE_COUNT	NUMBER(10)	MVP 7.1	this device at the time of this inventory.
MODEL_NAME	VARCHAR2(64)	MVP 7.1	Model name of device.
SERIAL_NUMBER	VARCHAR2(32)	MVP 7.1	Device serial number.
RAM_SIZE	NUMBER(10)	MVP 7.1	Total amount of main memory on this device.
SPEED	NUMBER(10)	MVP 7.1	Speed at which this device prints.
SPEED UNITS	VARCHAR2(45)	MVP 7.1	Units in which print speed is measured (e.g. Sheets Per Minute)
DISPLAY_LANGUAGE	VARCHAR2(32)	MVP 7.1	The language in which the panel data lines and function strings are returned.
MARKING_TECHNOLOGY	VARCHAR2(45)	MVP 7.1	Technology used by this device to transfer electronic data to paper.
COLOR_CAPABILITIES	VARCHAR2(32)	MVP 7.1	Possible Values: Unknown, CMY Color, CMYK Color, Monochrome, Spot Color
PRODUCT_REVISION	VARCHAR2(32)	MVP 7.1	The product revision.
BRASS_TAG	VARCHAR2(40)	MVP 7.1	This is a general purpose string used to identify this device; The user may set this to anything they want.
DUPLEX_SHORT_EDGE_BIND	VARCHAR2(1)	MVP 7.1	Possible Values: "true" or "false".
DUPLEX_LONG_EDGE_BIND	VARCHAR2(1)	MVP 7.1	Possible Values: "true" or "false".
REMINDER_DAY	NUMBER(2)	MVP 7.1	Possible Values: 31 >= n

			>= 0; 0 = not set.
			Possible Values: 12 >= n
REMINDER_MONTH	NUMBER(2)	MVP 7.1	>= 0; 0 = not set.
			Possible Values: 255 >=
			$n \ge 0$; offset from 1996:
REMINDER_YEAR	NUMBER(4)	MVP 7.1	0 = 1996, 1 = 1997, etc.
			Possible Values: Bit
			encoded: bits $0-3 = type$,
			bit 0 = supplies, bit 1 = toner/ink, bit 2 =
			maintenance, bit 3 =
			other, bits $4-7 = $ status,
			bit $4 =$ reserved, bit $5 =$
			acknowledged, bit 6 =
			assigned, bit 7 =
REMINDER_STATUS	NUMBER(3)	MVP 7.1	completed.
			Percent of the disk used
			by the buffering partition.
			WARNING: Only valid
			with job buffering version 1. (See the device's
DISK_SPOOLER_PCT	NUMBER(10)	MVP 7.1	capability list.)
		10101 7.1	Percent of buffering
			partition currently free.
			This information is not
			available on certain older
			printers. WARNING: Only
			valid with job buffering
			version 1. (See the
	NUMBER(10)	MVP 7.1	device's capability list.)
IS_COMMUNICATING	VARCHAR2(1)	MVP 7.1	Always set to "Y". The MAC address for the
			print server in MSB form.
			(This value will equal the
			LAA, if it's being used;
			otherwise, it will equal the
MAC_ADDRESS	VARCHAR2(12)	MVP 7.1	UAA.)
			The print server's IP
IP_ADDRESS	VARCHAR2(15)	MVP 7.1	address.
CUDNET MACK			The print server's network
SUBNET_MASK	VARCHAR2(15)	MVP 7.1	mask. DNS Name for this
DNS_NAME	VARCHAR2(255)	MVP 7.1	device.
		10101 7.1	The IP address of the
GATEWAY_ADDRESS	VARCHAR2(15)	MVP 7.1	print server's gateway.
	\/		Network Number of this
NOVELL_NETWORK_NUM	VARCHAR2(8)	MVP 7.1	device.
			The nickname assigned
			to the print server for the
LEXLINK_NICKNAME	VARCHAR2(25)	MVP 7.1	LexLink protocol.
			The print server's
NETWARE_LOGIN_NAME	VARCHAR2(44)	MVP 7.1	NetWare login name.
APPLETALK_NAME	VARCHAR2(33)	MVP 7.1	The network name.
APPLETALK_ZONE	VARCHAR2(33)	MVP 7.1	The network zone.

APPLETALK TYPE	VARCHAR2(33)	MVP 7.1	The network type.
			The name of the copier
COPIER_OPTION_NAME	VARCHAR2(24)	MVP 7.1	option.
COPIER OPTION CODE LEV	- / /		The code level of the
EL	VARCHAR2(16)	MVP 7.1	copier option.
			The panel name of the
CONTROL_PANEL_NAME	VARCHAR2(24)	MVP 7.1	panel.
CONTROL_PANEL_CODE_LEV			The code level of the
EL	VARCHAR2(16)	MVP 7.1	panel.
CONTACT_NAME	VARCHAR2(255)	MVP 7.1	Contact for this device.
			Location of contact for
CONTACT_LOCATION	VARCHAR2(255)	MVP 7.1	this device.
			SNMP System device
SYSTEM_NAME	VARCHAR2(255)	MVP 7.1	name.
			"Y" or "N". A value of "N"
			indicates that the
			secondary tables have
			not yet been updated with
			the data corresponding to
			this row. Any utility which
			performs SQL queries on
			the printer inventory data should check the
			DATA READY field
			before displaying that
			data to the user. If
			DATA READY = "N" this
			row should be ignored
			along with any data
			corresponding to it that is
			found in the secondary
DATA_READY	VARCHAR2(1)	MVP 7.1	tables.
			Is this device's adapter
WEB_ENABLED	VARCHAR2(1)	MVP 7.1	web-enabled?
			The family id specifying to
			which family this device
FAMILY_ID	NUMBER(10)	MVP 7.1	belongs.

3.2.2 RAWPIEMULATOR

This table contains records pertaining to the type of emulation available on the device.

		Supported	
Field Name	Data Type	MVP Release	Description
Note: All printers may not support s	some fields. For more s	pecific informatio	n, please contact Lexmark
Customer Support at http://support.	lexmark.com.		
			String identifier
			MarkVision uses to
DEVICE_ID	VARCHAR2(255)	MVP 7.1	identify this device.
			Time at which this device
			inventory was initiated, in
			seconds elapsed since
			0:00:00, Jan 1, 1900,
START_TIME_UTC	NUMBER(10)	MVP 7.1	GMT.
VERSION	NUMBER(5)	MVP 7.1	Version of the data format

			used in this table.
			Download emulator
NAME	VARCHAR2(64)	MVP 7.1	name.
EMULATOR_VERSION	VARCHAR2(64)	MVP 7.1	Version of this emulator.
MISC	VARCHAR2(255)	MVP 7.1	Miscellaneous.

3.2.3 RAWPIPHYSICALPORT

This table contains records pertaining to the actual port to which a job was submitted to the device, such as network, serial, parallel, etc.

Field Name	Data Type	Supported MVP Release	Description	
	Note: All printers may not support some fields. For more specific information, please contact Lexmark Customer Support at http://support.lexmark.com.			
DEVICE_ID	VARCHAR2(255)	MVP 7.1	String identifier MarkVision uses to identify this device.	
START_TIME_UTC	NUMBER(10)	MVP 7.1	Time at which this device inventory was initiated, in seconds elapsed since 0:00:00, Jan 1, 1900, GMT.	
VERSION	NUMBER(5)	MVP 7.1	Version of the data format used in this table.	
NAME	VARCHAR2(64)	MVP 7.1	Physical port name. Possible Values: Fax[n] $4 \ge n \ge 1$, IR[n] $4 \ge n$ ≥ 1 , Internal[n] $3 \ge n$ ≥ 1 , LocalTalk[n] $4 \ge n$ ≥ 1 , Network[n] $6 \ge n$ ≥ 1 , Parallel[n] $4 \ge n$ ≥ 1 , Serial[n] $4 \ge n \ge 1$, NetworkStd	
			Reveals if the data is buffered on the internal hard drive of the device.	
IS_BUFFERED	VARCHAR2(1)	MVP 7.3	Possible values: Y or N	

3.2.4 RAWPIINTERPRETER

This table contains records pertaining to the language and emulation version of the device.

Field Name	Data Type	Supported MVP Release	Description
Note: All printers may not support s	ome fields. For more s	specific informatio	n, please contact Lexmark
Customer Support at http://support.	lexmark.com.		
DEVICE_ID	VARCHAR2(255)	MVP 7.1	String identifier MarkVision uses to identify this device.
START_TIME_UTC	NUMBER(10)	MVP 7.1	Time at which this device inventory was initiated, in seconds elapsed since 0:00:00, Jan 1, 1900,

			GMT.
			Version of the data format
VERSION	NUMBER(5)	MVP 7.1	used in this table.
NAME	VARCHAR2(64)	MVP 7.1	Possible Values: Any string, PCL 5 Emulation, PCL XL Emulation, PCL 3 Emulation, PostScript Emulation, IPDS Emulation, GL 1 Emulation, PPDS, PJL, HTML, WinImage, LexGear, NPAP, SCS/Telnet, Automatic Language Switching, Download Emulation The value of this field indicates the maximum
			amount of free memory in bytes available to this interpreter at point when
FREE_MEMORY	NUMBER(10)	MVP 7.1	the request is processed.
HORZ_RESOLUTION	NUMBER(5)	MVP 7.1	This value defines the maximum horizontal marking resolution that this interpreter supports in this printer; defined as the resolution in the direction 90 degrees to the feed or motion of the print media.
VERT_RESOLUTION	NUMBER(5)	MVP 7.1	This value defines the maximum vertical marking resolution that this interpreter supports in this printer; defined as the resolution in the same direction to the feed or motion of the print media.
NUM_FONTS	NUMBER(5)	MVP 7.1	Number of fonts currently available to this interpreter.
NUM_INPUTS	NUMBER(3)	MVP 7.1	Number of input trays this interpreter supports on this printer.
			Number of output bins
NUM_OUTPUTS	NUMBER(3)	MVP 7.1	this interpreter supports on this printer.
INTERPRETER_VERSION	VARCHAR2(64)	MVP 7.1	The version of the interpreter.
LANGUAGE_LEVEL	VARCHAR2(32)	MVP 7.1	The language level.
LANGUAGE_VERSION	VARCHAR2(32)	MVP 7.1	The language version.
DEFAULT_ORIENTATION	VARCHAR2(16)	MVP 7.1	The default orientation.

3.2.5 RAWPISUPPLY

This table contains records pertaining to the physical printing ink and toner supply for printer inventory.

		Supported MVP	
Field Name	Data Type	Release	Description
Note: All printers may not support some Customer Support at http://support.lexm		cific information	on, please contact Lexmark
START_TIME_UTC	NUMBER(10)	MVP 7.1	Time at which this device inventory was initiated, in seconds elapsed since 0:00:00, Jan 1, 1900, GMT.
DEVICE_ID	VARCHAR2(255)	MVP 7.1	String identifier MarkVision uses to identify this device.
VERSION	NUMBER(5)	MVP 7.1	Version of the data format used in this table.
NAME	VARCHAR2(64)	MVP 7.1	Name of the supply Specifies the type of supply; This attribute is always present. Possible Values: Container, Drum ,Fuser, Ink, Oil, Process Cartridge, Staples, Toner, Transfer Belt, Print Head ,Thin Coat, Fuser Cleaner
SUPPLY_TYPE	VARCHAR2(32)	MVP 7.1	, Pickup Roller Specifies the color of this supply; This attribute is present only if type is equal to "Ink", "Toner" or "Drum". Possible Values: Black , Cyan, Magenta,
COLOR	VARCHAR2(16)	MVP 7.1	Multi, Yellow Specifies if this is a photo ink cartridge; This attribute
IS_PHOTO	VARCHAR2(1)	MVP 7.1	is present only if type is equal to "Ink"
SMART_CART_CURR_SN	VARCHAR2(32)	MVP 7.1	The current smart cartridge serial number.
SMART_CART_CURR_IS_REFILLED	VARCHAR2(1)	MVP 7.1	Specifies if this is a refilled cartridge. Possible values = "Y" for true, "N" for false.
SMART_CART_CURR_IS_PREBATE	VARCHAR2(1)	MVP 7.1	Specifies if this is a prebate cartridge. Possible values = "Y" for true, "N" for false.
SMART_CART_PREV_SN	VARCHAR2(32)	MVP 7.1	The previous smart card serial number.
CAPACITY	NUMBER(8)	MVP 10.1	The maximum capacity of the supply. NOTE: This

			information is not available for every supply and is not available for every printer family.
CAPACITY_UNITS	VARCHAR2(32)	MVP 10.1	The units in which the capacity is reported. Currently, Lexmark printers only support sheet-level reporting.
PERCENT_FULL	NUMBER(4)	MVP 10.1	The current percentage of supply remaining. NOTE: This information will not be completely accurate and could vary widely from the actual percentage of supply residing in the printer. Also, this information is not available on every printer family.
			Optional type description of the supply. Possible values: 'MICR', 'Non- MICR', and 'Special'. NOTE: This information will not be available on
TONER_TYPE	VARCHAR2(32)	MVP 10.1	every printer family.

3.2.6 RAWPIFONTOPTION

This table contains records pertaining to the fonts available on the selected device.

		Supported	
Field Name	Data Type	MVP Release	Description
Note: All printers may not support s		specific informatio	n, please contact Lexmark
Customer Support at http://support.	lexmark.com		
START_TIME_UTC	NUMBER(10)	MVP 7.1	Time at which this device inventory was initiated, in seconds elapsed since 0:00:00, Jan 1, 1900, GMT.
DEVICE_ID	VARCHAR2(255)	MVP 7.1	String identifier MarkVision uses to identify this device.
VERSION	NUMBER(5)	MVP 7.1	Version of the data format used in this table.
ID	NUMBER(3)	MVP 7.1	Physical slot in which the option resides.
PART_NUMBER	VARCHAR2(128)	MVP 7.1	Part number of the card/cartridge. WARNING: Only valid with 'Font Cartridge'.
PART_NAME	VARCHAR2(128)	MVP 7.1	Part name of the card/cartridge. WARNING: Only valid

			with 'Font Cartridge'.
FORMAT	VARCHAR2(128)	MVP 7.1	Format of the font card/cartridge. WARNING: Only valid with 'Font Cartridge'.

3.2.7 RAWPICODELEVEL

This table contains records pertaining to the code level of the device.

Field Name	Data Type	Supported MVP Release	Description
Note: All printers may not support s		pecific informatio	n, please contact Lexmark
Customer Support at http://support.	lexmark.com.		
			Time at which this device inventory was initiated, in seconds elapsed since 0:00:00, Jan 1, 1900,
START_TIME_UTC	NUMBER(10)	MVP 7.1	GMT.
DEVICE_ID	VARCHAR2(255)	MVP 7.1	String identifier MarkVision uses to identify this device.
VERSION	NUMBER(5)	MVP 7.1	Version of the data format used in this table.
NAME	VARCHAR2(64)	MVP 7.1	Item to which the listed CODE_LEVEL applies e.g. 'engine',' flash', 'panel', etc.
CODE_LEVEL	VARCHAR2(50)	MVP 7.1	Code version of the item indicated by NAME.

3.2.8 RAWPIOPTION

This table contains records pertaining to internal options installed on the device, such as memory size, disk, network adapter, etc.

Field Name	Data Type	Supported MVP Release	Description
Note: All printers may not support s		specific informatio	n, please contact Lexmark
Customer Support at http://support.	<u>lexmark.com</u> .		
			Time at which this device inventory was initiated, in seconds elapsed since 0:00:00, Jan 1, 1900,
START_TIME_UTC	NUMBER(10)	MVP 7.1	GMT.
DEVICE_ID	VARCHAR2(255)	MVP 7.1	String identifier MarkVision uses to identify this device.
VERSION	NUMBER(5)	MVP 7.1	Version of the data format used in this table.
NAME	VARCHAR2(64)	MVP 7.1	Possible values: Flash, Disk, TriPort, Internal Network Adapter, Parallel, An SNMP Printer

			may return any string.
ID	NUMBER(3)	MVP 7.1	Option ID.
OPTION_SIZE	NUMBER(12)	MVP 7.1	Physical size of the option in bytes. WARNING: Only valid with 'Disk' and 'Flash'.
FREE_SPACE	NUMBER(12)	MVP 7.1	Free space of the option in bytes. WARNING: Only valid with 'Disk' and 'Flash'.

3.2.9 RAWPIINPUTOPTION

This table contains records pertaining to the input option installed on the device.

BIN COUNT	NUMBER(3)	The number of bins/outputs supported by the physical output device option.
		option.

3.2.10 RAWPIINPUT

This table contains records pertaining to the types and number of inputs available on the device

Field Name	Data Type	Supported MVP Release	Description
Note: All printers may not support s		specific informatio	
Customer Support at http://support.	<u>lexmark.com</u> .		
			Time at which this device inventory was initiated, in seconds elapsed since 0:00:00, Jan 1, 1900,
START_TIME_UTC	NUMBER(10)	MVP 7.1	GMT.
DEVICE_ID	VARCHAR2(255)	MVP 7.1	String identifier MarkVision uses to identify this device.
VERSION	NUMBER(5)	MVP 7.1	Version of the data format used in this table.
NAME	VARCHAR2(64)	MVP 7.1	The name.
CAPACITY	NUMBER(10)	MVP 7.1	The capacity.
CAPACITY_UNITS	VARCHAR2(40)	MVP 7.1	The units.
CURRENT_LEVEL	NUMBER(10)	MVP 7.1	The current level.
FORM_SIZE	VARCHAR2(40)	MVP 7.1	The form size.
FORM_TYPE	VARCHAR2(40)	MVP 7.1	The form type.
FEED_TYPE	VARCHAR2(40)	MVP 7.1	The feed type.

3.2.11 RAWPIOUTPUTOPTION

This table contains records pertaining to the physical output options **installed** on the device.

Field Name	Data Type	Supported MVP Release	Description
Note: All printers may not support s		specific informatio	n, please contact Lexmark
Customer Support at <u>http://support</u>	<u>.lexmark.com</u> .	-	-
			Time at which this device inventory was initiated, in seconds elapsed since 0:00:00, Jan 1, 1900, GMT.
START_TIME_UTC	NUMBER(10)	MVP 7.1	String identifier
DEVICE_ID	VARCHAR2(255)	MVP 7.1	MarkVision uses to identify this device.
VERSION	NUMBER(5)	MVP 7.1	Version of the data format used in this table.
NAME	VARCHAR2(64)	MVP 7.1	The name of a physical output device option. Possible Values: Stacker, Stacker [N], High Capacity Stacker, [N] Bin

			Mailbox, [N] Bin Mailbox [N], Finisher, Integrated Hopper, Rear, Unknown Output Option
OPTION_TYPE	VARCHAR2(32)	MVP 7.1	The type of a physical output device option. Possible Values: Stacker, High Capacity Stacker, [N] Bin Mailbox e.g. 5 Bin Mailbox, 10 Bin Mailbox, etc., Finisher, Integrated Hopper, Rear, Unknown Output Option
BIN_COUNT	NUMBER(3)	MVP 7.1	The number of bins/outputs supported by the physical output device option.

3.2.12 RAWPIOUTPUT

This table contains records pertaining to physical output option **capabilities** of the device.

Field Name	Data Type	Supported MVP Release	Description	
Note: All printers may not support some fields. For more specific information, please contact Lexmark Customer Support at http://support.lexmark.com .				
START_TIME_UTC	NUMBER(10)	MVP 7.1	Time at which this device inventory was initiated, in seconds elapsed since 0:00:00, Jan 1, 1900, GMT.	
DEVICE_ID	VARCHAR2(255)	MVP 7.1	String identifier MarkVision uses to identify this device.	
VERSION	NUMBER(5)	MVP 7.1	Version of the data format used in this table.	
NAME	VARCHAR2(64)	MVP 7.1	Possible Values: Bin [n] 15 >= n >= 1, Finisher, Rear Bin, Front Bin, Side Output, Standard Bin, Top Output	
CAPACITY	NUMBER(10)	MVP 7.1	Output capacity, integer value.	
CAPACITY_UNITS	VARCHAR2(40)	MVP 7.1	Units corresponding to CAPACITY column e.g. Sheets, Inches, etc.	
OPTION_NAME	VARCHAR2(64)	MVP 7.1	Physical output device option name.	
OPTION_LOCATION	NUMBER(5)	MVP 7.1	This is the individual location within a physical output device option where this output resides. Positive integer.	

			Specifics if this sutput
			Specifies if this output
			device supports this feature. Possible values
			= "Y" for true, "N" for
IS_FACE_UP	VARCHAR2(1)	MVP 7.1	false.
			Specifies if this output
			device supports this
			feature. Possible values
			= "Y" for true, "N" for
IS_SECURITY	VARCHAR2(1)	MVP 7.1	false.
			Specifies if this output
			device supports this
			feature. Possible values
			= "Y" for true, "N" for
IS_BURSTING	VARCHAR2(1)	MVP 7.1	false.
			Specifies if this output
			device supports this
			feature. Possible values
			= "Y" for true, "N" for
IS_FACE_DOWN	VARCHAR2(1)	MVP 7.1	false. Specifies if this output
			device supports this
			feature. Possible values
			= "Y" for true, "N" for
IS_LEVEL_SENSING	VARCHAR2(1)	MVP 7.1	false.
			Specifies if this output
			device supports this
			feature. Possible values
			= "Y" for true, "N" for
IS_COLLATION	VARCHAR2(1)	MVP 7.1	false.
			Specifies if this output
			device supports this
			feature. Possible values
			= "Y" for true, "N" for
IS_SEPARATION	VARCHAR2(1)	MVP 7.1	false.
			Specifies if this output
			device supports this feature. Possible values
			= "Y" for true, "N" for
IS_STITCHING	VARCHAR2(1)	MVP 7.1	false.
			Specifies if this output
			device supports this
			feature. Possible values
			= "Y" for true, "N" for
IS_BINDING	VARCHAR2(1)	MVP 7.1	false.
			Specifies if this output
			device supports this
			feature. Possible values
			= "Y" for true, "N" for
IS_PUNCHING	VARCHAR2(1)	MVP 7.1	false.
			Specifies if this output
			device supports any other
			options not specifically
		MVP 7.1	listed. Possible values = "Y" for true, "N" for false.
IS_ADDITIONAL_OPTIONS	VARCHAR2(1)		T IOI LIUE, IN IOF IAISE.

3.2.13 RAWPIDEVICESTATUS

This table contains records pertaining to the physical output options **installed** on the device.

		Supported	
Field Name	Data Type	MVP Release	Description
Note: All printers may not support		specific informatio	
Customer Support at http://suppor	t.lexmark.com.		
START_TIME_UTC	NUMBER(10)	MVP 10.0	Time at which this device inventory was initiated, in seconds elapsed since 0:00:00, Jan 1, 1900, GMT.
			String identifier
DEVICE_ID	VARCHAR2(255)	MVP 10.0	MarkVision uses to identify this device.
VERSION	NUMBER(5)	MVP 10.0	Version of the data format used in this table.
MESSAGE_ID	VARCHAR2(64)	MVP 10.0	Message saying the status of the trays like "Input Empty","Input Low", "Tray Missing".
LOCATION_ID	VARCHAR2(64)	MVP 10.0	Specifies the Input Trays like "Tray 1";Tray 2"
GRAPHIC_ID	NUMBER(3)	MVP 10.0	Specifies the graphic Id.
SEVERITY	VARCHAR2(32)	MVP 10.0	Specifies the message severity like "Warning"
DISPLAY_TEXT	VARCHAR2(64)	MVP 10.1	The actual text displayed on the printer's op-panel. NOTE: This information is not available on every printer model.
ENABLE_CONTINUE	VARCHAR2(1)	MVP 10.0	Specifies Enability of continue. Possible values = "Y" for true, "N" for false.
ENABLE_RESET	VARCHAR2(1)	MVP 10.0	Specifies whether resetting is enabled. Possible values = "Y" for true, "N" for false.

3.2.14 RAWPISTATSJOBS

This table contains records pertaining to the Job Statistics.

Field Name	Data Type	Supported MVP Release	Description
Note: All printers may not support some fields. For more specific information, please contact Lexmark Customer Support at http://support.lexmark.com.			
		MVP 10.0	String identifier
DEVICE ID	VARCHAR2(255)		MarkVision uses to identify this device.

		MVP 10.0	Time at which this device inventory was initiated, in seconds elapsed since 0:00:00, Jan 1, 1900, GMT.
START_TIME_UTC	NUMBER(10)	MVP 10.0	Version of the data format
VERSION	NUMBER(5)		used in this table.
		MVP 10.0	Related Name of identifier for the record ;possible values PS;PCL;XL;Other;UNKN OWN
RECORD_ID	VARCHAR2(64)		
RECORD TYPE	VARCHAR2(64)	MVP 10.0	Type of Record. Possible values Single; Range; List
		MVP 10.0	The type of value
			Possible Values: Integer Date Float
VALUE_TYPE	VARCHAR2(64)		The unit is which the date
UNITS	VARCHAR2(64)	MVP 10.0	The unit in which the data is expressed. Possible Values: Pages; Percent
DATA	NUMBER(10)	MVP 10.0	Column/Column value will exist For 'Single' record Type

3.2.15 RAWPISTATSPAPER

This table contains records pertaining to the Paper Statistics.

Field Name	Data Type	Supported MVP Release	Description
Note: All printers may not support s			
Customer Support at http://support.	lexmark.com.	-	
		MVP 10.0	String identifier
			MarkVision uses to
DEVICE_ID	VARCHAR2(255)		identify this device.
		MVP 10.0	Time at which this device
			inventory was initiated, in
			seconds elapsed since
			0:00:00, Jan 1, 1900,
START_TIME_UTC	NUMBER(10)		GMT.
		MVP 10.0	Version of the data format
VERSION	NUMBER(5)		used in this table.
		MVP 10.0	Related Name of
			identifier for the record
			;possible values
			Plain Paper
RECORD_ID	VARCHAR2(64)		Colored Paper

			Transparency Card Stock Labels Letterhead Preprinted Bond Envelope Coated Paper Glossy Paper Iron On Photo Paper Greeting Card Custom Type 1 Custom Type 2 Custom Type 3 Custom Type 4 Custom Type 5 Custom Type 6 UNKNOWN
		MVP 10.0	Type of Record. Possible values Single; Range; List
RECORD_TYPE	VARCHAR2(64)	MVP 10.0	
			The type of value Possible Values: Integer Date Float
VALUE_TYPE	VARCHAR2(64)	MVP 10.0	The unit in which the data
UNITS	VARCHAR2(64)		is expressed. Possible Values: Pages; Percent
DATA	NUMBER(10)	MVP 10.0	Column/Column value will exist For 'Single' record Type

3.2.16 RAWPISTATSSIDES

This table contains records pertaining to the Sides Statistics.

Field Name	Data Type	Supported MVP Release	Description
Note: All printers may not support s	ome fields. For more	specific informatio	n, please contact Lexmark
Customer Support at http://support.	lexmark.com.		
DEVICE_ID	VARCHAR2(255)	MVP 10.0	String identifier MarkVision uses to identify this device.
START_TIME_UTC	NUMBER(10)	MVP 10.0	Time at which this device inventory was initiated, in seconds elapsed since 0:00:00, Jan 1, 1900,

			GMT.
VERSION	NUMBER(5)	MVP 10.0	Version of the data format used in this table.
		MVP 10.0	Related Name of identifier for the record ;possible values Total Mono
RECORD_ID	VARCHAR2(64)		Color UNKNOWN
RECORD_TYPE	VARCHAR2(64)	MVP 10.0	Type of Record. Possible values Single; Range; List
		MVP 10.0	The type of value Possible Values: Integer Date
VALUE_TYPE	VARCHAR2(64)		Float
UNITS	VARCHAR2(64)	MVP 10.0	The unit in which the data is expressed. Possible Values: Pages; Percent
DATA	NUMBER(10)	MVP 10.0	Column/Column value will exist For 'Single' record Type

3.2.17 RAWPISTATSSUPPLIES

This table contains records pertaining to the Paper Statistics.

		Supported	
Field Name	Data Type	MVP Release	Description
Note: All printers may not support s		specific informatio	n, please contact Lexmark
Customer Support at http://support.	<u>lexmark.com</u>	-	
		MVP 10.0	String identifier
			MarkVision uses to
DEVICE_ID	VARCHAR2(255)		identify this device.
		MVP 10.0	Time at which this device
			inventory was initiated, in
			seconds elapsed since
			0:00:00, Jan 1, 1900,
START_TIME_UTC	NUMBER(10)		GMT.
		MVP 10.0	Version of the data format
VERSION	NUMBER(5)		used in this table.
		MVP 10.0	Related Name of
			identifier for the record
			;possible values
			Black Toner
			Cyan Toner
			Magenta Toner
			Yellow Toner
RECORD_ID	VARCHAR2(64)		Black Image

	VARCHAR2(64)	MVP 10.0	Drum Cyan Image Drum Magenta Image Drum Yellow Image Drum Multi Image Drum Fuser Transfer Roller Coating Roller ITU Oiler Transfer Belt Black Ink Cyan Ink Magenta Ink Yellow Ink Black Ink - Photo Cartridge Magenta Ink - Photo Cartridge Cyan Ink - Photo Cartridge Color Print Head Black Print Head Black Print Head Thin Coat Waste Bottle Staples Hole Punch Box UNKNOWN Type of Record. Possible values Single; Range; List The type of value Possible Values: Integer Date Float
VALUE_TYPE	VARCHAR2(64)	MVP 10.0	The unit in which the data
UNITS	VARCHAR2(64)		is expressed. Possible Values: Pages; Percent
CAPACITY	NUMBER(10)	MVP 10.0	Column/Column value will exist For 'List' record Type
		MVP 10.0	Column/Column value will exist For 'List'
COUNT	NUMBER(10)		Record Type

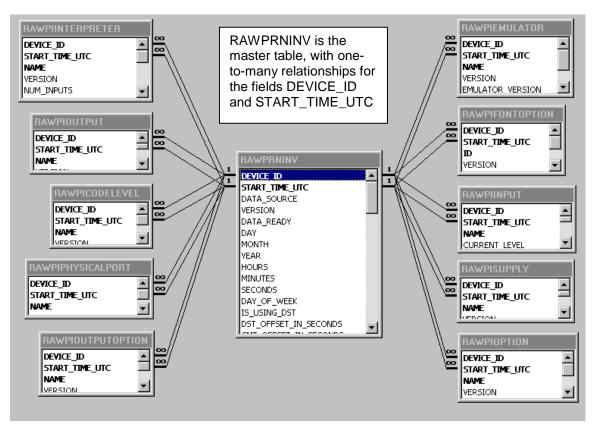
3.2.18 RAWPISTATSINSTALL

This table contains records pertaining to the Installed Date Statistics.

		Supported			
Field Name	Data Type	MVP Release	Description		
	Note: All printers may not support some fields. For more specific information, please contact Lexmark				
Customer Support at http://support	.lexmark.com				
		MVP 10.0	String identifier		
			MarkVision uses to		
DEVICE_ID	VARCHAR2(255)		identify this device.		
		MVP 10.0	Time at which this device		
			inventory was initiated, in		
			seconds elapsed since		
			0:00:00, Jan 1, 1900, GMT.		
START_TIME_UTC	NUMBER(10)	MVP 10.0	Version of the data format		
VERSION	NUMBER(5)	MVP 10.0	used in this table.		
VERSION		MVP 10.0	Related Name of		
		10.0	identifier for the record		
			;possible values		
			Installed Date		
RECORD_ID	VARCHAR2(64)		UNKNOWN		
		MVP 10.0	Type of Record. Possible		
			value: Single		
RECORD_TYPE	VARCHAR2(64)				
		MVP 10.0	The type of value		
			Possible Value:		
VALUE_TYPE	VARCHAR2(64)		Date		
		MVP 10.0	number of seconds since		
DATA	NUMBER(10)		Jan. 1, 1970.		
		MVP 10.0	The unit in which the data		
			is expressed. Possible		
UNITS	VARCHAR2(64)		Values: Pages; Percent		

3.3 Field Relationships

The master table for Printer Inventory is RAWPRNINV, with one-to-many relationships established between the top two fields, DEVICE_ID and START_TIME_UTC.



NOTE: The new table for MVP 7.3, RAWPIINPUTOPTION, has the same relationship values as RAWPIOUTPUTOPTION.

4. Job Statistics

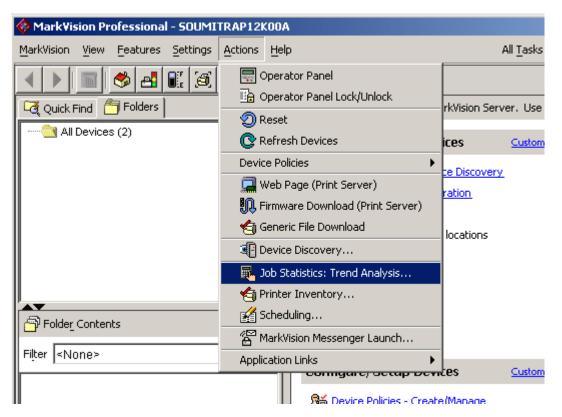
The Job Statistics task for MarkVision Professional allows you to collect information on processed jobs for a particular printer, or a group of printers. With the collected data you can create reports, perform trend analysis, and even drive a purchasing program to automatically order supplies such as toner, ink, and paper. See <u>Configuring Database Driver</u> for a description of supported databases.

4.1 Configuring MarkVision Professional

Job Statistics: Trend Analysis tells the printer to send an alert to the server each time a job is sent. **Job Statistics: Collect From Disk** tells the selected printer(s) to store the Job Statistics information on its own hard disk. The server may be scheduled to read this information and save it to a database. This method is the most reliable, but the user must set up the collection via the scheduling task, see the <u>Job Statistics: Collect From Disk</u> section.

4.1.1 Job Statistics (Trend Analysis)

Open the MarkVision Professional client. Select "Actions" on the toolbar and then "Job Statistics (Trend Analysis)" from the drop-down list, or "Job Statistics (Trend Analysis)" from the "All Tasks" list.



The Job Statistics screen should be displayed:

📕 Job Statistics: Trend Analysis		>
Database Access 🔽 3		User Name 🕜
URL jdbc:odbc:mvp	3	Password 0
O All Printers 💿 Selected Printers		
🕞 Quick Find 🗂 Folders		Selected Printers 🕜
All Devices (2)		< <p> The device must have a heard drive installed to use</p>
		hard drive installed to use the Job Statistics: Collect From Disk function. Devices incapable of the task are shown with strikeouts.
Include Device Status Alerts		
Note: Job Statistics: Collect From Disk is available	e using t	he Scheduling Task
		Ok Cancel Apply 🦉 Tips

Select the appropriate database. Follow database specific instructions in the <u>Configuring</u> <u>Database Driver</u> section.

The **Selected Printers** list display any printers you have asked the server to monitor for Job Statistics alerts.

🔲 Include Device Status Alerts

The checkbox to **Include Device Status Alerts** will populate certain device status tables when an error or warning condition is encountered Please see the <u>Device Status</u> section for more information. This will increase network traffic.

4.1.2 Job Statistics: Collect From Disk

Open the MarkVision Professional client. Select "Actions" on the toolbar and then "Scheduling" from the drop-down list, or "Scheduling" from the "All Tasks" list.

🚸 Mark¥ision Professional - localhost	
MarkVision View Features Settings	Actions Help
↓ ♦ ●	Image: Comparison of Compar
Folder Contents	I Device Discovery I Device Discovery Job Accounting (Trend Analysis) Printer Inventory Scheduling Scheduling MarkVision Messenger Launch Application Links Lontigure/Setup Devices

The Scheduling screen should be displayed:

All Scheduled Events:											
ver	it 🔺				Des	criptio	in	Recurrence	Next Run	Last Run	Status of Last Run
	To	iday	is 3/6	5/200	<u>)2</u>						
_			ch 21			►	. ◀	Friday, March 22,	2002		
5 4	M 25	Т 26	W 27	Т 28	1	S 2	No even	ts have been sched	duled for this day.		
3	4	5	6	7	8	9					
0 7	11 18	12 19	13 20	14 21	15 22	16 23					
, 4	25	19 26	20	21	22 29	30					
1	1	2	3	4	5	6					
			ched schi								

Select the "Add" button to add scheduled events for Job Statistics: Collect From Disk. The Add Schedule Wizard screen should be displayed:

Add Schedule Wizard					×
1 Event 🗸	2 Time	\checkmark			
Job Statistics: Collect From Disk	3/20/03 12:01 PM Once		not completed	not completed	
Please choose one of the follo b Statistics: Collect -Gather information about	From Disk It print jobs and store it		atabase.		
C Generic File Download					

Select the **Job Statistics: Collect From Disk** radio button and click "Next." Step 2 of the Add Schedule Wizard should be displayed:

Add Schedule Wizard					×			
1 Event 🗸	2 Time	\checkmark	3 Database					
Job Statistics: Collect From Disk	3/20/03 12:02 PM Once		not completed	not completed				
Start time: Thursday, March 20, 2003 12: 02 PM Repeat this event: Once								
C Every 1 day(s)								
C Every 1 week(s) on Sun Mon Tue Wed								
O Every 1 mont	h(s) on the First	-						

Modify the scheduling parameters as desired and click "Next." Step 3 of the Add Schedule Wizard should be displayed:

Add Schedule Wizard			×
1 Event 🗸	2 Time 🗸	3 Database 🗸	(4) Printers
Job Statistics: Collect From Disk	3/20/03 12:02 PM Once	Access jdbc:odbc: <dsn></dsn>	not completed
Database Access ▼		User <u>N</u> ame Password	<i>0</i>

Select the appropriate database. Follow database specific instructions in the <u>Configuring</u> <u>Database Driver</u> section. Select "Next" and step 4 of the Add Schedule Wizard should be displayed:

Add Schedule Wizard							×
1 Event 🗸		\checkmark		tabase 💊	✓	Printers	\checkmark
Job Statistics: Collect From Disk	3/20/03 12:02 PM Once		Access jdbc:odbc:<	DSN>	ł	All Printers	
Selected I	iders		2e	lected Printers	The c hard the Jo From incap	device must have drive installed to ob Statistics: C n Disk function. bable of the task on with strikeouts	o use collect Devices are

The **Selected Printers** list display any printers you have want the server to query for Job Accounting alerts at the specified date/time.

4.2 Table and Field Descriptions

The tables and descriptions of each field are listed below. The data types listed for each field listed are specific to Oracle databases. Please reference the <u>Data Type Conversion</u> section for converting to Microsoft Access or SQL Server data types.

4.2.1 RAWJAFAXJOB

This table contains records pertaining to sent and received fax operations.

Field Name	Data Type	Supported MVP Release	Description
Note: All printers may not support Customer Support at http://support		e specific information	on, please contact Lexmark
			Time at which this job was detected by MarkVision, in seconds elapsed since 0:00:00,
TIME_UTC	NUMBER(10)	MVP 7.1	Jan 1, 1900, GMT.
DEVICE_ID	VARCHAR2(255)	MVP 7.1	String identifier MarkVision uses to identify this device.
JOB_ID	NUMBER(5)	MVP 7.1	Job id assigned by device.
VERSION	NUMBER(5)	MVP 7.1	Version of the data format used in this table.
YEAR	NUMBER(4)	MVP 7.1	Year in which this job was detected by MarkVision.
MONTH	NUMBER(2)	MVP 7.1	Month in which this job was detected by MarkVision.
DAY	NUMBER(2)	MVP 7.1	Day of the month on which this job was detected by MarkVision.
DAY_OF_WEEK	NUMBER(1)	MVP 7.1	Day of week on which this job was detected by MarkVision.
HOURS	NUMBER(2)	MVP 7.1	Hour of the day in which this job was detected by MarkVision.
MINUTES	NUMBER(2)	MVP 7.1	Minute of the hour in which this job was detected by MarkVision.
SECONDS	NUMBER(2)	MVP 7.1	Seconds of the minute in which this job was detected by MarkVision.
GMT_OFFSET_IN_SECONDS	NUMBER(5)	MVP 7.1	Offset from GMT of the current time zone, in seconds. This is an integer from -43200 to 43200.
IS_USING_DST	VARCHAR2(1)	MVP 7.1	Does the current time zone use Daylight Savings Time? Possible values = "Y" for true, "N" for false.
DST_OFFSET_IN_SECONDS	NUMBER(4)	MVP 7.1	Offset from Standard Time of the current time zone, in seconds.
DATA_SOURCE		MVP 7.1	Where did this record come from? Possible

			Values: 'Granite V.x.x,
			Alert' or 'Granite V.x.x,
			Disk'
RMIPORTNUMBER	NUMBER(10)	MVP 10.1	Marvision Sever's RMI service Port Number
SERVER_IP_ADDRESS	VARCHAR2(20)	MVP 10.1	IP Address of the host
			m/c on which Markvision
			server is running
SERIAL_NUMBER	VARCHAR2(32)	MVP 7.1	Device serial number. Possible Values:
			Receive, Send From
			Scanner, Send From
JOB_TYPE	VARCHAR2(32)	MVP 7.1	Driver
			For faxes with a
			transmission log, the job
PRINTER_JOB_ID	NUMBER(5)	MVP 7.1	id of the log as it appears in RAWJAPRINTJOB.
JOB DURATION IN SECONDS	NUMBER(10)	MVP 7.1	The duration of the job.
			Possible values = "Y" for
IS_COLOR	VARCHAR2(1)	MVP 7.1	true, "N" for false.
JOB_SIZE_IN_BYTES	NUMBER(10)	MVP 7.1	The job size.
SHEET_COUNT	NUMBER(5)	MVP 7.1	The sheet count.
			Possible Values: None,
			No Dial Tone, No Answer, Busy, Line
			Dropped, Error In T30
			Protocol, Modem Error ,
			Out Of Memory,
ERROR_CODE	VARCHAR2(32)	MVP 7.1	Cancelled
			Number of account that
ACCOUNT_NUMBER	VARCHAR2(32)	MVP 7.1	submitted this job.
PHONE_NUMBER	VARCHAR2(64)	MVP 7.1	The station phone number.
REMOTE_STATION_ID	VARCHAR2(32)	MVP 7.1	The remote station id.
LOCAL_STATION_ID	VARCHAR2(32)	MVP 7.1	The local station id.
			The job transmission
TRANSMISSION_SPEED	NUMBER(10)	MVP 7.1	speed.
			Possible Values: Standard, Fine,
REQUESTED_RESOLUTION	VARCHAR2(32)	MVP 7.1	Superfine, Ultrafine
			Possible Values:
			Standard 204 x 98,
			Standard 200 x 100, Fine
			204 x 196, Fine 200 x 200, Superfine 204 x
			391, Superfine 300 x
			300, Ultrafine 408 x 391,
NEGOTIATED_RESOLUTION	VARCHAR2(32)	MVP 7.1	Ultrafine 408 x 400
COMPRESSION	VARCHAR2(32)	MVP 7.1	Possible Values: None, MH, MR, MMR, JPEG
	<u> </u>		Possible values = "Y" for
IS_ECM	VARCHAR2(1)	MVP 7.1	true, "N" for false.
			The number of split
NUMBER_OF_SPLIT_PAGES	NUMBER(5)	MVP 7.1	pages.

NUMBER_OF_RETRIES	NUMBER(3)	MVP 7.1	The number of retries.
			Name of user who sent
USER_NAME	VARCHAR2(255)	MVP 7.1	this fax.

4.2.2 RAWJASCANJOB

This table contains records pertaining to submitted scans, such as account, destination, duration, resolution, etc.

		Supported	
Field Name	Data Type	MVP Release	Description
Note: All printers may not support s	some fields. For more	specific informatio	
Customer Support at http://support.	<u>.lexmark.com</u> .		
			Time at which this job
			was detected by
			MarkVision, in seconds
	NUMBER(10)	MVP 7.1	elapsed since 0:00:00,
TIME_UTC			Jan 1, 1900, GMT. String identifier
			MarkVision uses to
DEVICE ID	VARCHAR2(255)	MVP 7.1	identify this device.
			Job id assigned by
JOB_ID	NUMBER(5)	MVP 7.1	device.
			Version of the data format
VERSION	NUMBER(5)	MVP 7.1	used in this table.
			Year in which this job was
YEAR	NUMBER(4)	MVP 7.1	detected by MarkVision.
			Month in which this job
MONITH			was detected by
MONTH	NUMBER(2)	MVP 7.1	MarkVision. Day of the month on
			which this job was
DAY	NUMBER(2)	MVP 7.1	detected by MarkVision.
			Day of week on which
			this job was detected by
DAY_OF_WEEK	NUMBER(1)	MVP 7.1	MarkVision.
			Hour of the day in which
			this job was detected by
HOURS	NUMBER(2)	MVP 7.1	MarkVision. Minute of the hour in
			which this job was
MINUTES	NUMBER(2)	MVP 7.1	detected by MarkVision.
			Seconds of the minute in
			which this job was
SECONDS	NUMBER(2)	MVP 7.1	detected by MarkVision.
			Offset from Standard
DOT OFFORT IN OFOONDO			Time of the current time
DST_OFFSET_IN_SECONDS	NUMBER(5)	MVP 7.1	zone, in seconds. Does the current time
			zone use Daylight
			Savings Time? Possible
			values = "Y" for true, "N"
IS_USING_DST	VARCHAR2(1)	MVP 7.1	for false.

GMT_OFFSET_IN_SECONDS	NUMBER(4)	MVP 7.1	Offset from GMT of the current time zone, in seconds. This is an integer from -43200 to 43200.
			Where did this record come from? Possible Values: 'Granite V.x.x, Alert' or 'Granite V.x.x,
DATA_SOURCE RMIPORTNUMBER	VARCHAR2(32) NUMBER(10)	MVP 7.1 MVP 10.1	Disk' Marvision Sever's RMI service Port Number
SERVER_IP_ADDRESS	VARCHAR2(20)	MVP 10.1	IP Address of the host m/c on which Markvision server is running
SERIAL NUMBER	VARCHAR2(32)	MVP 7.1	Device serial number.
JOB_SIZE_IN_BYTES	NUMBER(10)	MVP 7.1	The job size.
SHEET COUNT	NUMBER(5)	MVP 7.1	The sheet count.
JOB_DURATION_IN_SECONDS	NUMBER(10)	MVP 7.1	The job duration.
ERROR_CODE	VARCHAR2(32)	MVP 7.1	The error code.
ACCOUNT_NUMBER	VARCHAR2(32)	MVP 7.1	Number of account that submitted this job.
FORMAT	VARCHAR2(32)	MVP 7.1	Possible Values: PDF, JPEG, TIFF
COMPOSITION	VARCHAR2(32)	MVP 7.1	Possible Values: 1 Bit, 3 Bit, 4 Bit, 8 Bit, 24 Bit, 32 Bit Possible Values: Email
DESTINATION_TYPE	VARCHAR2(32)	MVP 7.1	Attachment, Email With URL Link, FTP, TCP
RESOLUTION_DPI	NUMBER(5)	MVP 7.1	The resolution.
ORIGINAL_SIZE	VARCHAR2(32)	MVP 7.1	The document's original size e.g. Letter, Tabloid, Legal, Executive, A2, etc. Possible values = "Y" for
IS_COLOR	VARCHAR2(1)	MVP 7.1	true, "N" for false.
USER_NAME	VARCHAR2(55)	MVP 7.1	Name of user performing this scan.

4.2.3 RAWJAPRINTJOB

This table contains records pertaining to submitted print jobs, including when submitted, by whom, size, and failures encountered with the submitted print job.

Field Name	Data Type	Supported MVP Release	Description			
Note: All printers may not support some fields. For more specific information, please contact Lexmark						
Customer Support at http://support.lexmark.com.						
			Time at which this job was detected by MarkVision, in			
TIME_UTC	NUMBER(10)	MVP 7.1	seconds elapsed			

			since 0:00:00, Jan 1,
			1900, GMT.
			String identifier
			MarkVision uses to
DEVICE_ID	VARCHAR2(255)	MVP 7.1	identify this device.
			Job id assigned by
JOB_ID	NUMBER(5)	MVP 7.1	device.
			Version of the data
VERSION	NUMBER(5)	MVP 7.1	format used in this table.
VERSION	NOWBER(3)		Year in which this job
			was detected by
YEAR	NUMBER(4)	MVP 7.1	MarkVision.
	- ()		Month in which this
			job was detected by
MONTH	NUMBER(2)	MVP 7.1	MarkVision.
			Day of the month on
			which this job was
DAY	NUMBER(2)	MVP 7.1	detected by MarkVision.
			Day of week on
			which this job was
			detected by
DAY_OF_WEEK	NUMBER(1)	MVP 7.1	MarkVision.
			Hour of the day in
			which this job was
HOURS		MVP 7.1	detected by MarkVision.
HOURS	NUMBER(2)	NIVP 7.1	Minute of the hour in
			which this job was
			detected by
MINUTES	NUMBER(2)	MVP 7.1	MarkVision.
			Seconds of the
			minute in which this
OF COMPO			job was detected by MarkVision.
SECONDS	NUMBER(2)	MVP 7.1	Offset from GMT of
			the current time
			zone, in seconds.
			This is an integer
			from -43200 to
GMT_OFFSET_IN_SECONDS	NUMBER(5)	MVP 7.1	43200.
			Does the current time
			zone use Daylight
			Savings Time? Possible values = "Y"
IS_USING_DST	VARCHAR2(1)	MVP 7.1	for true, "N" for false.
			Offset from Standard
			Time of the current
			time zone, in
DST_OFFSET_IN_SECONDS	NUMBER(4)	MVP 7.1	seconds.

	1		
			Where did this record
			come from? Possible
			Values: 'Granite
			V.x.x, Alert' or
	VARCHAR2(32)	MVP 7.1 MVP 10.1	'Granite V.x.x, Disk'
RMIPORTNUMBER	NUMBER(10)	MVP 10.1	Marvision Sever's
			RMI service Port
			Number
SERVER_IP_ADDRESS	VARCHAR2(20)	MVP 10.1	IP Address of the
			host m/c on which
			Markvision server is
			running
			Device serial
SERIAL_NUMBER	VARCHAR2(32)	MVP 7.1	number.
			The duration of the
JOB_DURATION_IN_SECONDS	NUMBER(10)	MVP 7.1	job.
			Possible Values:
			Fax[n] $4 >= n >= 1$,
			IR[n] 4 >= n >= 1,
			Internal[n] $3 \ge n \ge 1$
			1, LocalTalk[n] $4 \ge n$
			>= 1, Network[n] 6
			>= n >= 1, Parallel[n]
			4 >= n >= 1, Serial[n]
			4 >= n >= 1, USB[n]
PORT_NAME	VARCHAR2(32)	MVP 7.1	4 >= n >= 1, NetworkStd
		1	
JOB_SIZE_IN_BYTES	NUMBER(10)	MVP 7.1	The size of the job.
			Possible Values: Any
			string, PCL 5 Emulation, PCL XL
			Emulation, PCL 3
			Emulation, POL 3 Emulation, PostScript
			Emulation, PostScript
			Emulation, GL 1
			Emulation, PPDS,
			PJL, HTML,
			WinImage, LexGear,
			NPAP, SCS/Telnet,
			Automatic Language
			switching, Download
INTERPRETER_NAME	VARCHAR2(32)	MVP 7.1	Emulation
			The toner tally
TONER_TALLY_VERSION	NUMBER(3)	MVP 7.1	version.
			The output overflow
OUTPUT_OVERFLOW_BIN_NUMBER	NUMBER(3)	MVP 7.1	bin number.
			Bit encoded: 0,
			overflow occurred in
			job; 1, overflowing at
			end of job; 2-7,
OUTPUT_BIN_OVERFLOW	NUMBER(3)	MVP 7.1	reserved.
			Bit encoded: 0,
			standard bin; 1, bin 1;
OUTPUT_BINS_USED	NUMBER(5)	MVP 7.1	8, bin 8.

			0 = 1-up, 2-255 = 2-
			up through 255-up,
N_UPNESS	NUMBER(5)	MVP 7.1	256 = user defined.
			Bit encoded: 0,set if
			stapling
			attempted;1,out of
			staples;2,attempt to
			staple a 1 page
			job;3,attempt to
			staple too many
			pages;4,printer
			canceled the staple
			operation; 5,output
			bin change during stapled set;6,paper
			jam;7,staple
STAPLE FAILURES	NUMBER(5)	MVP 7.1	jam;8,other
			The PQS held job.
			Possible values = "1"
PQS_HELD_JOB	NUMBER(10)	MVP 7.1	for true, "0" for false.
			Lifetime page count
			of this device at the
LIFETIME_PAGE_COUNT	NUMBER(10)	MVP 7.1	time of this job.
DESTINATION_TYPE	NUMBER(3)	MVP 7.1	The destination type.
JOB_NAME	VARCHAR2(150)	MVP 7.1	Name associated with this job.
	VARCHARZ(150)		The name of the host
HOST_NAME	VARCHAR2(55)	MVP 7.1	machine.
			Name of user
USER_NAME	VARCHAR2(55)	MVP 7.1	submitting this job.
			The print queue
QUEUE_NAME	VARCHAR2(55)	MVP 7.1	name.
SOURCE PROTOCOL	VARCHAR2(25)	MVP 7.1	The job source protocol.
			Number of account
			that submitted this
ACCOUNT_NUMBER	VARCHAR2(55)	MVP 7.1	job.
OTHER_USER_DEFINED_DATA	VARCHAR2(55)	MVP 7.1	Other job data.
			Have all of this
			table's children also
			been populated?
			Possible values = "Y"
DATA_READY	VARCHAR2(1)	MVP 7.1	for true, "N" for false.
			Status of the Job; Possible values:
			"OK",
			"DELETED",
			"CANCELLED",
JOB_STATUS	VARCHAR2(15)	MVP 10.0	"ERROR
			Toner Darkness
TONER_DARKNESS_VALUE	NUMBER(10)	MVP 10.0	Level

PRINT_DARKNESS_VALUE	NUMBER(10)	MVP 10.0	Printing Darkness Level
TONER_DARKNESS_STR	VARCHAR2(50)	MVP 10.0	Toner Darkness String
			Toner Saver Value Possible values "Off",
TONER_SAVER	VARCHAR2(10)	MVP 10.0	"On" Indicates status of stapling Job. Possible values "None", "Stapling Attempted", "Out Of Staples", "Staple On Page Failure", "Staple Too Many Pages Failure", "Printer Sent Command To Flush", "Output Bin Changed Failure", "Paper Jam Failure", "Staple Jam failure",
STAPLE_STATUS	VARCHAR2(50)	MVP 10.0	"Other Failure" Indicates punching status "Y" or "N". Field may not exist if punching not
PUNCHED	VARCHAR2(1)	MVP 10.0	supported on the machine
JOGGED	VARCHAR2(1)	MVP 10.0	Indicates jogging status "Y" or "N". Field may not exist if punching not supported on the machine
PH_USER_NAME	VARCHAR2(64)	MVP 10.0.1	'Print and Hold' user name. Possible Values:
DELETE_REASON	VARCHAR2(64)	MVP 10.0.1	Possible Values: Completed, Cancelled, Reset, Deleted, Insufficient Memory, Insufficient Memory (Job Structures), Limit, Duplicate Job Entry.

4.2.4 RAWJAPRINTJOBINPUT

This table contains records pertaining to the type of media physically input to and used by the submitted job on a device.

		Supported	
Field Name	Data Type	MVP Release	Description
Note: All printers may not support		specific informatio	n, please contact Lexmark
Customer Support at http://support	<u>lexmark.com</u> .	1	
			Time at which this job
			was detected by
			MarkVision, in seconds
			elapsed since 0:00:00,
TIME_UTC	NUMBER(10)	MVP 7.1	Jan 1, 1900, GMT.
			String identifier
			MarkVision uses to
DEVICE_ID	VARCHAR2(255)	MVP 7.1	identify this device.
			Job id assigned by
JOB_ID	NUMBER(5)	MVP 7.1	device.
			Version of the data
VERSION	NUMBER(5)	MVP 7.1	format used in this table.
			Possible Values:
			Envelope Feeder, Feeder
			2, Manual Envelope
			Feeder, Manual Paper
			Feeder, Multipurpose
			Feeder, Tray [n] where 5
NAME	VARCHAR2(64)	MVP 7.1	>= n >= 1
			Number of physical
			sheets ejected from
SHEET_COUNT	NUMBER (10)	MVP 7.1	device.
			Number of impressions
IMPRESSION_COUNT	NUMBER (10)	MVP 7.1	made on each sheet.
			Number of physical color
			sheets ejected from
COLOR_SHEET_COUNT	NUMBER (10)	MVP 7.1	device.
			Number of color
			impressions made on
COLOR_IMPRESSION_COUNT	NUMBER(10)	MVP 7.1	each sheet.

4.2.5 RAWJAPRINTJOBSUPPLY

This table contains records pertaining to the printing supplies, such as type of toner and amount used, and the resolution of the jobs submitted.

Field Name Note: All printers may not support s	Data Type some fields. For more s	Supported MVP Release specific informatio	Description n, please contact Lexmark
Customer Support at http://support.			
	NUMBER(10)	MVP 7.1	Time at which this job was detected by MarkVision, in seconds elapsed since 0:00:00, Jan 1, 1900, GMT.

			String identifier
			MarkVision uses to
DEVICE ID	VARCHAR2(255)	MVP 7.1	identify this device.
—			Job id assigned by
JOB_ID	NUMBER(5)	MVP 7.1	device.
VERSION	NUMBER(5)	MVP 7.1	Version of the data format used in this table.
VERGION		10101 7.1	Name of the supply e.g.
			Black Image Drum, Black
			Ink - Photo Cartridge,
			Black Ink, Black Toner,
NAME	VARCHAR2(64)	MVP 7.1	etc.
			The toner count.
			Indicates how much toner
			was used per job. Higher
			numbers indicate more
TONER_COUNT	NUMBER(10)	MVP 7.1	toner was used.
			The number of levels.
			Used by MarkVision
			Professional to calculate
NUMBER_OF_LEVELS	NUMBER(10)	MVP 7.1	the percentage full.
			The maximum capacity of
MAX_CAPACITY	NUMBER(10)	MVP 7.1	the supply.
			The current level. Used
			by MarkVision
			Professional to calculate
CURRENT_LEVEL	NUMBER(10)	MVP 7.1	the percentage full. The current print level.
			Less accurate method of
			calculating supply
			percentage. Possible
			values are 0-7 (0
			meaning empty; 7
CURRENT PRINT LEVEL	NUMBER(10)	MVP 7.1	meaning full).
			inicarini g ran/i

4.2.6 RAWJAPRINTJOBPAPER

This table contains records pertaining to the printing Papers, such as type of Paper and Printing counts etc.

Field Name	Data Type	Supported MVP Release	Description
Note: All printers may not support s Customer Support at http://support.		pecific informatio	n, please contact Lexmark
			Time at which this job was detected by MarkVision, in seconds elapsed since 0:00:00,
TIME_UTC	NUMBER(10)	MVP 10.0	Jan 1, 1900, GMT.
DEVICE_ID	VARCHAR2(255)	MVP 10.0	String identifier MarkVision uses to identify this device.
JOB_ID	NUMBER(5)	MVP 10.0	Job id assigned by device.

VERSION	NUMBER(5)	MVP 10.0	Version of the data format used in this table.
			Indicates the type of Paper. Possible values : "Plain Paper", "Colored Paper", "Transparency", "Card Stock", "Labels", "Letterhead"," Preprinted", "Bond", "Envelope", "Coated Paper", "Glossy Paper", "Iron On", "Photo Paper", "Greeting Card", "Custom Type 1", "Custom Type 2", "Custom Type 3", "Custom Type 5", "Custom Type 5",
PAPER_TYPE	VARCHAR2(64)	MVP 10.0	"Custom Type 6"
SHEET COUNT	NUMBER (10)	MVP 10.0	Number of physical sheets ejected from device.
			Number of impressions
IMPRESSION_COUNT	NUMBER (10)	MVP 10.0	made on each sheet.
COLOR_IMPRESSION_COUNT	NUMBER(10)	MVP 10.0	Number of color impressions made on each sheet.

4.3 Field Relationships

RAWJAPRINTJOBINPUT		RAWJAPRINTJOB		RAWJAPRINTJOBSUPPLY
DEVICE_ID	00 <u>1</u> 00 1	DEVICE_ID	1 00	DEVICE_ID
TIME_UTC		JOB_ID	$\frac{1}{1}$	TIME_UTC
JOB_ID	<u>~~</u>	тме_итс —	⊢∕≃	JOB_ID
NAME		DATA_SOURCE		NAME
VERSION		VERSION		VERSION
SHEET_COUNT		DATA_READY		TONER_COUNT
IMPRESSION_COUNT		DAY		NUMBER_OF_LEVELS
COLOR_SHEET_COUNT		MONTH		CURRENT_LEVEL
COLOR_IMPRESSION_COUNT	-		1	CURRENT_PRINT_LEVEL
			-	

5. Device Status

MarkVision Professional allows you to collect device status information for a particular printer or group of printers. With the collected data you can create reports, perform trend analysis, etc. See <u>Configuring Database Driver</u> for a description of supported databases.

5.1 Configuring MarkVision Professional

Device Status collection is configurable in the **Job Statistics (Trend Analysis)** task. For more information on this task, see the <u>Job Statistics (Trend Analysis)</u> section.

5.2 Table and Field Descriptions

The tables and descriptions of each field are listed below. The data types listed for each field listed are specific to Oracle databases. Please reference the <u>Data Type Conversion</u> section for converting to Microsoft Access or SQL Server data types.

5.2.1 RAWDEVICESTATUS

This table contains records of status messages and alerts, along with the times they occurred. Only the oldest and most significant status condition is populated in this table. Reference the <u>RAWDSDEVICESTATUS</u> table for a complete description of all status conditions.

		Supported	-
Field Name	Data Type	MVP Release	Description
Note: All printers may not support s Customer Support at <u>http://support.</u>		specific informatio	n, please contact Lexmark
Customer Support at <u>http://support.</u>			Time at which this job
			was detected by
			MarkVision, in seconds
			elapsed since 0:00:00,
TIME_UTC	NUMBER(10)	MVP 7.1	Jan 1, 1900, GMT.
			String identifier
			MarkVision uses to
DEVICE_ID	VARCHAR2(255)	MVP 7.1	identify this device.
			Version of the data format
VERSION	NUMBER(5)	MVP 7.1	used in this table.
			Year in which this job was
YEAR	NUMBER(4)	MVP 7.1	detected by MarkVision.
			Month in which this job
			was detected by
MONTH	NUMBER(2)	MVP 7.1	MarkVision.
			Day of the month on
			which this job was
DAY	NUMBER(2)	MVP 7.1	detected by MarkVision.
			Day of week on which
			this job was detected by
DAY_OF_WEEK	NUMBER(1)	MVP 7.1	MarkVision.
			Hour of the day in which
			this job was detected by
HOURS	NUMBER(2)	MVP 7.1	MarkVision.
			Minute of the hour in
MINUITES		MVP 7.1	which this job was
MINUTES	NUMBER(2)		detected by MarkVision.

			Seconds of the minute in
			which this job was
SECONDS	NUMBER(2)	MVP 7.1	detected by MarkVision.
			Offset from GMT of the
			current time zone, in
			seconds. This is an
			integer from -43200 to
GMT_OFFSET_IN_SECONDS	NUMBER(5)	MVP 7.1	43200.
			Does the current time
			zone use Daylight Savings Time? Possible
	VARCHAR2(1)		values = "Y" for true, "N"
IS_USING_DST		MVP 7.1	for false.
			Offset from Standard
			Time of the current time
DST_OFFSET_IN_SECONDS	NUMBER(4)	MVP 7.1	zone, in seconds.
			Where did this record
			come from? Possible
	VARCHAR2(32)		Values: 'Granite V.x.x,
DATA_SOURCE		MVP 7.1	Alert'.
RMIPORTNUMBER	NUMBER(10)	MVP 10.1	Marvision Sever's RMI
			service Port Number
SERVER_IP_ADDRESS	VARCHAR2(20)	MVP 10.1	IP Address of the host
			m/c on which Markvision
			server is running
MESSAGE ID	VARCHAR2(255)	MVP 7.1	The description of the alert.
			Have all of this table's
			children also been
			populated? Possible
			values = "Y" for true, "N"
DATA_READY	VARCHAR2(1)	MVP 7.1	for false.
			The location of the device
LOCATION_ID	VARCHAR2(255)	MVP 7.1	status alert.
SEVERITY	VARCHAR2(32)	MVP 7.1	The severity of the alert.

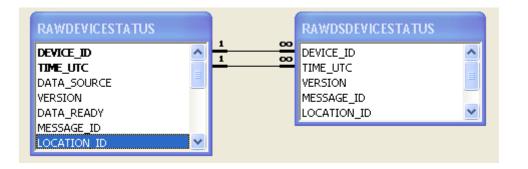
5.2.2 RAWDSDEVICESTATUS

This table contains a complete record of status messages and alerts, along with the times they occurred.

Field Name	Data Type	Supported MVP Release	Description
Note: All printers may not support so		specific informatio	n, please contact Lexmark
Customer Support at http://support.l	<u>exmark.com</u> .		
TIME_UTC	NUMBER(10)	MVP 10.0.1	Time at which this status alert was detected by MarkVision, in seconds elapsed since 0:00:00, Jan 1, 1900, GMT.
DEVICE_ID	VARCHAR2(255)	MVP 10.0.1	String identifier MarkVision uses to identify this device.
VERSION	NUMBER(5)	MVP 10.0.1	Version of the data format

			used in this table.
MESSAGE ID	VARCHAR2(255)	MVP 10.0.1	The description of the alert.
LOCATION_ID	VARCHAR2(255)	MVP 10.0.1	The location of the device status alert.
SEVERITY	VARCHAR2(32)	MVP 10.0.1	The severity of the alert.
GRAPHIC_ID	NUMBER(5)	MVP 10.0.1	The graphic identifier used to display the alert condition.
			The actual text displayed on the printer's op-panel. NOTE: This information is not available on every
DISPLAY_TEXT	VARCHAR2(64)	MVP 10.1	printer model.

5.3 Field Relationships



6. Data Type Conversion

Data types are listed specific to Oracle databases. When writing to Microsoft Access or SQL Server databases, the data types are converted according to the following tables:

Oracle	Microsoft Access
NUMBER (1)	BYTE
NUMBER (2)	BYTE
NUMBER (3)	BYTE
NUMBER (4)	SHORT
NUMBER (5)	LONG
NUMBER (6)	LONG
NUMBER (7)	LONG
NUMBER (8)	LONG
NUMBER (9)	LONG

NUMBER (10)	DOUBLE
VARCHAR2(X)	VARCHAR(X)

Oracle	Microsoft SQL Server
NUMBER(x)	NUMERIC(x)
VARCHAR2(x)	VARCHAR(x)