



# Using VirtualCenter Database Views

This document describes how to add the provided database views to your VMware VirtualCenter database. Included are samples of the Microsoft Access, Microsoft SQL, and Oracle database views. This document does not describe how to create and use database views.

This technical note contains the following sections:

- [Adding the VirtualCenter Database Views](#)
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**Note:** The procedures are intended for database administrators. Do not attempt to perform the tasks outlined in this document if you do not have database administrator experience.

## Adding the VirtualCenter Database Views

The database views are used to view VMware VirtualCenter data stored in the VirtualCenter database. The following views are supported by VMware VirtualCenter:

- vpxv\_FarmGroups
- vpxv\_Farms
- vpxv\_VMGroups
- vpxv\_Hosts
- vpxv\_VMs
- vpxv\_Templates
- vpxv\_Tasks
- vpxv\_Alarms
- vpxv\_Licenses
- vpxv\_Fields
- vpxv\_Host\_Fields
- vpxv\_VM\_Fields
- vpxv\_Perf\_Intervals
- vpxv\_Perf\_Host\_Counters
- vpxv\_Perf\_Host\_Data



- vpxv\_Perf\_VM\_Counters
- vpxv\_Perf\_VM\_Data

## Adding Microsoft Access Views to the VirtualCenter Database

Refer to the Microsoft Access help for additional information.

1. Launch Microsoft Access.  
Default installation places a shortcut in your Documents and Settings.
2. Open the VirtualCenter Microsoft Access database file.  
Select **File > Open** and browse to the VirtualCenter database.
3. Open the ODBC Data Source Administrator.  
Select **Start > Settings > Control Panel > Administrative Tools > Data Sources**.
4. Locate the VirtualCenter database.
  - a. Select the System DSN tab.
  - b. Select the VMware VirtualCenter DSN.
  - c. Click **Configure**.
5. Select the VirtualCenter database.
  - a. Click the Select button in the ODBC Microsoft Access Setup screen.  
The screen displays the location of the VirtualCenter database disk file.
  - b. Select the VirtualCenter database from the list. Click **OK**.
6. Open a query.
  - a. Select **Insert > Query**.
  - b. Click **Close** if the Show Table dialog appears.
  - c. Select **View > SQL View**.
7. Clear the Query field.  
Delete everything in the window **Query n : Select Query**.  
Where *n* is a numeric sequence number.
8. Enter the VirtualCenter database query for the desired object.
  - a. Open the file `VirtualCenter-Database-View-MSAccess.txt`.
  - b. Locate the VirtualCenter object you wish to make the query apply to.  
Where *virtualcenter\_object* is the name of the view. For example, **VIEW: vpxv\_FarmGroups**.
  - c. Copy the query portion corresponding to the desired object from the `VirtualCenter-Database-View-MSAccess.txt` file.  
For example, from the database view, `vpxv_FarmGroups` section, copy the text listed under the **CREATE VIEW** line:
 

```
SELECT VPX_GROUP.GROUP_ID AS FarmGroupID,
       VPX_GROUP.Name AS Name,
       VPX_GROUP.Parent AS ParentID
FROM VPX_GROUP
```
  - d. Enter this text into the SQL View Query field.



9. Select menu **File > Save**.
10. Save the view.  
Select **Save As**, enter view name, and click **OK**.  
For example, `vpxv_FarmGroups`.
11. Repeat until all views are created.

### Adding Microsoft SQL Views to the VirtualCenter Database

Refer to the Microsoft SQL Query Analyzer help for additional information.

1. Launch the Microsoft SQL Query Analyzer.
2. Connect to the VirtualCenter database using your VirtualCenter database username and password.
3. Select the database used by VirtualCenter.
4. Copy the appropriate view creation query from the file `VirtualCenter-Database-View-MSSQL.txt` into the query window.

For example, from the database view, `vpxv_FarmGroups`, copy:

```
CREATE VIEW vpxv_FarmGroups AS
SELECT VPX_GROUP.GROUP_ID AS FarmGroupID,
       VPX_GROUP.Name AS Name,
       VPX_GROUP.Parent AS ParentID
FROM VPX_GROUP
```

5. Select menu **Query > Execute**.
6. Repeat until all views are created.

### Adding Oracle Views to the VirtualCenter Database

Refer to your Oracle documentation for additional information.

1. Launch Oracle SQL\*Plus.
2. Connect using your VirtualCenter database user name, password and server name.
3. Copy the appropriate view creation query from the file `VirtualCenter-Database-View-Oracle.txt` into the window.

For example, from the database view, `vpxv_FarmGroups`, copy:

```
CREATE VIEW vpxv_FarmGroups AS
SELECT VPX_GROUP.GROUP_ID AS FarmGroupID,
       VPX_GROUP.Name AS Name,
       VPX_GROUP.Parent AS ParentID
FROM VPX_GROUP
```

4. Press **Enter** to finish the SQL query input.
5. Select menu **File > Run**.
6. Repeat until all views are created.



## View Relationships

The following provides a brief description of the database elements and their relationship in VMware VirtualCenter.

| Database View   | View Description  | Object       | Object Description  |
|-----------------|---|--------------|---|
| vpxv_FarmGroups | This view describes the Farm Groups in VirtualCenter.<br>One and only one Farm Group is the root Farm Group.<br>The root Farm Group does not have a parent. | FarmGroupID  | The ID of the FarmGroup.  |
|                 |   | Name         | The name of the FarmGroup.  |
|                 |   | ParentID     | The parent FarmGroup ID.<br>It is the foreign key of vpxv_FarmGroups.FarmGroupID.   |
| vpxv_Farms      | This view describes the Farms in VirtualCenter.   | FarmID       | The ID of the Farm.   |
|                 |   | Name         | The name of the Farm.   |
|                 |   | FarmGroupID  | The ID of the Farm Group.<br>It is the foreign key of vpxv_FarmGroups.FarmGroupID.  |
|                 |   | VMGroupID    | The ID of the VMGroup.<br>It is the foreign key of vpxv_VMGroups.VMGroupID.   |
|                 |   | CloneCount   | The number of succeeded virtual machine cloning.  |
|                 |   | DeployCount  | The number of succeeded template deployment.  |
|                 |   | MigrateCount | The number of succeeded virtual machine migration.  |
| vpxv_VMGroups   | This view describes the Virtual Machine Groups in VirtualCenter.  | VMGroupID    | The ID of the VMGroup.  |
|                 |   | Name         | The name of the VMGroup.  |
|                 |   | ParentID     | The parent VMGroup ID.<br>It is the foreign key of vpxv_VMGroups.VMGroupID.<br>It is null when current VMGroup is the root. |
| vpxv_Hosts      | This view describes the Hosts in VirtualCenter.   | HostID       | The ID of the host.   |
|                 |   | Name         | The name of the host.   |
|                 |   | FarmID       | The ID of the Farm.<br>It is the foreign key of vpxv_Farms.FarmID.  |
|                 |   | Port         | The port number to connect to the host.   |
|                 |   | UserName     | The user name to connect to the host.   |
|                 |   | Password     | The password to connect to the host   |
|                 |   | Enabled      | If connecting to host when VirtualCenter starts up.   |



| Database View           | View Description  | Object         | Object Description  |
|-------------------------|---|----------------|---|
| <b>vpxv_VMs</b>         | This view describes the virtual machines in VirtualCenter.                                  | VMID           | The ID of the virtual machine.  |
|                         |   | Name           | The name of the virtual machine.  |
|                         |   | VMGroupID      | The ID of the Virtual Machine Group.<br>It is the foreign key of vpxv_VMGroups.VMGroupID. |
|                         |   | HostID         | The ID of the Host.<br>It is the foreign key of vpxv_Hosts.HostID.                        |
|                         |   | ConfigFileName | The path of the virtual machine configuration file.                                       |
|                         |   | VMUniqueID     | The UUID of the virtual machine.  |
| <b>vpxv_Templates</b>   | This view describes the Templates in VirtualCenter.   | TemplateID     | The ID of the template.   |
|                         |   | Name           | The name of the template.   |
|                         |   | Description    | The description of the template.  |
| <b>vpxv_Tasks</b>       | This view describes the Tasks in VirtualCenter.   | TaskID         | The ID of the task.   |
|                         |   | Name           | The name of the task.   |
|                         |   | Enabled        | If the task needs to be run.  |
|                         |   | Frequency      | How often a task needs to be run.   |
|                         |   | Status         | The result status of the task.  |
|                         |   | SendTo         | The email address to send notification when the task is done.                             |
| <b>vpxv_Alarms</b>      | This view describes the Alarms in VirtualCenter.  | AlarmID        | The ID of the alarm.  |
|                         |   | Name           | The name of the alarm.  |
|                         |   | Enabled        | If the alarm needs to be run.   |
| <b>vpxv_Licenses</b>    | This view describes the Licenses in VirtualCenter.  | Type           | The type of the license.  |
|                         |   | SerialNo       | Serial number of the license.   |
| <b>vpxv_Fields</b>      | This view describes the user defined fields for hosts or virtual machines in VirtualCenter. | FieldID        | The ID of the user defined field.   |
|                         |   | FieldName      | The name of the field.  |
| <b>vpxv_Host_Fields</b> | This view describes the value for Host fields.  | FieldID        | The ID of the Field.<br>It is the foreign key of vpxv_Fields.FieldID.                     |
|                         |   | HostID         | The ID of the Host.<br>It is the foreign key of vpxv_Hosts.HostID.                        |
|                         |   | FieldValue     | The value of the field.   |



| Database View                  | View Description  | Object      | Object Description   |
|--------------------------------|---|-------------|--|
| <b>vpxv_VM_Fields</b>          | This view describes the value for virtual machine fields. | FieldID     | The ID for the Field.<br>It is the foreign key of vpxv_Fields.FieldID.   |
|                                |   | VMID        | The ID of the virtual machine.<br>It is the foreign key of vpxv_VMs.VMID.  |
|                                |   | FieldValue  | The value of the field.  |
| <b>vpxv_Perf_Intervals</b>     | This view describes the intervals for performance data.   | IntervalID  | The ID of the interval.  |
|                                |   | Name        | The name of the interval.  |
|                                |   | MaxSamples  | The maximum number of samples of the interval.   |
|                                |   | Interval    | The period of the interval in seconds.   |
| <b>vpxv_Perf_Host_Counters</b> | This view describes the devices on Hosts.                 | HostID      | Which host the counter is defined.<br>It's the foreign key of vpxv_Hosts.HostID.   |
|                                |   | CounterID   | The ID of the counter.   |
|                                |   | Name        | The name of the device on Host.  |
|                                |   | Instance    | The sequence number of the device.   |
|                                |   | Description | The description of the device.   |
| <b>vpxv_Perf_Host_Data</b>     | This view describes the host performance data.            | HostID      | The ID of the Host.<br>It is the foreign key of vpxv_Hosts.HostID.   |
|                                |   | CounterID   | The ID of the Counter.<br>Adding the HostID, they are the foreign key of vpxv_Perf_Host_Counters.HostID  |
|                                |   | IntervalID  | The ID of the interval.<br>It's the foreign key of vpxv_Perf_Intervals.IntervalID.   |
|                                |   | SampleDepth | The sample depth. From 0 to -interval.MaxSamples+1.<br>0 is the most recent (latest) sample.<br>-interval.MaxSamples+1 is the previous sample. |
|                                |   | SampleTime  | When the sample is taken in UTC time.  |
|                                |   | SampleValue | The value of the sample.   |



| Database View                | View Description  | Object      | Object Description   |
|------------------------------|---|-------------|--|
| <b>vpxv_Perf_VM_Counters</b> | This view describes the devices on virtual machines.      | VMID        | The ID of the virtual machine.<br>It's the foreign key of vpxv_VMs.VMID.   |
|                              |   | CounterID   | The ID of the counter.   |
|                              |   | Name        | The name of the device on virtual machine.   |
|                              |   | Instance    | The sequence number of the device.   |
|                              |   | Description | The description of the device.   |
| <b>vpxv_Perf_VM_Data</b>     | This view describes the virtual machine performance data. | VMID        | The ID of the virtual machine.<br>It is the foreign key of vpxv_Perf_VM_Data.  |
|                              |   | CounterID   | The ID of the counter.<br>Adding the VMID, they are foreign key of vpxv_Perf_VM_Counters.VMID/CounterID                                |
|                              |   | IntervalID  | The ID of the interval.<br>It is the foreign key of vpxv_Perf_Intervals.IntervalID.  |
|                              |   | SampleDepth | The sample depth. From 0 to -interval.MaxSamples+1.<br>0 is the most recent (latest) sample. -interval.MaxSamples+1 is the old sample. |
|                              |   | SampleTime  | When the sample is taken in UTC time.  |
|                              |   | SampleValue | The value of the sample.   |

## View for Microsoft Access Databases

The following provides a description of the query text needed when you add views of our Microsoft Access database to the VirtualCenter database.

### vpxv\_FarmGroups View

The view vpxv\_FarmGroups defines the Farm Groups,

| Title       | Type          | Description          | Create View vpxv_FarmGroups As   |
|-------------|---------------|----------------------|--|
| FarmGroupID | INT           | Farm Group ID        | <pre>SELECT VPX_GROUP.GROUP_ID AS FarmGroupID,       VPX_GROUP.Name AS Name,       VPX_GROUP.Parent AS ParentID FROM VPX_GROUP</pre> |
| Name        | VARCHAR (255) | Farm Group Name      |  |
| ParentID    | INT           | Parent Farm Group ID |  |



### vpvx\_Farms View

The vpxv\_Farms view defines the Farms.

| Title        | Type          | Description                    | Create View vpxv_Farms As  |
|--------------|---------------|--------------------------------|--|
| FarmID       | INT           | Farm ID                        | SELECT VPX_DOMAIN.DOMAIN_ID AS FarmID,<br>VPX_DOMAIN.NAME AS Name,<br>VPX_DOMAIN.PARENT AS FarmGroupID,<br>VPX_DOMAIN.VMGROUP AS VMGroupID,<br>VPX_DOMAIN.CNT_CLONE AS CloneCount,<br>VPX_DOMAIN.CNT_DEPLOY AS DeployCount,<br>VPX_DOMAIN.CNT_MIGRATE AS MigrateCount<br>FROM VPX_DOMAIN |
| Name         | VARCHAR (255) | Farm Name                      |  |
| FarmGroupID  | INT           | Farm Group ID                  |  |
| VMGroupID    | INT           | Virtual Machine Group ID       |  |
| CloneCount   | INT           | Number of Succeeded Cloning    |  |
| DeployCount  | INT           | Number of Succeeded Deployment |  |
| MigrateCount | INT           | Number of Succeeded Migration  |  |

### vpvx\_VMGroups View

The vpxv\_VMGroups View defines the Virtual Machine Groups.

| Title     | Type          | Description                     | Create View vpxv_VMGroups As   |
|-----------|---------------|---------------------------------|--|
| VMGroupID | INT           | Virtual Machine Group ID        | SELECT VPX_VMGROUP.VMGROUP_ID AS VMGroupID,<br>VPX_VMGROUP.Name AS Name,<br>VPX_VMGROUP.PARENT AS ParentID<br>FROM VPX_VMGROUP |
| Name      | VARCHAR (255) | Virtual Machine Group Name      |  |
| ParentID  | INT           | Parent Virtual Machine Group ID |  |

### vpvx\_Hosts View

The vpxv\_Hosts view defines the ESX hosts.

| Title    | Type          | Description   | Create View vpxv_Hosts As   |
|----------|---------------|---|---|
| HostID   | INT           | Host ID   | SELECT VPX_HOST.HOST_ID AS HostID,<br>VPX_HOST.HOSTNAME AS Name,<br>VPX_HOST.PARENT AS FarmID,<br>VPX_HOST.Port AS Port,<br>VPX_HOST.USER_NAME AS UserName,<br>VPX_HOST.ENABLED AS Enabled<br>FROM VPX_HOST |
| Name     | VARCHAR 255)  | Host Name   |   |
| FarmID   | INT           | Farm ID   |   |
| Port     | INT           | Host Port   |   |
| UserName | VARCHAR (255) | Host Login User Name                                |   |
| Enabled  | INT           | If connecting to host when VirtualCenter starts up. |   |





### vpvx\_VMs View

The vpxv\_VMs view defines the Virtual Machines.

| Title          | Type             | Description                  | Create View vpxv_VMs As  |
|----------------|------------------|------------------------------|--|
| VMID           | INT              | Virtual Machine ID           | <pre>SELECT VPX_VM.VM_ID AS VMID,        VPX_VM.NAME AS Name,        VPX_VM.PARENT AS VMGroupID,        VPX_VM.HOST AS HostID,        VPX_VM.FILE_NAME AS        ConfigFileName,        VPX_VM.UUID_BIOS AS VMUniqueID FROM VPX_VM</pre> |
| Name           | VARCHAR<br>(255) | Virtual Machine Name         |  |
| VMGroupID      | INT              | Virtual Machine Group ID     |  |
| HostID         | INT              | Host ID                      |  |
| ConfigFileName | VARCHAR<br>(255) | Configuration File Name      |  |
| VMUniqueID     | VARCHAR<br>(255) | UUID for The Virtual Machine |  |

### vpvx\_Templates View

The vpxv\_Templates view defines the Templates.

| Title       | Type             | Description          | Create View vpxv_Templates As  |
|-------------|------------------|----------------------|--|
| TemplateID  | INT              | Template ID          | <pre>SELECT VPX_TEMPLATE.TEMPLATE_ID AS TemplateID,        VPX_TEMPLATE.NAME AS Name,        VPX_TEMPLATE.Description AS Description FROM VPX_TEMPLATE</pre> |
| Name        | VARCHAR<br>(255) | Template Name        |  |
| Description | VARCHAR<br>(255) | Template Description |  |

### vpvx\_Tasks View

The vpxv\_Tasks view defines the Tasks.

| Title     | Type             | Description                | Create View vpxv_Tasks As   |
|-----------|------------------|----------------------------|---|
| TaskID    | INT              | Task ID                    | <pre>SELECT VPX_SCHEDULE.SCHEDULE_ID AS TaskID,        VPX_SCHEDULE.CONF_NAME AS Name,        VPX_SCHEDULE.CONF_ENABLED AS Enabled,        VPX_SCHEDULE.WHEN_FREQ AS Frequency,        VPX_SCHEDULE.STATUS AS Status,        VPX_SCHEDULE.NOTIFICATION_SENDTO AS SendTo FROM VPX_SCHEDULE</pre> |
| Name      | VARCHAR<br>(255) | Task Name                  |   |
| Enabled   | INT              | If The Task Works          |   |
| Frequency | VARCHAR<br>(255) | Task Frequency             |   |
| Status    | VARCHAR<br>(255) | Current Result Status      |   |
| SendTo    | VARCHAR<br>(255) | Email Notification Address |   |



### vpvx\_Alarms View

The vpxv\_Alarms view defines the Alarms.

| Title   | Type             | Description        | Create View vpxv_Alarms As   |
|---------|------------------|--------------------|--|
| AlarmID | INT              | Alarm ID           | SELECT VPX_TRIGGER.TRIGGER_ID AS AlarmID,<br>VPX_TRIGGER.CONF_NAME AS Name,<br>VPX_TRIGGER.CONF_ENABLED AS Enabled<br>FROM VPX_TRIGGER |
| Name    | VARCHAR<br>(255) | Alarm Name         |  |
| Enabled | INT              | If the Alarm Works |  |

### vpvx\_Licenses View

The vpxv\_Licenses view defines the licenses.

| Title    | Type             | Description      | Create View vpxv_Licenses As   |
|----------|------------------|------------------|--|
| Type     | VARCHAR<br>(13)  | License Type     | SELECT 'VirtualCenter' AS Type,<br>Serial AS SerialNo FROM VPX_LICENSE_VPXD<br>UNION (SELECT 'host' AS Type,<br>Serial AS SerialNo FROM VPX_LICENSE_HOSTS)<br>UNION (SELECT 'VMotion' AS Type,<br>Serial AS SerialNo FROM VPX_LICENSE_MIGRATION) |
| SerialNo | VARCHAR<br>(255) | Serial<br>Number |  |
|          |                  |                  |  |

### vpvx\_Fields View

The vpxv\_Fields view defines the host and virtual machine fields.

| Title     | Type             | Description | Create View vpxv_Fields As   |
|-----------|------------------|-------------|--|
| FieldID   | INT              | Field ID    | SELECT VPX_FIELDDEF.FIELD_ID AS FieldID,<br>VPX_FIELDDEF.NAME AS Name<br>FROM VPX_FIELDDEF |
| FieldName | VARCHAR<br>(255) | Field Name  |  |

### vpvx\_Host\_Fields View

The vpxv\_Host\_Fields view defines field values for hosts.

| Title      | Type             | Description | Create View vpxv_Host_Fields As  |
|------------|------------------|-------------|--|
| FieldID    | INT              | Field ID    | SELECT VPX_HOST_FIELDS.FIELD_ID AS FieldID,<br>VPX_HOST_FIELDS.HOST_ID AS HostID,<br>VPX_HOST_FIELDS.FIELD_VALUE AS FieldValue<br>FROM VPX_HOST_FIELDS |
| HostID     | INT              | Host ID     |  |
| FieldValue | VARCHAR<br>(255) | Field Value |  |

### vpvx\_VM\_Fields View

The vpxv\_VM\_Fields view defines field values for virtual machines.

| Title      | Type             | Description        | Create View vpxv_VM_Fields As  |
|------------|------------------|--------------------|--|
| FieldID    | INT              | Field ID           | SELECT VPX_VM_FIELDS.FIELD_ID AS FieldID,<br>VPX_VM_FIELDS.VM_ID AS VMID,<br>VPX_VM_FIELDS.FIELD_VALUE AS FieldValue<br>FROM VPX_VM_FIELDS |
| VMID       | INT              | Virtual Machine ID |  |
| FieldValue | VARCHAR<br>(255) | Field Value        |  |



### vpxv\_Perf\_Intervals View

The vpxv\_Perf\_Intervals view defines the intervals for host and virtual machine performance data.

| Title      | Type             | Description                   | Create View vpxv_Perf_Intervals As   |
|------------|------------------|-------------------------------|--|
| IntervalID | INT              | Interval ID                   | <pre>SELECT STATS_CONFIG.HIST_ID AS IntervalID,   STATS_CONFIG.NAME AS NAME,   STATS_CONFIG.NUM_SAMPLES AS MaxSamples,   STATS_CONFIG.INTERVAL AS Interval FROM STATS_CONFIG</pre> |
| Name       | VARCHAR<br>(255) | Interval Name                 |  |
| MaxSamples | INT              | Maximum<br>Samples            |  |
| Interval   | INT              | Interval period<br>in seconds |  |

### vpxv\_Perf\_Host\_Counters View

The vpxv\_Perf\_Host\_Counters view defines the devices for host.

| Title       | Type             | Description       | Create View vpxv_Perf_Host_Counters As   |
|-------------|------------------|-------------------|--|
| HostID      | INT              | Host ID           | <pre>SELECT STATS_HOST_ROWS.HOST_ID AS HostID,   STATS_HOST_ROWS.ROW_ID AS CounterID,   STATS_HOST_ROWS.DEVICE AS Name,   STATS_HOST_ROWS.INSTANCE AS Instance,   STATS_HOST_ROWS.STAT AS Description FROM STATS_HOST_ROWS</pre> |
| CounterID   | INT              | Device Counter ID |  |
| Name        | VARCHAR<br>(255) | Name              |  |
| Instance    | VARCHAR<br>(255) | Instances         |  |
| Description | VARCHAR<br>(255) | Description       |  |



### vpxv\_Perf\_Host\_Data View

The vpxv\_Perf\_Host\_Data view defines the statistics history for hosts.

| Title        | Type      | Description           | Create View vpxv_Perf_Host_Data As   |
|--------------|-----------|-----------------------|--|
| HostID       | INT       | Host ID               | <pre> SELECT STATS_HOST_DATA.HOST_ID AS HostID,       STATS_HOST_DATA.ROW_ID AS CounterID,       STATS_HOST_DATA.HIST_ID AS IntervalID,       IIF(STATS_HOST_DATA.COL_ID &lt; CURRENT_COLUMNN,           -(CURRENT_COLUMNN - STATS_HOST_DATA.COL_ID - 1),           -(STATS_CONFIG.NUM_SAMPLES + CURRENT_COLUMNN -             STATS_HOST_DATA.COL_ID))       AS SampleDepth,       DATEVALUE('1970-1-1') +       IIF(STATS_HOST_DATA.COL_ID &lt; CURRENT_COLUMNN,           LAST_TIMESTAMP - (CURRENT_COLUMNN -             STATS_HOST_DATA.COL_ID - 1) * INTERVAL,           LAST_TIMESTAMP - (STATS_CONFIG.NUM_SAMPLES +             CURRENT_COLUMNN - STATS_HOST_DA           /3600.0/24 AS SampleTime,       STATS_HOST_DATA.VAL AS SampleValue FROM STATS_HOST_DATA, STATS_HOST_TABLES,       STATS_CONFIG WHERE       STATS_HOST_DATA.HOST_ID =         STATS_HOST_TABLES.HOST_ID       AND STATS_HOST_DATA.HIST_ID =         STATS_HOST_TABLES.HIST_ID       AND STATS_HOST_DATA.HIST_ID =         STATS_CONFIG.HIST_ID </pre> |
| CounterID    | INT       | Device Counter ID     |  |
| IntervalID   | INT       | Interval ID           |  |
| Sample Depth | INT       | Sampling index/ depth |  |
| Sample Time  | DATE TIME | Sampling time in UTC  |  |
| Sample Value | INT       | Sampling value        |  |

### vpxv\_Perf\_VM\_Counters View

The vpxv\_Perf\_VM\_Counters view defines the devices for virtual machine.

| Title       | Type          | Description        | Create View vpxv_Perf_VM_Counters As   |
|-------------|---------------|--------------------|--|
| VMID        | INT           | Virtual Machine ID | <pre> SELECT STATS_VM_ROWS.VM_ID AS VMID,       STATS_VM_ROWS.ROW_ID AS CounterID,       STATS_VM_ROWS.DEVICE AS Name,       STATS_VM_ROWS.INSTANCE AS Instance,       STATS_VM_ROWS.STAT AS Description FROM STATS_VM_ROWS </pre> |
| CounterID   | INT           | Device Counter ID  |  |
| Name        | VARCHAR (255) | Name               |  |
| Instance    | VARCHAR (255) | Instances          |  |
| Description | VARCHAR (255) | Description        |  |



## vpxv\_Perf\_VM\_Data View

The vpxv\_Perf\_VM\_Data view defines the statistics history for virtual machines.

| Title        | Type      | Description          | Create View vpxv_Perf_VM_Data As   |
|--------------|-----------|----------------------|--|
| VMID         | INT       | Virtual Machine ID   | <pre> SELECT STATS_VM_DATA.VM_ID AS VMID,       STATS_VM_DATA.ROW_ID AS CounterID,       STATS_VM_DATA.HIST_ID AS IntervalID,       IIF(STATS_VM_DATA.COL_ID &lt; CURRENT_COLUMN,         -(CURRENT_COLUMN - STATS_VM_DATA.COL_ID - 1),         -(STATS_CONFIG.NUM_SAMPLES + CURRENT_COLUMN -           STATS_VM_DATA.COL_ID))       AS SampleDepth,       DATEVALUE('1970-1-1') +       IIF(STATS_VM_DATA.COL_ID &lt; CURRENT_COLUMN,         LAST_TIMESTAMP - (CURRENT_COLUMN -           STATS_VM_DATA.COL_ID - 1) * INTERVAL,         LAST_TIMESTAMP - (STATS_CONFIG.NUM_SAMPLES +           CURRENT_COLUMN - STATS_VM_DATA             /3600.0/24 AS SampleTime,         STATS_VM_DATA.VAL AS SampleValue FROM STATS_VM_DATA, STATS_VM_TABLES, STATS_CONFIG WHERE       STATS_VM_DATA.VM_ID = STATS_VM_TABLES.VM_ID AND STATS_VM_DATA.HIST_ID = STATS_VM_TABLES.HIST_ID AND STATS_VM_DATA.HIST_ID = STATS_CONFIG.HIST_ID </pre> |
| Counter ID   | INT       | Device ID            |  |
| Interval ID  | INT       | Interval ID          |  |
| Sample Depth | INT       | Sampling index/depth |  |
| Sample Time  | DATE TIME | Sampling time in UTC |  |
| Sample Value | INT       | Sampling value       |  |

## View for Microsoft SQL Databases

The following provides a description of the query text needed when you add views of our Microsoft SQL database to the VirtualCenter database.

### vpxv\_FarmGroups View

The vpxv\_FarmGroups view defines the Farm Groups.

| Title       | Type          | Description          | Create View vpxv_FarmGroups As   |
|-------------|---------------|----------------------|--|
| FarmGroupID | INT           | Farm Group ID        | <pre> SELECT VPX_GROUP.GROUP_ID AS FarmGroupID,       VPX_GROUP.Name AS Name,       VPX_GROUP.Parent AS ParentID FROM VPX_GROUP </pre> |
| Name        | VARCHAR (255) | Farm Group Name      |  |
| ParentID    | INT           | Parent Farm Group ID |  |



### vpXv\_Farms View

The vpXv\_Farms view defines the Farms.

| Title        | Type          | Description                    | Create View vpXv_Farms As  |
|--------------|---------------|--------------------------------|--|
| FarmID       | INT           | Farm ID                        | <pre>SELECT VPX_DOMAIN.DOMAIN_ID AS FarmID, VPX_DOMAIN.NAME AS Name, VPX_DOMAIN.PARENT AS FarmGroupID, VPX_DOMAIN.VMGROUP AS VMGroupID, VPX_DOMAIN.CNT_CLONE AS CloneCount, VPX_DOMAIN.CNT_DEPLOY AS DeployCount, VPX_DOMAIN.CNT_MIGRATE AS MigrateCount FROM VPX_DOMAIN</pre> |
| Name         | VARCHAR (255) | Farm Name                      |  |
| FarmGroupID  | INT           | Farm Group ID                  |  |
| VMGroupID    | INT           | Virtual Machine Group ID       |  |
| CloneCount   | INT           | Number of Succeeded Cloning    |  |
| DeployCount  | INT           | Number of Succeeded Deployment |  |
| MigrateCount | INT           | Number of Succeeded Migration  |  |

### vpXv\_VMGroups View

The vpXv\_VMGroups view defines the Virtual Machine Groups.

| Title     | Type          | Description                     | Create View vpXv_VMGroups As   |
|-----------|---------------|---------------------------------|--|
| VMGroupID | INT           | Virtual Machine Group ID        | <pre>SELECT VPX_VMGROUP.VMGROUP_ID AS VMGroupID, VPX_VMGROUP.Name AS Name, VPX_VMGROUP.PARENT AS ParentID FROM VPX_VMGROUP</pre> |
| Name      | VARCHAR (255) | Virtual Machine Group Name      |  |
| ParentID  | INT           | Parent Virtual Machine Group ID |  |

### vpXv\_Hosts View

The vpXv\_Hosts view defines the ESX hosts.

| Title    | Type          | Description                      | Create View vpXv_Hosts As  |
|----------|---------------|----------------------------------|--|
| HostID   | INT           | Host ID                          | <pre>SELECT VPX_HOST.HOST_ID AS HostID, VPX_HOST.HOSTNAME AS Name, VPX_HOST.PARENT AS FarmID, VPX_HOST.Port AS Port, VPX_HOST.USER_NAME AS UserName, VPX_HOST.ENABLED AS Enabled FROM VPX_HOST</pre> |
| Name     | VARCHAR (255) | Host Name                        |  |
| FarmID   | INT           | Farm ID                          |  |
| Port     | INT           | Host Port                        |  |
| UserName | VARCHAR (255) | Host Login User Name             |  |
| Enabled  | INT           | If connecting to host on startup |  |



### vpvx\_VMs View

The vpxv\_VMs view defines the Virtual Machines.

| Title           | Type          | Description                  | Create View vpxv_VMs As  |
|-----------------|---------------|------------------------------|--|
| VMID            | INT           | Virtual Machine ID           | <pre>SELECT VPX_VM.VM_ID AS VMID, VPX_VM.NAME AS Name, VPX_VM.PARENT AS VMGroupID, VPX_VM.HOST AS HostID, VPX_VM.FILE_NAME AS ConfigFileName, VPX_VM.UUID_BIOS AS VMUniqueID FROM VPX_VM</pre> |
| Name            | VARCHAR (255) | Virtual Machine Name         |  |
| VMGroup ID      | INT           | Virtual Machine Group ID     |  |
| HostID          | INT           | Host ID                      |  |
| ConfigFile Name | VARCHAR (255) | Configuration File Name      |  |
| VMUnique ID     | VARCHAR (255) | UUID for The Virtual Machine |  |

### vpvx\_Templates View

The vpxv\_Templates view defines the Templates.

| Title       | Type          | Description          | Create View vpxv_Templates As  |
|-------------|---------------|----------------------|--|
| TemplatelD  | INT           | Template ID          | <pre>SELECT VPX_TEMPLATE.TEMPLATE_ID AS TemplateID, VPX_TEMPLATE.NAME AS Name, VPX_TEMPLATE.Description AS Description FROM VPX_TEMPLATE</pre> |
| Name        | VARCHAR (255) | Template Name        |  |
| Description | VARCHAR (255) | Template Description |  |

### vpvx\_Tasks View

The vpxv\_Tasks view defines the Tasks.

| Title     | Type          | Description                | Create View vpxv_Tasks As  |
|-----------|---------------|----------------------------|--|
| TaskID    | INT           | Task ID                    | <pre>SELECT VPX_SCHEDULE.SCHEDULE_ID AS TaskID, VPX_SCHEDULE.CONF_NAME AS Name, VPX_SCHEDULE.CONF_ENABLED AS Enabled, VPX_SCHEDULE.WHEN_FREQ AS Frequency, VPX_SCHEDULE.STATUS AS Status, VPX_SCHEDULE.NOTIFICATION_SENDTO AS SendTo FROM VPX_SCHEDULE</pre> |
| Name      | VARCHAR (255) | Task Name                  |  |
| Enabled   | INT           | If The Task Works          |  |
| Frequency | VARCHAR (255) | Task Frequency             |  |
| Status    | VARCHAR (255) | Current Result Status      |  |
| SendTo    | VARCHAR (255) | Email Notification Address |  |



### vpvx\_Alarms View

The vpxv\_Alarms view defines the Alarms.

| Title   | Type          | Description        | Create View vpxv_Alarms As   |
|---------|---------------|--------------------|--|
| AlarmID | INT           | Alarm ID           | SELECT VPX_TRIGGER.TRIGGER_ID AS AlarmID,<br>VPX_TRIGGER.CONF_NAME AS Name,<br>VPX_TRIGGER.CONF_ENABLED AS Enabled<br>FROM VPX_TRIGGER |
| Name    | VARCHAR (255) | Alarm Name         |  |
| Enabled | INT           | If the Alarm Works |  |

### vpvx\_Licenses View

The vpxv\_Licenses view defines the licenses.

| Title    | Type          | Description   | Create View vpxv_Licenses As   |
|----------|---------------|---------------|--|
| Type     | VARCHAR (13)  | License Type  | SELECT 'VirtualCenter' AS Type, Serial AS<br>SerialNo FROM VPX_LICENSE_VPXD<br><br>UNION (SELECT 'host' AS Type, Serial AS<br>SerialNo FROM VPX_LICENSE_HOSTS)<br><br>UNION (SELECT 'VMotion' AS Type, Serial AS<br>SerialNo FROM VPX_LICENSE_MIGRATION) |
| SerialNo | VARCHAR (255) | Serial Number |  |
|          |               |               |  |

### vpvx\_Fields View

The vpxv\_Fields view defines the host and virtual machine fields.

| Title     | Type          | Description | Create View vpxv_Fields As   |
|-----------|---------------|-------------|--|
| FieldID   | INT           | Field ID    | SELECT VPX_FIELDDEF.FIELD_ID AS FieldID,<br>VPX_FIELDDEF.NAME AS Name<br>FROM VPX_FIELDDEF |
| FieldName | VARCHAR (255) | Field Name  |  |

### vpvx\_Host\_Fields View

The vpxv\_Host\_Fields view defines field values for hosts.

| Title      | Type          | Description | Create View vpxv_Host_Fields As  |
|------------|---------------|-------------|--|
| FieldID    | INT           | Field ID    | SELECT VPX_HOST_FIELDS.FIELD_ID AS FieldID,<br>VPX_HOST_FIELDS.HOST_ID AS HostID,<br>VPX_HOST_FIELDS.FIELD_VALUE AS FieldValue<br>FROM VPX_HOST_FIELDS |
| HostID     | INT           | Host ID     |  |
| FieldValue | VARCHAR (255) | Field Value |  |

### vpvx\_VM\_Fields View

The vpxv\_VM\_Fields view defines field values for virtual machines.

| Title      | Type          | Description        | Create View vpxv_VM_Fields As  |
|------------|---------------|--------------------|--|
| FieldID    | INT           | Field ID           | SELECT VPX_VM_FIELDS.FIELD_ID AS FieldID,<br>VPX_VM_FIELDS.VM_ID AS VMID,<br>VPX_VM_FIELDS.FIELD_VALUE AS FieldValue<br>FROM VPX_VM_FIELDS |
| VMID       | INT           | Virtual Machine ID |  |
| FieldValue | VARCHAR (255) | Field Value        |  |





### vpvx\_Perf\_Intervals View

The vpxv\_Perf\_Intervals view defines the intervals for host and virtual machine performance data.

| Title      | Type             | Description                      | Create View vpxv_Perf_Intervals As   |
|------------|------------------|----------------------------------|--|
| IntervalID | INT              | Interval ID                      | <pre>SELECT STATS_CONFIG.HIST_ID AS IntervalID, STATS_CONFIG.NAME AS NAME, STATS_CONFIG.NUM_SAMPLES AS MaxSamples, STATS_CONFIG.INTERVAL AS Interval FROM STATS_CONFIG</pre> |
| Name       | VARCHAR<br>(255) | Interval Name                    |  |
| MaxSamples | INT              | Maximum<br>Samples               |  |
| Interval   | INT              | Interval<br>period in<br>seconds |  |

### vpvx\_Perf\_Host\_Counters View

The vpxv\_Perf\_Host\_Counters view defines the devices for host.

| Title       | Type             | Description          | Create View vpxv_Perf_Host_Counters As   |
|-------------|------------------|----------------------|--|
| HostID      | INT              | Host ID              | <pre>SELECT STATS_HOST_ROWS.HOST_ID AS HostID, STATS_HOST_ROWS.ROW_ID AS CounterID, STATS_HOST_ROWS.DEVICE AS Name, STATS_HOST_ROWS.INSTANCE AS Instance, STATS_HOST_ROWS.STAT AS Description FROM STATS_HOST_ROWS</pre> |
| CounterID   | INT              | Device<br>Counter ID |  |
| Name        | VARCHAR<br>(255) | Name                 |  |
| Instance    | VARCHAR<br>(255) | Instances            |  |
| Description | VARCHAR<br>(255) | Description          |  |



### vpvx\_Perf\_Host\_Data View

The vpxv\_Perf\_Host\_Data view defines the statistics history for hosts.

| Title        | Type      | Description           | Create View vpxv_Perf_Host_Data As   |
|--------------|-----------|-----------------------|--|
| HostID       | INT       | Host ID               | <pre> SELECT STATS_HOST_DATA.HOST_ID AS HostID,       STATS_HOST_DATA.ROW_ID AS CounterID,       STATS_HOST_DATA.HIST_ID AS IntervalID,       CASE WHEN STATS_HOST_DATA.COL_ID &lt; CURRENT_COLUMN             THEN -(CURRENT_COLUMN - STATS_HOS             ELSE -(STATS_CONFIG.NUM_SAMPLES +             CURRENT_COLUMN - STATS_HOST_DATA.COL_ID)       END AS SampleDepth,       CONVERT (datetime, 25567) +       CASE WHEN STATS_HOST_DATA.COL_ID &lt;             CURRENT_COLUMN THEN LAST_TIMESTAMP - (CURRENT)             ELSE LAST_TIMESTAMP - (STATS_CONFIG.             NUM_SAMPLES + CURRENT_COLUMN - STATS_H             END /3600.0/24 as SampleTime,       STATS_HOST_DATA.VAL AS SampleValue FROM STATS_HOST_DATA LEFT JOIN STATS_HOST_TABLES ON       STATS_HOST_DATA.HOST_ID = STATS_HOST_T       AND STATS_HOST_DATA.HIST_ID = STATS_HOST_ LEFT JOIN STATS_CONFIG ON STATS_HOST_DATA.HIST_ID       = STATS_CONFIG.HIST_ID </pre> |
| Counter ID   | INT       | Device Counter ID     |  |
| Interval ID  | INT       | Interval ID           |  |
| Sample Depth | INT       | Sampling index/ depth |  |
| Sample Time  | DATE TIME | Sampling time in UTC  |  |
| Sample Value | INT       | Sampling value        |  |

### vpvx\_Perf\_VM\_Counters View

The vpxv\_Perf\_VM\_Counters view defines the devices for virtual machine.

| Title       | Type          | Description        | Create View vpxv_Perf_VM_Counters As   |
|-------------|---------------|--------------------|--|
| VMID        | INT           | Virtual Machine ID | <pre> SELECT STATS_VM_ROWS.VM_ID AS VMID,       STATS_VM_ROWS.ROW_ID AS CounterID,       STATS_VM_ROWS.DEVICE AS Name,       STATS_VM_ROWS.INSTANCE AS Instance,       STATS_VM_ROWS.STAT AS Description FROM STATS_VM_ROWS </pre> |
| CounterID   | INT           | Device Counter ID  |  |
| Name        | VARCHAR (255) | Name               |  |
| Instance    | VARCHAR (255) | Instances          |  |
| Description | VARCHAR (255) | Description        |  |



## vpvx\_Perf\_VM\_Data View

The vpxv\_Perf\_VM\_Data view defines the statistics history for virtual machines.

| Title        | Type      | Description          | Create View vpxv_Perf_VM_Data As  |
|--------------|-----------|----------------------|---|
| VMID         | INT       | Virtual Machine ID   | <pre> SELECT STATS_VM_DATA.VM_ID AS VMID,       STATS_VM_DATA.ROW_ID AS CounterID,       STATS_VM_DATA.HIST_ID AS IntervalID,       CASE WHEN STATS_VM_DATA.COL_ID &lt; CURRENT_COLUMN             THEN -(CURRENT_COLUMN - STATS_VM_DA             ELSE -(STATS_CONFIG.NUM_SAMPLES +             CURRENT_COLUMN - STATS_VM_DATA.COL_ID)             END AS SampleDepth,       CONVERT (datetime, 25567) +       CASE WHEN STATS_VM_DATA.COL_ID &lt; CURRENT_COLUMN             THEN LAST_TIMESTAMP - (CURRENT_             ELSE LAST_TIMESTAMP -             (STATS_CONFIG.NUM_SAMPLES             + CURRENT_COLUMN - STATS_V             END /3600.0/24 as SampleTime,       STATS_VM_DATA.VAL AS SampleValue FROM STATS_VM_DATA LEFT JOIN STATS_VM_TABLES ON STATS_VM_DATA.VM_ID = STATS_VM_TABLES.VM_I AND STATS_VM_DATA.HIST_ID = STATS_VM_TABL LEFT JOIN STATS_CONFIG ON STATS_VM_DATA.HIST_ID = STATS_CONFIG.HIST_ID </pre> |
| Counter ID   | INT       | Device Counter ID    |   |
| Interval ID  | INT       | Interval ID          |   |
| Sample Depth | INT       | Sampling index/depth |   |
| Sample Time  | DATE TIME | Sampling time in UTC |   |
| Sample Value | INT       | Sampling value       |   |

## View for Oracle Databases

The following provides a description of the query text needed when you add views of our Microsoft Access database to the VirtualCenter database.

### vpvx\_FarmGroups View

The vpxv\_FarmGroups view defines the Farm Groups.

| Title       | Type          | Description          | Create View vpxv_FarmGroups As   |
|-------------|---------------|----------------------|--|
| FarmGroupID | INT           | Farm Group ID        | <pre> SELECT VPX_GROUP.GROUP_ID AS FarmGroupID,       VPX_GROUP.Name AS Name,       VPX_GROUP.Parent AS ParentID FROM VPX_GROUP </pre> |
| Name        | VARCHAR (255) | Farm Group Name      |  |
| ParentID    | INT           | Parent Farm Group ID |  |



### vpxv\_Farms View

The vpxv\_Farms view defines the Farms.

| Title         | Type          | Description                    | Create View vpxv_Farms As  |
|---------------|---------------|--------------------------------|--|
| FarmID        | INT           | Farm ID                        | <pre>SELECT VPX_DOMAIN.DOMAIN_ID AS FarmID,       VPX_DOMAIN.NAME AS Name,       VPX_DOMAIN.PARENT AS FarmGroupID,       VPX_DOMAIN.VMGROUP AS VMGroupID,       VPX_DOMAIN.CNT_CLONE AS CloneCount,       VPX_DOMAIN.CNT_DEPLOY AS DeployCount,       VPX_DOMAIN.CNT_MIGRATE AS MigrateCount FROM VPX_DOMAIN</pre> |
| Name          | VARCHAR (255) | Farm Name                      |  |
| FarmGroup ID  | INT           | Farm Group ID                  |  |
| VMGroup ID    | INT           | Virtual Machine Group ID       |  |
| Clone Count   | INT           | Number of Succeeded Cloning    |  |
| Deploy Count  | INT           | Number of Succeeded Deployment |  |
| Migrate Count | INT           | Number of Succeeded Migration  |  |

### vpxv\_VMGroups View

The vpxv\_VMGroups view defines the Virtual Machine Groups.

| Title     | Type          | Description                     | Create View vpxv_VMGroups As   |
|-----------|---------------|---------------------------------|--|
| VMGroupID | INT           | Virtual Machine Group ID        | <pre>SELECT VPX_VMGROUP.VMGROUP_ID AS VMGroupID,       VPX_VMGROUP.Name AS Name,       VPX_VMGROUP.PARENT AS ParentID FROM VPX_VMGROUP</pre> |
| Name      | VARCHAR (255) | Virtual Machine Group Name      |  |
| ParentID  | INT           | Parent Virtual Machine Group ID |  |

### vpxv\_Hosts View

The vpxv\_Hosts view defines the ESX hosts.

| Title    | Type          | Description   | Create View vpxv_Hosts As  |
|----------|---------------|---|--|
| HostID   | INT           | Host ID   | <pre>SELECT VPX_HOST.HOST_ID AS HostID,       VPX_HOST.HOSTNAME AS Name,       VPX_HOST.PARENT AS FarmID,       VPX_HOST.Port AS Port,       VPX_HOST.USER_NAME AS UserName,       VPX_HOST.ENABLED AS Enabled FROM VPX_HOST</pre> |
| Name     | VARCHAR (255) | Host Name   |  |
| FarmID   | INT           | Farm ID   |  |
| Port     | INT           | Host Port   |  |
| UserName | VARCHAR (255) | Host Login User Name                                |  |
| Enabled  | INT           | If connecting to host when VirtualCenter starts up. |  |



### vpvx\_VMs View

The vpxv\_VMs view defines the Virtual Machines.

| Title          | Type          | Description                  | Create View vpxv_VMs As   |
|----------------|---------------|------------------------------|---|
| VMID           | INT           | Virtual Machine ID           | <pre>SELECT VPX_VM.VM_ID AS VMID,        VPX_VM.NAME AS Name,        VPX_VM.PARENT AS VMGroupID,        VPX_VM.HOST AS HostID,        VPX_VM.FILE_NAME AS ConfigFileName,        VPX_VM.UUID_BIOS AS VMUniqueID FROM VPX_VM</pre> |
| Name           | VARCHAR (255) | Virtual Machine Name         |   |
| VMGroupID      | INT           | Virtual Machine Group ID     |   |
| HostID         | INT           | Host ID                      |   |
| ConfigFileName | VARCHAR (255) | Configuration File Name      |   |
| VMUniqueID     | VARCHAR (255) | UUID for the Virtual Machine |   |

### vpvx\_Templates View

The vpxv\_Templates view defines the Templates.

| Title       | Type          | Description          | Create View vpxv_Templates As   |
|-------------|---------------|----------------------|---|
| TemplateID  | INT           | Template ID          | <pre>SELECT VPX_TEMPLATE.TEMPLATE_ID AS Template ID,        VPX_TEMPLATE.NAME AS Name,        VPX_TEMPLATE.Description AS Description FROM VPX_TEMPLATE</pre> |
| Name        | VARCHAR (255) | Template Name        |   |
| Description | VARCHAR (255) | Template Description |   |

### vpvx\_Tasks View

The vpxv\_Tasks view defines the Tasks.

| Title     | Type          | Description                | Create View vpxv_Tasks As   |
|-----------|---------------|----------------------------|---|
| TaskID    | INT           | Task ID                    | <pre>SELECT VPX_SCHEDULE.SCHEDULE_ID AS TaskID,        VPX_SCHEDULE.CONF_NAME AS Name,        VPX_SCHEDULE.CONF_ENABLED AS Enabled,        VPX_SCHEDULE.WHEN_FREQ AS Frequency,        VPX_SCHEDULE.STATUS AS Status,        VPX_SCHEDULE.NOTIFICATION_SENDTO AS SendTo FROM VPX_SCHEDULE</pre> |
| Name      | VARCHAR (255) | Task Name                  |   |
| Enabled   | INT           | If The Task Works          |   |
| Frequency | VARCHAR (255) | Task Frequency             |   |
| Status    | VARCHAR (255) | Current Result Status      |   |
| SendTo    | VARCHAR (255) | Email Notification Address |   |



### vpvx\_Alarms View

The vpxv\_Alarms view defines the Alarms.

| Title   | Type          | Description        | Create View vpxv_Alarms As   |
|---------|---------------|--------------------|--|
| AlarmID | INT           | Alarm ID           | SELECT VPX_TRIGGER.TRIGGER_ID AS AlarmID,<br>VPX_TRIGGER.CONF_NAME AS Name,<br>VPX_TRIGGER.CONF_ENABLED AS Enabled<br>FROM VPX_TRIGGER |
| Name    | VARCHAR (255) | Alarm Name         |  |
| Enabled | INT           | If the Alarm Works |  |

### vpvx\_Licenses View

The vpxv\_Licenses view defines the licenses.

| Title    | Type          | Description   | Create View vpxv_Licenses As  |
|----------|---------------|---------------|---|
| Type     | VARCHAR (13)  | License Type  | SELECT 'VirtualCenter' AS Type,<br>Serial AS SerialNo FROM VPX_LICENSE_VPXD<br>UNION (SELECT 'host' AS Type,<br>Serial AS SerialNo FROM VPX_LICENSE_HOSTS)<br>UNION (SELECT 'VMotion' AS Type,<br>Serial AS SerialNo<br>FROM VPX_LICENSE_MIGRATION) |
| SerialNo | VARCHAR (255) | Serial Number |   |

### vpvx\_Fields View

The vpxv\_Fields view defines the host and virtual machine fields.

| Title     | Type          | Description | Create View vpxv_Fields As   |
|-----------|---------------|-------------|--|
| FieldID   | INT           | Field ID    | SELECT VPX_FIELDDEF.FIELD_ID AS FieldID,<br>VPX_FIELDDEF.NAME AS Name<br>FROM VPX_FIELDDEF |
| FieldName | VARCHAR (255) | Field Name  |  |

### vpvx\_Host\_Fields View

The vpxv\_Host\_Fields view defines field values for hosts.

| Title      | Type          | Description | Create View vpxv_Host_Fields As  |
|------------|---------------|-------------|--|
| FieldID    | INT           | Field ID    | SELECT VPX_HOST_FIELDS.FIELD_ID AS FieldID,<br>VPX_HOST_FIELDS.HOST_ID AS HostID,<br>VPX_HOST_FIELDS.FIELD_VALUE AS FieldValue<br>FROM VPX_HOST_FIELDS |
| HostID     | INT           | Host ID     |  |
| FieldValue | VARCHAR (255) | Field Value |  |

### vpvx\_VM\_Fields View

The vpxv\_VM\_Fields view defines field values for virtual machines.

| Title      | Type          | Description        | Create View vpxv_VM_Fields As  |
|------------|---------------|--------------------|--|
| FieldID    | INT           | Field ID           | SELECT VPX_VM_FIELDS.FIELD_ID AS FieldID,<br>VPX_VM_FIELDS.VM_ID AS VMID,<br>VPX_VM_FIELDS.FIELD_VALUE AS FieldValue<br>FROM VPX_VM_FIELDS |
| VMID       | INT           | Virtual Machine ID |  |
| FieldValue | VARCHAR (255) | Field Value        |  |



### vpvx\_Perf\_Intervals View

The vpxv\_Perf\_Intervals view defines the intervals for host and virtual machine performance data.

| Title      | Type          | Description                | Create View vpxv_Perf_Intervals As   |
|------------|---------------|----------------------------|--|
| IntervalID | INT           | Interval ID                | <pre>SELECT STATS_CONFIG.HIST_ID AS IntervalID,       STATS_CONFIG.NAME AS NAME,       STATS_CONFIG.NUM_SAMPLES AS MaxSamples,       STATS_CONFIG.INTERVAL AS Interval FROM STATS_CONFIG</pre> |
| Name       | VARCHAR (255) | Interval Name              |  |
| MaxSamples | INT           | Maximum Samples            |  |
| Interval   | INT           | Interval period in seconds |  |

### vpvx\_Perf\_Host\_Counters View

The vpxv\_Perf\_Host\_Counters view defines the devices for host.

| Title       | Type          | Description       | Create View vpxv_Perf_Host_Counters As   |
|-------------|---------------|-------------------|--|
| HostID      | INT           | Host ID           | <pre>SELECT STATS_HOST_ROWS.HOST_ID AS HostID,       STATS_HOST_ROWS.ROW_ID AS CounterID,       STATS_HOST_ROWS.DEVICE AS Name,       STATS_HOST_ROWS.INSTANCE AS Instance,       STATS_HOST_ROWS.STAT AS Description FROM STATS_HOST_ROWS</pre> |
| CounterID   | INT           | Device Counter ID |  |
| Name        | VARCHAR (255) | Name              |  |
| Instance    | VARCHAR (255) | Instances         |  |
| Description | VARCHAR (255) | Description       |  |



### vpvx\_Perf\_Host\_Data View

The vpxv\_Perf\_Host\_Data view defines the statistics history for hosts.

| Title        | Type      | Description          | Create View vpxv_Perf_Host_Data As  |
|--------------|-----------|----------------------|---|
| HostID       | INT       | Host ID              | <pre> SELECT STATS_HOST_DATA.HOST_ID AS HostID,       STATS_HOST_DATA.ROW_ID AS CounterID,       STATS_HOST_DATA.HIST_ID AS IntervalID,       DECODE(SIGN(STATS_HOST_DATA.COL_ID -                   CURRENT_COLUMN),             -1, -(CURRENT_COLUMN - STATS_HOST_DATA.COL_ID                   - 1),             -(STATS_CONFIG.NUM_SAMPLES + CURRENT_COLUMN -               STATS_HOST_DATA.COL_ID))       AS SampleDepth,       TO_DATE(2440588, 'J') +       DECODE(SIGN(STATS_HOST_DATA.COL_ID -                   CURRENT_COLUMN),             -1, LAST_TIMESTAMP - (CURRENT_COLUMN -               STATS_HOST_DATA.COL_ID - 1) * INTERV             LAST_TIMESTAMP - (STATS_CONFIG.NUM_SAMPLES +               CURRENT_COLUMN - STATS_HOST_DA             /3600.0/24 as SampleTime,       STATS_HOST_DATA.VAL AS SampleValue FROM STATS_HOST_DATA, STATS_HOST_TABLES,       STATS_CONFIG WHERE       STATS_HOST_DATA.HOST_ID =         STATS_HOST_TABLES.HOST_ID AND STATS_HOST_DATA.HIST_ID =         STATS_HOST_TABLES.HIST_ID AND STATS_HOST_DATA.HIST_ID =         STATS_CONFIG.HIST_ID </pre> |
| Counter ID   | INT       | Device Counter ID    |   |
| Interval ID  | INT       | Interval ID          |   |
| Sample Depth | INT       | Sampling index/depth |   |
| Sample Time  | DATE TIME | Sampling time in UTC |   |
| Sample Value | INT       | Sampling value       |   |

### vpvx\_Perf\_VM\_Counters View

The vpxv\_Perf\_VM\_Counters view defines the devices for virtual machine.

| Title       | Type          | Description        | Create View vpxv_Perf_VM_Counters As   |
|-------------|---------------|--------------------|--|
| VMID        | INT           | Virtual Machine ID | <pre> SELECT STATS_VM_ROWS.VM_ID AS VMID,       STATS_VM_ROWS.ROW_ID AS CounterID,       STATS_VM_ROWS.DEVICE AS Name,       STATS_VM_ROWS.INSTANCE AS Instance,       STATS_VM_ROWS.STAT AS Description FROM STATS_VM_ROWS </pre> |
| CounterID   | INT           | Device Counter ID  |  |
| Name        | VARCHAR (255) | Name               |  |
| Instance    | VARCHAR (255) | Instances          |  |
| Description | VARCHAR (255) | Description        |  |





## vpvx\_Perf\_VM\_Data View

The vpxv\_Perf\_VM\_Data view defines the statistics history for virtual machines.

| Title        | Type      | Description          | Create View vpxv_Perf_VM_Data As  |
|--------------|-----------|----------------------|---|
| VMID         | INT       | Virtual Machine ID   | <pre> SELECT STATS_VM_DATA.VM_ID AS VMID,       STATS_VM_DATA.ROW_ID AS CounterID,       STATS_VM_DATA.HIST_ID AS IntervalID,       DECODE(SIGN(STATS_VM_DATA.COL_ID - CURRENT_COLUMN),       -1, -(CURRENT_COLUMN - STATS_VM_DATA.COL_ID - 1),       -(STATS_CONFIG.NUM_SAMPLES + CURRENT_COLUMN - STATS_VM_DATA.COL_ID))       AS SampleDepth,       TO_DATE(2440588, 'J') +       DECODE(SIGN(STATS_VM_DATA.COL_ID - CURRENT_COLUMN),       -1, LAST_TIMESTAMP - (CURRENT_COLUMN - STATS_VM_DATA.COL_ID - 1) * INTERVAL       LAST_TIMESTAMP -       (STATS_CONFIG.NUM_SAMPLES + CURRENT_COLUMN - STATS_VM_DATA       /3600.0/24 as SampleTime,       STATS_VM_DATA.VAL AS SampleValue FROM STATS_VM_DATA, STATS_VM_TABLES, STATS_CONFIG WHERE   STATS_VM_DATA.VM_ID = STATS_VM_TABLES.VM_ID       AND STATS_VM_DATA.HIST_ID = STATS_VM_TABLES.HIST_ID       AND STATS_VM_DATA.HIST_ID = STATS_CONFIG.HIST_ID </pre> |
| Counter ID   | INT       | Device Counter ID    |   |
| Interval ID  | INT       | Interval ID          |   |
| Sample Depth | INT       | Sampling index/depth |   |
| Sample Time  | DATE TIME | Sampling time in UTC |   |
| Sample Value | INT       | Sampling value       |   |