



## Syniti Solutions ODBC Security Requirements

BackOffice Associates, LLC

12000 Findley Road

Suite 200

Johns Creek, GA 30097

T +1 770-246-1287

F +1 770-246-1289

[info@boaweb.com](mailto:info@boaweb.com)

[www.boaweb.com](http://www.boaweb.com)

# Table of Contents

- Overview ..... 3**
- SAP ODBC Requirements ..... 3**
  - Collect DBMS Connection Requirements..... 3
    - ODBCDB2..... 3
    - ODBCDB2AS400..... 4
    - ODBCHANA..... 4
    - ODBCIMS ..... 5
    - ODBCINFORMIX..... 5
    - ODBCMAXDB ..... 5
    - ODBCMYSQL ..... 6
    - ODBCPROGRESS ..... 6
    - ODBCSYBASE..... 6
    - ODBCTERADATA, OLETERADATA..... 7
    - ORACLE, OLEORACLE, ODBCORACLE ..... 7
    - ORACLE8, OLEORACLE8, ODBCORACLE8 ..... 7
    - SQLSERVER, ODBCSQLSERVER ..... 8
  - Collect DBMS Data Type Conversions ..... 8
  - Collect SAP DBMS Downloads ..... 9
- SAP Tables Commonly used by Stewardship Tier ..... 9**

## Overview

This manual outlines Open Database Connectivity (ODBC) security requirements for Syniti Solutions.

## SAP ODBC Requirements

The ODBC database login must meet the following requirements:

1. Non-user ID
2. Non-expiring password
3. Read-only login
4. Optional: Give read access to only the list of tables in scope (system tables listed in this document are not optional)

In addition, a port may need to be opened to allow access. Port 1433 is the default port used by SQL Server, but it can be changed to whatever the client wants.

## Collect DBMS Connection Requirements

Collect supports any combination of ODBC connections if the 32-bit Source DBMS drivers are installed on the application server. Do not install 32-bit drivers on the application server for Stewardship Tier unless you are using version 6.5.6 or lower (or you are using a higher version in 32-bit mode). New installs of 6.6 or higher will default to 64-bit operation, while upgrades from versions prior to 6.6 will remain at 32-bit. Further information on this and instructions on how to switch between 32 and 64-bit operation can be found in the appendices of the Stewardship Tier installation manual (prior to 7.1). You can also submit a request at [support.boaweb.com](http://support.boaweb.com) for information on this topic.

ODBC entries require a DSN to be configured in the ODBC Data Source Administrator on the application server. In most cases, the 64-bit ODBC Data Source Administrator should be used (C:\Windows\System32\odbcad32.exe). If Stewardship Tier is running in 32-bit mode, then 32-bit drivers will be required, and the 32-bit ODBC Data Source Administrator needs to be used (C:\Windows\SysWOW64\odbcad32.exe).

IWAM and IUSR Windows accounts require read and execute permission to the Source DBMS driver DLL files to pull data and test connections.

The list of system tables required for each DBMS to build tables in the target SQL server database is provided below. AS400 DB2 tables may have customized the schema owner of the system tables and could possibly require changes. The following are general requirements for preconfigured DBMS Collect installations.

### ODBCDB2

ODBCDB2 is used for mainframe connections and the driver may be changed depending on what the client provides. All drivers must be supplied by the client.

|                               |  |
|-------------------------------|--|
| <b>Required System Tables</b> | <p>SELECT access to the following tables:</p> <ul style="list-style-type: none"> <li>• SYSIBM.SYSTABLES</li> <li>• SYSIBM.SYSCOLUMNS</li> <li>• SYSIBM.SYSKEYS</li> <li>• SYSIBM.SYSINDEXES</li> </ul> |
| <b>Commonly used Driver</b>   | <p>driver={IBM DB2 ODBC DRIVER}</p>  |

|                                      |   |
|--------------------------------------|---|
| <b>SAP Installation requirements</b> | SELECT access to the following tables:<br>DD02L<br>DD03L<br>DD02T<br>DD04T<br>DD05S<br>DD07T<br>DD08L |
|--------------------------------------|---|

### ODBCDB2AS400

ODBCDB2AS400 is used for AS400 DB2 connections and the driver may be changed depending on what the client provides. All drivers must be supplied by the client.

|                                      |   |
|--------------------------------------|---|
| <b>Required System Tables</b>        | SELECT access to the following tables:<br><ul style="list-style-type: none"> <li>• QSYS2.SYSTABLES</li> <li>• QSYS2.SYSCOLUMNS</li> <li>• QSYS2.SYSKEYS</li> <li>• QSYS2.SYSINDEXES</li> </ul>            |
| <b>Commonly used Driver</b>          | driver={iSeries Access ODBC DRIVER}   |
| <b>SAP Installation Requirements</b> | SELECT access to the following tables:<br><ul style="list-style-type: none"> <li>• DD02L</li> <li>• DD03L</li> <li>• DD02T</li> <li>• DD04T</li> <li>• DD05S</li> <li>• DD07T</li> <li>• DD08L</li> </ul> |

### ODBCCHANA

ODBCCHANA is used for SAP HANA connections. All drivers must be supplied by the client.

|                               |  |
|-------------------------------|--|
| <b>Required System Tables</b> | SELECT access to the following tables:<br><ul style="list-style-type: none"> <li>• SYS.TABLES</li> <li>• SYS.TABLE_COLUMNS</li> <li>• SYS.INDEX_COLUMNS</li> </ul> |
| <b>Commonly used Driver</b>   | Driver={HDBODBC};<br>Or Driver for 32-bit Connections:<br>Driver={HDBODBC32}   |

|                                      |  |
|--------------------------------------|--|
| <b>SAP Installation Requirements</b> | SELECT access to the following tables: <ul style="list-style-type: none"> <li>• DD02L</li> <li>• DD03L</li> <li>• DD02T</li> <li>• DD04T</li> <li>• DD05S</li> <li>• DD07T</li> <li>• DD08L</li> </ul> |
|--------------------------------------|--|

### ODBCIMS

ODBCIMS is used for IMS Hierarchical connections, and the driver may be changed depending on what the client provides. All drivers must be supplied by the client.

|                                      |   |
|--------------------------------------|---|
| <b>Required System Tables</b>        | SELECT access to the following tables: <ul style="list-style-type: none"> <li>• SYSTEM.SYSTAB</li> <li>• SYSTEM.SYSCOL</li> </ul> |
| <b>Commonly used Driver</b>          | driver={tcACCESS Driver};   |
| <b>SAP Installation Requirements</b> | NA  |

### ODBCINFORMIX

ODBCINFORMIX is used for Informix connections and the driver may be changed depending on what the client provides. All drivers must be supplied by the client.

**NOTE:** All tables must be entered in lower case.

|                                      |  |
|--------------------------------------|--|
| <b>Required System Tables</b>        | SELECT access to the following tables: <ul style="list-style-type: none"> <li>• systables</li> <li>• syscolumns</li> <li>• sysindexes</li> </ul>   |
| <b>Commonly used Driver</b>          | Client must provide the Driver used<br><br>Or Provider for OLE Connections:<br><br>Provider=Ifxoledbc  |
| <b>SAP Installation Requirements</b> | SELECT access to the following tables: <ul style="list-style-type: none"> <li>• DD02L</li> <li>• DD03L</li> <li>• DD02T</li> <li>• DD04T</li> <li>• DD05S</li> <li>• DD07T</li> <li>• DD08L</li> </ul> |

### ODBCMAXDB

ODBCMAXDB is used for SAP MAXDB DBMS connections and the driver may be changed depending on what the client provides. All drivers must be supplied by the client.

|                                      |  |
|--------------------------------------|--|
| <b>Required System Tables</b>        | SELECT access to the following tables: <ul style="list-style-type: none"> <li>• DOMAIN.TABLES</li> <li>• DOMAIN.COLUMNS</li> </ul>   |
| <b>Commonly used Driver</b>          | driver=MaxDB;  |
| <b>SAP Installation Requirements</b> | SELECT access to the following tables: <ul style="list-style-type: none"> <li>• DD02L</li> <li>• DD03L</li> <li>• DD02T</li> <li>• DD04T</li> <li>• DD05S</li> <li>• DD07T</li> <li>• DD08L</li> </ul> |

### ODBCMYSQL

ODBCMYSQL is used for MYSQL DBMS connections, and the driver may be changed depending on what the client provides. All drivers must be supplied by the client.

|                                      |  |
|--------------------------------------|--|
| <b>Required System Tables</b>        | SELECT access to the following tables: <ul style="list-style-type: none"> <li>• informational_schema,tables</li> <li>• informational_schema,columns</li> </ul> |
| <b>Commonly used Driver</b>          | Driver={MySQL ODBC 5.1 Driver};  |
| <b>SAP Installation Requirements</b> | SELECT access to the following tables: <ul style="list-style-type: none"> <li>• DD02L</li> <li>• DD03L</li> </ul>  |

### ODBCPROGRESS

ODBCPROGRESS is used for (MFGPRO) Progress DBMS connections and the driver may be changed depending on what the client provides. All drivers must be supplied by the client.

|                                      |   |
|--------------------------------------|---|
| <b>Required System Tables</b>        | SELECT access to the following tables: <ul style="list-style-type: none"> <li>• SYSPROGRESS.SYSTABLES</li> <li>• SYSPROGRESS.SYSCOLUMNS_FULL</li> </ul> |
| <b>Commonly used Driver</b>          | Client must provide the Driver used   |
| <b>SAP Installation Requirements</b> | NA  |

### ODBCSYBASE

ODBCSYBASE is used for Sybase DBMS connections and the driver may be changed depending on what the client provides. All drivers must be supplied by the client.

|                               |  |
|-------------------------------|--|
| <b>Required System Tables</b> | SELECT access to the following tables: <ul style="list-style-type: none"> <li>• sysobjects</li> <li>• syscolumn</li> <li>• systypes</li> <li>• sysusers</li> </ul> |
|-------------------------------|--|

|                                      |  |
|--------------------------------------|--|
| <b>Commonly used Driver</b>          | Client must provide the Driver used  |
| <b>SAP Installation Requirements</b> | SELECT access to the following tables: <ul style="list-style-type: none"> <li>• DD02L</li> <li>• DD03L</li> <li>• DD02T</li> <li>• DD04T</li> <li>• DD05S</li> <li>• DD07T</li> <li>• DD08L</li> </ul> |

### ODBC TERADATA, OLE TERADATA

ODBC TERADATA and OLE TERADATA are used for Teradata DBMS connections and the driver may be changed depending on what the client provides. All drivers must be supplied by the client. Leave Driver blank if using the OLE connection type.

|                                      |   |
|--------------------------------------|---|
| <b>Required System Tables</b>        | SELECT access to the following table: <ul style="list-style-type: none"> <li>• DBC.COLUMNS</li> </ul> |
| <b>Commonly used Driver</b>          | driver=Teradata<br>Or Provider for OLE Connections:<br>Provider=TDOLEDB                               |
| <b>SAP Installation Requirements</b> | NA  |

### ORACLE, OLE ORACLE, ODBC ORACLE

ORACLE, OLE ORACLE and ODBC ORACLE are used for Oracle DBMS (9, 10, and 11) connections and the driver may be changed depending on what the client provides. All drivers must be supplied by the client. Leave Driver blank if using the OLE connection type.

|                                      |  |
|--------------------------------------|--|
| <b>Required System Tables</b>        | SELECT access to the following tables: <ul style="list-style-type: none"> <li>• SYS.ALL_TAB_COLS</li> <li>• SYS.ALL_CONSTRAINTS</li> <li>• SYS.ALL_IND_COLUMNS</li> <li>• SYS.ALL_INDEXES</li> </ul>   |
| <b>Commonly used Driver</b>          | driver=Microsoft ODBC for Oracle<br>Or Provider for OLE Connections:<br>Provider= OraOLEDB.Oracle  |
| <b>SAP Installation Requirements</b> | SELECT access to the following tables: <ul style="list-style-type: none"> <li>• DD02L</li> <li>• DD03L</li> <li>• DD02T</li> <li>• DD04T</li> <li>• DD05S</li> <li>• DD07T</li> <li>• DD08L</li> </ul> |

### ORACLE8, OLE ORACLE8, ODBC ORACLE8

ORACLE8, OLE ORACLE8 and ODBC ORACLE8 are used for Oracle DBMS (7 and 8) connections and the driver may be changed depending on what the client provides. All drivers must be supplied by the client.

Leave Driver blank if using the OLE connection type.

|                                      |   |
|--------------------------------------|---|
| <b>Required System Tables</b>        | <p>SELECT access to the following tables:</p> <ul style="list-style-type: none"> <li>• SYS.ALL_TAB_COLUMNS</li> <li>• SYS.ALL_CONSTRAINTS</li> <li>• SYS.ALL_IND_COLUMNS</li> <li>• SYS.ALL_INDEXES</li> </ul> <p><b>NOTE:</b> These settings should match Oracle except for the one system view.</p> |
| <b>Commonly used Driver</b>          | <p>driver=Microsoft ODBC for Oracle</p> <p>Or Provider for OLE Connections:<br/>Provider= OraOLEDB.Oracle</p>   |
| <b>SAP Installation Requirements</b> | <p>SELECT access on the following tables:</p> <ul style="list-style-type: none"> <li>• DD02L</li> <li>• DD03L</li> <li>• DD02T</li> <li>• DD04T</li> <li>• DD05S</li> <li>• DD07T</li> <li>• DD08L</li> </ul>   |

### SQLSERVER, ODBCSQLSERVER

SQLSERVER and ODBCSQLSERVER are used for SQLSERVER DBMS connections. The driver is part of the Windows OS when SQL SERVER Client is installed.

|                                      |   |
|--------------------------------------|---|
| <b>Required System Tables</b>        | <p>SELECT access to the following tables:</p> <ul style="list-style-type: none"> <li>• sysobjects</li> <li>• syscolumns</li> <li>• systypes</li> <li>• sysusers</li> </ul>                                    |
| <b>Commonly used Driver</b>          | NA  |
| <b>SAP Installation Requirements</b> | <p>SELECT access to the following tables:</p> <ul style="list-style-type: none"> <li>• DD02L</li> <li>• DD03L</li> <li>• DD02T</li> <li>• DD04T</li> <li>• DD05S</li> <li>• DD07T</li> <li>• DD08L</li> </ul> |

**Collect  
DBMS  
Data  
Type**

### Conversions

Collect supports any type of data type conversion completed inside a DTS Package. Collect is delivered preconfigured with the most popular options used at the client sites. However, these mappings can be adjusted to client requirements. For example, the Oracle data type of LONG (binary objects) is filtered out for Data Migration Projects. Collect can be modified to handle these objects. All the SAP Types in DD03L are preconfigured as well to load into a SQL SERVER database as a target.

Collect has been configured to load all columns into NVARCHAR or NCHAR or NTEXT to support Unicode character downloads. This will take up twice as much space than a normal VARCHAR configuration. Calculate the total space used



or change the data type mapping to VARCHAR for columns that do not support Unicode characters.

## Collect SAP DBMS Downloads

Collect uses SAP DD02L table to determine which tables can be downloaded via ODBC or require an RFC connection type. POOLED and CLUSTERED tables can only be downloaded via an RFC connection or from SAP into a flat file and then loaded into the source database.

Collect uses DD03L for looking at column type conversions and checking for the primary key of the SAP table. It will create the SQL SERVER table with the primary key matching SAP settings.

Verify Collect has access to both tables to allow the Build Package process to work.

## SAP Tables Commonly used by Stewardship Tier

|            |         |            |      |        |          |       |        |
|------------|---------|------------|------|--------|----------|-------|--------|
| ADCP       | D020T   | ESTRH      | KNMT | MKAL   | QPGT     | T004  | T024D  |
| ADR13      | DD01L   | ESTRI      | KNVA | MKPF   | QPMK     | T004G | T024E  |
| ADR2       | DD02L   | ESTVA      | KNVD | MLAN   | QPMT     | T004T | T024F  |
| ADR3       | DD02T   | FAGL_SEGM  | KNVH | MLGN   | QPMZ     | T005  | T024I  |
| ADR6       | DD03L   | HRP1000    | KNVI | MLGT   | QPRVK    | T005E | T024L  |
| ADRC       | DD03T   | HRP1001    | KNVK | MPLA   | QPRVKT   | T005F | T024W  |
| ADRCT      | DD04L   | HRP1002    | KNVL | MPOS   | QPSPT    | T005G | T024X  |
| ADRP       | DD04T   | HRP1005    | KNVP | MPRP   | RDPR     | T005H | T025   |
| ADRREGGRPT | DD05S   | HRP1008    | KNVS | MSEG   | RDTX     | T005K | T025T  |
| ADRT       | DD07L   | HRP1013    | KNVT | MVKE   | SETCLS   | T005O | T027A  |
| AFKO       | DD07T   | HRP1028    | KNVV | NAST   | SETCLST  | T005Q | T027B  |
| AFPO       | DD08L   | HRP1050    | KNZA | NRIV   | SETHEADE | T005R | T030S  |
| ANKA       | DD30L   | HRT1002    | KSML | ONR00  | SETHEADE | T005S | T035   |
| ANLA       | DD31S   | IDOCSYN    | KSSK | PA0000 | SETLEAF  | T005T | T035T  |
| AUFK       | DD32S   | IFLOT      | LAGP | PA0001 | SETNODE  | T005U | T036   |
| AUSP       | DD35L   | IFLOTX     | LFA1 | PA0002 | SKA1     | T006  | T036T  |
| BNKA       | DD36S   | ILOA       | LFAS | PA0006 | SKAT     | T006A | T040   |
| BSEG       | DDFTX   | INDUSTYPE  | LFAT | PA0007 | SKB1     | T006D | T040S  |
| BUSTYPE    | DGTM2   | INOB       | LFB1 | PA0008 | STAS     | T007A | T040T  |
| CABN       | DGTMD   | J_1AACT    | LFB5 | PLAB   | STKO     | T007D | T041C  |
| CABNT      | DOKID   | J_1AACTT   | LFBK | PLAS   | STPO     | T007S | T042E  |
| CAWN       | DOKIL   | J_1ADTYP   | LFBW | PLFL   | STZU     | T008  | T042F  |
| CAWNT      | DOKTL   | J_1AFITP   | LFM1 | PLKO   | SWOR     | T008T | T042Z  |
| CBPT       | EDBAS   | J_1AFITPVT | LFM2 | PLMK   | SXDA0    | T009  | T043G  |
| CDHDR      | EDBAST  | J_1AGICD   | LFMH | PLMZ   | SXDA0T   | T009T | T043GT |
| CDPOS      | EDISDEF | J_1AINFSKS | LFZA | PLPO   | SXDA1    | T012  | T043S  |
| CEPC       | EDISEG  | J_1ATODC   | LQUA | PROP   | SXDA1T   | T012K | T043ST |
| CEPCT      | EDISEGT | J_1ATODCT  | MAEX | PVBE   | SXDA2    | T012T | T044G  |
| CKMLCR     | EDPP1   | JEST       | MAKT | PVKT   | SXDA2T   | T014  | T047   |
| CKMLHD     | EINA    | KAKO       | MAKV | QCVK   | SXDA3    | T014T | T047M  |



|        |       |         |       |       |        |         |        |
|--------|-------|---------|-------|-------|--------|---------|--------|
| CKMLPR | EINE  | KLAH    | MAPL  | QCVM  | T000   | T015L   | T047N  |
| COTPL  | EKKO  | KNA1    | MAPR  | QCVMT | T001   | T015W   | T047R  |
| CRCA   | EKPO  | KNAS    | MARA  | QDDRT | T001K  | T015WT  | T047S  |
| CRHD   | EORD  | KNAT    | MARC  | QDSVT | T001L  | T016    | T047T  |
| CRHH   | EQKT  | KNB1    | MARD  | QINF  | T001P  | T016T   | T048K  |
| CRTX   | EQUZ  | KNB5    | MARM  | QMAT  | T001S  | T023    | T048L  |
| CSKA   | ESTMJ | KNBK    | MAST  | QMSP  | T001W  | T023T   | T049L  |
| CSKS   | ESTPH | KNBW    | MBEW  | QMTB  | T002   | T024    | T052   |
| CSKT   | ESTPJ | KNEX    | MDIP  | QMTT  | T002T  | T024A   | T052A  |
| CSKU   | ESTPP | KNKA    | MEAN  | QPAM  | T003   | T024B   | T052T  |
| CVERS  | ESTPS | KNKK    | MGEF  | QPCT  | T003T  | T024C   | T052U  |
| T053A  | T133A | T171T   | T401A | T438A | T606R  | TAPRF   | TCPA   |
| T053B  | T133B | T178    | T401T | T438M | T606U  | TBMOT   | TCPAT  |
| T053V  | T133K | T178T   | T405  | T438R | T606V  | TBRC    | TCURC  |
| T053W  | T134  | T179    | T410T | T438S | T609GP | TBRCT   | TCURT  |
| T056   | T134M | T179T   | T411  | T438T | T610CT | TBSG    | TCURV  |
| T056X  | T134T | T188    | T411T | T438W | T615T  | TBSL    | TCURW  |
| T059A  | T137  | T188T   | T412  | T438X | T616T  | TC20T   | TDG41  |
| T059B  | T137T | T189    | T412T | T439A | T618   | TC21    | TDG42  |
| T059D  | T141  | T189T   | T413  | T439G | T618GT | TC21T   | TDG74  |
| T059M  | T141T | T190S   | T413T | T439H | T618M  | TC23A   | TFACD  |
| T059Q  | T142  | T190ST  | T414  | T439L | T618MT | TC24    | TFACT  |
| T059T  | T142T | T300    | T414T | T439P | T618T  | TC25    | TFKB   |
| T059U  | T143  | T300T   | T415S | T439T | T683   | TC26T   | TFKBT  |
| T059W  | T143T | T301    | T415T | T440G | T683T  | TC30    | TGSB   |
| T059ZT | T144  | T301T   | T416  | T441A | T683U  | TC52    | TGSBT  |
| T069   | T144T | T304T   | T416T | T441T | T685T  | TCA01   | THITT  |
| T069T  | T148  | T305T   | T417  | T460A | T686C  | TCA02   | THIZU  |
| T077D  | T149  | T306T   | T417T | T460T | T691A  | TCA08   | THM010 |
| T077K  | T149A | T307T   | T418  | T461P | T691C  | TCA41   | THM018 |
| T077S  | T149B | T30AT   | T418F | T461T | T691P  | TCA4T   | THM032 |
| T077X  | T149C | T320    | T418T | T461X | T691T  | TCA53   | THM040 |
| T077Y  | T149D | T331    | T421T | T46AC | T6WFG  | TCA55   | THM063 |
| T077Z  | T149E | T338T   | T423T | T46AT | T6WL4  | TCC14   | TIBAN  |
| T078K  | T149T | T351    | T425T | T498  | T6WL5  | TCESSIO | TINC   |
| T079D  | T151  | T352B   | T426T | T499P | T6WP1  | TCESSIO | TINCT  |
| T079K  | T151T | T352B_T | T428T | T499Q | T6WP3  | TCK08   | TJ20T  |
| T079M  | T156  | T353I   | T429T | T499S | T6WP4  | TCK09   | TJ21   |
| T079V  | T159C | T357    | T430  | T500P | T6WSA  | TCK14   | TJ30   |
| T083L  | T161  | T357M   | T430T | T501  | T6WSP  | TCK15   | TJ30T  |
| T087G  | T161T | T370B   | T433  | T501T | T703K  | TCLA    | TKA01  |



|        |         |         |        |        |        |        |        |
|--------|---------|---------|--------|--------|--------|--------|--------|
| T087I  | T163    | T370C   | T434G  | T502T  | T703M  | TCLAT  | TKA02  |
| T087K  | T163K   | T370F   | T434H  | T503   | T777O  | TCLO   | TKA05  |
| T087U  | T163L   | T370K   | T435   | T503T  | T778O  | TCLT   | TKB4A  |
| T092   | T163M   | T370P   | T435T  | T512T  | T778P  | TCLUT  | TKB4C  |
| T093C  | T163S   | T370S   | T436A  | T528B  | T778V  | TCME   | TKKH1  |
| T094A  | T163Y   | T370T   | T437P  | T604   | T77VB  | TCMGT  | TKKH2  |
| T095A  | T165R   | T377P   | T437R  | T604N  | T856   | TCMST  | TKT05  |
| T097   | T169L   | T377P_T | T437S  | T604T  | T880   | TCN00  | TKUKL  |
| T098   | T169X   | T399G   | T437T  | T606A  | T8JA   | TCN01  | TKUKT  |
| T130D  | T16FB   | T399I   | T437V  | T606DT | T8JJ   | TCO43  | TKUPA  |
| T130F  | T16FG   | T399P   | T437W  | T606G  | TABW   | TCO43T | TKV01  |
| T132   | T171    | T399W   | T437X  | T606I  | TAIF5  | TCO48T | TKV02  |
| TLGR   | TQ04S   | TSPA    | TVKBT  | TVTW   | WRF12  | TLGRT  | TQ05   |
| TMABCT | TQ08    | TSTL    | TVKMT  | TVV1   | WYT3   | TMBWT  | TQ08T  |
| TMQ2   | TQ32    | TTZZT   | TVM1T  | TVZBT  | TMVF   | TQ34   | TVAK   |
| TPAKD  | TQ73T   | TVCLKT  | TVMST  | TWMEG  | TPAKL  | TQ79   | TVCTYT |
| TPRIT  | TSAD12T | TVGFT   | TVP8T  | TZONE  | TPST   | TSAD2T | TVGRT  |
| TQ02   | TSAPDT  | TVK5T   | TVSBT  | VBWF07 | TQ02B  | TSFGT  | TVK6T  |
| TQ15T  | TTXID   | TVKOV   | TVV4T  | TMKK   | TQ17U  | TTXJ   | TVKT   |
| TQ61T  | TVBOT   | TVM3T   | TWBO2T | TNLST  | TQ62T  | TVBRT  | TVM4T  |
| TSAB   | TVFCD   | TVP3T   | TWVMO  | TPAUM  | TSABT  | TVFCDT | TVP4T  |
| TSAD3T | TVK0T   | TVPHT   | TZUNT  | TPVDT  | TSAD4  | TVK1T  | TVPRT  |
| TSKDT  | TVK8T   | TVSMT   | VCNUM  | TQ04A  | TSKMT  | TVK9T  | TVTA   |
| TSPAT  | TVKBZ   | TVTWT   | WRF4   | TLOGT  | TQ05T  | TSTC   | TVKDT  |
| TTGR   | TVKO    | TVV1T   | TTGR   | TVKO   | TMFG   | TQ11T  | TTGRT  |
| TTXOB  | TVKWZ   | TVWA    | TMODU  | TQ31T  | TTZZ   | TVM1   | TVWAT  |
| TVBVK  | TVM5T   | TWEW    | TPAER  | TQ72T  | TVCINT | TVMS   | TWEWT  |
| TVFMT  | TVP6T   | TZGR    | TPRFT  | TSAD12 | TVGF   | TVP7T  | TZGRT  |
| TVK3T  | TVRLT   | VBAP    | TQ01E  | TSADV  | TVK4T  | TVSB   | VBUK   |
| TVKOS  | TVV2T   | TMFGT   | TQ12T  | TTXDT  | TVKOT  | TVV3T  | TMFPFT |
| TVM2T  | TWBB    | TMVFT   | TQ39L  | TVAVT  | TVM3   | TWBO1  | TNLS   |
| TVP0T  | TWRVT   | TPAR    | TQ79T  | TVEGRT | TVP2T  | TWSPR  | TPART  |
| TVP9T  | TZONT   | TPTM    | TSAD3  | TVIPT  | TVPA   | TZUN   | TPTMT  |
| TVSD   | VBWF08  | TQ02T   | TSKD   | TVK7T  | TVSDT  | VCKUN  | TQ02U  |
| TVTY   | WYT1    | TMABC   | TQ06T  | TSTCT  | TVKGGT | TVTYT  | WYT1T  |
| TVV5T  | TMKKT   | TQ29T   | TTXJT  | TVKTT  | TVVWT  | TMKM1  | TQ30T  |
| TWBO3T | TNTP    | TQ63T   | TVBUR  | TVM5   | TWBO4T | TNTPB  | TQ64T  |
| TWVMOT | TPFKT   | TSAC    | TVFM   | TVP5T  | TWYAZT | TPOOL  | TSACT  |
| USR03  | TQ01B   | TSAD5T  | TVK2T  | TVPVT  | VBAK   | TQ01C  | TSAD7T |
| VTSGDT |         |         |        |        |        |        |        |

Last Updated: January 5, 2022