

Capabilities

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This section describes the capabilities supported by HVR on each location class.

Capture

This section lists the capabilities related to Capture.

| HVR Capability | Support Status |
|---|---|
| Capture changes from location | <p>Only supported on:</p> <ul style="list-style-type: none">• Aurora MySQL from 1.0 to 2.0, since HVR 5.3.1/25• Aurora PostgreSQL from 1.0 to 13.4, since HVR 5.5.5/2• Azure SQL Database• Azure SQL Managed Instance• DB2 for Linux, UNIX and Windows from version 9.7 to version 11.5• DB2 for i from version 7.2 to version 7.4• DB2 for z/OS from version 11.01.00 to version 12.01.05• HANA from version 1.0 SPS 11 to version 2.0 SPS 05• Ingres from version 9.1 to version 11.1 • MariaDB from version 10.0 to version 10.3, since HVR 5.3.1/13• MySQL from version 5.6 to version 8.0, since HVR 5.3.1/13• Oracle from version 9.2 to version 19.9• PostgreSQL from version 8.0 to version 13• SQL Server from 2000 (with SP1+) to 2019• Salesforce• Sybase ASE from version 16.0 SP00 to version 16.0 SP03 |

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| <p>Log-based capture (capture from DBMS logging system)</p> | <p>Only supported on:</p> <ul style="list-style-type: none"> • Aurora MySQL from 1.0 to 2.0, since HVR 5.3.1/25 • Aurora PostgreSQL from 2.2 to 13.4, since HVR 5.5.5/2 • Azure SQL Managed Instance • DB2 for Linux, UNIX and Windows from version 9.7 to version 11.5 • DB2 for i from version 7.2 to version 7.4 • DB2 for z/OS from version 11.01.00 to version 12.01.05 • HANA from version 1.0 SPS 11 to version 2.0 SPS 05 • Ingres from version 9.1 to version 11.1 • MariaDB from version 10.0 to version 10.3, since HVR 5.3.1/13 • MySQL from version 5.6 to version 8.0, since HVR 5.3.1/13 • Oracle from version 9.2 to version 19.9 • PostgreSQL from version 9.4 to version 13 • SQL Server from 2005 to 2019 • Sybase ASE from version 16.0 SP00 to version 16.0 SP03 |
| <p>Capture from Archive log files only</p> | <p>Only supported on:</p> <ul style="list-style-type: none"> • HANA from version 1.0 SPS 11 to version 2.0 SPS 05 • Oracle from version 9.2 to version 19.9, except on Amazon RDS for Oracle • SQL Server from 2005 to 2019, except on Amazon RDS for SQL Server, Google Cloud SQL for SQL Server, and Microsoft Azure SQL Database |
| <p>Log-based capture of DDL statements using action AdaptDDL</p> | <p>Only supported on:</p> <ul style="list-style-type: none"> • Aurora MySQL from 1.0 to 2.0, since HVR 5.3.1/25 • Azure SQL Managed Instance • DB2 for i from version 7.2 to version 7.4, since HVR 5.3.1/12 • MariaDB from version 10.0 to version 10.3, since HVR 5.3.1/21 • MySQL from version 5.6 to version 8.0, since HVR 5.3.1/21 • Oracle from version 9.2 to version 19.9 • SQL Server from 2005 to 2019 |
| <p>Log-based capture of tables without a primary key</p> | <p>Supported on all classes where Log-based capture (capture from DBMS logging system) is supported, except for:</p> <ul style="list-style-type: none"> • Oracle version 9.2 and below • SQL Server 2005 and below |

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| Direct access to logs on a file system | <p>Only supported on:</p> <ul style="list-style-type: none"> • HANA from version 1.0 SPS 11 to version 2.0 SPS 05 • Ingres from version 9.1 to version 11.1 • MariaDB from version 10.0 to version 10.3, since HVR 5.3.1 /13, except on Amazon RDS for MariaDB, and Microsoft Azure Database for MariaDB • MySQL from version 5.6 to version 8.0, since HVR 5.3.1/13, except on Amazon RDS for MySQL, Google Cloud SQL for MySQL, and Microsoft Azure Database for MySQL • Oracle from version 9.2 to version 19.9, except on Amazon RDS for Oracle • PostgreSQL from version 9.4 to version 13, except on Amazon RDS for PostgreSQL, Google Cloud SQL for PostgreSQL, and Microsoft Azure Database for PostgreSQL • SQL Server from 2005 to 2019, except on Amazon RDS for SQL Server, Google Cloud SQL for SQL Server, and Microsoft Azure SQL Database • Sybase ASE from version 16.0 SP00 to version 16.0 SP03 |
| Access to logs using SQL interface | <p>Only supported on:</p> <ul style="list-style-type: none"> • Aurora MySQL from 1.0 to 2.0, since HVR 5.3.1/25 • Aurora PostgreSQL from 2.2 to 13.4, since HVR 5.5.5/2 • Azure SQL Managed Instance • DB2 for Linux, UNIX and Windows from version 9.7 to version 11.5 • DB2 for i from version 7.2 to version 7.4 • DB2 for z/OS from version 11.01.00 to version 12.01.05 • MariaDB from version 10.0 to version 10.3, since HVR 5.3.1 /13 • MySQL from version 5.6 to version 8.0, since HVR 5.3.1/13 • Oracle from version 11.2.0.3 to version 19.9, since HVR 5.3.1/12 • PostgreSQL from version 9.4 to version 13 • SQL Server from 2005 to 2019 |
| Log-based capture with /LogReadMethod parameter | <p>Only supported on:</p> <ul style="list-style-type: none"> • MariaDB from version 10.0 to version 10.3, since HVR 5.3.1 /13 • MySQL from version 5.6 to version 8.0, since HVR 5.3.1/13 • Oracle from version 11.2.0.3 to version 19.9, since HVR 5.3.1/12 • PostgreSQL from version 9.4 to version 13 • SQL Server from 2005 to 2019 |

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| <p>Log-based capture of tables with LOB column</p> | <p>Only supported on:</p> <ul style="list-style-type: none"> • Aurora MySQL from 1.0 to 2.0, since HVR 5.3.1/25 • Aurora PostgreSQL from 2.2 to 13.4, since HVR 5.5.5/2 • Azure SQL Managed Instance • DB2 for Linux, UNIX and Windows from version 9.7 to version 11.5, since HVR 5.3.1/4 • DB2 for i from version 7.2 to version 7.4 • DB2 for z/OS from version 11.01.00 to version 12.01.05 • HANA from version 1.0 SPS 11 to version 2.0 SPS 05 • Ingres from version 9.1 to version 11.1 • MariaDB from version 10.0 to version 10.3, since HVR 5.3.1/13 • MySQL from version 5.6 to version 8.0, since HVR 5.3.1/13 • Oracle from version 10.0 to version 19.9 • PostgreSQL from version 9.4 to version 13 • SQL Server from 2005 to 2019 |
| <p>Log-based capture from hidden rowid /RRN column (ColumnProperties /CaptureFromRowId)</p> | <p>Only supported on:</p> <ul style="list-style-type: none"> • DB2 for i from version 7.2 to version 7.4, since HVR 5.7.0/0 • HANA from version 1.0 SPS 11 to version 2.0 SPS 05 • Oracle from version 9.2 to version 19.9 |
| <p>Rewind log-based capture to specific time (Hvrinit option -i)</p> | <p>Only supported on:</p> <ul style="list-style-type: none"> • Aurora MySQL from 1.0 to 2.0, since HVR 5.3.1/25 • DB2 for i from version 7.2 to version 7.4 • HANA from version 1.0 SPS 11 to version 2.0 SPS 05 • Ingres from version 9.1 to version 11.1 • MariaDB from version 10.0 to version 10.3, since HVR 5.3.1/15 • MySQL from version 5.6 to version 8.0, since HVR 5.3.1/15 • Oracle from version 9.2 to version 19.9 • PostgreSQL from version 9.4 to version 13 • SQL Server from 2005 to 2019 |
| <p>Rewind log-based capture to the beginning of currently active oldest transaction</p> | <p>Only supported on:</p> <ul style="list-style-type: none"> • Oracle from version 10.0 to version 19.9 • PostgreSQL from version 9.4 to version 13 • SQL Server from 2005 to 2019 |
| <p>Rewind log-based capture to the beginning of currently active oldest transaction for a specific list of tables</p> | <p>Only supported on:</p> <ul style="list-style-type: none"> • Oracle from version 10.0 to version 19.9 • SQL Server from 2005 to 2019 |

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| <p>Online refresh using accurate LSN /SCN</p> | <p>Only supported on:</p> <ul style="list-style-type: none"> • Aurora MySQL from 1.0 to 2.0, since HVR 5.3.1/25 • Azure SQL Managed Instance • DB2 for Linux, UNIX and Windows from version 9.7 to version 11.5 • DB2 for i from version 7.2 to version 7.4, since HVR 5.3.1/12 • HANA from version 1.0 SPS 11 to version 2.0 SPS 05 • MariaDB from version 10.0 to version 10.3, since HVR 5.3.1 /13 • MySQL from version 5.6 to version 8.0, since HVR 5.3.1/13 • Oracle from version 10.0 to version 19.9 • SQL Server from 2005 to 2019 • Sybase ASE from version 16.0 SP00 to version 16.0 SP03 |
| <p>Online refresh skips capture log records early in scanner</p> | <p>Only supported on:</p> <ul style="list-style-type: none"> • Oracle from version 10.0 to version 19.9 • SQL Server from 2005 to 2019 |
| <p>Populates column hvr_cap_user for use in ColumnProperties {hvr_cap_user} substitutions</p> | <p>Only supported on:</p> <ul style="list-style-type: none"> • Azure SQL Managed Instance • DB2 for Linux, UNIX and Windows from version 9.7 to version 11.5 • DB2 for i from version 7.2 to version 7.4 • DB2 for z/OS from version 11.01.00 to version 12.01.05 • Ingres from version 9.1 to version 11.1 • Oracle from version 9.2 to version 19.9 • SQL Server from 2005 to 2019 |
| <p>Log-based capture of truncate table statements</p> | <p>Only supported on:</p> <ul style="list-style-type: none"> • Aurora MySQL from 1.0 to 2.0, since HVR 5.3.1/25 • DB2 for Linux, UNIX and Windows from version 9.7 to version 11.5 • DB2 for i from version 7.2 to version 7.4, support depends on system setting • DB2 for z/OS from version 11.01.00 to version 12.01.05 • Ingres from version 9.1 to version 11.1 • MariaDB from version 10.0 to version 10.3, since HVR 5.3.1 /21 • MySQL from version 5.6 to version 8.0, since HVR 5.3.1/21 • Oracle from version 9.2 to version 19.9 |

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| <p>Multiple log-based capture jobs can capture from same database</p> | <p>Only supported on:</p> <ul style="list-style-type: none"> • Aurora MySQL from 1.0 to 2.0, since HVR 5.3.1/25 • Aurora PostgreSQL from 2.2 to 13.4, since HVR 5.5.5/2 • Azure SQL Managed Instance • DB2 for Linux, UNIX and Windows from version 9.7 to version 11.5 • DB2 for i from version 7.2 to version 7.4 • DB2 for z/OS from version 11.01.00 to version 12.01.05 • HANA from version 1.0 SPS 11 to version 2.0 SPS 05 • Ingres from version 9.1 to version 11.1 • MariaDB from version 10.0 to version 10.3, since HVR 5.3.1/13 • MySQL from version 5.6 to version 8.0, since HVR 5.3.1/13 • Oracle from version 9.2 to version 19.9 • PostgreSQL from version 9.4 to version 13 • SQL Server from 2005 to 2019, only FN mechanism, not SP • Sybase ASE from version 16.0 SP00 to version 16.0 SP03 |
| <p>Capture from tables with basic compression</p> | <p>Only supported on:</p> <ul style="list-style-type: none"> • Aurora MySQL from 1.0 to 2.0, since HVR 5.3.1/25 • Azure SQL Managed Instance • DB2 for Linux, UNIX and Windows from version 9.7 to version 11.5 • Ingres from version 9.1 to version 11.1 • MariaDB from version 10.0 to version 10.3, since HVR 5.3.1/13 • MySQL from version 5.6 to version 8.0, since HVR 5.3.1/13 • Oracle from version 11.2.0.4 to version 19.9 • SQL Server from 2008 to 2019 |
| <p>Capture from tables with advanced compression</p> | <p>Only supported on:</p> <ul style="list-style-type: none"> • Azure SQL Managed Instance • DB2 for Linux, UNIX and Windows from version 9.7 to version 11.5 • Ingres from version 9.1 to version 11.1 • Oracle from version 11.2.0.4 to version 19.9 • SQL Server from 2008 to 2019 |
| <p>Capture from tables with BLOB compression</p> | <p>Only supported on:</p> <ul style="list-style-type: none"> • Oracle from version 11.2.0.4 to version 19.9 |
| <p>Capture from tables with advanced index compression</p> | <p>Only supported on:</p> <ul style="list-style-type: none"> • Oracle from version 12.2 to version 19.9 |
| <p>Capture from tables with advanced row compression</p> | <p>Only supported on:</p> <ul style="list-style-type: none"> • Oracle from version 12.0 to version 19.9 |

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| <p>Log-based capture checkpointing (action Capture /CheckpointingFrequency)</p> | <p>Only supported on:</p> <ul style="list-style-type: none"> • Aurora PostgreSQL from 2.2 to 13.4, since HVR 5.5.5/2 • DB2 for Linux, UNIX and Windows from version 9.7 to version 11.5 • DB2 for i from version 7.2 to version 7.4 • DB2 for z/OS from version 11.01.00 to version 12.01.05 • Ingres from version 9.1 to version 11.1 • Oracle from version 9.2 to version 19.9 • PostgreSQL from version 9.4 to version 13 • Sybase ASE from version 16.0 SP00 to version 16.0 SP03 |
| <p>Hvrlogrelease to preserve journal /archives</p> | <p>Only supported on:</p> <ul style="list-style-type: none"> • Ingres from version 9.1 to version 11.1 • Oracle from version 9.2 to version 19.9 • SQL Server from 2005 to 2019 |
| <p>Read archives from an alternative directory (Capture /ArchiveLogPath)</p> | <p>Only supported on:</p> <ul style="list-style-type: none"> • HANA from version 1.0 SPS 11 to version 2.0 SPS 05 • Oracle from version 10.0 to version 19.9 • SQL Server from 2005 to 2019 |
| <p>Trigger-based capture (action Capture /TriggerBased)</p> | <p>Only supported on:</p> <ul style="list-style-type: none"> • Azure SQL Database • DB2 for Linux, UNIX and Windows from version 9.7 to version 11.5 • Ingres from version 9.1 to version 11.1 • Oracle from version 9.2 to version 19.9 • SQL Server from 2000 (with SP1+) to 2019 |
| <p>Capture /QuickToggle</p> | <p>Only supported on:</p> <ul style="list-style-type: none"> • Ingres from version 9.1 to version 11.1 • Oracle from version 9.2 to version 19.9 |
| <p>Boundaries between transactions preserved by trigger-based capture</p> | <p>Only supported on:</p> <ul style="list-style-type: none"> • Ingres from version 9.1 to version 11.1 • Oracle from version 9.2 to version 19.9 • SQL Server from 2000 (with SP1+) to 2019 |
| <p>Trigger-based capture jobs can be woken by db-event when change happens</p> | <p>Only supported on:</p> <ul style="list-style-type: none"> • Ingres from version 9.1 to version 11.1 • Oracle from version 10.0 to version 19.9 • SQL Server from 2008 to 2019 |

Hub Database

This section lists the capabilities related to Hub Database.

| HVR Capability | Support Status |
|----------------|--|
| Hub database | <p>Only supported on:</p> <ul style="list-style-type: none"> • Aurora MySQL from 1.0 to 2.0, since HVR 5.3.1/25 • Aurora PostgreSQL from 1.0 to 13.4, since HVR 5.3.1/25 • Azure SQL Database • Azure SQL Managed Instance • DB2 for Linux, UNIX and Windows from version 9.7 to version 11.5 • DB2 for i from version 7.2 to version 7.4 • Ingres from version 9.1 to version 11.1 • MariaDB from version 10.0 to version 10.3 <ul style="list-style-type: none"> • MySQL from version 5.6 to version 8.0 • Oracle from version 9.2 to version 19.9 • PostgreSQL from version 8.0 to version 13 • SQL Server from 2000 (with SP1+) to 2019 • Teradata from version 14.00 to version 17.00 • Vector from version 2.0 to version 6.0 |

Integrate

This section lists the capabilities related to Integrate.

| HVR Capability | Support Status |
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| <p>Integrate changes into location</p> | <p>Only supported on:</p> <ul style="list-style-type: none"> • Aurora MySQL from 1.0 to 2.0, since HVR 5.3.1/25 • Aurora PostgreSQL from 1.0 to 13.4, since HVR 5.3.1/25 • Azure SQL Database • Azure SQL Managed Instance • Azure Synapse Analytics • BigQuery version 2 • DB2 for Linux, UNIX and Windows from version 9.7 to version 11.5 • DB2 for i from version 7.2 to version 7.4 • DB2 for z/OS from version 10.01.00 to version 12.01.05 • Greenplum from version 4.0.0 to version 6.9.0 • HANA from version 1.0 SPS 11 to version 2.0 SPS 05 • Hive ACID from version 2.1.0 to version 3.1.0 • Ingres from version 9.1 to version 11.1 • Kafka version 0.8 <ul style="list-style-type: none"> • MariaDB from version 10.0 to version 10.3 • MySQL from version 5.6 to version 8.0 • Oracle from version 9.2 to version 19.9 • PostgreSQL from version 8.0 to version 13 • Redshift version 1.0 • SQL Server from 2000 (with SP1+) to 2019 • Salesforce • SingleStore version 7.1 • Snowflake version 2.8 • Sybase ASE from version 16.0 SP00 to version 16.0 SP03 • Teradata from version 14.00 to version 17.00 • Vector from version 2.0 to version 6.0 |
| <p>Integrate with /Burst</p> | <p>Supported on all classes where Integrate changes into location is supported, except for:</p> <ul style="list-style-type: none"> • DB2 for z/OS from version 10.01.00 to version 12.01.05 • Kafka from version 0.8 to version 0.8 • Salesforce |
| <p>Integrate with /BurstCommitFrequency</p> | <p>Supported on all classes where Integrate changes into location is supported, except for:</p> <ul style="list-style-type: none"> • Hive ACID from version 2.1.0 to version 3.1.0 • Kafka from version 0.8 to version 0.8 • Salesforce |
| <p>Continuous integration (Integrate without /Burst)</p> | <p>Supported on all classes where Integrate changes into location is supported, except for:</p> <ul style="list-style-type: none"> • Hive ACID from version 2.1.0 to version 3.1.0 |

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| <p>Action TableProperties with /DuplicateRows for continuous integration</p> | <p>Supported on all classes where Integrate changes into location is supported, except for:</p> <ul style="list-style-type: none"> • Azure Synapse Analytics • BigQuery version 2 • Greenplum from version 4.0.0 to version 6.9.0 • HANA from version 1.0 SPS 11 to version 2.0 SPS 05 • Hive ACID from version 2.1.0 to version 3.1.0 • Kafka from version 0.8 to version 0.8 • Redshift version 1.0 • Salesforce • Snowflake version 2.8 • Teradata from version 14.00 to version 17.00 |
| <p>Continuous Integrate with /OnErrorSaveFailed (without /Burst)</p> | <p>Supported on all classes where Integrate changes into location is supported, except for:</p> <ul style="list-style-type: none"> • Azure Synapse Analytics • BigQuery version 2 • Greenplum from version 4.0.0 to version 6.9.0 • HANA from version 1.0 SPS 11 to version 2.0 SPS 05 • Hive ACID from version 2.1.0 to version 3.1.0 • Kafka from version 0.8 to version 0.8 • Redshift version 1.0 • SingleStore version 7.1 • Snowflake version 2.8 • Teradata from version 14.00 to version 17.00 • Vector from version 2.0 to version 6.0 |
| <p>Disable/enable database triggers during Integrate (/NoTriggerFiring)</p> | <p>Only supported on:</p> <ul style="list-style-type: none"> • Azure SQL Managed Instance • Ingres from version 9.1 to version 11.1 • SQL Server from 2000 (with SP1+) to 2019 |
| <p>Action Transform /SoftDelete</p> | <p>Supported on all classes where Integrate changes into location is supported</p> |
| <p>Bulk load requires a staging area (LocationProperties /StagingDirectoryHvr)</p> | <p>Only supported on:</p> <ul style="list-style-type: none"> • Aurora MySQL from 1.0 to 2.0, since HVR 5.3.1/25 • BigQuery version 2 • Greenplum from version 4.0.0 to version 6.9.0 • HANA from version 1.0 SPS 11 to version 2.0 SPS 05 • Hive ACID from version 2.1.0 to version 3.1.0 • MariaDB from version 10.0 to version 10.3 • MySQL from version 5.6 to version 8.0 • Redshift version 1.0 • SingleStore version 7.1 • Snowflake version 2.8 |

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| Creation and update of HVR state tables | Supported on all classes, except for: <ul style="list-style-type: none"> • Hive ACID from version 2.0.0 to version 3.1.0 • Kafka from version 0.7 to version 0.8 • Salesforce |
| Integrate with /DbProc | Only supported on: <ul style="list-style-type: none"> • Azure SQL Database • Azure SQL Managed Instance • Ingres from version 9.1 to version 11.1 • Oracle from version 9.2 to version 19.9 • SQL Server from 2000 (with SP1+) to 2019 |

Bi-directional Replication

This section lists the capabilities related to Bi-directional Replication.

| HVR Capability | Support Status |
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| Detection of changes made by HVR in a bidirectional channel to prevent loop-back | Only supported on: <ul style="list-style-type: none"> • Aurora MySQL from 1.0 to 2.0, since HVR 5.3.1/25 • Aurora PostgreSQL from 1.0 to 13.4, since HVR 5.5.5/2 • Azure SQL Database • Azure SQL Managed Instance • DB2 for Linux, UNIX and Windows from version 9.7 to version 11.5, state table needs to be created before replication starts • DB2 for i from version 7.2 to version 7.4 • DB2 for z/OS from version 11.01.00 to version 12.01.05 • HANA from version 1.0 SPS 11 to version 2.0 SPS 05, state table needs to be created before replication starts • Ingres from version 9.1 to version 11.1 • MariaDB from version 10.0 to version 10.3, since HVR 5.3.1/13 • MySQL from version 5.6 to version 8.0, since HVR 5.3.1/13 • Oracle from version 9.2 to version 19.9 • PostgreSQL from version 8.0 to version 13, state table needs to be created before replication starts • SQL Server from 2000 (with SP1+) to 2019 |
| CollisionDetect with Log-based Capture (without /TimestampColumn) | Only supported on: <ul style="list-style-type: none"> • Ingres from version 9.1 to version 11.1 • Oracle from version 9.2 to version 19.9 |

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| <p>CollisionDetect with Trigger-based Capture (with Capture /TriggerBased and without CollisionDetect /TimestampColumn)</p> | <p>Supported on all classes where Trigger-based capture (action Capture /TriggerBased) is supported, except for:</p> <ul style="list-style-type: none"> • DB2 for Linux, UNIX and Windows from version 9.7 to version 11.5 |
| <p>CollisionDetect with /TimestampColumn</p> | <p>Only supported on:</p> <ul style="list-style-type: none"> • Aurora MySQL from 1.0 to 2.0, since HVR 5.3.1/25 • Aurora PostgreSQL from 1.0 to 13.4, since HVR 5.5.5/2 • Azure SQL Database • Azure SQL Managed Instance • DB2 for Linux, UNIX and Windows from version 9.7 to version 11.5 • DB2 for i from version 7.2 to version 7.4 • DB2 for z/OS from version 11.01.00 to version 12.01.05 • HANA from version 1.0 SPS 11 to version 2.0 SPS 05 • Ingres from version 9.1 to version 11.1 • MariaDB from version 10.0 to version 10.3, since HVR 5.3.1/13 • MySQL from version 5.6 to version 8.0, since HVR 5.3.1/13 • Oracle from version 9.2 to version 19.9 • PostgreSQL from version 8.0 to version 13 • SQL Server from 2000 (with SP1+) to 2019 |

Refresh and Compare

This section lists the capabilities related to Refresh and Compare.

| HVR Capability | Support Status |
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[Hvrrefresh](#) or [Hvrcompare](#) from source location

Only supported on:

- [Aurora MySQL](#) from 1.0 to 2.0, since HVR 5.3.1/25
- [Aurora PostgreSQL](#) from 1.0 to 13.4, since HVR 5.3.1/25
- [Azure SQL Database](#)
- [Azure SQL Managed Instance](#)
- [Azure Synapse Analytics](#)
- [BigQuery](#) version 2
- [DB2 for Linux, UNIX and Windows](#) from version 8.1.5 to version 11.5
- [DB2 for i](#) from version 7.0 to version 7.4
- [DB2 for z/OS](#) from version 10.01.00 to version 12.01.05
- [Greenplum](#) from version 3.0.0 to version 6.9.0
- [HANA](#) from version 1.0 SPS 11 to version 2.0 SPS 05
- [Hive ACID](#) from version 2.0.0 to version 3.1.0
- [Ingres](#) from version 1.0 to version 11.1

- [MariaDB](#) from version 5.5 to version 10.3
- [MySQL](#) from version 5.5 to version 8.0
- [Oracle](#) from version 8.0 to version 19.9
- [PostgreSQL](#) from version 7.0 to version 13
- [Redshift](#) version 1.0
- [SQL Server](#) from 1998 to 2019
- [SingleStore](#) version 7.1
- [Snowflake](#) version 2.8
- [Sybase ASE](#) from version 16.0 SP00 to version 16.0 SP03
- [Teradata](#) from version 13.10 to version 17.00
- [Vector](#) from version 1.0 to version 6.0

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| Select more than 4 billion rows during Hvrrefresh or Hvrcompare | Supported on all classes, except for: <ul style="list-style-type: none"> • Ingres from version 1.0 to version 11.1 • Kafka from version 0.7 to version 0.8 • Salesforce • Sybase ASE from version 16.0 SP00 to version 16.0 SP03 • Vector from version 1.0 to version 6.0 |
| Hvrrefresh into target location | Supported on all classes |
| Row-wise Hvrrefresh into target location (option -g) | Supported on all classes, except for: <ul style="list-style-type: none"> • Hive ACID from version 2.0.0 to version 3.1.0 • Kafka from version 0.7 to version 0.8 • Salesforce |
| Disable/enable foreign keys and secondary indices during Hvrrefresh (option -F) | Only supported on: <ul style="list-style-type: none"> • Ingres from version 1.0 to version 11.1 • Oracle from version 8.0 to version 19.9 • Vector from version 1.0 to version 6.0 |
| Disable/enable constraints check during Hvrrefresh | Only supported on: <ul style="list-style-type: none"> • Oracle from version 8.0 to version 19.9 |
| Disable/enable foreign keys from table to others during Hvrrefresh (option -F) | Only supported on: <ul style="list-style-type: none"> • Azure SQL Database • Azure SQL Managed Instance • SQL Server from 1998 to 2019 |
| Defer foreign keys during Hvrrefresh (option -F) | Only supported on: <ul style="list-style-type: none"> • Oracle from version 8.0 to version 19.9 |

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| <p>For a table: disable/enable journaling, disable/enable unique/primary constraints, disable/enable volatile secondary indices, support main storage structure during Hvrrefresh</p> | <p>Only supported on:</p> <ul style="list-style-type: none"> • Ingres from version 1.0 to version 11.1 • Vector from version 1.0 to version 6.0 |
| <p>Disable/enable triggers during Hvrrefresh (option -f)</p> | <p>Only supported on:</p> <ul style="list-style-type: none"> • Azure SQL Database • Azure SQL Managed Instance • Oracle from version 8.0 to version 19.9 • SQL Server from 1998 to 2019 |
| <p>Identity columns</p> | <p>Only supported on:</p> <ul style="list-style-type: none"> • Azure SQL Database • Azure SQL Managed Instance • Ingres from version 9.3 to version 11.1 • SQL Server from 2000 (with SP1+) to 2019 • Snowflake version 2.8 • Vector from version 2.0 to version 6.0 |
| <p>Replicate database sequences (using action DbSequence)</p> | <p>Only supported on:</p> <ul style="list-style-type: none"> • Ingres from version 9.1 to version 11.1 • Oracle from version 9.2 to version 19.9 |
| <p>Suggestions in GUI for Slice Boundaries using DBMS statistics (Hvrrefresh option -S)</p> | <p>Only supported on:</p> <ul style="list-style-type: none"> • Oracle from version 11.0 to version 19.9, since HVR 5.3.1/21 |
| <p>Select data from each table from same consistent moment in time (Hvrrefresh options -Mnow, -Mscn=val, -Mhvr_tx_seq=val, -Mtime)</p> | <p>Only supported on:</p> <ul style="list-style-type: none"> • Oracle from version 8.0 to version 19.9 |

| | |
|---|--|
| <p>Select data from each table from same consistent moment in time using a single transaction (and session) with 'serializable' SQL isolation level (Hvrrefresh option -Mserializable)</p> | <p>Only supported on:</p> <ul style="list-style-type: none"> • Aurora PostgreSQL from 1.0 to 13.4, since HVR 5.3.1/25 • Azure SQL Database • Azure SQL Managed Instance • Oracle from version 8.0 to version 19.9 • PostgreSQL from version 7.0 to version 13 • SQL Server from 1998 to 2019 • Sybase ASE from version 16.0 SP00 to version 16.0 SP03 |
| <p>Select data from each table from same consistent moment in time using a single transaction (and session) with 'snapshot' SQL isolation level (Hvrrefresh option -Msnapshot)</p> | <p>Only supported on:</p> <ul style="list-style-type: none"> • Azure SQL Database • Azure SQL Managed Instance • SQL Server from 1998 to 2019 |
| <p>Enable foreign keys immediately after Hvrrefresh option -Mserializable as done on -Msnapshot and -Mnow</p> | <p>Only supported on:</p> <ul style="list-style-type: none"> • Oracle from version 8.0 to version 19.9 |

Other Capabilities

This section lists the capabilities related to Other Capabilities.

| HVR Capability | Support Status |
|---|---|
| Both row store and column store tables can be created | <p>Only supported on:</p> <ul style="list-style-type: none"> • SingleStore version 7.1 |

Use distribution key for parallelizing changes within a table ([ColumnProperties](#) /[DistributionKey](#))

Only supported on:

- [Azure SQL Database](#)
- [Azure SQL Managed Instance](#)
- [Azure Synapse Analytics](#)
- [Greenplum](#) from version 3.0.0 to version 6.9.0
- [Hive ACID](#) from version 2.0.0 to version 3.1.0
- [Kafka](#) from version 0.7 to version 0.8

- [Redshift](#) version 1.0
- [SQL Server](#) from 1998 to 2019
- [SingleStore](#) version 7.1
- [Teradata](#) from version 13.10 to version 17.00

Call database procedure *dbproc* during replication jobs (action [AgentPlugin](#) /[DbProc](#))

Only supported on:

- [Aurora MySQL](#) from 1.0 to 2.0, since HVR 5.3.1/25
- [Aurora PostgreSQL](#) from 10.18 to 13.4, since HVR 5.3.1/25
- [Azure SQL Database](#)
- [Azure SQL Managed Instance](#)
- [DB2 for Linux, UNIX and Windows](#) from version 9.7 to version 11.5
- [HANA](#) from version 1.0 SPS 11 to version 2.0 SPS 05
- [Ingres](#) from version 9.1 to version 11.1
- [MariaDB](#) from version 10.0 to version 10.3
- [MySQL](#) from version 5.6 to version 8.0

- [Oracle](#) from version 9.2 to version 19.9
- [PostgreSQL](#) from version 11 to version 13
- [SQL Server](#) from 2000 (with SP1+) to 2019
- [SingleStore](#) version 7.1
- [Snowflake](#) version 2.8
- [Teradata](#) from version 14.00 to version 17.00

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|--|--|
| <p>DbObjectGeneration with <code>/IncludeSQLFile</code></p> | <p>Only supported on:</p> <ul style="list-style-type: none"> • Azure SQL Database • Azure SQL Managed Instance • DB2 for Linux, UNIX and Windows from version 9.7 to version 11.5 • Ingres from version 9.1 to version 11.1 • Oracle from version 9.2 to version 19.9 • SQL Server from 2000 (with SP1+) to 2019 |
| <p>International table and column names where DBMS is not configured with UTF-8 encoding</p> | <p>Supported on all classes</p> |
| <p>Lossless binary float datatypes. No dataloss when transporting float values (because base 2 fractions are never converted to base 10)</p> | <p>Only supported on:</p> <ul style="list-style-type: none"> • Aurora PostgreSQL from 1.0 to 13.4, since HVR 5.3.1/25 • Azure SQL Database • Azure SQL Managed Instance • Azure Synapse Analytics • DB2 for Linux, UNIX and Windows from version 8.1.5 to version 11.5 • DB2 for i from version 7.0 to version 7.4 • DB2 for z/OS from version 10.01.00 to version 12.01.05 • Ingres from version 1.0 to version 11.1 • Oracle from version 8.0 to version 19.9 • SQL Server from 1998 to 2019 • Sybase ASE from version 16.0 SP00 to version 16.0 SP03 |

Treat DBMS table names and columns as case sensitive if configured (action [LocationProperties](#) /**CaseSensitiveNames** defined)

Only supported on:

- [Aurora MySQL](#) from 1.0 to 2.0, since HVR 5.3.1/25
- [Aurora PostgreSQL](#) from 1.0 to 13.4, since HVR 5.3.1/25
- [Azure SQL Database](#), since HVR 5.6.5/1
- [Azure SQL Managed Instance](#), since HVR 5.6.5/1
- [Azure Synapse Analytics](#), since HVR 5.6.5/1
- [BigQuery](#) version 2
- [DB2 for Linux, UNIX and Windows](#) from version 8.1.5 to version 11.5, since HVR 5.6.5/1
- [DB2 for i](#) from version 7.0 to version 7.4, since HVR 5.6.5/1
- [DB2 for z/OS](#) from version 10.01.00 to version 12.01.05, since HVR 5.6.5/1
- [Greenplum](#) from version 3.0.0 to version 6.9.0
- [HANA](#) from version 1.0 SPS 11 to version 2.0 SPS 05, since HVR 5.6.5/1
- [Ingres](#) from version 1.0 to version 11.1
- [MariaDB](#) from version 5.5 to version 10.3
- [MySQL](#) from version 5.5 to version 8.0
- [Oracle](#) from version 8.0 to version 19.9
- [PostgreSQL](#) from version 7.0 to version 13
- [Redshift](#) version 1.0, since HVR 5.6.5/1
- [SQL Server](#) from 1998 to 2019, since HVR 5.6.5/1
- [SingleStore](#) version 7.1
- [Snowflake](#) version 2.8, since HVR 5.6.5/1
- [Sybase ASE](#) from version 16.0 SP00 to version 16.0 SP03
- [Teradata](#) from version 13.10 to version 17.00, since HVR 5.6.5/1
- [Vector](#) from version 1.0 to version 6.0

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|---|--|
| <p>Always treat DBMS table names and column names as case sensitive, even if not configured (action LocationProperties /CaseSensitiveNames not defined)</p> | <p>Only supported on:</p> <ul style="list-style-type: none"> • Aurora MySQL from 1.0 to 2.0 • Aurora PostgreSQL from 1.0 to 13.4 • Azure SQL Database • Azure SQL Managed Instance • Azure Synapse Analytics • BigQuery version 2 • MariaDB from version 5.5 to version 10.3 • MySQL from version 5.5 to version 8.0 • PostgreSQL from version 7.0 to version 13 • SQL Server from 1998 to 2019 • SingleStore version 7.1 |
| <p>Always treat DBMS schema names case sensitive</p> | <p>Only supported on:</p> <ul style="list-style-type: none"> • Aurora MySQL from 1.0 to 2.0 • Aurora PostgreSQL from 1.0 to 13.4 • Azure SQL Database • Azure SQL Managed Instance • Azure Synapse Analytics • BigQuery version 2 • MariaDB from version 5.5 to version 10.3 • MySQL from version 5.5 to version 8.0 • PostgreSQL from version 7.0 to version 13 • SQL Server from 1998 to 2019 • SingleStore version 7.1 |
| <p>Reduce width of datatype when selecting or capturing changes (action ColumnProperties /TrimDatatype)</p> | <p>Only supported on:</p> <ul style="list-style-type: none"> • Oracle from version 8.0 to version 19.9 |
| <p>Distinguish and support capture from 'materialized views'</p> | <p>Only supported on:</p> <ul style="list-style-type: none"> • DB2 for Linux, UNIX and Windows from version 9.7 to version 11.5 • Oracle from version 9.2 to version 19.9 |
| <p>Distinguish and support capture from 'row store tables'</p> | <p>Not supported</p> |
| <p>Distinguish and support capture from 'column store tables'</p> | <p>Only supported on:</p> <ul style="list-style-type: none"> • HANA from version 1.0 SPS 11 to version 2.0 SPS 05 |