Altibase 7.1.0.9.4 Patch Notes

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New Features

BUG-50768 Improve V$DISK_BTREE_HEADER and V$MEM_BTREE_HEADER performance views to include index status information.

- **module** : sm

- **Category** : Enhancement

- **Reproducibility** : Always

- **Description** : V$DISK_BTREE_HEADER and V$MEM_BTREE_HEADER performance views now include INDEX_STATUS column which has index status information.

  Plus, V$MEM_BTREE_HEADER also now includes IS_CONSISTENT column to indicate the consistency of the index.

- **How to reproduce this bug**

  - **Reproduction conditions**

  - **Actual Results**

  - **Expected Results**

- **Workaround**

- **Changes**

  - Performance view

    - V$DISK_BTREE_HEADER

      - Added INDEX_STATUS column : Indicate the status of the index

    - V$MEM_BTREE_HEADER

      - Added INDEX_STATUS column : Indicate the status of the index

      - Added IS_CONSISTENT column : Indicate the consistency of the index.

  - Property

  - Compile Option

  - Error Code

BUG-50812 cdbc (C API) support on Windows Clients.

- **module** : ux-cdbc

- **Category** : Portability

- **Reproducibility** : Always

- **Description** : Windows 7.1 clients now supports cdbc(C API).

- **How to reproduce this bug**

  - **Reproduction conditions**

  - **Actual Results**

  - **Expected Results**

- **Workaround**

- **Changes**
  - Performance view
  - Property
  - Compile Option
  - Error Code

- **Changes**
  - Performance view
  - Property
  - Compile Option
  - Error Code

Fixed Bugs

BUG-50433 Improve to avoid accessing corrupted pages during Disk Page Recovery or Service operations.

- **module** : sm
- **Category** : Fatal
- **Reproducibility** : Unknown
- **Description** :
    1. Altibase modified to prevent access to corrupted pages during Disk Page Recovery or service.
    2. If a corrupted Disk Index Page is detected during service, it will be marked with an inconsistent flag, and the index will be set as an inconsistent index.
- **How to reproduce this bug**
    - **Reproduction conditions**
    - **Actual Results**
    - **Expected Results**
- **Workaround**
- **Changes**
    - Performance view
    - Property
    - Compile Option
    - Error Code

BUG-50781 Fix an issue where two clients controlling the semaphore on a single IPC channel caused data to be re-received, resulting in an Invalid protocol sequence error.

- **module** : cm-ipc
- **Category** : Functional Error
- **Reproducibility** : Rare
- **Description** : Altibase resolved the problem where two clients in one IPC channel controlled the semaphore and the received data was re-received, causing an Invalid protocol sequence error.
- **How to reproduce this bug**
    - **Reproduction conditions**
    - **Actual Results**
    - **Expected Results**
- **Workaround**
- **Changes**
    - Performance view

- Property
- Compile Option
- Error Code

BUG-50791 Fix an issue causing server abnormal termination when the TO_CHAR function was used as an alias in a condition clause, and multiple condition clause pushdowns on views occurred.

- **module** : qp

- **Category** : Fatal

- **Reproducibility** : Always

- **Description** : Altibase fixed an issue causing server abnormal termination when the TO_CHAR function was used as an alias in a condition clause, and multiple condition clause pushdowns on views occurred.

  This bug occurred where the following conditions are all met:

  1. The second argument of the TO_CHAR function is a numeric or date format.

  2. The first argument of the TO_CHAR function is not a `Numeric` type.

  3. The first argument column of the TO_CHAR function exists in a subquery view where view merging does not occur, but it is pushed down.

  4. The TO_CHAR function is used in the target clause of the subquery with an alias, and this alias is used in the condition clause of the main query, causing a pushdown to the view where TO_CHAR is used.

- **How to reproduce this bug**

  - **Reproduction conditions**

```
select * from (
    select
            (select c.USER_NAME from SYSTEM_.SYS_COMMENTS_ c where
c.table_name = a.table_name and c.COLUMN_NAME is null limit 1) as
usernm,
            a.table_name,
            (select c.comments from SYSTEM_.SYS_COMMENTS_ c where
c.table_name = a.table_name and c.COLUMN_NAME is null limit 1) as
tablenm,

    to_char((b.fixed_alloc_mem+b.var_alloc_mem)/1024/1024,'999,999,999') ||
'MB' as alloc,

    to_char((b.fixed_used_mem+b.var_used_mem)/1024/1024,'999,999,999') ||
'MB' as used
        from system_.sys_tables_ a, v$memtbl_info b
      where a.table_oid = b.table_oid
        and a.user_id <> (select user_id from system_.sys_users_ where
user_name = 'SYSTEM_')
        and a.table_type = 'T'
      order by (b.fixed_alloc_mem+b.var_alloc_mem) desc)
      where alloc != '0MB';
```

- **Actual Results**

```
[ERR-91015 : Communication failure.]
```

- **Expected Results**

```
No rows selected.
```

- **Workaround**

```
Use NO_PUSH_SELECT_VIEW hint

select /*+ NO_PUSH_SELECT_VIEW(AA) */ * from (
    select /*+  */
            (select /*+   */c.USER_NAME from SYSTEM_.SYS_COMMENTS_ c where
c.table_name = a.table_name and c.COLUMN_NAME is null limit 1) as usernm,
            a.table_name,
            (select /*+  */c.comments from SYSTEM_.SYS_COMMENTS_ c where
c.table_name = a.table_name and c.COLUMN_NAME is null limit 1) as tablenm,

to_char((b.fixed_alloc_mem+b.var_alloc_mem)/1024/1024,'999,999,999') || 'MB'
as alloc,
            to_char((b.fixed_used_mem+b.var_used_mem)/1024/1024,'999,999,999')
|| 'MB' as used
        from system_.sys_tables_ a, v$memtbl_info b
      where a.table_oid = b.table_oid
        and a.user_id <> (select /*+ */user_id from system_.sys_users_ where
user_name = 'SYSTEM_')
        and a.table_type = 'T'
      order by (b.fixed_alloc_mem+b.var_alloc_mem) desc) AA
      where alloc != '0MB';
```

- **Changes**
  - Performance view
  - Property
  - Compile Option
  - Error Code

BUG-50799 Resolve the issue where the odbccli_sl.dll was missing from the Windows installation file.

- **module** : pkg-map
- **Category** : Portability
- **Reproducibility** : Always
- **Description** : Altibase fixed the issue that odbccli_sl.dll was missing form the Windows installation file.
- **How to reproduce this bug**
  - **Reproduction conditions**
  - **Actual Results**
  - **Expected Results**
- **Workaround**
- **Changes**
  - Performance view
  - Property
  - Compile Option
  - Error Code

Changes

Version Info

altibase version	database binary version	meta version	cm protocol version	replication protocol version
7.1.0.9.4	6.5.1	8.11.1	7.1.7	7.4.7

> You can check the module version change history in [Version Histories](#).

Compatibility

Database binary version

The database binary version has not changed.

> The database binary version indicates the compatibility of database image files and log files. If this version needs to be patched to a different version, the database must be reorganized.

Meta Version

The meta version has not changed.

> If you want to roll back the patch after patching to a version with a changed meta version, see [Meta Downgrade](#).

CM protocol Version

The cm protocol version has not changed.

Replication protocol Version

The replication protocol version has not changed.

Altibase Server Properties

Added Properties

Changed Properties

Deleted Properties

Performance Views

Added Performance Views

Changed Performance Views

Deleted Performance Views