HP Universal CMDB & Configuration Manager

Software Version: 10.11 CUP2

Release Notes

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Software Release Date: October 2014

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Document Changes

Publication Date	Summary of Changes
November 2014 (10.11, Second Edition)	• Clarified that Red Hat Linux Enterprise Server 6.5 is not supported

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HP Universal CMDB & Configuration Manager Release Notes

Keep your system up to date with the most recent cumulative update package (CUP) for UCMDB 10.11. This package contains all of the UCMDB 10.11 hotfixes that have been released since the initial release of UCMDB 10.11.

HP Universal CMDB and Configuration Manager 10.11 CUP2 Files/Components

HP UCMDB 10.11 CUP2 is packaged in one .zip file.

The **UCMDB_00148.zip** (for Windows) includes the following files/components:

- **HPUCMDB_Server_10.11.CUP2.exe**. The installation of the version 10.11 CUP2 HP UCMDB Server and Data Flow Probe for Windows.
- **HPCM_10.11.CUP2.exe**. The installation of version 10.11 CUP2 HP UCMDB Configuration Manager for Windows.
- **ReleaseNotes.pdf** (this file)

The **UCMDB_00149.zip** (for Linux) includes the following files/components:

- **HPUCMDB_Server_10.11.CUP2.bin**. The installation of the version 10.11 CUP2 HP UCMDB Server and Data Flow Probe for the Linux platform.
- **HPCM_10.11.CUP2.bin.** The installation of version 10.11 CUP2 HP UCMDB Configuration Manager for the Linux platform.
- **ReleaseNotes.pdf** (this file)

System Requirements

For a list of system requirements, see the **HP UCMDB Support Matrix** pdf. Check the most previous Release Notes for any additions or changes to the matrix.

Note: If you are using an Oracle version that is prior to 10.2.0.5, you must apply the Oracle patch that fixes Oracle defect # 5866410. For details, go to the Oracle website and find the information regarding this defect number.

Install 10.11 CUP2 on the HP Universal CMDB and Configuration Manager Servers

CUP Installation for both HP Universal CMDB and Configuration Manager is performed through an automated procedure using the installation wizard.

You can still install the Data Flow Probes separately by upgrading the Data Flow Probes using the UCMDB user interface. For details, see "HP Universal CMDB 10.11 CUP2 Manual Data Flow Probe Installation" on the next page.

Note:

- HP UCMDB 10.11 CUP2 can be installed only on top of an HP Universal CMDB version 10.11.
- The HP UCMDB CM 10.11 CUP2 can be installed only on top of HP UCMDB CM 10.11.
- The UCMDB CUP version and the CM CUP version must be the same.

Pre-requisites - UCMDB Server and Data Flow Probes

1. Extract **UCMDB_00148.zip** (for Windows) or **UCMDB_00149.zip** (for Linux) to a temporary directory.
2. Stop the HP Universal CMDB 10.11 server and the HP Universal CMDB Integration Service (if running) before starting the 10.11 CUP2 installation.

   Note: If you have a High Availability configuration, the CUP must be installed on all the servers in the cluster, and prior to installation, you must stop all the servers in the cluster.

3. If you have received private patches for the Data Flow Probe, you must delete them before performing the upgrade. These steps for deleting a private patch must be followed whether you are upgrading the probes during the installation wizard, or if you upgrading the probes using the UCMDB user interface after installation is complete.

   a. Stop the Data Flow Probe.

   b. Delete all private patches that were installed on the system prior to this CUP by deleting the following directory:

   \hp\UCMDB\DataFlowProbe\classes directory

   c. Start up the version 10.11 Data Flow Probe.

CUP Installation

You must first install the UCMDB CUP, start up the server, and then perform the Configuration Manager (CM) CUP installation.

1. For UCMDB: Double-click the file **HPUCMDB_Server_10.11.CUP2.exe** (for Windows) or **HPUCMDB_Server_10.11.CUP2.bin** (for Linux) to open the HP Universal CMDB Server CUP Installation Wizard.

   For Configuration Manager: Double click the file **HPCM_10.11.CUP2.exe** (for Windows) or **HPCM_10.11.CUP2.bin** (for Linux) to open the HP Universal CMDB Configuration Manager CUP Installation Wizard.

2. While running the wizard:

   - In the Choose Install Folder screen, select the installation directory in which UCMDB/CM is already installed.
   - For UCMDB, in the Install Data Flow Probe CUP screen, select the following option:
     - **Automatically update Data Flow Probe with the new CUP version** to automatically update during this installation all the Data Flow Probes reporting to this UCMDB.
     - **Update the Data Flow Probe manually** to update the Data Flow Probes reporting to this UCMDB using the UCMDB user interface after completing the installation of this CUP on the UCMDB server. For details, see "HP Universal CMDB 10.11 CUP2 Manual Data Flow Probe Installation" below.
     - In the Required Actions screen, follow the instruction to ensure that the server is down.

3. Once the installation wizard for UCMDB is completed, start up the version 10.11 server per the instructions in the Deployment Guide for version 10.11. Go back to step 1 to install the CM CUP.

   Once the CM CUP installation is completed, start up Configuration Manager version 10.11 per the instructions in the Deployment Guide for version 10.11.

HP Universal CMDB 10.11 CUP2 Manual Data Flow Probe Installation

(Applicable only when **Update the Data Flow Probes manually** is selected in the CUP installation wizard.)

To install the Data Flow Probe CUP upgrade using the UCMDB user interface, follow these steps.

Note: All Data Flow Probes that are associated with the UCMDB are upgraded.

1. If you have received private patches for the Data Flow Probe, perform the steps in the section "Pre-requisites - UCMDB Server and Data Flow Probes" on page 6.

2. In UCMDB, go to **Data Flow Management > Data Flow Probe Setup**, and click **Deploy Probe Upgrade**.

3. In the Deploy Probe Upgrade dialog box, navigate to the **<SERVER_HOME>\content\probe_patch\probe-patch-10.11.CUP2-windows/linux.zip** and click **OK**.

HP Universal CMDB and CM 10.11 CUP2 Uninstall Procedure

When performing the uninstall procedure, this procedure must be performed for both the UCMDB Server and the Data Flow probes, as well as Configuration Manager.

1. Stop the HP Universal CMDB and Configuration Manager servers, and all running Data Flow Probes before uninstalling the version CUP.

2. For UCMDB:

   - Windows: Go to **<CMDB installation folder>\UninstallerCup** and double-click **Uninstall HP Universal CMDB Server CUP**. After the CUP is successfully uninstalled, go to **<CMDB installation folder>**\runtime and delete the **jsp** and **jetty-cache** folders.

   - Linux: Go to **<CMDB installation folder>/UninstallerCup** and run **Uninstall HP Universal CMDB Server CUP**. After the CUP is successfully uninstalled, go to **<CMDB installation folder>**/runtime and delete the **jsp** and **jetty-cache** folders.

3. For Configuration Manager:

   - Windows: Go to **Start** menu > **Programs** > **HP Universal CMDB Configuration Manager 10.11** and double click **Uninstall HP Universal CMDB Configuration Manager 10.11 CUP2.**

   - Linux: Go to **<CM installation folder>/_sp_installation/** and run **HPCM_10.11_CUP2-Uninstall**.

4. Uninstall all existing Probes as follows:

   a. **Start > All Programs > HP UCMDB > Uninstall Data Flow Probe**.

   b. Start the server.

   c. Undeploy the **probeUpdate** package.

5. Reinstall the Probes with the same configuration, that is, use the same Probe IDs, domain names, and server names as for the previous Probe installations. Remember that the Probe ID is case

sensitive.

Note: After performing an upgrade and installing the new Data Flow Probe, all the Discovery jobs that were active before the upgrade are automatically run.

Notes

- HP provides the following recommendations for increasing the security of your overall infrastructure for informational purposes only. These are only recommendations and are not intended to be a guarantee of protection against all potential vulnerabilities and attacks. Please note that some security measures may impact the features and functionality of your overall system; so, it is recommended that every customer become aware of those impacts when implementing any changes to your environment.

  Use of this HP Software Product [UCMDB CUP] may require the pre-installation of certain third-party components that are not provided by HP ("Third Party Components"). HP recommends that its customers check frequently for the most current updates to the Third Party Components, which may include fixes or patches for security vulnerabilities.

- When upgrading the Data Flow Probe:

  - In a multi-customer environment, if the Data Flow Probe is not automatically upgraded to the latest CUP version, use the manual upgrade procedure to upgrade the Probe manually. For details on the manual upgrade procedure, see "How to Deploy a Data Flow Probe CUP Manually" in the *HP Universal CMDB Data Flow Management Guide*.

  - The automatic upgrade is not available for Data Flow Probes running on Linux. Use the manual upgrade procedure to upgrade the Probe manually. When the automatic upgrade runs on other Probes, it may begin to run for Probes running on Linux. In such a case, stop the upgrade and run the manual upgrade procedure.

  - The Data Flow Probe upgrade is only available for upgrades between CUP versions. When performing an upgrade to a major or minor release, you must reinstall the Probe.

  - When operating the Data Flow Probe Manager and the Data Flow Probe Gateway on separate machines (that is, separate mode), use the manual upgrade procedure to upgrade the Probe manually. For details on the manual upgrade procedure, see "How to Deploy a Data Flow Probe CUP Manually" in the *HP Universal CMDB Data Flow Management Guide*.

- If you encounter an error when installing the CUP under Linux on the **/tmp** directory because the **/tmp** directory is configured not to run executables, set the IATEMPDIR environment variable to a location with sufficient permissions and disk space. The IATEMPDIR variable is recognized by InstallAnywhere.

- Fixed a documentation error that occurred in the following location of the Content Guide: Supported Content > Supported Protocols > SSH Protocol. In the Command List column, the description is missing a period. Specifically, the following sentence “For example, entering *uname would select all of the following expressions:” should be changed to “For example, entering *.uname would select all of the following expressions:” (QCCR1H92999)

- No password is required when running clearprobedata.bat to clear the data on the Data Flow Probe. (QCCR1H93320)
- When the parameter appilog.collectors.storeDomainScopeDocument in the **<UCMDB_HOME>**\DataFlowProbe\conf\DataFlowProbe.properties file is set to false, some jobs which run in the remote process mode fail because the process cannot get domainScopeDocument from the file system. As a workaround, set the parameter appilog.collectors.storeDomainScopeDocument to true. (QCCR1H93459)
- Basic authentication does not support probes that are installed in separate mode.
- Prior to the installation of 10.11 CUP2 (fixed QCCR1H92519), a CIT might have gotten corrupted and no instances of it could be created. This issue is caused by newly-created classes that contain attribute qualifiers on **root_iconproperties**. The following error message is displayed in the log:

  "[ErrorCode [404] Attribute [{0}] contains calculated attribute qualifier without items in it.{root_iconproperties}]. Attribute [root_iconproperties] contains calculated attribute qualifier without items in it."

  After installing this CUP, this issue no longer happens but if a CIT is corrupted, it must be manually edited in the XML. Do the following:

  a. Export all class models using **jmx exportClassModelToXml** from Class Model Services.

  b. Locate the **<Attribute-Qualifier name="CALCULATED_ATTRIBUTE" is-factory="false" />** line in the **root_iconproperties Attribute-Override** section as follows.

  ```
  <Attribute-Override is-partially-override="true" name="root_iconproperties"
  is-factory="true">
            <Attribute-Qualifiers>
             <Attribute-Qualifier name="APPLICATIVE_ATTRIBUTE" is-
  factory="true" origin="basic-deployment" version="10" />
             <Attribute-Qualifier name="CALCULATED_ATTRIBUTE" is-
  factory="false" />
  ```

  c. Note down the CITs whose definitions contain the above problematic line.

  d. Log in to the UCMDB UI and go to **Modeling** > **CI Type Manager**.

  e. Locate the CITs that you noted down and export them to XML.

  f. Open the XML file and delete the **<Attribute-Qualifier name="CALCULATED_ATTRIBUTE" is-factory="false"/>** line.

  g. Save the resource and restart the server.

- Fixed an issue that occurred when properties of any CI under the CIT **running_software** could not be viewed (QCCR1H95512). This issue is caused by the fact that a certain custom attribute with

the default constraint or index cannot be deleted. The issue is reproduced only on MSSQL when a new attribute is deleted.

To delete the problematic attribute from the database, perform the following steps:

a. Stop the UCMDB server.

b. Back up the UCMDB database. Make sure that the database is backed up appropriately and UCMDB starts with the database backup.

c. Run the following scripts to delete the attribute from all tables: **1_script_delete_index.sql** and **2_script_delete_constraint.sql** (See "Appendixes" on page 17). The scripts must be run by Database Administrator in CMDB Database. Set the column name or attribute name to be deleted in the scripts (SET @column_name = 'Column Name').

   - If the attribute has an index property, fist run **1_script_delete_index.sql** and then run **2_script_delete_constraint.sql**.
   - If the attribute does not have an index property, simply run **2_script_delete_constraint.sql**.

   Note: These scripts will be useless if the same attribute is defined for more classes (more CI Types). For one CI Type, the attribute can be deleted from all related types (from all the children). If you are not clear which CI Types include the attribute, run the SQL statement that is described in the following step e to verify.

d. Save the output generated on MSSQL in the text file.

e. Run the following SQL statement to check whether any columns are left. Replace the **Column Name** value with your column name or attribute name that you want to delete.

```
use 'CMDB DB NAME'

SELECT
    df.name constraint_name ,
    t.name table_name
FROM sys.default_constraints df
INNER JOIN sys.tables t ON df.parent_object_id = t.object_id
INNER JOIN sys.columns c ON df.parent_object_id = c.object_id AND df.parent_
column_id = c.column_id
WHERE c.name = 'Column Name'
```

f. Start UCMDB.

g. Run **rebuildModelDBSchemaAndViews** and **rebuildModelViews** from UCMDB JMX Console under UCMDB:service=DAL services for the CI Type whose attribute is deleted.

Check for any errors in dal logs.

h. Check the CI properties from IT Universe Manager.

> **Note**: This issue also occurs when certain custom attributes are deleted. A permanent fix will be available in the next UCMDB version (QCCR1H91560).

- Fixed an issue that occurred when Pattern-based models were inconsistent with the TQL if the view was changed (QCCR1H95551). This issue is caused by the fact that Package Manager Resource Selector cannot be accessed while creating a new package or opening an existent package. The following error message is displayed in the logs:

  "Caused by: java.lang.IllegalStateException: EnrichmentBusinessViewDefinition *ModelName* is not synchronized with its pattern. Element number *12* does not exist in pattern graph."

  ModelName and *12* in the error message could be different values.

  To fix this issue, use one of the following two ways:

  a. Delete the model and then recreate it

     i. Log in to UCMDB JMX Console and URM Services.

     ii. Run method **listResources** for Resources of type: **Topology_ENRICHMENT_BUSINESS_VIEW**.

     iii. Locate the EnrichmentBusinessView that is mentioned in the error message and delete it. Then the model is deleted.

     iv. Recreate the model from Modeling Studio using the same TQL.

  b. Edit the unsynchronized resources of the problematic model

     i. Log in to UCMDB JMX Console and URM Services.

     ii. Run method **listResources** for Resources of type: **Topology_ENRICHMENT_BUSINESS_VIEW** and **Topology_TQL**.

     iii. Retrieve the xml definition of the **Topology_ENRICHMENT_BUSINESS_VIEW** and **Topology_TQL** of the problematic model.

     iv. Open the EnrichmentBusinessView and locate the ID that is mentioned in the error message.

```
<CmdbProperty>
          <Key>nodeNumberEnd2</Key>
          <Type>integer</Type>
          <Value>12</Value>
</CmdbProperty>
```

v. Do one of the following:

- Change the missing ID in the EnrichmentBusinessView with an existing one from the **Topology_TQL** definition and save the resource.
- Add the missing ID in the **Topology_TQL** definition by replacing an existing one and then save the resource.

Here is an example:

```
<tql:node class="node" name="Node" id="19">
        <tql:where>
            <tql:data-stores>
                <tql:data-store>UCMDB</tql:data-store>
            </tql:data-stores>
        </tql:where>
</tql:node>
```

If you do not have id 12 in the tql, you can change it in the following way:

```
<tql:node class="node" name="Node" id="12">
```

Note: Pattern-based models must be created or edited only from the model instead of from the TQL. The same TQL cannot be used both by the model and by the view.

Fixed Defects for UCMDB 10.11 CUP2

Here is a list of the defects fixed in the CUP2 release.

Global ID	Summary
QCCR1C20050	Added support for reporting multiple installations of the same software version.
QCCR1H92474	Fixed the issue that occurred when the **MSSQL Server Connection by SQL** job failed to discover while using the NTLM authentication.
QCCR1H94134	Fixed the issue that occurred when trigger CIs for jobs under the management zone were in the status of **Progress**. The UI status of the trigger CI did not update and even continued for several days.
QCCR1H94525	Fixed the issue that occurred when a misleading message indicating that all the CIs were touched was returned when using the touch window.
QCCR1H94615	Fixed the issue that occurred when the **Host Applications by shell** job reported a node CI without any properties except one IP address.

Global ID	Summary
QCCR1H94693	Fixed the issue that occurred when the upgrade from 9.05 to 10.10 failed because of the missing of the server_side attribute for the adapter_config class.
QCCR1H94792	Added the time value for the date cells in exported Microsoft Excel reports.
QCCR1H94815	Fixed the issue that occurred when the XML Enrichment service could not start on any probes with the timezone of GMT +9:30 because of the incorrect WrapperEnricherLicense.conf.
QCCR1H94832	Fixed the issue that occurred when discovery jobs stopped triggering all available CIs after the upgrade from 10.10 to 10.11.
QCCR1H94901	Fixed the issue that occurred when the **Merge Clustered Software** job did not properly merge the duplicated database instances that fit the trigger TQL.
QCCR1H95016	Fixed the issue that occurred when the **Inventory Discovery by Scanner** job did not display the correct trigger count.
QCCR1H95063	Fixed the issue that occurred when the **Layer2 Topology Import** job from NNMi failed with the following error "ORA-12899: value too large for column "UCMDB10"."DDM_TEMP_MAPPINGS"."TEMPID" (actual: 53, maximum: 43)".
QCCR1H95112	Fixed the issue that occurred when Viewer did not work and errors were returned on Windows 2012 probe.
QCCR1H95146	Fixed the issue that occurred when UCMDB on postgresql could not modify the CIT attribute size.
QCCR1H95157	Fixed the issue that occurred when the disconnected 9.05 probes from UCMDB could not be removed.
QCCR1H95182	Fixed the issue that occurred when the Package Manager resource selection took long time to populate on UI.
QCCR1H95201	Fixed the issue that occurred when the custom adapter and script were deleted from **Adapter Management** > **Resources** > **Packages** > **<<No Package>>**.
QCCR1H95216	Fixed the issue that occurred when a newly-installed probe or LWP could not connect the UCMDB server with basic authentication enabled.
QCCR1H95223	Fixed the issue that occurred when the topology reporting by SiteScope integrated with BSM failed without any alerts.
QCCR1H95264	Added Application-Name to Manifest of GUI jars.
QCCR1H95284	Fixed the issue that occurred when the following warning message in the WrapperProbeGw.log file was returned while running the **Inventory Discovery by Scanner** job: "Can not execute the script. The reason is forceDontExecute=false or the script file contains mainfunction=false".
QCCR1H95347	Fixed the issue that occurred when searching in UCMDB Browser froze the server.

Global ID	Summary
QCCR1H95470	Fixed the issue that occurred when the **Push IDs into NNMi** adapter produced the following errors in RemoteProcesses.log: "The ucmdb_wrapper.jar module, which is not valid, caused null"and "java.lang.ExceptionInInitializerError".
QCCR1H95472	Fixed the issue that occurred when manually deployed scanners could not be created.
QCCR1H95545	Fixed the issue that occurred when a Data Flow Probe randomly-stopped discovering and sending results to the server.
Configuration Manager Fixed Defects	
QCCR1H95306	Fixed the issue that occurred when the current version of the view did not match the last authorized version.
QCCR1H95599	Fixed the issue that occurred when the external policies results were invisible in Configuration Manager.

Fixed Defects for UCMDB 10.11 CUP1

Here is a list of the defects fixed in the CUP1 release.

Global ID	Summary
QCCR1H84172	Windows Server 2012 is supported for Data Flow Probe and Universal Discovery.
QCCR1H89618	Fixed the issue that occurred when UCMDB Configuration Manager login is case sensitive.
QCCR1H91624	Fixed the issue that occurred when a trigger was dispatched to the wrong Data Flow Probe.
QCCR1H93238	Fixed the issue that IP addresses CIs discovered by member probes of clusters cannot be dispatched on host connection jobs.
QCCR1H93287	Fixed the issue that occurred when Universal Discovery Agent application is not populated to UCMDB.
QCCR1H93297	Fixed the issue that occurred when the SCCM adapter was configured to use the temp table.
QCCR1H93418	Fixed the issue that occurred when modifying the output node for a pattern- based model and an error was returned.
QCCR1H93480	Fixed the issue that occurred when executing UCMDB API Web Service "updateProbeScope".

Global ID	Summary
QCCR1H93712	Fixed the issue that occurred when some scan files are moved to scans\Failed\error folder with error : String index out of range: -1.
QCCR1H93725	Added support for Oracle12c.
QCCR1H93798	Fixed the issue that occurred when new packages were not created.
QCCR1H93805	Fixed the issue that occurred when a user with no permissions attempts to login to UCMDB.
QCCR1H93836	Fixed an issue that occurred when WebSEAL passed the PD session cookie to the backend during a WebSEAL integration. A new setting is added which caused the browser cookies to be read at applet start time. The setting name is mam.web.should.read.web.browser.cookies.
QCCR1H93940	Fixed the issue that occurred when the UcmdbService calculateImpact() method is not able to cope with global Ids.
QCCR1H93980	Fixed the issue that occurred when a processing error was returned because of a List System Type Definition.
QCCR1H93982	Fixed the issue that occurred when an "Access Denied" error was returned while logging in to Configuration Manager after an upgrade.
QCCR1H94051	Fixed the issue that occurred when Pattern-Based models with ENUM Attributes revert values back to default values.
QCCR1H94162	Fixed the issue that occurred when the "Rerun discovery" button did not rerun discovery and the following error message was returned: "maximum number of expressions in a list is 1000".
QCCR1H94313	Fixed the issue that occurred when SQL error messages were returned in the Data Flow Probe: "ddm_gw_task_results_pkey index violation".
QCCR1H94350	Fixed the issue that occurred when Class B/C IPs by ICMP jobs failed with error "java.lang.NumberFormatException: For input string..".

Appendixes

This appendix includes:

1_script_delete_index.sql

The **1_script_delete_index.sql** script is as follows:

```
use 'CMDB Database'

declare
  @column_name nvarchar(255),
  @index_name nvarchar(255),
  @table_name  nvarchar(255),
  @sql_str nvarchar(4000) = ''

SET @column_name = 'COLUMN_NAME'

DECLARE ColumnCursor CURSOR FOR
SELECT
  ind.name as index_name,
  t.name as table_name
FROM sys.indexes ind
INNER JOIN sys.index_columns ic
  ON ind.object_id = ic.object_id
  AND ind.index_id = ic.index_id
INNER JOIN sys.columns col
  ON ic.object_id = col.object_id
  AND ic.column_id = col.column_id
INNER JOIN sys.tables t
  ON ind.object_id = t.object_id
WHERE col.name = @column_name

OPEN ColumnCursor

FETCH NEXT FROM ColumnCursor INTO @index_name, @table_name
WHILE @@FETCH_STATUS = 0
BEGIN
       -- drop index
       set @sql_str = 'DROP INDEX ' + @index_name + ' ON ' + @table_name

       print @sql_str
       exec sp_executesql @sql_str

FETCH NEXT FROM ColumnCursor INTO @index_name, @table_name
END
CLOSE ColumnCursor
DEALLOCATE ColumnCursor
```

2_script_delete_constraint.sql

The **2_script_delete_constraint.sql** script is as follows:

```
use 'CMDB Database'

declare
```

```
  @column_name nvarchar(255),
  @constraint_name nvarchar(255),
  @table_name  nvarchar(255),
  @sql_str nvarchar(4000) = ''

SET @column_name = 'COLUMN_NAME'

DECLARE ColumnCursor CURSOR FOR
SELECT
    df.name constraint_name ,
    t.name table_name
FROM sys.default_constraints df
INNER JOIN sys.tables t ON df.parent_object_id = t.object_id
INNER JOIN sys.columns c ON df.parent_object_id = c.object_id AND df.parent_column_
id = c.column_id
WHERE c.name = @column_name

OPEN ColumnCursor

FETCH NEXT FROM ColumnCursor INTO @constraint_name, @table_name
WHILE @@FETCH_STATUS = 0
BEGIN
       -- drop constraint
       set @sql_str = 'ALTER TABLE ' + @table_name + ' DROP CONSTRAINT ' + @constraint_
name
       print @sql_str
       exec sp_executesql @sql_str
       --drop column
       set @sql_str = 'ALTER TABLE ' + @table_name + ' DROP COLUMN ' + @column_name
       print @sql_str
       exec sp_executesql @sql_str

FETCH NEXT FROM ColumnCursor INTO @constraint_name, @table_name
END
CLOSE ColumnCursor
DEALLOCATE ColumnCursor
```