HiT OLEDB/DB2 and HiT OLEDB Server/DB2 Release Notes

Version	Date	Changes
6.0.0.0	9/12/18	• Updated the HiT OLEDB/DB2 Toolbox; • Added an Append Trace feature to HiT OLEDB/DB2 Toolbox; • Added DBSCHEMA_VIEWS support for IDBSchemaRowset; • Added support for Windows 10 and Windows Server 2016; • Added support for SQL Server 2016 and SQL Server 2017; • Added support for CHAR and VARCHAR columns in the "SQL Server Import and Export Data" tool; • Fixed an issue with Parametric Queries (32 bit version);
5.0.0.0	12/12/14	• Added support for Windows 8.x and Windows Server 2012 • Added support for Microsoft SQL Server 2014 • Completed LOB support for IBM DB2 z/OS v9-10 • Added support for DB2 UDB v10 • Enhanced data type support to include CHAR FOR BIT DATA values • Fixed an issue with WITH... SELECT... syntax
4.2.0.0	03/15/11	• Added a C# Toolkit for the Developer Edition; • Removed VB and ASP toolkits from the Developer Edition; • Added support for Arabic in the 64-bit version; • Added an update pack for the 64-bit version.
4.1.0.0	05/29/09	• Fixed an issue with a stored procedure call on zOS DB2 v8 (and subsequent versions) with out/inout arguments: if the size of the buffer used by the caller is smaller than the actual size, the server warns the client and truncates the data to the size required by the caller; • Fixed an issue with a stored procedure call on zOS DB2 v8 (and subsequent versions) with out/inout arguments: this sporadic issue occurred in highly multithreaded environments where the out parameters could be returned unconverted; • Introduced support in the trace settings for storing traces in common documents folder to meet Microsoft Windows Vista and Windows 2008 Server requirements; • Introduced a new default folder to store Microsoft Data Link files for Windows systems to meet Microsoft Windows Vista and Windows 2008 Server requirements; • Added support for notification messages in case of warning and/or multiple messages; • Fixed an issue with skipping sporadic rows when fetching huge rowsets with DB2 v8 zOS and subsequent versions; • Fixed an issue with stored procedure calls that return result sets zOS DB2 v8 and subsequent versions; • Added support for a new Code Page "930 - Jpn. Katakana-Kanji Host Mixed".

4.0.0.0	10/22/07	• Added support for Microsoft Windows Vista and passed Windows Vista certification; • Fixed a problem with catalog issues when using Visual Studio 2005 where the environment was suspended while designing a new data access project due to a lack of catalog information; • Fixed a problem with output parameters when using stored procedures called by SQL Server where the position of every parameter was shifted by 1; • Fixed a problem with distributed transactions using two phase commit with DB2 v8.x . A unique SYNCLOG file name is now used instead of a different file for every session.
3.0.0.3 Update Pack Only	04/25/06	• Fixed a problem with distributed transactions using two phase commit with DB2 V8.x; • Added support for Microsoft Windows 64-bit environments.
3.0.0.2	03/06/06	• Fixed a problem with distributed transactions using two phase commit. Running transactions in a SQL Server environment with DB2 zOS 7.x and above caused transaction failures; • Fixed a problem in the Server Edition where re-using pooled connections caused the re-connection attempt to hang when the Server Agent is active; • Fixed a problem where running 4-level INSERT/UPDATE/DELETE queries with SQL Server linked servers with DB2 UDB 8.x did not report the correct number of rows affected; • Fixed a problem where the Toolbox was not displaying the correct Isolation Level for Packages retrieved; • Improved support for reported error details and description for DRDA level errors; • Improved support for stored procedures by introducing support for 7.x and 8.x zOS/MVS systems and LOB arguments; • Enhanced support for stored procedures with management of result sets; • Improved connect-logon sequence process to meet XA specifications; • Fixed a problem where the wrong return value was supplied for the "number of rows affected" property in parametric queries; • Introduced support for BIGINT SQL data type; • Improved management of autocommit for DML SQL statements; • Improved management for parametric queries on various DB2 platforms; • Improved management for traditional SQL data types; • Improved management for LOB data types on DB2 8.x systems; • Fixed an issue with Convert Date Time when used in SQL Server with linked servers and querying timestamp fields: sometimes the description of the fields and the data retrieved was conflicting causing queries via linked servers to fail; • Improved the global trace to make it more readable; • Updated HiT Server Agent (in Server edition only).

2.1.0.9	09/12/05	• Fixed a problem with stored procedure call support. In some cases, a release of the command object did not close the statement on the server causing the server to hang. The server responded only after resetting the commands and closing the session; • Introduced support for IRowsetChange using the IGNORE_VALUE flag to avoid setting default values for some fields like autonumbers; • Fixed a problem when parsing a qualified stored procedure used by Query analyzer.
2.1.0.8	11/22/04	• Fixed a problem with multiple execution for parametric queries where executing a SELECT statement, fetching results and rexecuting with different parameters gave the same results; • Fixed a problem with positional queries management, used when running queries via SQL Server linked servers. NULL parameters were not treated correctly; • Fixed a problem with locking in Two Phase Commit; • Added support for BIGINT datatype; • Fixed a problem where the toolbox was running a wrong statement in the SQL test connecting to a VM system; • Updated the SSL support with the latest cipher suites. • Fixed a problem with TIME field: the correct value was not returned; • Fixed a regression problem introduced in 2.1.0.7 with (SELECT) DECIMAL/NUMERIC SQL types; • Updated OpenSSL to version 0.9.7d and recompiled the SSL libraries using Visual Studio .NET.
2.1.0.7	08/11/03	• Improved multi-threading management with OLEDB. Previously caused multithreading .NET applications to fail (ex.: random C++ Exceptions); • Added HiT OLEDB/DB2 recognition in HiT Server Agent (HiT Server Manager); • Improved DRDA errors management in multi-threading enviroment; • Fixed a problem in Stored Procedures Management under .NET enviroment: The qualifier was skipped by the parser; • Fixed a problem that occured when CREATE PROCEDURE statement contained WITH keywords: The statement was interpreted as a SELECT statement; • Fixed a problem in tokens management that caused an Unhandled C++ Exception when an invalid command text was entered; • Fixed case-sensitive UserID and Password management in Toolbox Test (UID/PWD will be converted to uppercase) and UserID and Password persistence on UDL file. There was a potential problem using case sensitive UID/PWD accounts connecting to DB2 UDB 8.1. Now UserID and Password are always stored in their case formats in the .udl file; • Enhanced file properties details: The OLEDBDB2.DLL file in the Server version is now described as "HiT OLEDB Server/DB2" in File Properties, while the Client version remains "HiT OLEDB/DB2"; • Fixed bug in IDBInfo::GetKeywords procedure that showed up when using HiT WinAllora. An access violation occurred when releasing the shared buffer containing

the keywords string. The bug caused the calling application to hang because the shared buffer was on stack and not in system memory;

- Added a new tracing feature to high-level trace: You can now see in the trace the actual value of each output parameter;
- Fixed a problem with the high-level trace related to GetNextRows API. Now all the input/output values of this API are traced correctly;
- Improved catalogs memory management;
- Added support for Stored Procedures with constant parameters;
- Fixed a problem with NUMERIC/DECIMAL data types under Windows XP. Performing a SELECT statement on a NUMERIC/DECIMAL column, the driver mistakenly returned only 0-values in the NUMEIC/DECIMAL column;
- Improved DECIMAL and NUMERIC precision. DECIMAL and NUMERIC fields can be respectively 38 and 25 digits long;
- Added Column Alias management;
- Fixed a problem in support for stored procedures with single and multiple-result set;
- Fixed problems related to CREATE PROCEDURE statements with DECLARE CURSOR;
- Introduced recovering for error with SQLCODE = -905 during Fetch operations;
- Fixed problems in the memory management of Stored Procedures parameters;
- Now possible to execute Catalog Queries using case-sensitive restrictions;
- Improved positional update/insert/delete with BLOB fields when not using ISequentialStream bindings;
- Fixed a problem in accessor management : Previously, when the accessor was created after the prepare and not after the execute, the getdata couldn't find valid binding information;
- Removed memory leaks in accessor management;
- Fixed a Bug : querying empty tables with xLOB fields DRDA returns SQLCODE 100 SQLSTATE 02000 as an error.

2.1.0.6	04/14/03	- Resolved concurrency issues in Two Phase Commit Management ; - Added asyncronous management for ItransactionResourceAsync Interface.
2.1.0.5	02/11/03	- Fixed a problem with the Max. rows in result set property: it didn't work properly; - Added management for Case Sensitive UserID & Password (Only for DB2/NT version 8.1); - From now users can execute ADO Parametric Query with adBSTR parameters; - ColumnsRowset support for rowsets created by MultipleResults object returned E_NOINTERFACE because it could not find data source properties (using the m_sSite instance variable); - The GetBindings method did not handle accessors properly with the pObject pointer set to values other than null; - Fixed a bug on method IRowsetChange:SetData: could not change the setting of the auto-commit property after a command was already created (this worked instead for InsertRow and DeleteRows of the same interface).

2.1.0.4	11/22/02	• .Net support added: Stream buffers are now created using CoTaskMemAlloc for managed-to-unmanaged code support; • Fixed a regression introduced to support SPs with multiple result sets (especially SNA environments).
2.1.0.3	11/18/02	• Fixed a problem with Primary Key Catalog Query on DB2 OS/400; • Stored Procedure support: on MVS systems we do not strip the package collection name off the call statement; • Stored procedure support: fixed a bug that incorrectly set lob support for parameters that do not contain any blobs; • An error message is now returned for the PRMNSPRM codepoint (only when errors are encountered executing a Stored Procedure); • The RDBCMTOK codepoint is now traced properly; • When ENDUOWRM is returned by the Host, all open cursors (for dispositions 1 and 2, i.e., commit and rollback) are closed and marked to be opened on next execute; • Current resultset Fetch position and last Fetch position offsets are saved for each result set in a multiple result set situation (when generated by calling a stored procedure); • Only-output parameters now are properly handled even if no value is specified prior to calling the execution of a stored procedure; • Support for stored procedures with multiple result sets is now available for most platforms both in SNA and TCP/IP. Major hurdles were found for large result sets (both for vC0 and D0 modes of returning results); • Modified PROCEDURE PARAMS catalog support for AS400 to handle differences between ROUTINE_NAME and SPECIFIC_NAME (now catalog query is a join between SYSPROCS and SYSPARMS); • Fixed a bug that returned invalid ordinal positions for PROCEDURE PARAMS for DB2/400 and DB2 UDB.
2.1.0.2	10/28/02	• Fixed a problem when calling SP on DB2/400 (library name was missing); • Fixed a sporadic problem in getting data while reading data caused by a format conversion on the bookmark field; • From the Data Link you can now enable or disable Two Phase Commit Support; • From the Data Link you can now enable or disable the use of Local Settings; • Fixed a sporadic problem with the Toolbox: The creation or the editing of a data link file didn't create a valid data link file under some specific conditions.
2.1.0.1	09/23/02	• From the Toolbox you can now insert the connection password to save in the UDL file; • Fixed a problem related to commit management: While using 2PC support, no RDBCMM have to be sent to DB2 after the statement executions.
2.1.0.0	09/12/02	• Added Two Phase Commit Support with recovery functionality for DB2 UDB for OS/390 v6.1; • Introduced Stored Procedure Management for .NET Framework;

		• Low level trace improvement and fix: Process ID, Thread ID and timing are now traced. Fixed a concurrency problem using traces and multiple processes causing exceptions and protocol errors; • Fixed problem calling Stored procedures returning output parameters on DB2 for Windows: Output parameters were not returned; • Fixed an error using parametric queries with an idle parameter set; • Created a new VS 6.0 configuration to support integration of the DRDA.DLL with the .Net environment. Replaced some "new" and "delete" calls with CoTaskMemAlloc and CoTaskMemFree.
2.0.0.4	07/01/02	• This maintenance activity has added support for PRIMARY KEY and FOREIGN KEY catalog queries (for DB2 OS/390, DB2 UDB and DB2 OS/400). Also the ColumnsRowset interface now returns Base_Catalog, Base_Schema, Base_Table and Primary Key information for a SQL Select query; • .Net DataSet Update method is also supported and integration with .Net OLEDBAdapter Wizard is provided.
2.0.0.3	06/11/02	• Added "Convert Date Time" checkbox in the Advanced tab: This feature enables the client application to read date/time fields as char fields. This can be useful whenever the date/time field is set to non-date/time values (like 0, NULL, or a very old date) to a NULL data. This behavior is allowed by the AS/400 server, but can sometimes create problems if applications (like those using ADO, for instance) try to read that field expecting a correct date/time value. The ADO error is usually the following: "Multiple-step OLE DB operation generated errors. Check each OLE DB status value, if available. No work was done." By converting the date/time field to char, this error is avoided; • Fixed the correct functionality referring to "Max Rows in Result Set"; • Introduced support for OUT OF PROCESS working mode; • Fixed a problem occurring in first package creation connecting to DB2 for AIX. The package creation fails without reporting explicit messages, but subsequent operations fail with the following message: "Package <PACK_COLLECTION>.<PACK_NAME> was not found SQLCODE = -805, SQLSTATE = 51002"; • Introduced early release of memory in update/insert/delete operations; • Fixed a memory leak using recordsets with IMultipleResults interface; • Introduced the DisableWindowLoop check in the registry; • Fixed a DRDA problem when end-of-rowset is reached; • Fixed the following problem: when using the toolbox and changing the trace file name, in the past one could not trace anything until the toolbox was restarted. Now that can be done without restarting the toolbox; • Fixed a problem related to trace file: Trace file is created and eventually existing file overwritten only when the DLL is loaded
2.0.0.2	10/30/01	• Added support for SQLDescribeParam function. • Fixed some updating problems with LOB datatypes.

		• Running a 'select count(*) ..' from SQL Server Query Analyzer, the parser converts the '*' symbol into a '0', and the OS390 is unable to execute a 'select count(0) ..' statement. Our parser was modified in order to fix the problem. • Fixed a C++ exception running a DELETE statement from SQL Server Query Analyzer on a OpenQuery function (syntax: "delete OpenQuery (lnkServer, 'select * from …'). • Changed the memory allocation function for the rowset object: if the size of the row if consistent, we disable the optimized delete in order to limit memory use. • Fixed a problem (in debug mode): if the connection failed, a second error message would occur, caused by the notification to the agent of the end of the connect function. •
2.0.0.1	08/30/01	• Modified online help and readme files.
2.0.0.0	08/21/01	• Introduced use of the decimal separator symbol, depending on the user's local settings; • Modified error messages caused by invalid key, added expiration date and maximum number of connections in the About dialog in the Toolbox; • Resolved a memory leak problem caused by non deallocated property strings after calling IDBProperties::GetProperty; • Added HiT Server Manager to HiT OLEDB/DB2 Server to provide services for monitoring server activity and connection pooling; • Added Change License Key menu item to the Toolbox for updating product license keys; • Added the ability to upgrade HiT OLEDB/DB2 Server version 1.1 to version 2.0; • Updated installation to include Microsoft Data Access Components (MDAC) version 2.6 SP1.
1.1.2.2	05/17/01	• Fixed a conversion problem in the IRowsetChange:InsertRow and IRowsetChange:SetData methods. The conversion problem showed up when converting binary data (DBTYPES_BYTES) into Variant of type vt equal to VT_BSTR.
1.1.2.1	07/17/00	• Resolved a memory exception, which occured when a trace was active, in CreateAccessor; • Implemented the IRowsetUpdate interface (the provider doesn't expose it automatically, but the consumer can require it); • Fixed an error for the Mode property: it was permanently set to Write value; • Introduced a provider-specific property named Init Timeout, which can be saved statically. Its value is used as socket timeout value; • Fixed a memory allocation error that occurred upon selecting Rowset Locate: some memory blocks were not reused; • Resolved an update error with decimal types, with a precision greater than 19: length of field was not always correctly calculated; • Modified DRDA DLL in order to manage ANSI Host Code Pages in the 1250-1258 range. The tables are not listed in the HCP combo; • Added hstable 420, hstable 838 , hstable 954 and modified hstable 875