MarkVision Professional 10.1

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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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 (8.0.3)
- 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 Oracle JDBC Driver plug-in.

2.1.2 UNIX

- Oracle (8.0.3)
- Comma-separated variable (CSV)

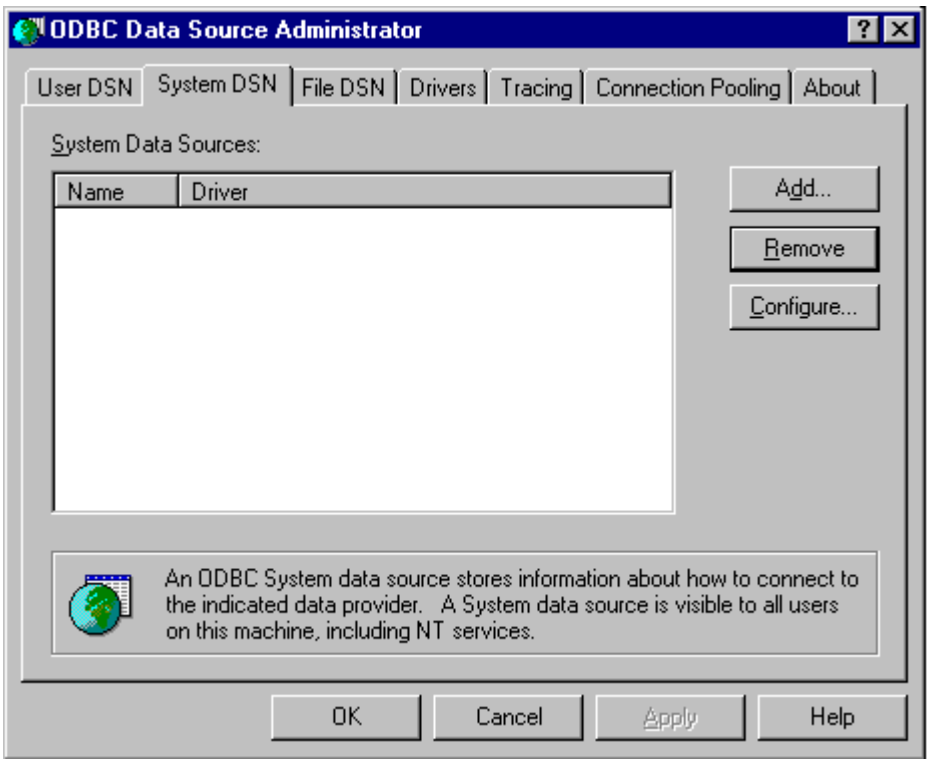
NOTE: The 'Oracle' database option is only available after installing the Oracle JDBC Driver plug-in.

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.

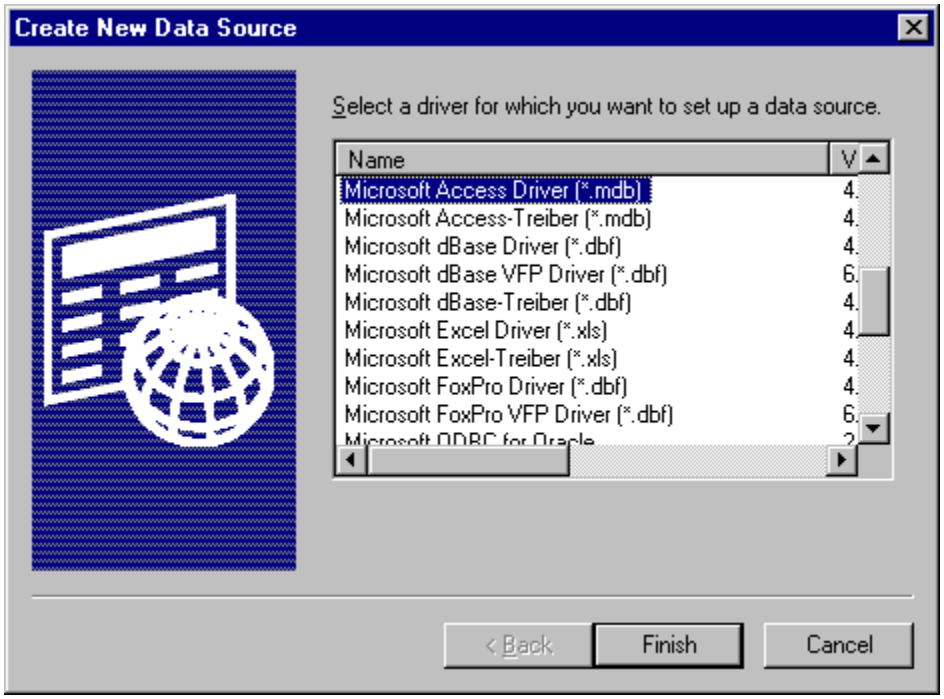
Example 1: *Start→Settings→Control Panel →Data Sources (ODBC)* for Windows NT 4.0
Example 2: S*tart→Settings→Control Panel →Administrative Tools→Data Sources (ODBC* for Windows 2000 and beyond

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



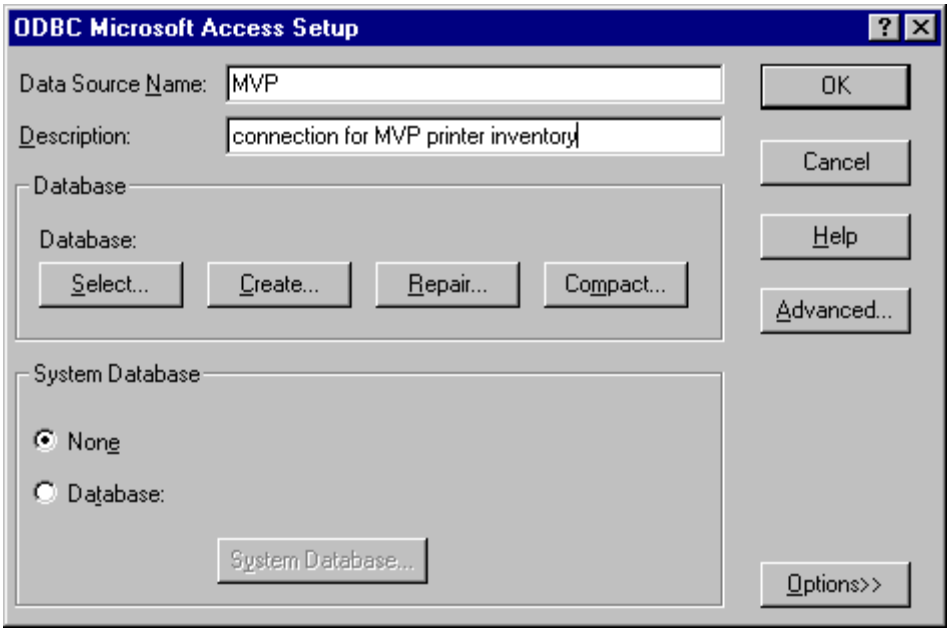
2.2.1 Microsoft Access

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

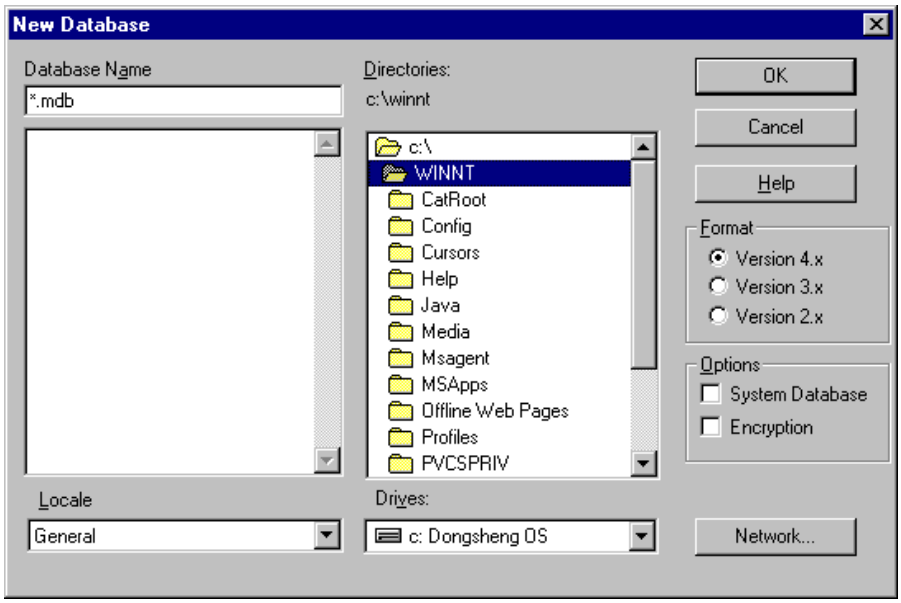


After clicking “Finish”, the following dialog box will appear. Think of a name for your connection and type it into the “Data Source Name” (DSN) field, and then type a description for the data

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

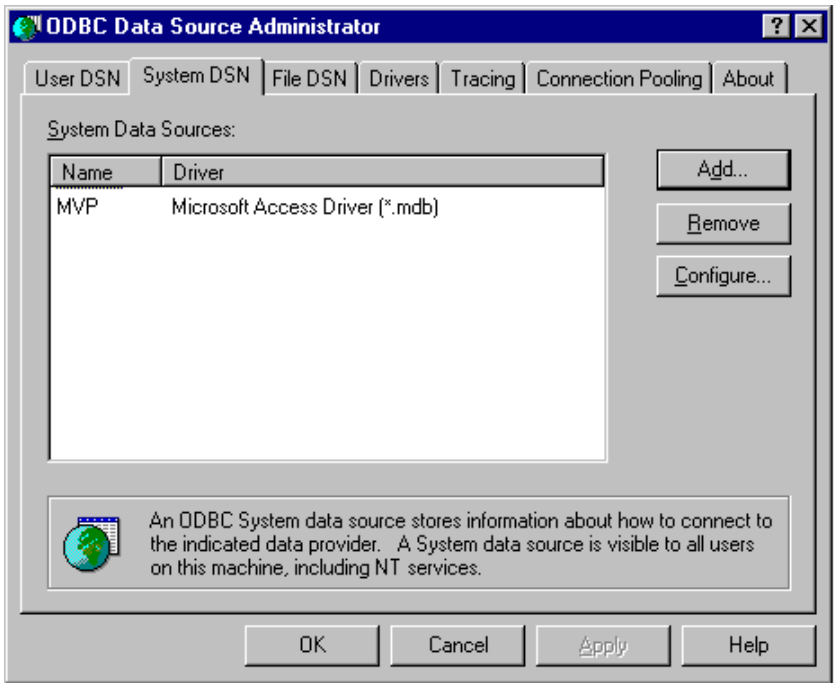


After the name and description for the connection has been entered, you must specify a database in which to store the data coming from MarkVision Professional. You may either “Select” a database already created for this purpose, or choose “Create” to define a new database and location. Click on “Create”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



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.



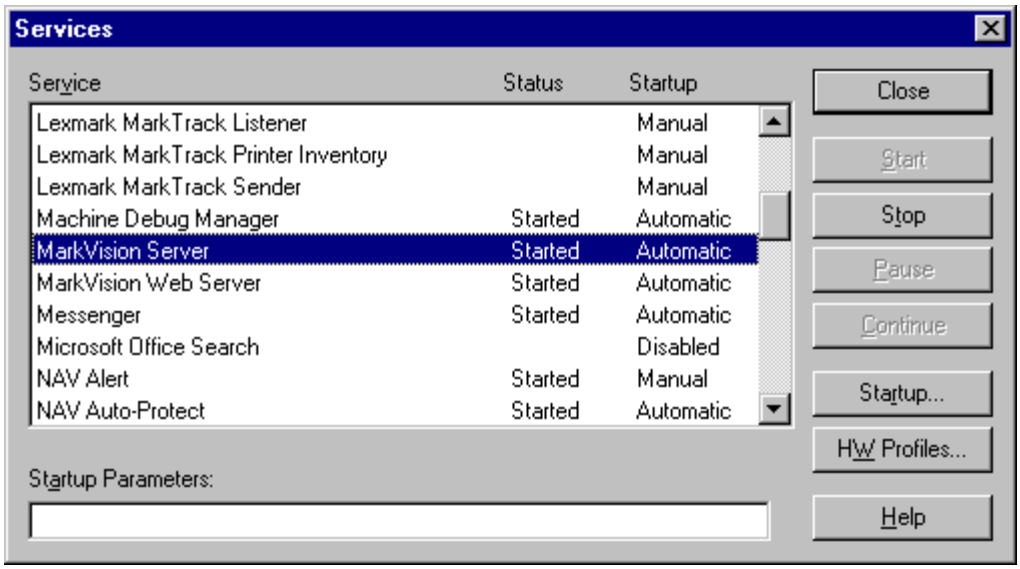
The name you specified for your connection (DSN) is now listed under System DSN. Click “OK”. You are now ready to configure MarkVision Professional to start sending the data.

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

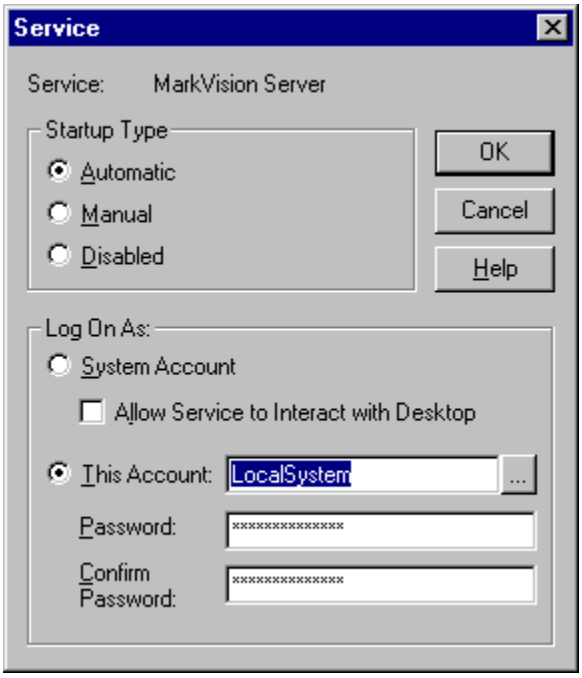
In the URL field, type the name of the System DSN you created earlier. It is not necessary to specify the path to the actual database file; this was defined while creating the connection. For the example just described, enter **jdbc:odbc:MVP**. If you have enabled security features while creating the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



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.



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 Microsoft Access 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 v1.0.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.

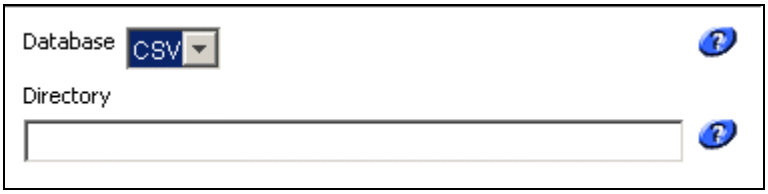
In the URL field, change the "localhost" value to the hostname or IP address of the machine running your Oracle database. The URL must use the following format:

<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.



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

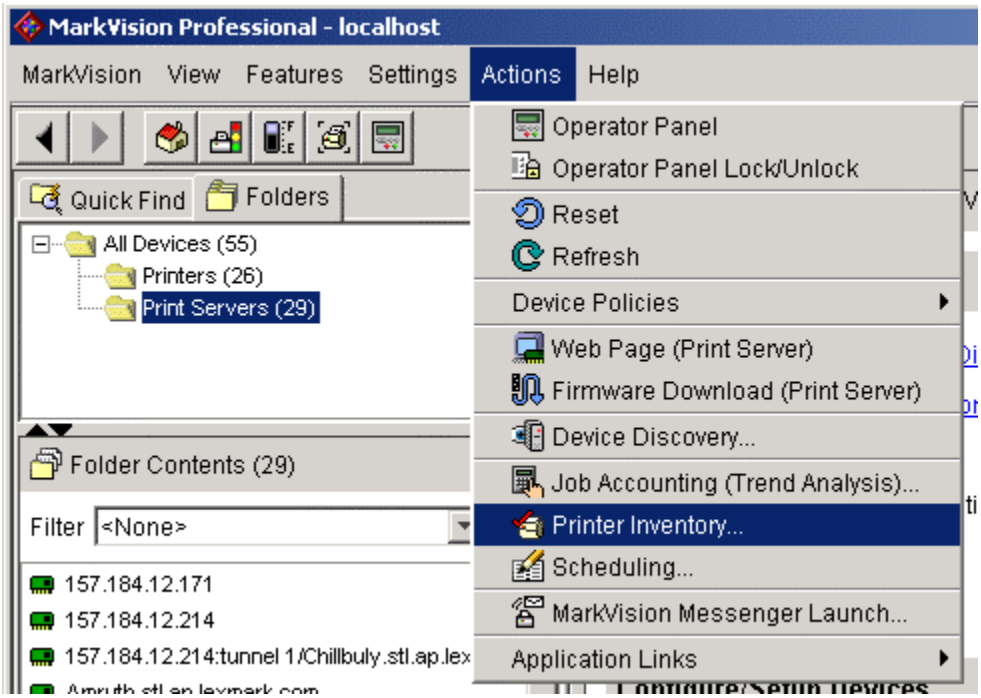
You can use the MarkVision Server to gather and store information about the devices in your organization. You can then view the collected information (*printer inventory*) using a database tool or an application, such as MarkTrack, specifically designed to interpret and display the information. See Configuring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

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

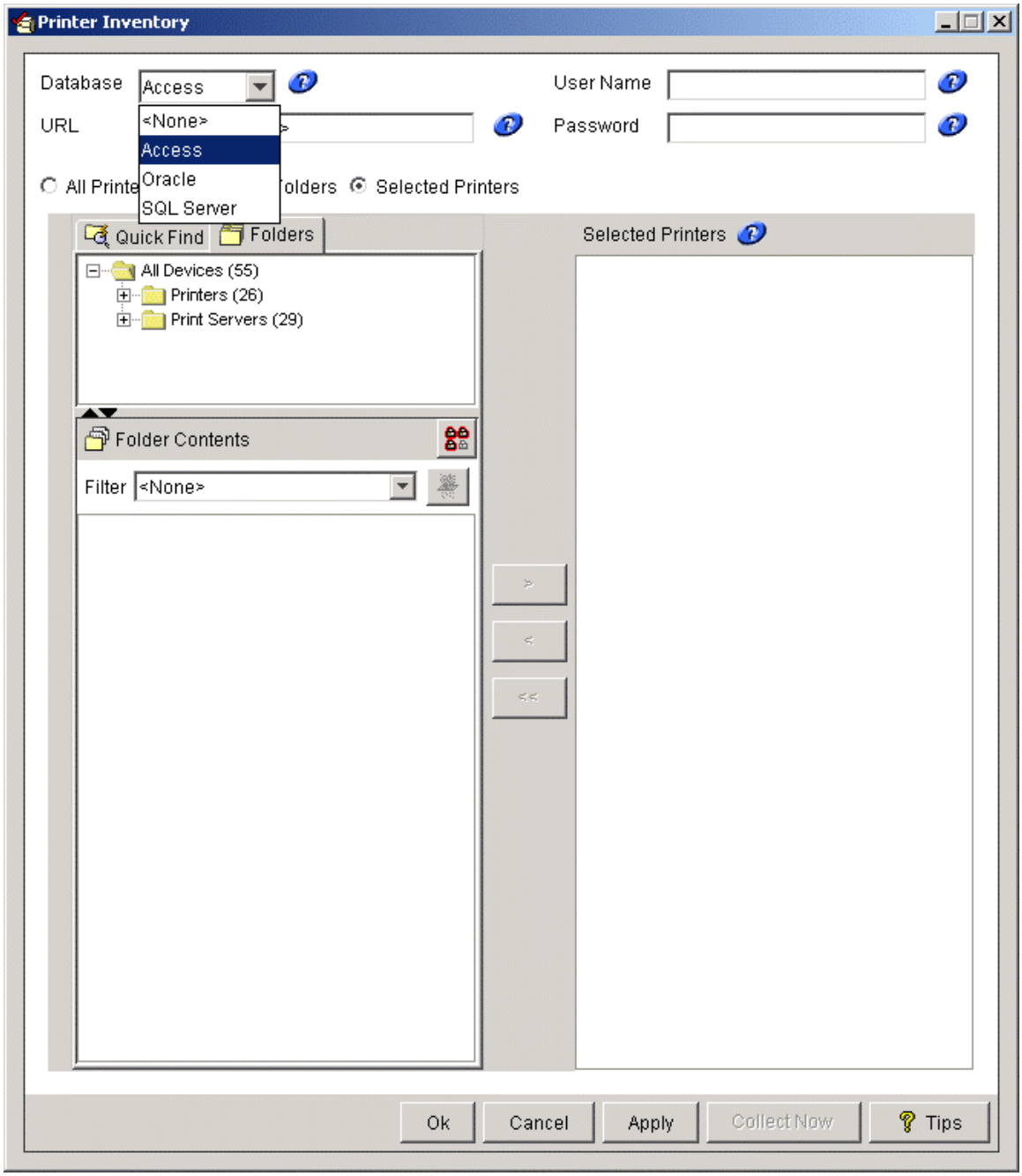
- How many printers do we have on our server(s) / network?
- What types of printers do we have?
- What options are installed on our printers?
- What is the lifetime page count of our printers?
- What are the addresses of our printers?

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.



The Printer Inventory screen should be displayed.



Select the appropriate database. Follow database specific instructions in the Configuring Database Driver 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 Data Type Conversion 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.
DEVICE_ID	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	NUMBER(2)	MVP 7.1	Day of the month in which 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	NUMBER(10)	MVP 7.1	Lifetime page count of 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.
REMINDER_MONTH	NUMBER(2)	MVP 7.1	Possible Values: 12 >= n >= 0; 0 = not set.
REMINDER_YEAR	NUMBER(4)	MVP 7.1	Possible Values: 255 >= n >= 0; offset from 1996: 0 = 1996, 1 = 1997, etc.
REMINDER_STATUS	NUMBER(3)	MVP 7.1	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 = completed.
DISK_SPOOLER_PCT	NUMBER(10)	MVP 7.1	Percent of the disk used by the buffering partition. WARNING: Only valid with job buffering version 1. (See the device's capability list.)
DISK_SPOOLER_FREE	NUMBER(10)	MVP 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 device's capability list.)
IS_COMMUNICATING	VARCHAR2(1)	MVP 7.1	Always set to "Y".
MAC_ADDRESS	VARCHAR2(12)	MVP 7.1	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 UAA.)
IP_ADDRESS	VARCHAR2(15)	MVP 7.1	The print server's IP address.
SUBNET_MASK	VARCHAR2(15)	MVP 7.1	The print server's network mask.
DNS_NAME	VARCHAR2(255)	MVP 7.1	DNS Name for this device.
GATEWAY_ADDRESS	VARCHAR2(15)	MVP 7.1	The IP address of the print server's gateway.
NOVELL_NETWORK_NUM	VARCHAR2(8)	MVP 7.1	Network Number of this device.
LEXLINK_NICKNAME	VARCHAR2(25)	MVP 7.1	The nickname assigned to the print server for the LexLink protocol.
NETWARE_LOGIN_NAME	VARCHAR2(44)	MVP 7.1	The print server's 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.
COPIER_OPTION_NAME	VARCHAR2(24)	MVP 7.1	The name of the copier option.
COPIER_OPTION_CODE_LEVEL	VARCHAR2(16)	MVP 7.1	The code level of the copier option.
CONTROL_PANEL_NAME	VARCHAR2(24)	MVP 7.1	The panel name of the panel.
CONTROL_PANEL_CODE_LEVEL	VARCHAR2(16)	MVP 7.1	The code level of the panel.
CONTACT_NAME	VARCHAR2(255)	MVP 7.1	Contact for this device.
CONTACT_LOCATION	VARCHAR2(255)	MVP 7.1	Location of contact for this device.
SYSTEM_NAME	VARCHAR2(255)	MVP 7.1	SNMP System device name.
DATA_READY	VARCHAR2(1)	MVP 7.1	"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 tables.
WEB_ENABLED	VARCHAR2(1)	MVP 7.1	Is this device's adapter web-enabled?
FAMILY_ID	NUMBER(10)	MVP 7.1	The family id specifying to which family this device belongs.

3.2.2 RAWPIEMULATOR

This table contains records pertaining to the type of emulation available on 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**.**			
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	Download emulator 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 >= n >= 1, IR[n] 4 >= n >= 1, Internal[n] 3 >= n >= 1, LocalTalk[n] 4 >= n >= 1, Network[n] 6 >= n >= 1, Parallel[n] 4 >= n >= 1, Serial[n] 4 >= n >= 1, USB[n] 4 >= n >= 1, NetworkStd
IS_BUFFERED	VARCHAR2(1)	MVP 7.3	Reveals if the data is buffered on the internal hard drive of the device. 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 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	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
FREE_MEMORY	NUMBER(10)	MVP 7.1	The value of this field indicates the maximum amount of free memory in bytes available to this interpreter at point when 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.
NUM_OUTPUTS	NUMBER(3)	MVP 7.1	Number of output bins 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.

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	Name of the supply
SUPPLY_TYPE	VARCHAR2(32)	MVP 7.1	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 , Pickup Roller
COLOR	VARCHAR2(16)	MVP 7.1	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, Multi, Yellow
IS_PHOTO	VARCHAR2(1)	MVP 7.1	Specifies if this is a photo ink cartridge; This attribute 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.
TONER_TYPE	VARCHAR2(32)	MVP 10.1	Optional type description of the supply. Possible values: 'MICR', 'Non-MICR', and 'Special'. NOTE: This information will not be available on every printer family.

3.2.6 RAWPIFONTOPTION

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

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 7.3	Time at which this device inventory was initiated, in seconds elapsed since 0:00:00, Jan 1, 1900, GMT.
DEVICE_ID	VARCHAR2(255)	MVP 7.3	String identifier MarkVision uses to identify this device.
VERSION	NUMBER(5)	MVP 7.3	Version of the data format used in this table.
NAME	VARCHAR2(64)	MVP 7.3	The name of a physical input device option. Possible Values: Multi-purpose Tray, Integrated Tray, Single Tray Input, Single Tray Input [N], Dual Tray Input, Dual Tray Input [N], Single Feeder, Single Feeder [N], Dual Feeder, Dual Feeder [N], Duplexor, Unknown Input Option
OPTION_TYPE	VARCHAR2(32)	MVP 7.3	The type of a physical input device option. Possible Values: Multi-purpose Tray, Integrated Tray, Single Tray Input, Single Tray Input [N], Dual Tray Input, Dual Tray Input [N], Single Feeder, Single Feeder [N], Dual Feeder, Dual Feeder [N], Duplexor, Unknown Input Option

BIN_COUNT	NUMBER(3)	MVP 7.3	The number of bins/outputs supported by the physical output device 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 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	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 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	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.

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

3.2.13 RAWPIDEVICESTATUS

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 some fields. For more specific information, please contact Lexmark Customer Support at http://support.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.
DEVICE_ID	VARCHAR2(255)	MVP 10.0	String identifier 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**.**			
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.
RECORD_ID	VARCHAR2(64)	MVP 10.0	Related Name of identifier for the record ;possible values PS;PCL;XL;Other;UNKNOWN
RECORD_TYPE	VARCHAR2(64)	MVP 10.0	Type of Record. Possible values Single; Range; List
VALUE_TYPE	VARCHAR2(64)	MVP 10.0	The type of value Possible Values: Integer Date 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
CAPACITY	NUMBER(10)	MVP 10.0	Column/Column value will exist For 'List' recordType
COUNT	NUMBER(10)	MVP 10.0	Column/Column value will exist For 'List' Record Type
START	NUMBER(10)	MVP 10.0	Column/Column value will exist For 'Range' record Type
STOP	NUMBER(10)	MVP 10.0	Column/Column value will exist For 'Range' record Type
INCREMENT	NUMBER(10)	MVP 10.0	Column/Column value will exist For 'Range' 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 some fields. For more specific information, 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.
RECORD_ID	VARCHAR2(64)	MVP 10.0	Related Name of identifier for the record ;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 4 Custom Type 5 Custom Type 6 UNKNOWN
RECORD_TYPE	VARCHAR2(64)	MVP 10.0	Type of Record. Possible values Single; Range; List
VALUE_TYPE	VARCHAR2(64)	MVP 10.0	The type of value Possible Values: Integer Date 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
CAPACITY	NUMBER(10)	MVP 10.0	Column/Column value will exist For ‘List’ record

			Type
COUNT	NUMBER(10)	MVP 10.0	Column/Column value will exist For 'List' Record Type
START	NUMBER(10)	MVP 10.0	Column/Column value will exist For ‘Range’ record Type
STOP	NUMBER(10)	MVP 10.0	Column/Column value will exist For ‘Range’ record Type
INCREMENT	NUMBER(10)	MVP 10.0	Column/Column value will exist For ‘Range’ 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 some fields. For more specific information, 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.
RECORD_ID	VARCHAR2(64)	MVP 10.0	Related Name of identifier for the record ;possible values Total Mono Color UNKNOWN
RECORD_TYPE	VARCHAR2(64)	MVP 10.0	Type of Record. Possible values Single; Range; List
VALUE_TYPE	VARCHAR2(64)	MVP 10.0	The type of value Possible Values: Integer Date 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
CAPACITY	NUMBER(10)	MVP 10.0	Column/Column value will exist For ‘List’ record Type
COUNT	NUMBER(10)	MVP 10.0	Column/Column value will exist For 'List' Record Type
START	NUMBER(10)	MVP 10.0	Column/Column value will exist For ‘Range’ record Type
STOP	NUMBER(10)	MVP 10.0	Column/Column value will exist For ‘Range’ record Type
INCREMENT	NUMBER(10)	MVP 10.0	Column/Column value will exist For ‘Range’ record Type

3.2.17 RAWPISTATSSUPPLIES

This table contains records pertaining to the Paper 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**.**			
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.
RECORD_ID	VARCHAR2(64)	MVP 10.0	Related Name of identifier for the record ;possible values Black Toner Cyan Toner Magenta Toner Yellow Toner Black Image 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 Thin Coat Waste Bottle Staples Hole Punch Box UNKNOWN
RECORD_TYPE	VARCHAR2(64)	MVP 10.0	Type of Record. Possible values Single; Range; List
VALUE_TYPE	VARCHAR2(64)	MVP 10.0	The type of value Possible Values: Integer Date 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
CAPACITY	NUMBER(10)	MVP 10.0	Column/Column value will exist For ‘List’ record Type
COUNT	NUMBER(10)	MVP 10.0	Column/Column value will exist For 'List' Record Type
START	NUMBER(10)	MVP 10.0	Column/Column value will exist For ‘Range’ record Type
STOP	NUMBER(10)	MVP 10.0	Column/Column value will exist For ‘Range’ record Type
INCREMENT	NUMBER(10)	MVP 10.0	Column/Column value will exist For ‘Range’ record Type

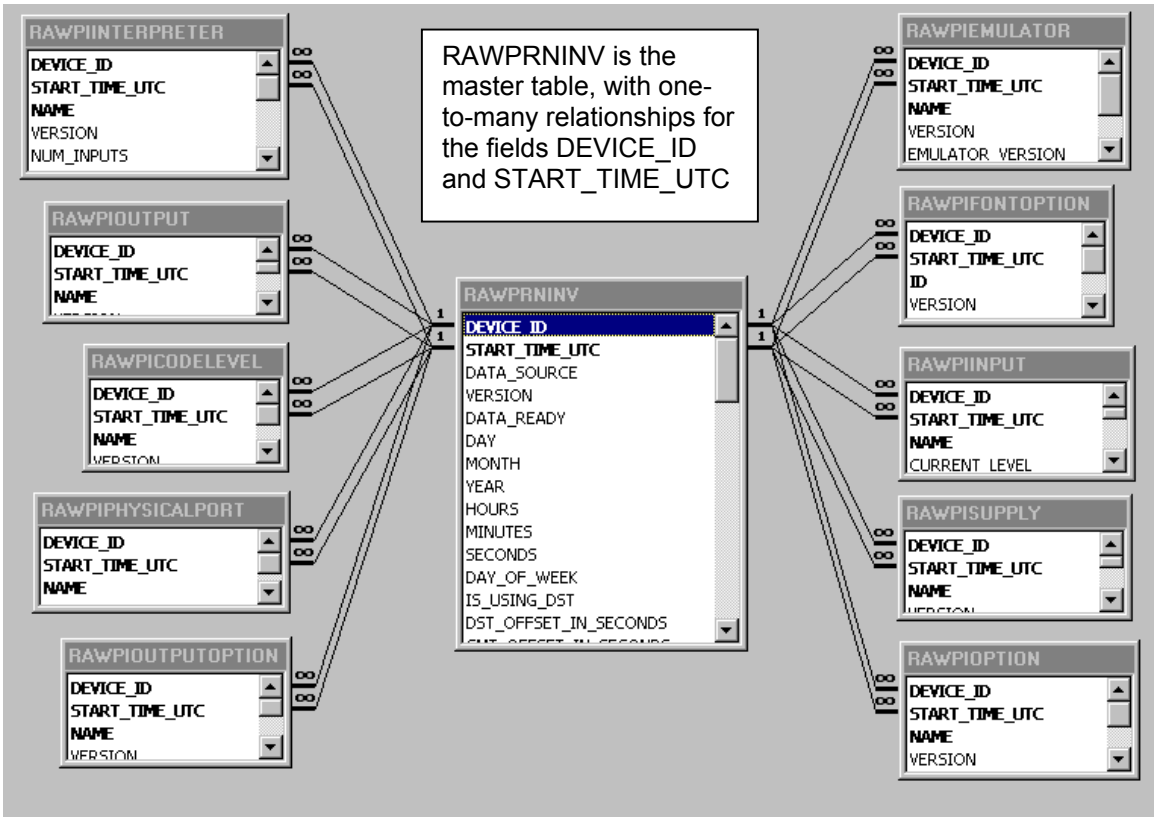
3.2.18 RAWPISTATSINSTALL

This table contains records pertaining to the Installed Date 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**.**			
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.
RECORD_ID	VARCHAR2(64)	MVP 10.0	Related Name of identifier for the record ;possible values Installed Date UNKNOWN
RECORD_TYPE	VARCHAR2(64)	MVP 10.0	Type of Record. Possible value: Single
VALUE_TYPE	VARCHAR2(64)	MVP 10.0	The type of value Possible Value: Date
DATA	NUMBER(10)	MVP 10.0	number of seconds since Jan. 1, 1970.

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

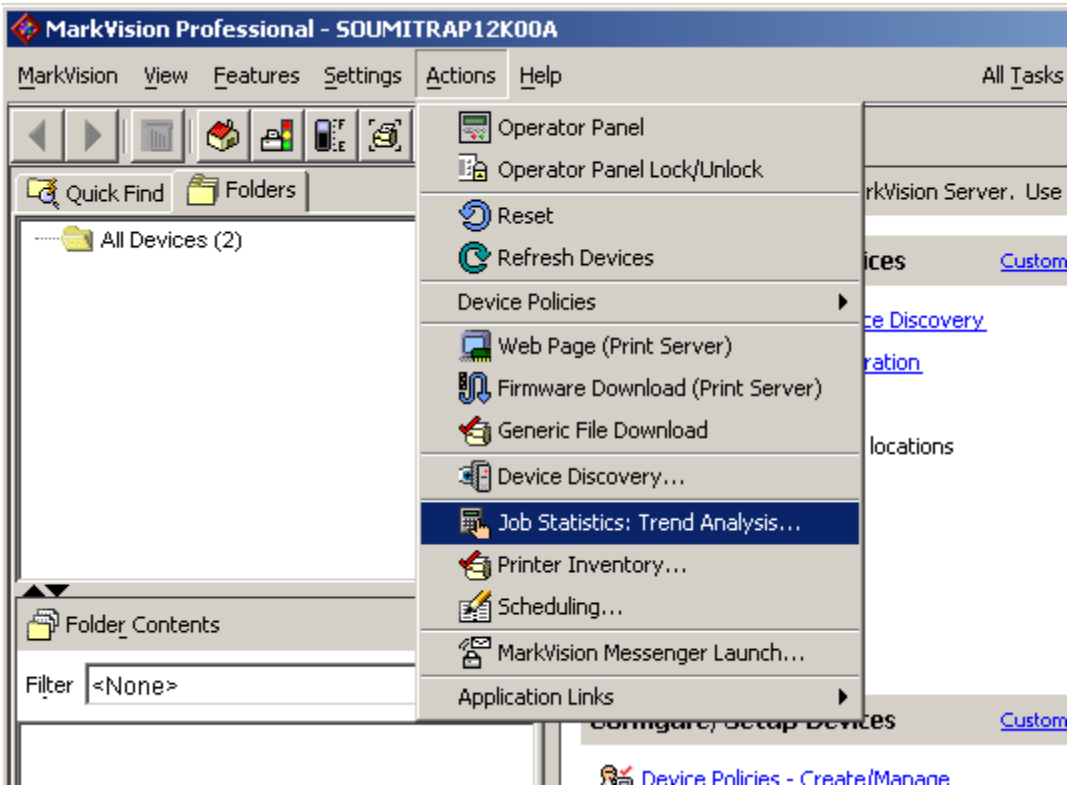
The Job Statistics task for MarkVision Professional allows you to collect information on processed jobs for a particular printer, or a group of printers. With the collected data you can create reports, perform trend analysis, and even drive a purchasing program to automatically order supplies such as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

4.1 Configuring MarkVision Professional

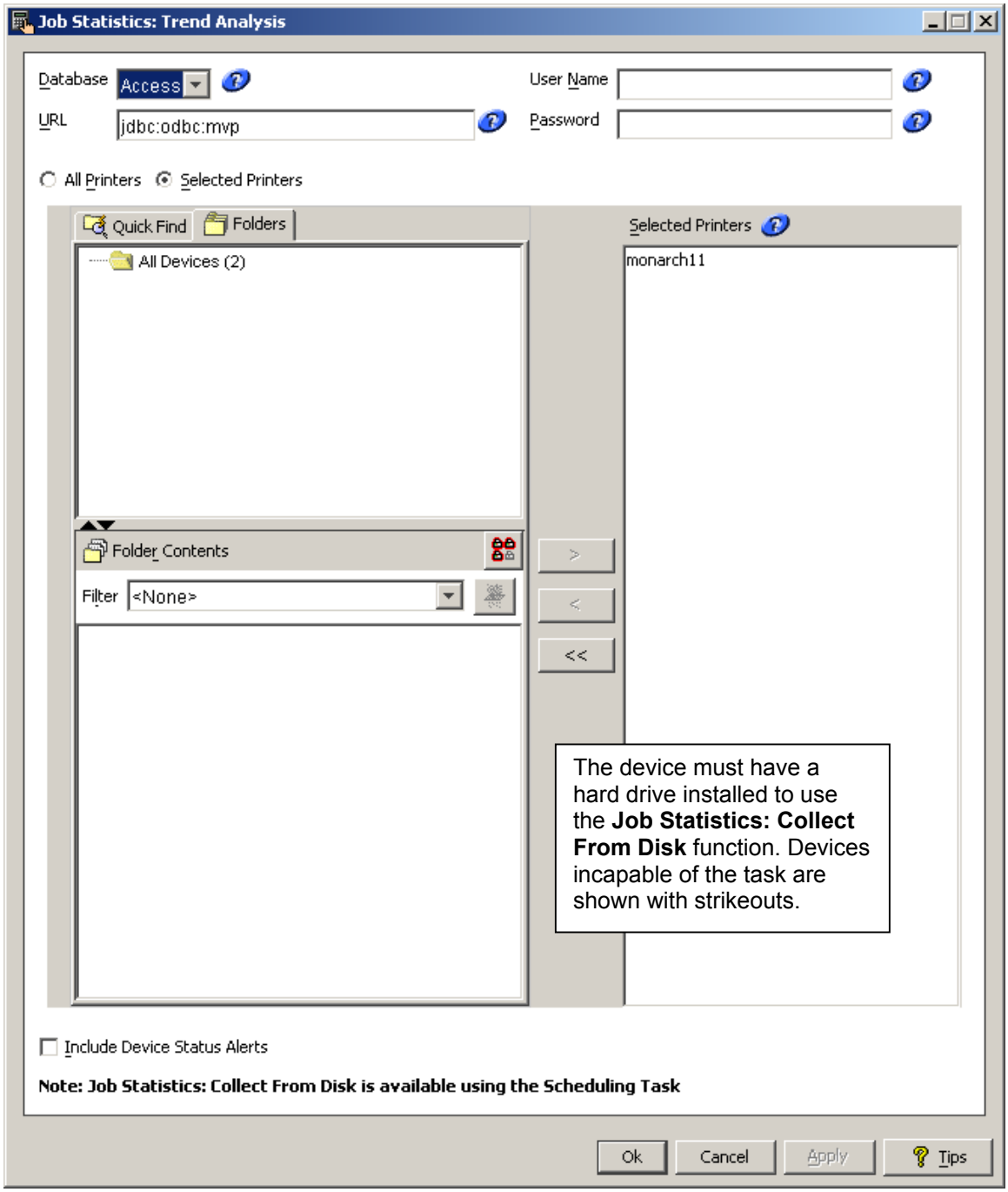
Job Statistics: Trend Analysis tells the printer to send an alert to the server each time a job is sent. **Job Statistics: Collect From Disk** tells the selected printer(s) to store the Job Statistics information on its own hard disk. The server may be scheduled to read this information and save it to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



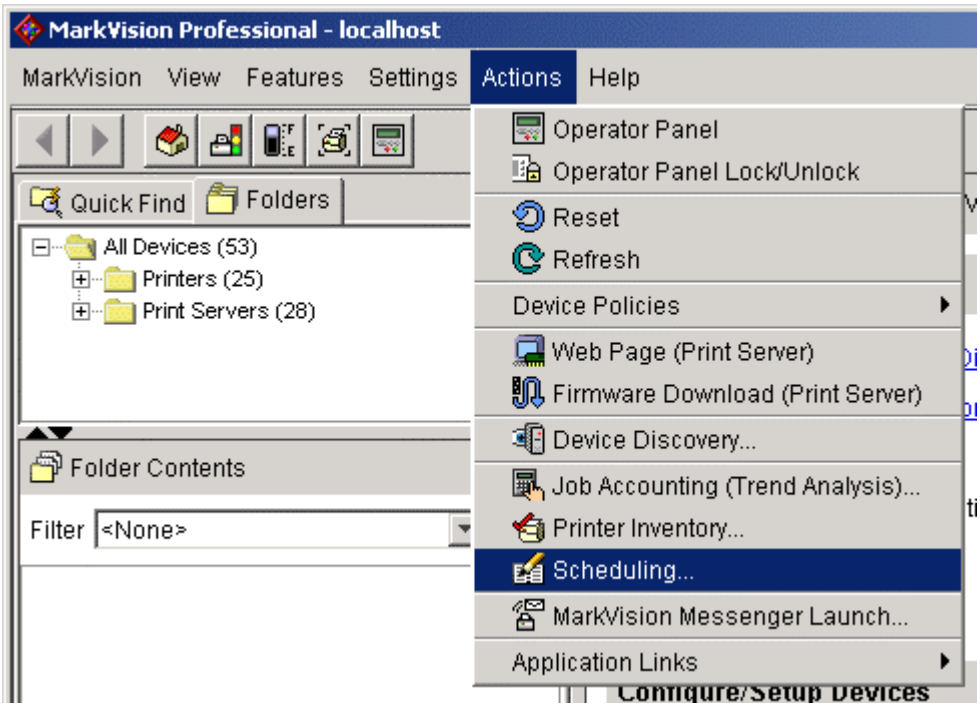
Select the appropriate database. Follow database specific instructions in the Configuring Database Driver section.

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

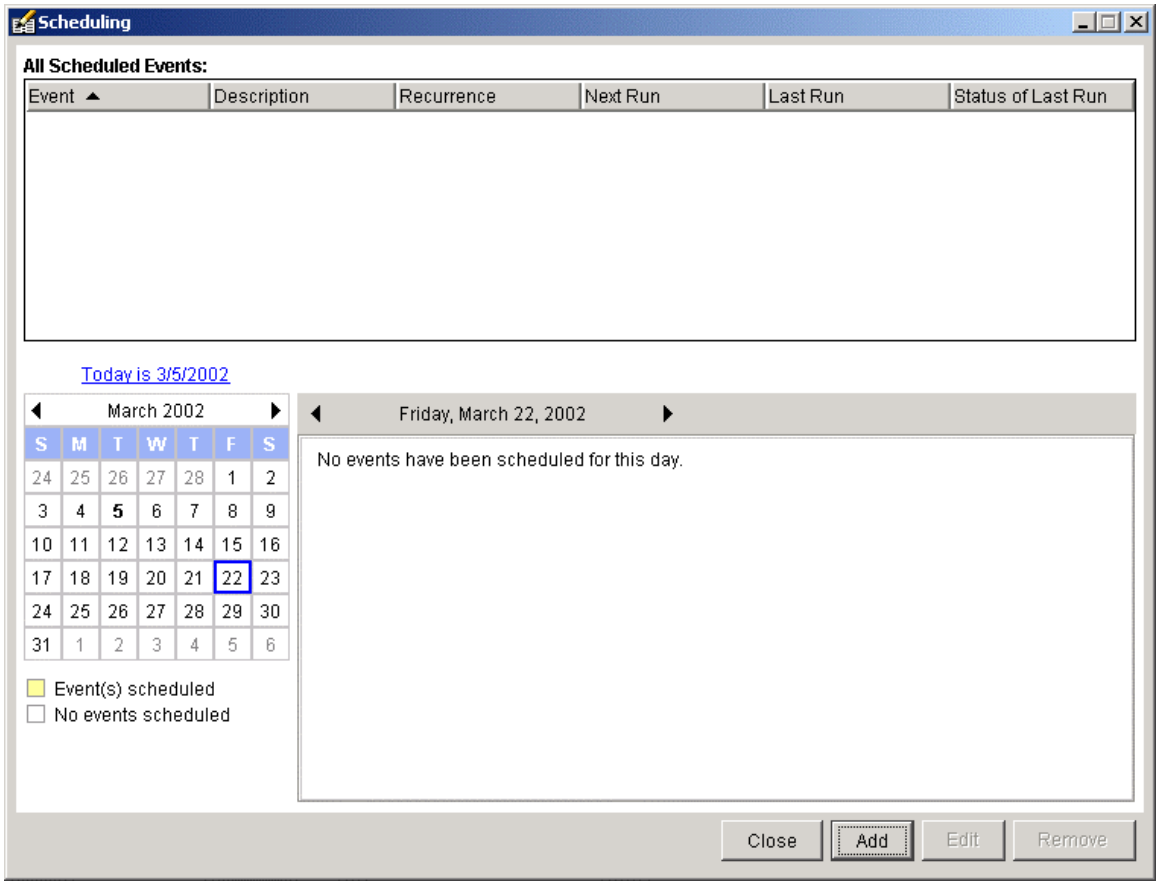
The checkbox to **Include Device Status Alerts** will populate certain device status tables when an error or warning condition is encountered Please see the Device Status section for more information. This will increase network traffic.

4.1.2 Job Statistics: Collect From Disk

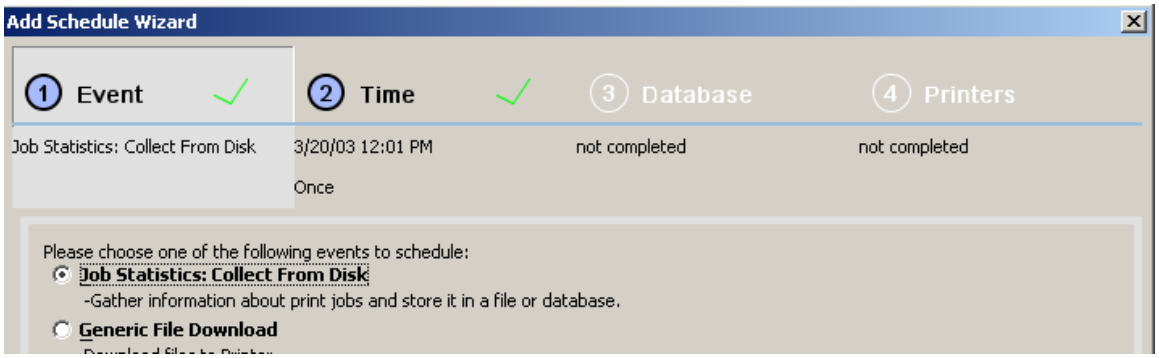
Open the MarkVision Professional client. Select “Actions” on the toolbar and then “Scheduling” from the drop-down list, or “Scheduling” from the “All Tasks” list.



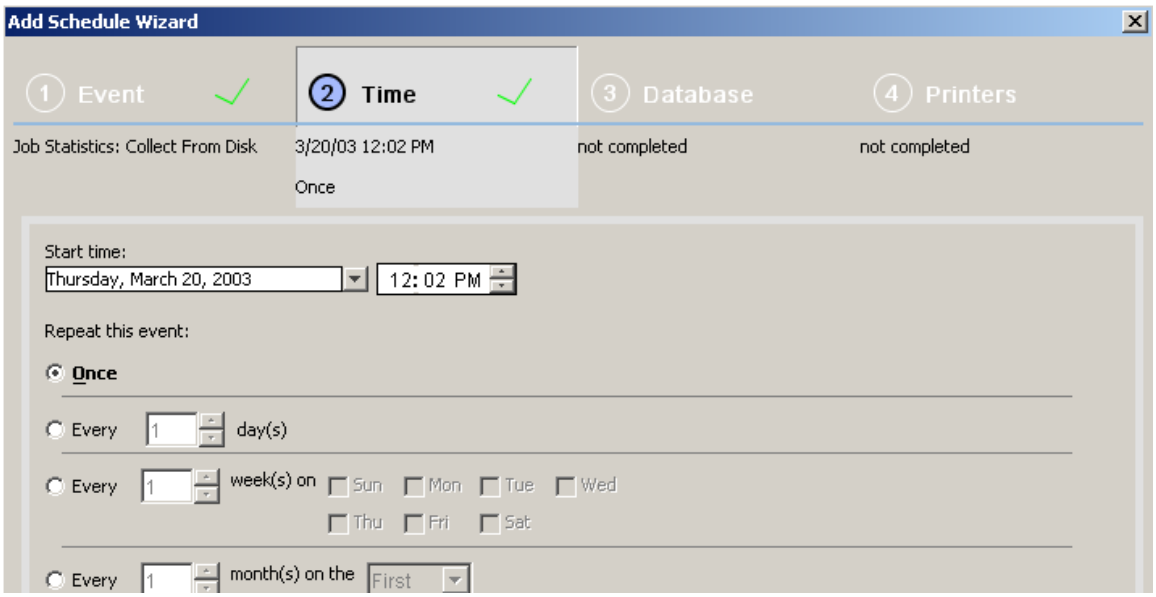
The Scheduling screen should be displayed:



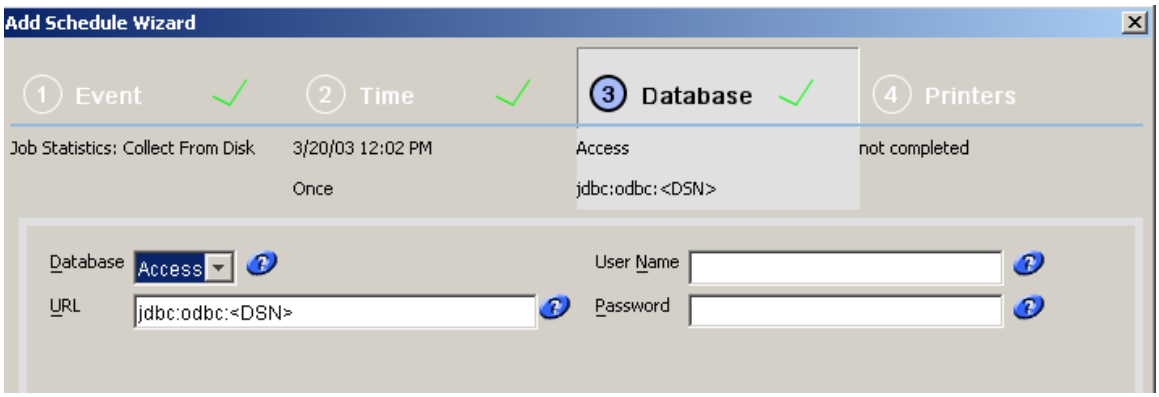
Select the “Add” button to add scheduled events for Job Statistics: Collect From Disk. The Add Schedule Wizard screen should be displayed:



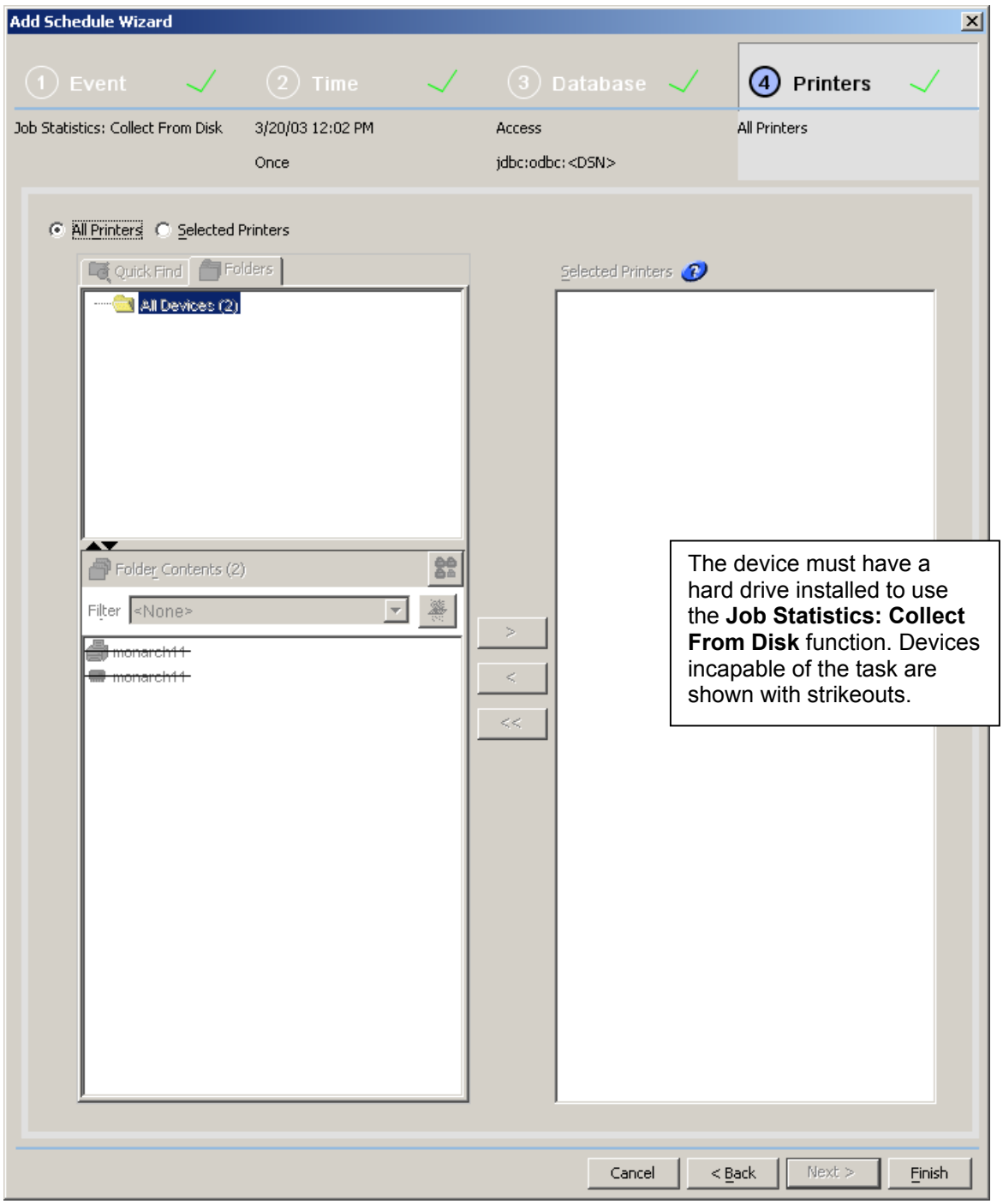
Select the **Job Statistics: Collect From Disk** radio button and click “Next.” Step 2 of the Add Schedule Wizard should be displayed:



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



Select the appropriate database. Follow database specific instructions in the Configuring Database Driver section. Select “Next” and step 4 of the Add Schedule Wizard should be displayed:



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 Data Type Conversion 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 some fields. For more specific information, please contact Lexmark Customer Support at http://support.lexmark.com**.**			
TIME_UTC	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.
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.
JOB_TYPE	VARCHAR2(32)	MVP 7.1	Possible Values: Receive, Send From Scanner, Send From Driver
PRINTER_JOB_ID	NUMBER(5)	MVP 7.1	For faxes with a transmission log, the job id of the log as it appears in RAWJAPRINTJOB.
JOB_DURATION_IN_SECONDS	NUMBER(10)	MVP 7.1	The duration of the job.
IS_COLOR	VARCHAR2(1)	MVP 7.1	Possible values = "Y" for 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.
ERROR_CODE	VARCHAR2(32)	MVP 7.1	Possible Values: None, No Dial Tone, No Answer, Busy, Line Dropped, Error In T30 Protocol, Modem Error , Out Of Memory, Cancelled
ACCOUNT_NUMBER	VARCHAR2(32)	MVP 7.1	Number of account that 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.
TRANSMISSION_SPEED	NUMBER(10)	MVP 7.1	The job transmission speed.
REQUESTED_RESOLUTION	VARCHAR2(32)	MVP 7.1	Possible Values: Standard, Fine, Superfine, Ultrafine
NEGOTIATED_RESOLUTION	VARCHAR2(32)	MVP 7.1	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, Ultrafine 408 x 400
COMPRESSION	VARCHAR2(32)	MVP 7.1	Possible Values: None, MH, MR, MMR, JPEG
IS_ECM	VARCHAR2(1)	MVP 7.1	Possible values = "Y" for true, "N" for false.
NUMBER_OF_SPLIT_PAGES	NUMBER(5)	MVP 7.1	The number of split pages.

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

4.2.2 RAWJASCANJOB

This table contains records pertaining to submitted scans, such as account, destination, duration, resolution, 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**.**			
TIME_UTC	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.
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.
DST_OFFSET_IN_SECONDS	NUMBER(5)	MVP 7.1	Offset from Standard Time of the current time zone, in seconds.
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.

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.
DATA_SOURCE	VARCHAR2(32)	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.
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
DESTINATION_TYPE	VARCHAR2(32)	MVP 7.1	Possible Values: Email 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.
IS_COLOR	VARCHAR2(1)	MVP 7.1	Possible values = "Y" for 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_UTC	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.
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	VARCHAR2(32)	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.
JOB_DURATION_IN_SECONDS	NUMBER(10)	MVP 7.1	The duration of the job.
PORT_NAME	VARCHAR2(32)	MVP 7.1	Possible Values: Fax[n] 4 >= n >= 1, IR[n] 4 >= n >= 1, Internal[n] 3 >= n >= 1, LocalTalk[n] 4 >= n >= 1, Network[n] 6 >= n >= 1, Parallel[n] 4 >= n >= 1, Serial[n] 4 >= n >= 1, USB[n] 4 >= n >= 1, NetworkStd
JOB_SIZE_IN_BYTES	NUMBER(10)	MVP 7.1	The size of the job.
INTERPRETER_NAME	VARCHAR2(32)	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
TONER_TALLY_VERSION	NUMBER(3)	MVP 7.1	The toner tally version.
OUTPUT_OVERFLOW_BIN_NUMBER	NUMBER(3)	MVP 7.1	The output overflow bin number.
OUTPUT_BIN_OVERFLOW	NUMBER(3)	MVP 7.1	Bit encoded: 0, overflow occurred in job; 1, overflowing at end of job; 2-7, reserved.
OUTPUT_BINS_USED	NUMBER(5)	MVP 7.1	Bit encoded: 0, standard bin; 1, bin 1; 8, bin 8.

N_UPNESS	NUMBER(5)	MVP 7.1	0 = 1-up, 2-255 = 2-up through 255-up, 256 = user defined.
STAPLE_FAILURES	NUMBER(5)	MVP 7.1	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 jam;8,other
PQS_HELD_JOB	NUMBER(10)	MVP 7.1	The PQS held job. Possible values = "1" for true, "0" for false.
LIFETIME_PAGE_COUNT	NUMBER(10)	MVP 7.1	Lifetime page count of this device at the 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.
HOST_NAME	VARCHAR2(55)	MVP 7.1	The name of the host machine.
USER_NAME	VARCHAR2(55)	MVP 7.1	Name of user submitting this job.
QUEUE_NAME	VARCHAR2(55)	MVP 7.1	The print queue name.
SOURCE_PROTOCOL	VARCHAR2(25)	MVP 7.1	The job source protocol.
ACCOUNT_NUMBER	VARCHAR2(55)	MVP 7.1	Number of account that submitted this job.
OTHER_USER_DEFINED_DATA	VARCHAR2(55)	MVP 7.1	Other job data.
DATA_READY	VARCHAR2(1)	MVP 7.1	Have all of this table's children also been populated? Possible values = "Y" for true, "N" for false.
JOB_STATUS	VARCHAR2(15)	MVP 10.0	Status of the Job; Possible values: "OK", "DELETED", "CANCELLED", "ERROR
TONER_DARKNESS_VALUE	NUMBER(10)	MVP 10.0	Toner Darkness 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	VARCHAR2(10)	MVP 10.0	Toner Saver Value Possible values “Off”, “On”
STAPLE_STATUS	VARCHAR2(50)	MVP 10.0	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", "Other Failure"
PUNCHED	VARCHAR2(1)	MVP 10.0	Indicates punching status “Y” or “N”. Field may not exist if punching not 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.
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.

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_UTC	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.
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.
NAME	VARCHAR2(64)	MVP 7.1	Possible Values: Envelope Feeder, Feeder 2, Manual Envelope Feeder, Manual Paper Feeder, Multipurpose Feeder, Tray [n] where 5 >= n >= 1
SHEET_COUNT	NUMBER (10)	MVP 7.1	Number of physical sheets ejected from device.
IMPRESSION_COUNT	NUMBER (10)	MVP 7.1	Number of impressions made on each sheet.
COLOR_SHEET_COUNT	NUMBER (10)	MVP 7.1	Number of physical color sheets ejected from device.
COLOR_IMPRESSION_COUNT	NUMBER(10)	MVP 7.1	Number of color impressions made on 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	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_UTC	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.

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.
NAME	VARCHAR2(64)	MVP 7.1	Name of the supply e.g. Black Image Drum, Black Ink - Photo Cartridge, Black Ink, Black Toner, etc.
TONER_COUNT	NUMBER(10)	MVP 7.1	The toner count. Indicates how much toner was used per job. Higher numbers indicate more toner was used.
NUMBER_OF_LEVELS	NUMBER(10)	MVP 7.1	The number of levels. Used by MarkVision Professional to calculate the percentage full.
MAX_CAPACITY	NUMBER(10)	MVP 7.1	The maximum capacity of the supply.
CURRENT_LEVEL	NUMBER(10)	MVP 7.1	The current level. Used by MarkVision Professional to calculate the percentage full.
CURRENT_PRINT_LEVEL	NUMBER(10)	MVP 7.1	The current print level. Less accurate method of calculating supply percentage. Possible values are 0-7 (0 meaning empty; 7 meaning full).

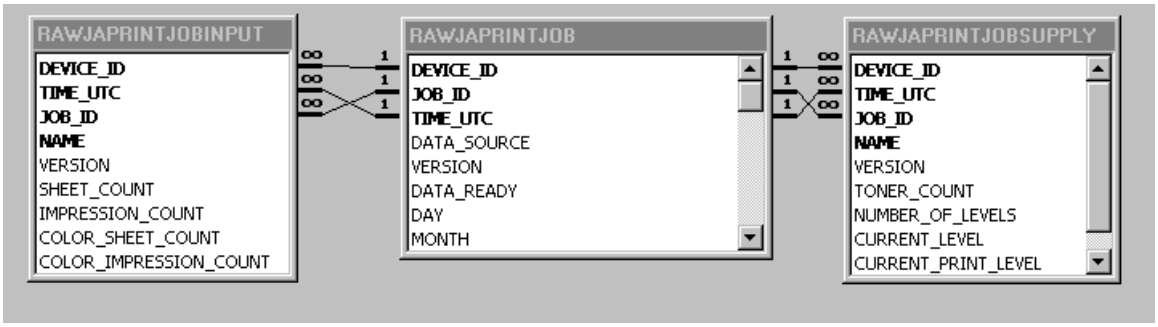
4.2.6 RAWJAPRINTJOBPAPER

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 some fields. For more specific information, please contact Lexmark Customer Support at http://support.lexmark.com**.**			
TIME_UTC	NUMBER(10)	MVP 10.0	Time at which this job was detected by MarkVision, in seconds elapsed since 0:00:00, 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.
PAPER_TYPE	VARCHAR2(64)	MVP 10.0	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 4", "Custom Type 5", "Custom Type 6"
SHEET_COUNT	NUMBER (10)	MVP 10.0	Number of physical sheets ejected from device.
IMPRESSION_COUNT	NUMBER (10)	MVP 10.0	Number of impressions made on each sheet.
COLOR_IMPRESSION_COUNT	NUMBER(10)	MVP 10.0	Number of color impressions made on each sheet.

4.3 Field Relationships



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 Configuring Database Driver 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 Job Statistics (Trend Analysis) 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 Data Type Conversion 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 RAWDSDEVICESTATUS table for a complete description of all status conditions.

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_UTC	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.
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.
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	VARCHAR2(32)	MVP 7.1	Where did this record come from? Possible Values: 'Granite V.x.x, 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.
LOCATION_ID	VARCHAR2(255)	MVP 7.1	The location of the device status alert.
SEVERITY	VARCHAR2(32)	MVP 7.1	The severity of the alert.

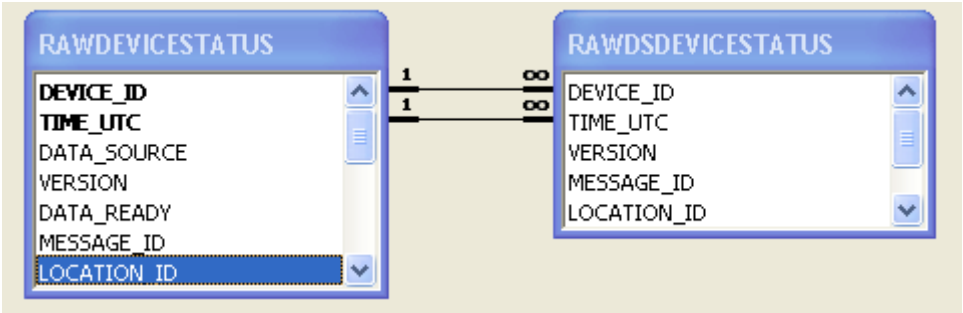
5.2.2 RAWDSDEVICESTATUS

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 some fields. For more specific information, please contact Lexmark Customer Support at http://support.lexmark.com**.**			
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.
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.

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)